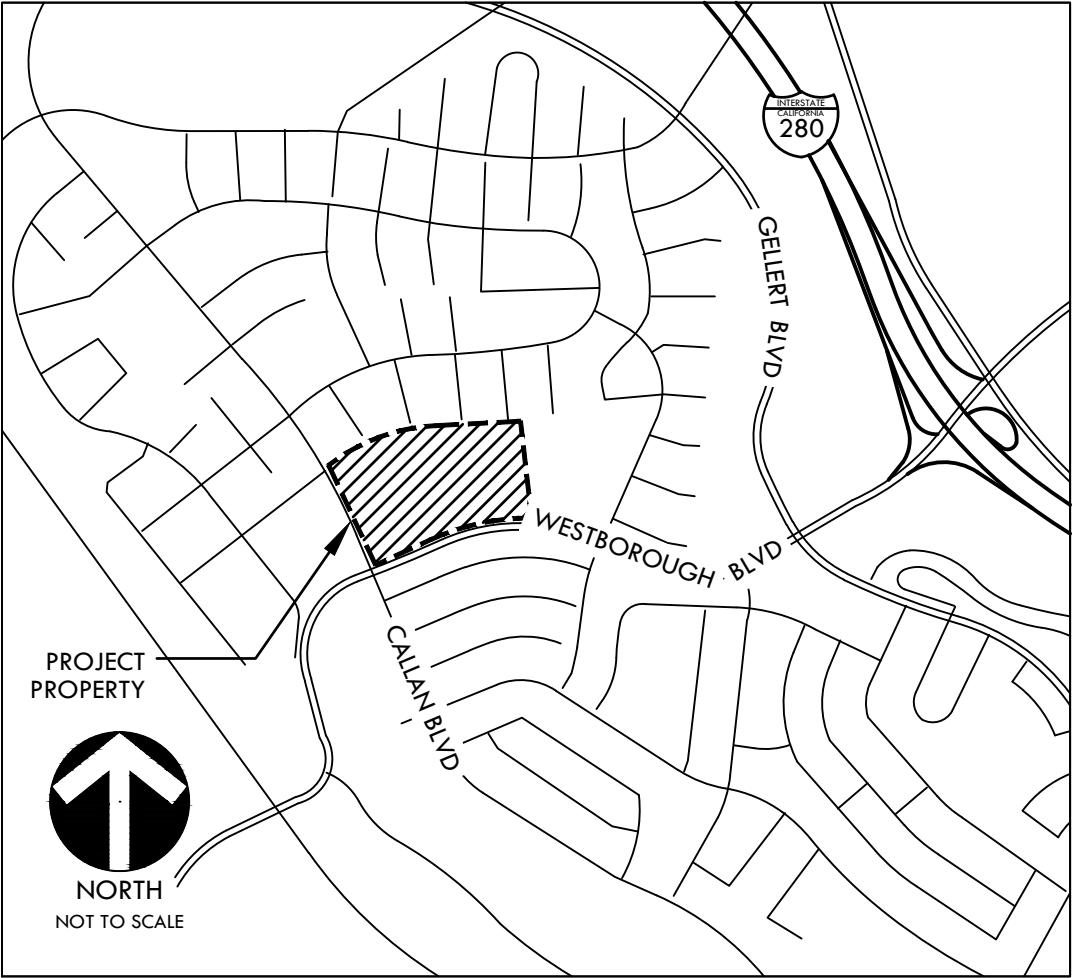
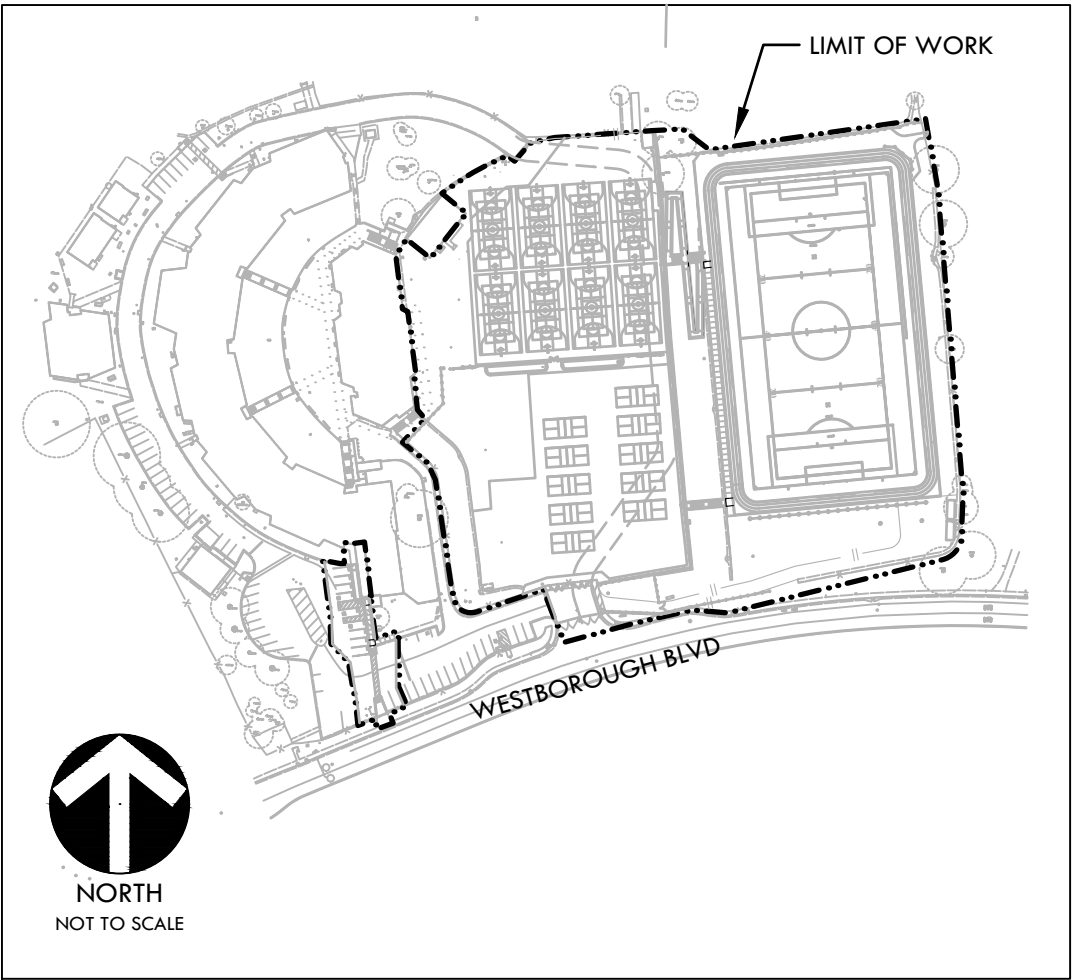




VICINITY MAP



SITE MAP

APPLICABLE CODES

1. 2022 CBC CHAPTER 35; PROVIDE ALL THE APPLICABLE/ADOPTED STANDARDS. WHERE A PARTICULAR STANDARD IS REFERENCED IN THE CODE BUT DOES NOT APPEAR AS AN ADOPTED STANDARD IT MAY STILL BE USED. APPLY ONLY THE PORTION OF THE STANDARD THAT IS APPLICABLE TO THE CODE SECTION WHERE THE STANDARD IS REFERENCED, NOT THE ENTIRE STANDARD.

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.  
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.  
(2021 INTERNATIONAL BUILDING CODE VOLUMES 1-2)  
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.  
(2020 NATIONAL ELECTRICAL CODE)  
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.  
(2021 UNIFORM MECHANICAL CODE)  
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.  
(2021 UNIFORM PLUMBING CODE)  
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.  
2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.  
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)  
2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.  
(2021 INTERNATIONAL EXISTING BUILDING CODE)  
2021 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.  
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.  
2022 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

LIST OF FEDERAL CODES AND STANDARDS (IF APPLICABLE)  
AMERICANS WITH DISABILITIES ACT (ADA), TITLE II OR TITLE III  
FOR TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) 28 CFR 35.151(C)  
OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 35)  
FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)  
2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN 28 CFR 36.406

NOTE: TITLE II APPLIES TO PROJECTS FUNDED AND/OR USED BY STATE AND LOCAL GOVERNMENT SERVICES. TITLE III COVERS PUBLIC ACCOMMODATIONS AND COMMERCIAL FACILITIES. DEPENDING ON THE USE AND FUNDING, BOTH TITLE MAY APPLY TO THE PROJECT.

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2022 EDITION  
NFPA 14 STANDPIPE SYSTEMS 2019 EDITION  
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2021 EDITION  
NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS 2021 EDITION  
NFPA 20 STATIONARY FIRE PUMPS 2019 EDITION  
NFPA 24 PRIVATE FIRE SERVICE MAINS 2019 EDITION  
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) 2022 EDITION  
(NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")  
NFPA 253 CRITICAL RADIANT FLUX OR FLOOR COVERING SYSTEMS 2023 EDITION  
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2022 EDITION  
ASME 17.1 ELEVATOR STANDARD 2019 EDITION

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2022 CALIFORNIA BUILDING CODE (FOR SFM) REFERENCED STANDARDS CHAPTER 35

ADA STANDARD FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)

2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER, OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE DSA BEFORE PROCEEDING WITH THE WORK.

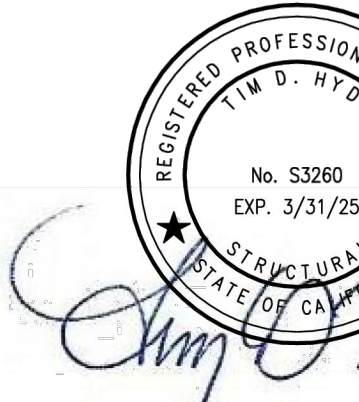
3. ALL EXISTING FIRE EXTINGUISHING SYSTEMS ARE IN COMPLIANCE WITH UL 300, CBC 904.1.1, CFC 904.1.1.

CONSTRUCTION DRAWINGS FOR

# Westborough Middle School Field and Pavement Improvements

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO, CA 94080  
VERDE DESIGN, INC. PROJECT NO. 2320400

PREPARED BY



SCOPE OF WORK

SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO, DEMOLITION OF EXISTING NATURAL GRASS & LANDSCAPE SPORTS FIELD, CONCRETE STAIRS, FENCES/GATES AND INSTALLATION OF NEW SYNTHETIC TURF PLAYING FIELD, INCLUDING PERMEABLE FIELD BASE AND NEW DRAINAGE SYSTEM, INSTALLATION OF NEW STAIRS AND RAMPS, FENCING IMPROVEMENTS, NEW BASKETBALL COURTS, ASPHALT PAVING IMPROVEMENTS AT HARD COURTS, AND ACCESSIBILITY IMPROVEMENTS TO AREAS SERVING THE LIMITS OF WORK (PARKING, RESTROOMS, DRINKING FOUNTAINS, PATHS OF TRAVEL).

GENERAL NOTES

- PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO INSPECT THE SITE. CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS, REQUIRING WORK, WHICH ARE NOT COVERED IN THE CONTRACT DOCUMENTS.
- NO CONSTRUCTION SHALL COMMENCE WITHOUT THE OFFICIAL NOTICE TO PROCEED FROM THE OWNER.
- THE GENERAL CONTRACTOR & SUBCONTRACTORS ARE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS OF NEW WORK PRIOR TO COMMENCEMENT OF EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING DRAWINGS AND THE OWNER, BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL OF THE EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL POTHOLE ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY NEW FACILITIES IN THIS CONTRACT. VERIFY ACTUAL LOCATION AND DEPTH OF UTILITIES, AND REPORT POTENTIAL CONFLICTS TO THE OWNER PRIOR TO EXCAVATING FOR NEW FACILITIES.
- CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT ALL EXISTING UTILITIES, WHETHER SHOWN OR NOT, IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO EXISTING UTILITIES CAUSED BY ITS OPERATIONS.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING ITEMS WITHIN SITE IMPROVEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ALL DAMAGED AREAS TO THEIR ORIGINAL CONDITION OR BETTER AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- DIMENSIONS AND LOCATIONS OF EXISTING FACILITIES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER.
- ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- ALL NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS AND DETAILS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
- THIS DRAWING SET SHALL BE USED IN CONJUNCTION WITH THE CSI FORMAT SPECIFICATIONS PUBLISHED IN BOOK FORM. COMBINED, THEY ARE HEREIN REFERRED TO AS THE "CONTRACT DOCUMENTS".
- DIMENSIONS ON WORKING DRAWINGS TAKE PRECEDENCE OVER MEASURED ELEMENTS. CONTRACTOR SHALL NOT SCALE DRAWINGS.
- ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
- ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
- ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE OWNER PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL COORDINATE ALL WORK TO AVOID DISTURBING STUDENTS OR TEACHERS DURING SCHOOL HOURS. ANY DISRUPTION OF THE UTILITIES MUST BE COORDINATED AND APPROVED BY THE OWNER AND INSPECTOR OF RECORD PRIOR TO COMMENCING WORK.
- ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- THE PLANS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, THE CONTRACTOR SHALL PROVIDE AN ITEM WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN PRICE.
- ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
- THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
- NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK AND IS SUBJECT TO REJECTION AND REPLACEMENT. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
- CONSTRUCTION MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED SO AS TO PREVENT DAMAGE OR DETERIORATION UNTIL USED. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK.
- ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL PERFORM THEIR CONSTRUCTION AND OPERATIONS IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CALIFORNIA STORM WATER QUALITY ASSOCIATION, NONPOINT SOURCE POLLUTION CONTROL PROGRAM, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION. THE CONTRACTOR SHALL PRESENT THEIR PROPOSED BMP AT THE PRECONSTRUCTION MEETING FOR DISCUSSION AND APPROVAL.
- CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCING PER CONTRACT DOCUMENTS TO SERVE LIMIT OF WORK AREAS. FENCING MAY BE ADJUSTED DURING CONSTRUCTION BASED ON CONSTRUCTION SEQUENCE OR THE OWNER'S DIRECTION.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.
- FIRE SAFETY DURING CONSTRUCTION & DEMOLITION WILL BE ENFORCED IN ACCORDANCE WITH CBC & CFC CHAPTER 33
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECION 4-338, PART 1, TITLE 24, CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A MINIMUM CLASS 3 INSPECTOR IS REQUIRED
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- SUBSTITUTIONS AFFECTING ITEMS REGULATED BY THE DIVISION OF THE STATE ARCHITECT (DSA) REQUIRE DSA APPROVAL AS AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD). DSA APPROVAL SHALL BE OBTAINED PRIOR TO FABRICATION AND/OR INSTALLATION PER SECTION 4-338, PART 1, TITLE 24, CCR.
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA.

CONTACT INFORMATION

| ORGANIZATION                                             | NAME                         | PHONE                            |
|----------------------------------------------------------|------------------------------|----------------------------------|
| OWNER<br>SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT     | LORI SHELTON                 | (650) 246-5977                   |
| CONSTRUCTION MANAGER<br>KITCHELL CM                      | ROBERT BEGONIA               | (415) 385-5491                   |
| CIVIL ENGINEER/ LANDSCAPE ARCHITECT<br>VERDE DESIGN INC. | DEVIN CONWAY<br>JAMIE WALLIS | (408) 850-3420<br>(408) 850-3425 |
| STRUCTURAL ENGINEER<br>AKH STRUCTURAL ENGINEERS          | TIM D HYDE                   | (408) 978-1970                   |
| ELECTRICAL ENGINEER<br>FBA ENGINEERING                   | STEPHEN ZAJICEK              | (949) 852-9995                   |
| GEOTECHNICAL ENGINEER<br>ATLAS TECHNICAL CONSULTANTS     | HISHAM NOFAL                 | (925) 314-7100                   |

SHEET INDEX (48 Sheets)

| SHEET NO.                | SHEET DESCRIPTION                             |                   |                                                   |
|--------------------------|-----------------------------------------------|-------------------|---------------------------------------------------|
| <b>CIVIL / LANDSCAPE</b> |                                               | <b>STRUCTURAL</b> |                                                   |
| C0.0                     | COVER SHEET                                   | S1.1              | STRUCTURAL GENERAL NOTES                          |
|                          |                                               | S1.2              | TYPICAL & SITE STRUCTURAL DETAILS                 |
|                          |                                               | S1.3              | RAMPS & STAIRS RETAINING WALLS STRUCTURAL DETAILS |
| L0.1                     | ACCESSIBILITY PLAN                            |                   |                                                   |
| L0.2                     | ACCESSIBILITY PLAN - ADA PARKING IMPROVEMENTS |                   |                                                   |
| L0.3                     | ACCESSIBILITY IMPROVEMENT DETAILS             |                   |                                                   |
| L0.4                     | ACCESSIBILITY IMPROVEMENT DETAILS             |                   |                                                   |
| L0.5                     | FIRE ACCESS PLAN                              | E0.1              | GENERAL NOTES, SYMBOLS LIST AND FIXTURE SCHEDULE  |
| L1.0                     | EXISTING CONDITIONS SURVEY PLAN               | E0.2              | LIGHT FIXTURE SCHEDULE                            |
| L1.1                     | EXISTING CONDITIONS SURVEY PLAN               | E1.0              | SITE ELECTRICAL PLAN                              |
| L1.2                     | EXISTING CONDITIONS SURVEY PLAN               | E1.1              | SITE ELECTRICAL PLAN                              |
| L2.0                     | EROSION CONTROL PLAN                          | E1.2              | SITE ELECTRICAL PLAN                              |
| L3.0                     | DEMOLITION PLAN                               | E2.0              | ELECTRICAL SPECIFICATIONS                         |
| L3.1                     | DEMOLITION PLAN                               | E2.1              | ELECTRICAL SPECIFICATIONS                         |
| L3.2                     | DEMOLITION PLAN                               |                   |                                                   |
| L4.0                     | GRADING PLAN                                  |                   |                                                   |
| L4.1                     | GRADING PLAN                                  |                   |                                                   |
| L4.2                     | GRADING ENLARGEMENTS AND SECTIONS             |                   |                                                   |
| L5.0                     | DRAINAGE AND UTILITY PLAN                     |                   |                                                   |
| L5.1                     | DRAINAGE AND UTILITY PLAN                     |                   |                                                   |
| L6.0                     | LAYOUT PLAN                                   |                   |                                                   |
| L6.1                     | LAYOUT PLAN                                   |                   |                                                   |
| L6.2                     | LAYOUT PLAN                                   |                   |                                                   |
| L7.0                     | MATERIAL AND DETAIL REFERENCE PLAN            |                   |                                                   |
| L7.1                     | MATERIAL AND DETAIL REFERENCE PLAN            |                   |                                                   |
| L8.0                     | IRRIGATION PLAN                               |                   |                                                   |
| L8.1                     | IRRIGATION PLAN                               |                   |                                                   |
| L9.0                     | PLANTING PLAN                                 |                   |                                                   |
| L9.1                     | PLANTING PLAN                                 |                   |                                                   |
| D1.0                     | CONSTRUCTION DETAILS                          |                   |                                                   |
| D2.0                     | CONSTRUCTION DETAILS                          |                   |                                                   |
| D2.1                     | CONSTRUCTION DETAILS                          |                   |                                                   |
| D3.0                     | CONSTRUCTION DETAILS                          |                   |                                                   |
| D3.1                     | CONSTRUCTION DETAILS                          |                   |                                                   |
| D4.0                     | CONSTRUCTION DETAILS                          |                   |                                                   |
| D4.1                     | CONSTRUCTION DETAILS                          |                   |                                                   |
| D5.0                     | PLANTING & IRRIGATION DETAILS                 |                   |                                                   |
| D5.1                     | PLANTING & IRRIGATION DETAILS                 |                   |                                                   |
| D6.0                     | SECTIONS                                      |                   |                                                   |
| D6.1                     | SECTIONS                                      |                   |                                                   |

STATEMENT OF GENERAL CONFORMANCE

- ☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET BY \*  
☐ THIS DRAWING, PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED  
AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

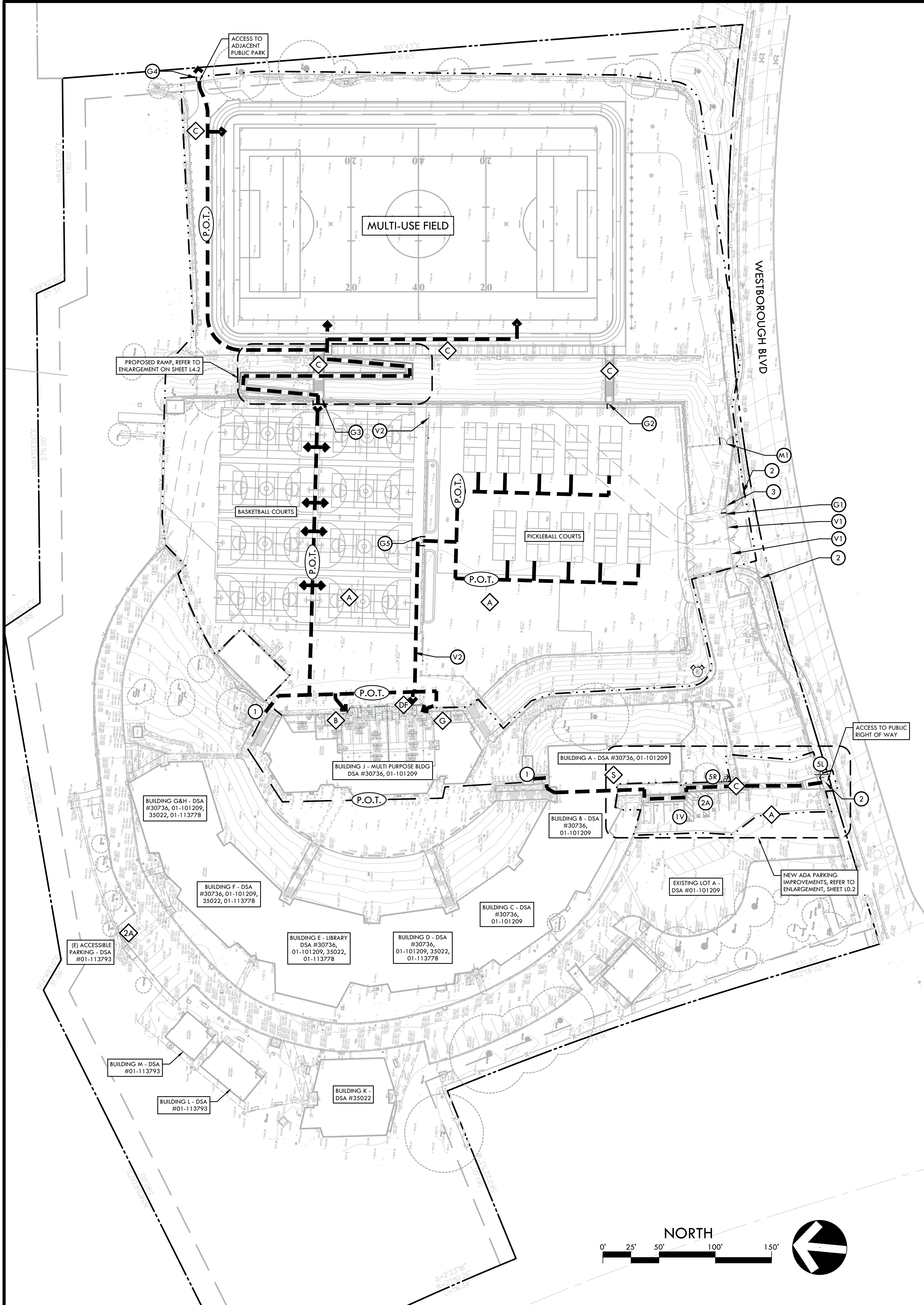
- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
- COORDINATION WITH ANY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 [B])

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE  
  
Tim D. Hyde, S.E.  
PRINT NAME  
S3260 03-31-2025  
LICENSE NUMBER EXPIRATION DATE



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

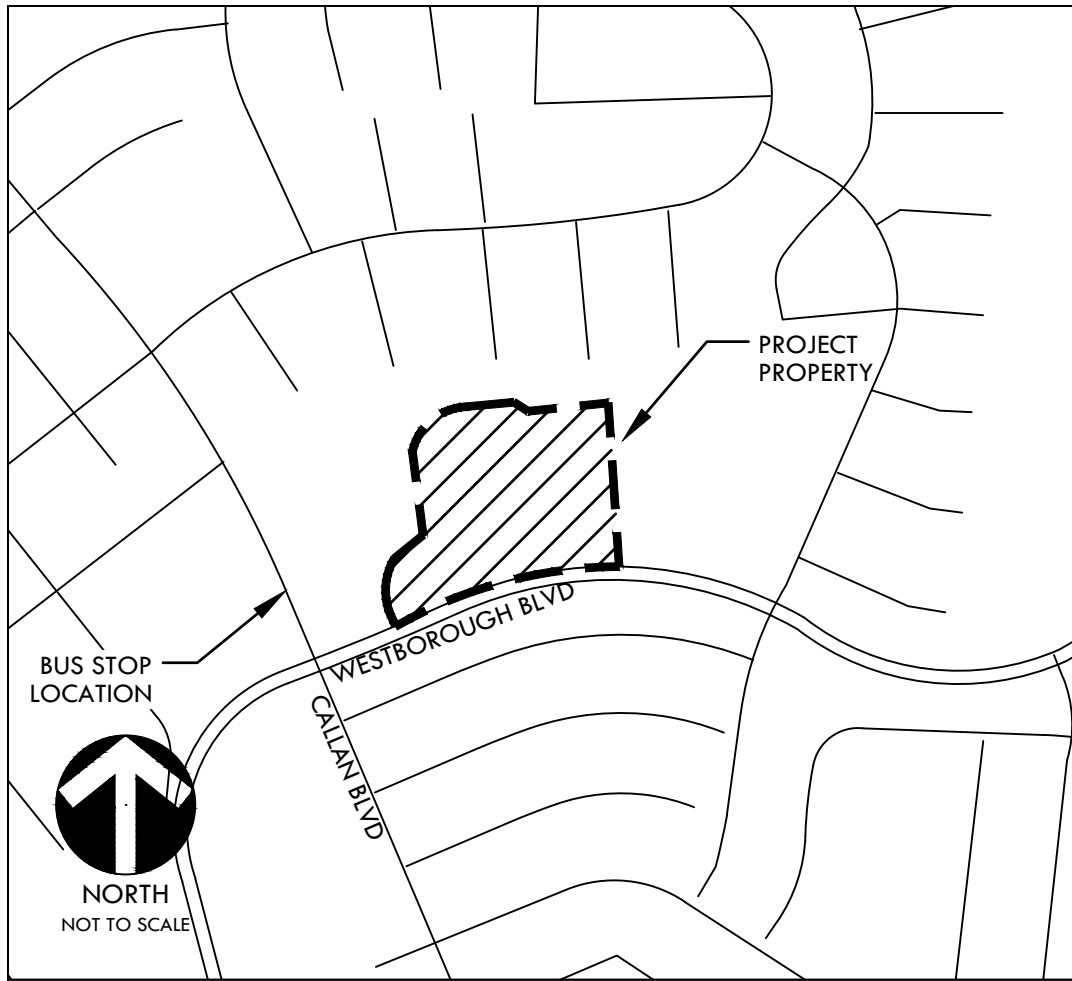


## ACCESSIBLE PARKING

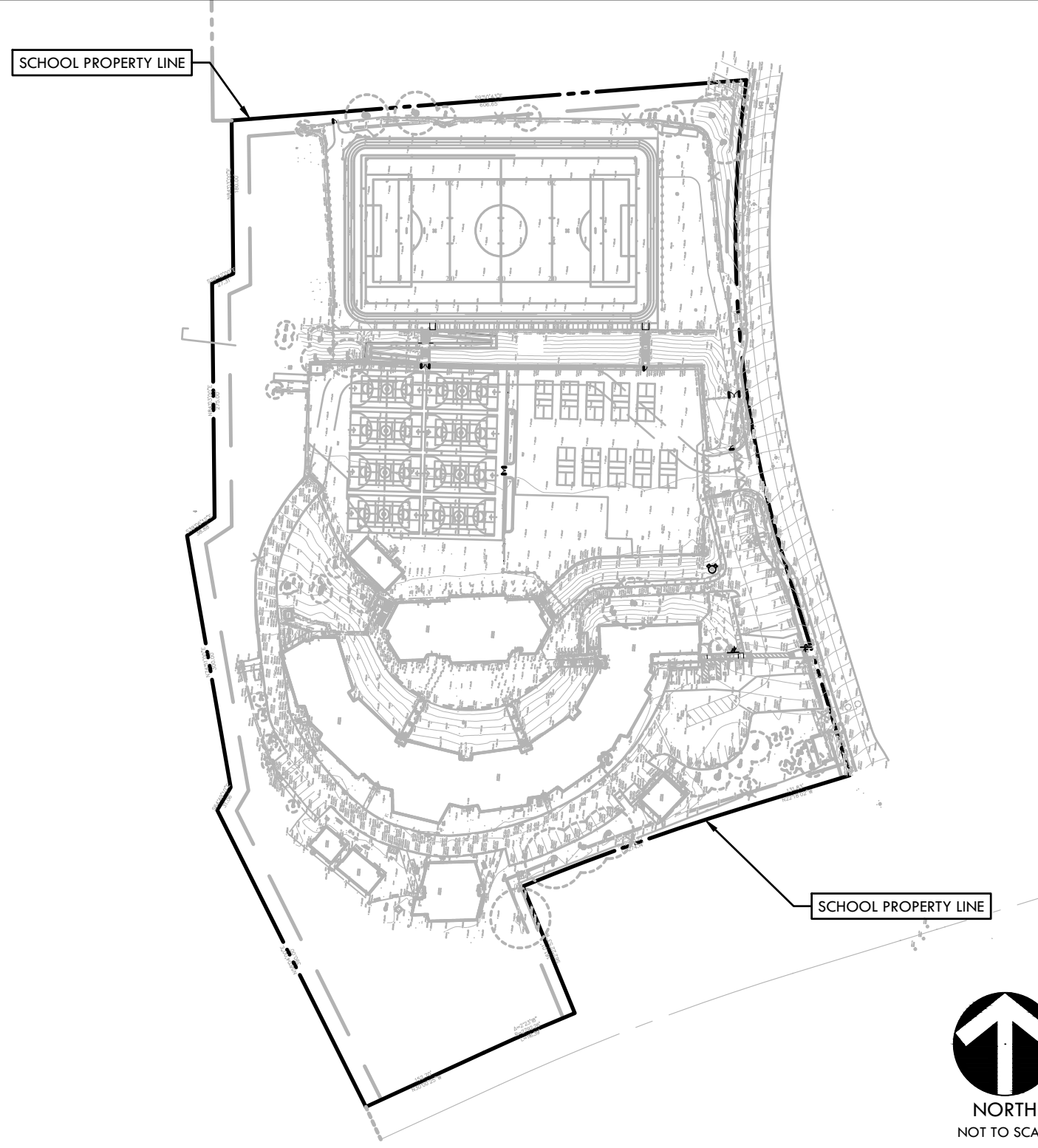
|                                                         | TOTAL STALLS                                          | REQUIRED ACCESSIBLE STALLS* | ACCESSIBLE STALLS PROVIDED                            |
|---------------------------------------------------------|-------------------------------------------------------|-----------------------------|-------------------------------------------------------|
| LOT A                                                   | 73                                                    | 2A/1V                       | 3A/1V                                                 |
| *NUMBER OF REQUIRED ACCESSIBLE STALLS PER CBC 11B-208.2 |                                                       |                             |                                                       |
| #A                                                      | NUMBER OF PROPOSED STANDARD ACCESSIBLE PARKING STALLS | #A                          | NUMBER OF EXISTING STANDARD ACCESSIBLE PARKING STALLS |
| #V                                                      | NUMBER OF PROPOSED VAN ACCESSIBLE PARKING STALLS      | #V                          | NUMBER OF EXISTING VAN ACCESSIBLE PARKING STALLS      |

## ACCESSIBLE DROP OFF / BUS STOP

THERE IS NO STUDENT DROP-OFF AREA ON CAMPUS. PARENT / STUDENT UTILIZE PUBLIC STREETS / NEIGHBORHOODS. THERE IS A PUBLIC BUS STOP LOCATED OFF SITE AND IS 500' NORTH OF ACCESSIBLE PATH OF TRAVEL ENTRANCE ALONG WESTBOROUGH BOULEVARD. LOCATION OF BUS STOP IS ALONG CALLAN BOULEVARD AT 3540 CALLAN BLVD, SOUTH SAN FRANCISCO, CA 94080



## PROPERTY LINE KEY MAP



## ACCESSIBILITY PLAN NOTES

- ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/2" MAX. AND A LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
- ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 80". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
- ACCESSIBLE PARKING SIGNAGE REQUIREMENTS: THE AMENDED REGULATIONS INDICATE THAT THE SIGNAGE AT ACCESSIBLE PARKING SPACES SHALL INCLUDE "MINIMUM FINE \$250" BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS EITHER AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE. THIS FINE POSTING REQUIREMENT IS IN ADDITION TO OTHER SIGNAGE REGULATIONS CONTAINED IN THE CALIFORNIA BUILDING CODE FOR ACCESSIBLE PARKING SPACES.
- STRIPING REQUIREMENTS: THE REVISED REGULATIONS INDICATE THAT THE ACCESSIBLE PARKING SPACE STRIPING SHALL BE AS FOLLOWS: THE BORDER (PERIMETER) SHALL BE PAINTED BLUE. THE HATCHING WITHIN THE LOADING AND UNLOADING ACCESS AISLE SHALL BE PAINTED A SUITABLE CONTRASTING COLOR TO THE PARKING SPACE AT 3'-0" MAXIMUM ON CENTER. BLUE OR WHITE PAINT IS PREFERRED.
- DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS; WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATION INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
- DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

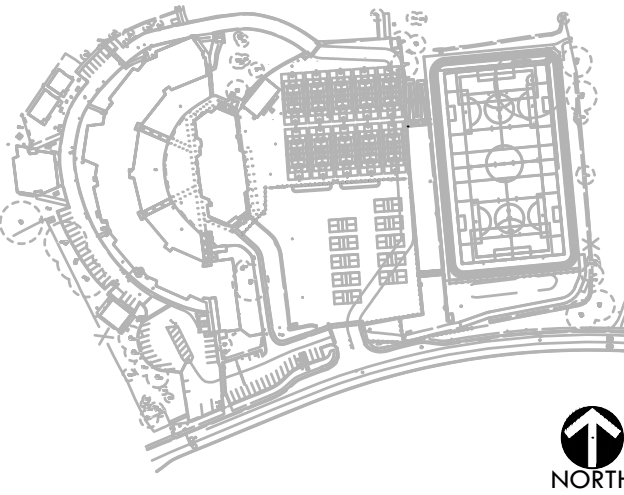
## ACCESSIBILITY LEGEND

| SYM   | DESCRIPTION                                                                                                                           |        |
|-------|---------------------------------------------------------------------------------------------------------------------------------------|--------|
| ---   | PROJECT LIMIT OF WORK                                                                                                                 |        |
| ---   | PROJECT PROPERTY LINE                                                                                                                 |        |
| ---   | EXISTING ADA ACCESSIBLE PATH OF TRAVEL<br>(4 FT. MIN. WIDTH @ 5-5% MAX. IN DIRECTION OF TRAVEL AND 2% MAX CROSS SLOPE)                |        |
| ---   | ADA ACCESSIBLE PATH OF TRAVEL<br>(4 FT. MIN. WIDTH @ 5-5% MAX. IN DIRECTION OF TRAVEL AND 2% MAX CROSS SLOPE)                         |        |
| ➔     | ADA ACCESSIBLE POINT OF ENTRY                                                                                                         |        |
| ①     | EXISTING ELEVATOR - DSA APPL # 01-101209                                                                                              |        |
| ②     | EXISTING PUBLIC SIDEWALK                                                                                                              |        |
| ③     | EXISTING TOW AWAY SIGN - DSA APPL # 01-101209                                                                                         |        |
| ④     | NOT USED                                                                                                                              |        |
| SL SR | ACCESSIBLE PATH SIGN - DIRECTIONAL ARROW FACING LEFT (SL) OR RIGHT (SR)                                                               | F 10.4 |
| DF    | EXISTING ACCESSIBLE DRINKING FOUNTAIN TO BE IMPROVED AS PART OF THIS PROJECT                                                          | A 10.4 |
| B     | EXISTING STUDENT (BOY'S) ACCESSIBLE RESTROOM (TO BE IMPROVED AS PART OF THIS PROJECT, REFER TO DETAIL I, SHEET L03) - APPL# PER PLAN  | I 10.3 |
| G     | EXISTING STUDENT (GIRL'S) ACCESSIBLE RESTROOM (TO BE IMPROVED AS PART OF THIS PROJECT, REFER TO DETAIL J, SHEET L03) - APPL# PER PLAN | J 10.3 |
| A     | ASPHALT PAVING                                                                                                                        |        |
| C     | CONCRETE PAVING                                                                                                                       |        |
| S     | EXISTING UNISEX STAFF RESTROOM (TO BE IMPROVED AS PART OF THIS PROJECT, REFER TO DETAIL K, SHEET L03) - DSA #01-101209                | K 10.3 |
| G1    | PROPOSED MAINTENANCE GATE - 42" TALL X 4' WIDE CHAIN LINK SWING GATE                                                                  | J D3.0 |
| G2    | PROPOSED ACCESSIBLE PEDESTRIAN GATE - 8' TALL X 4' WIDE CHAIN LINK SWING GATE                                                         | F D3.0 |
| G3    | PROPOSED ACCESSIBLE PEDESTRIAN GATE - DOUBLE SWING GATE - (2) 8' TALL X 4' WIDE CHAIN LINK GATES                                      | K D3.0 |
| G4    | PROPOSED ACCESSIBLE PEDESTRIAN GATE W/ PANIC HARDWARE - 8' TALL X 4' WIDE CHAIN LINK GATE                                             | G D3.0 |
| G5    | PROPOSED ACCESSIBLE PEDESTRIAN GATE - DOUBLE SWING GATE - (2) 42" TALL X 4' WIDE CHAIN LINK SWING GATES                               | K D3.0 |
| M1    | PROPOSED MAINTENANCE GATE - 6' TALL X 12' WIDE DOUBLE SWING GATE                                                                      | I D3.0 |
| V1    | EXISTING GATE - (E) VEHICULAR / MAINTENANCE GATE                                                                                      |        |
| V2    | PROPOSED VEHICULAR / MAINTENANCE GATE - 42" TALL X 20' WIDE CHAIN LINK SLIDING GATE                                                   | L D3.0 |
| I     | TRUNCATED DOMES                                                                                                                       | N D3.0 |

**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN  
2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesign.com



KEY MAP



SHEET TITLE

ACCESSIBILITY  
PLAN

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

SUBMITTAL

DATE

DSA SUBMITTAL

12/10/24

NO. REVISIONS

DATE

DRAWN BY

RC / KL

CHECKED BY

JWV

DATE ISSUED

12/10/2024

SCALE

1"=50'-0"

VDI PROJ. NO.

2320400

SSFUSD PROJ. NO.

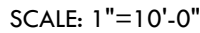
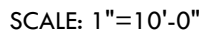
025-960

SHEET NO.

L0.1

ACCESSIBILITY PLAN





NOTE: FOR LAYOUT, REFER TO SHEET L6.2



**VERDE DESIGN**

---

**LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN**

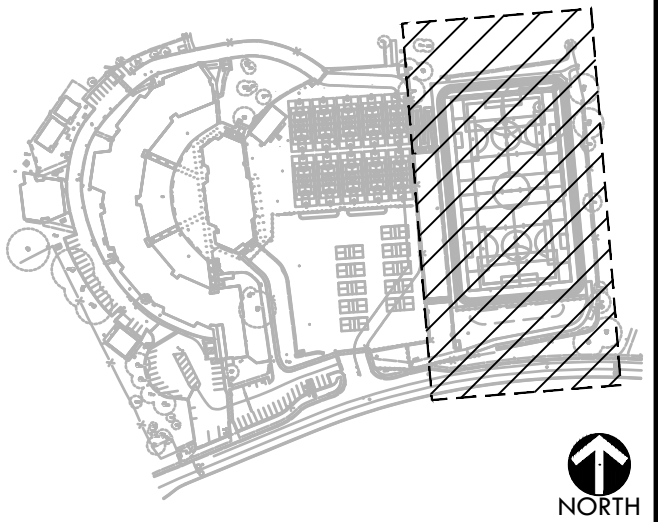
---

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
[www.VerdeDesignInc.com](http://www.VerdeDesignInc.com)

STAMP



## KEY MAP



SHEET TITLE

## ACCESSIBILITY PLAN - ADA PARKING IMPROVEMENTS

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

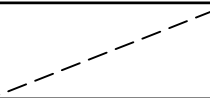
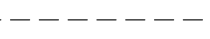
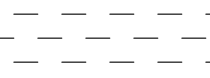
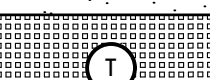
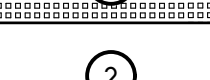
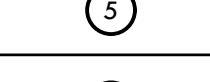
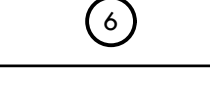
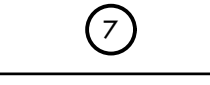
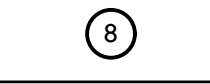
|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

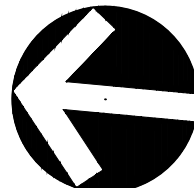
[illegible]

|                           |                             |
|---------------------------|-----------------------------|
| DRAWN BY<br>RC / KL       | CHECKED BY<br>JW            |
| DATE ISSUED<br>12/10/2024 | SCALE<br>1"=10'-0"          |
| VDI PROJ. NO.<br>2320400  | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.                 |                             |

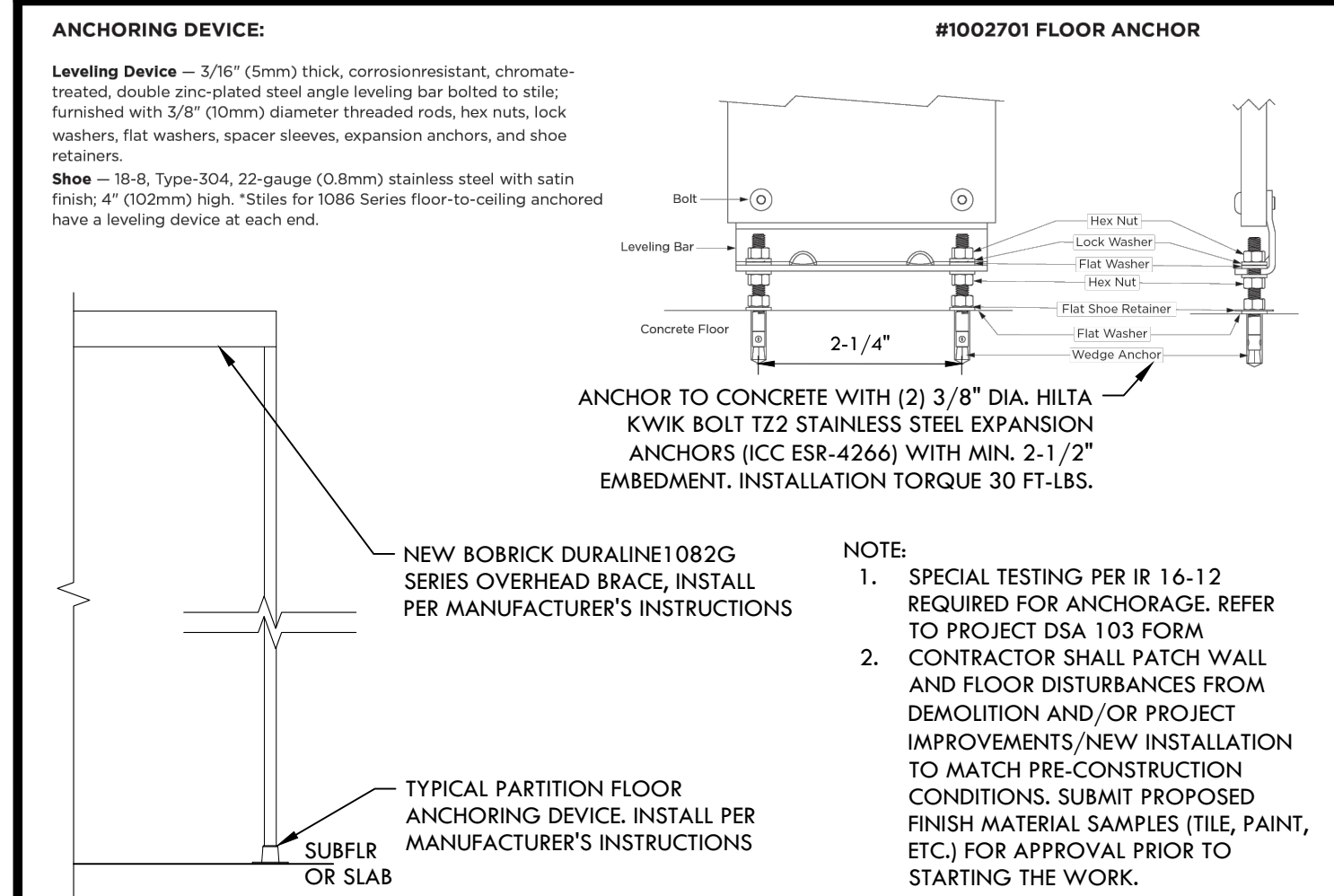
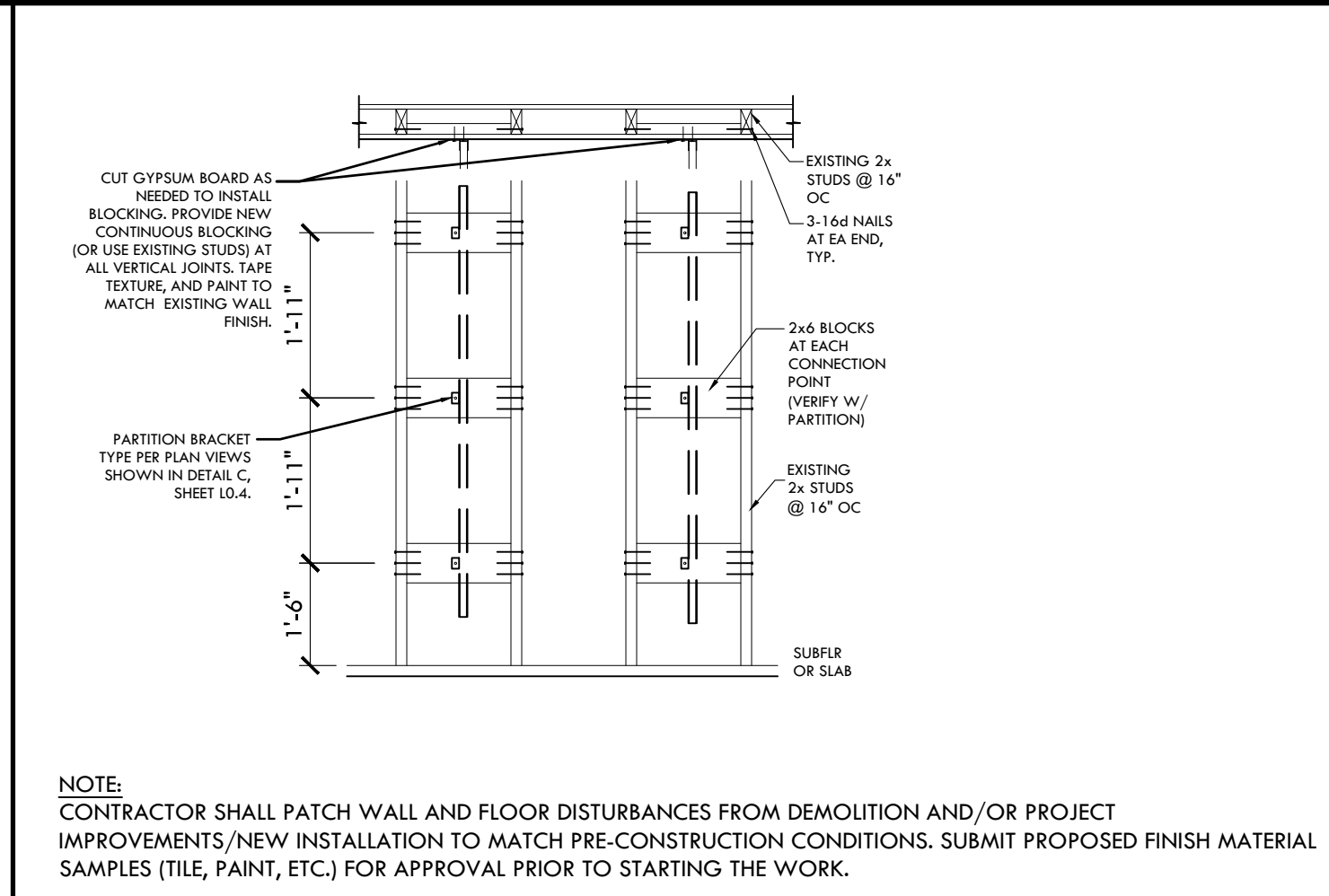
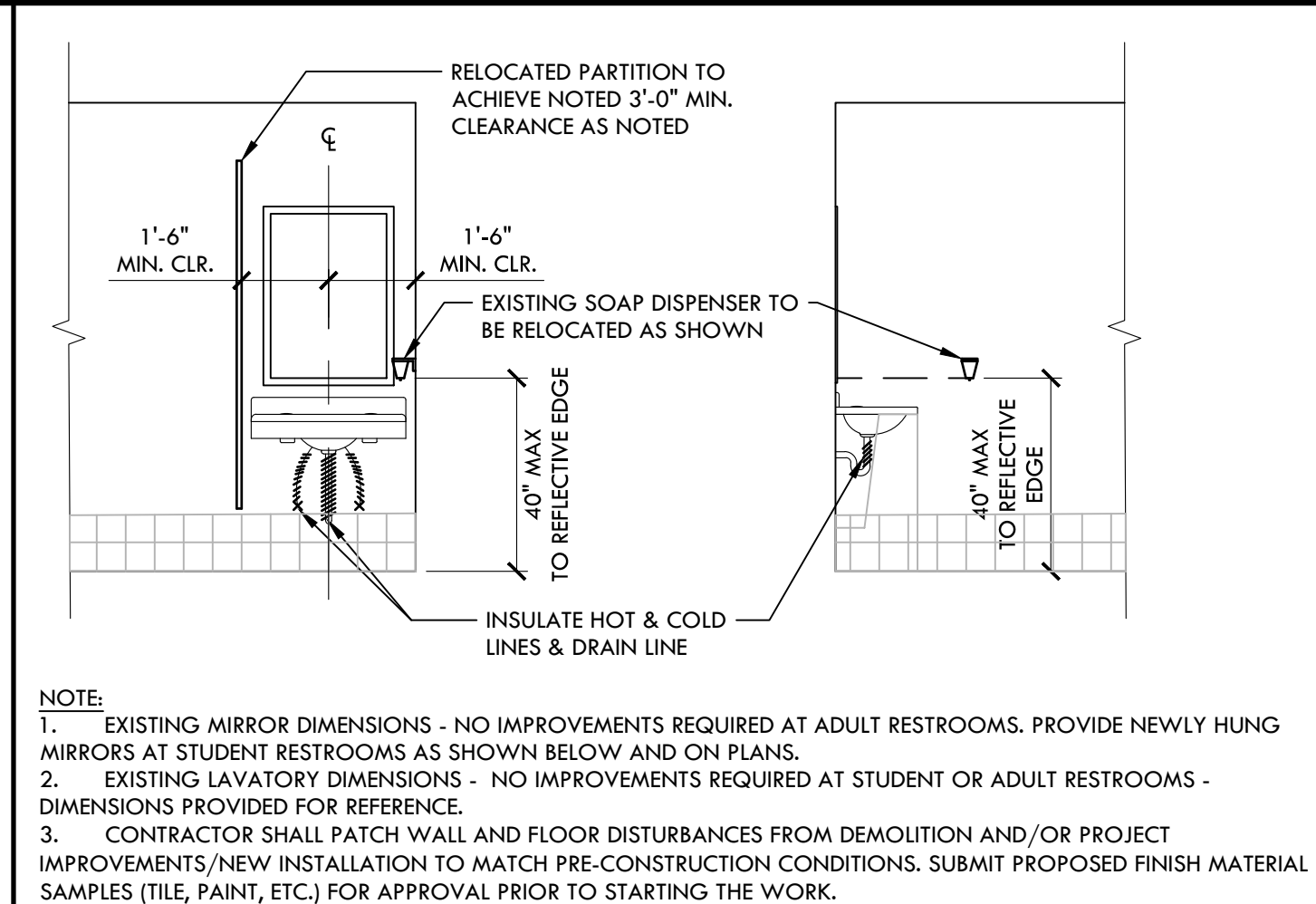
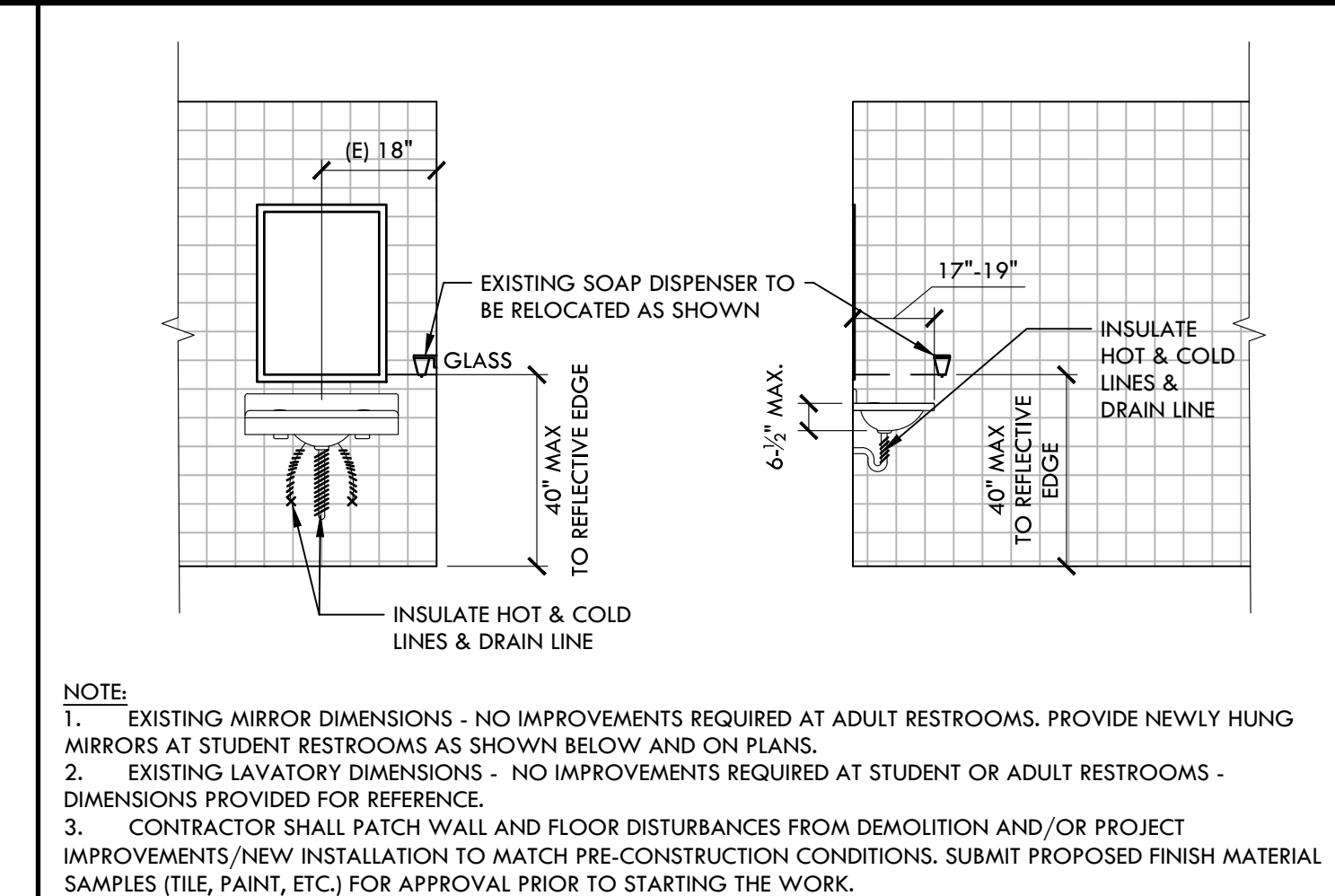
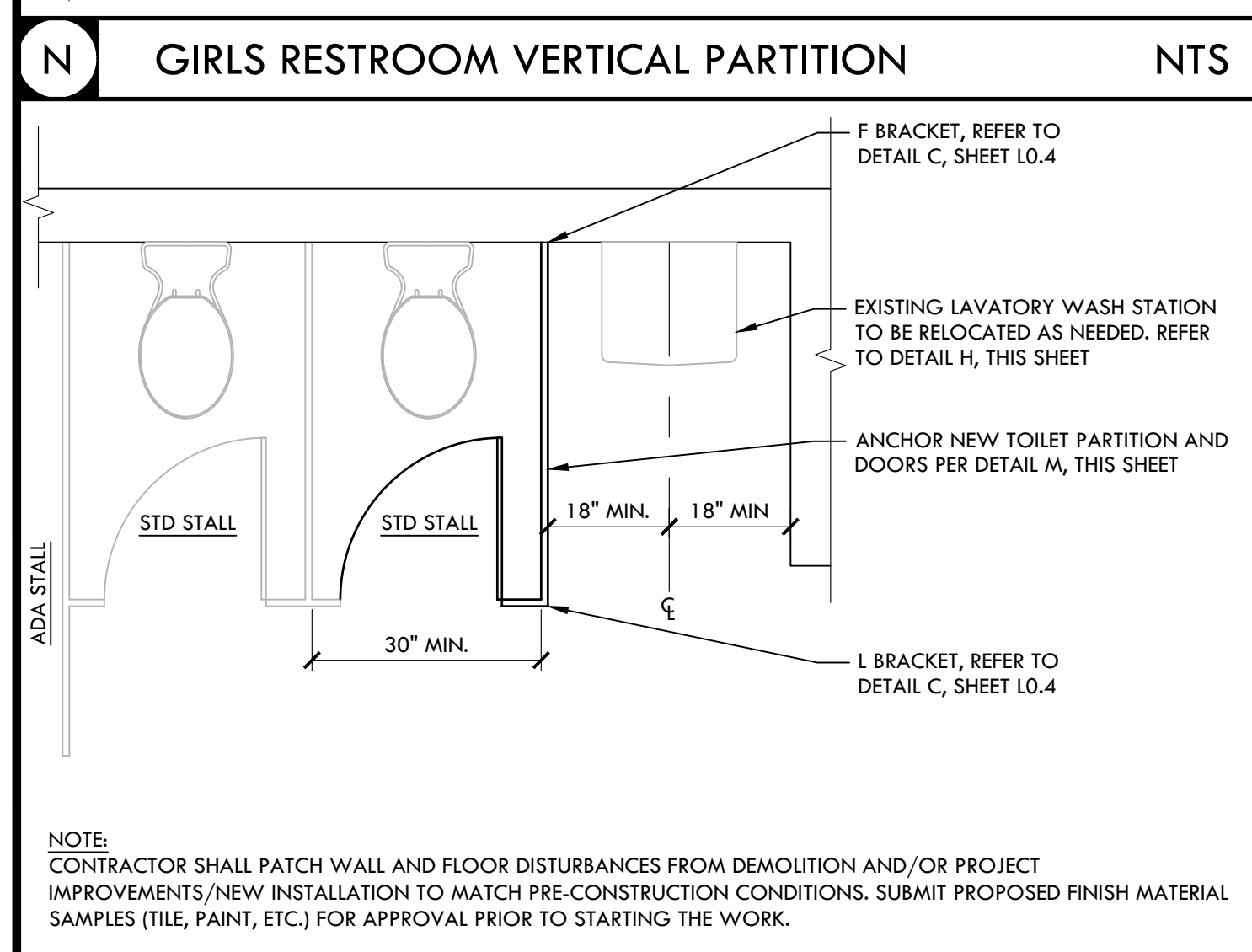
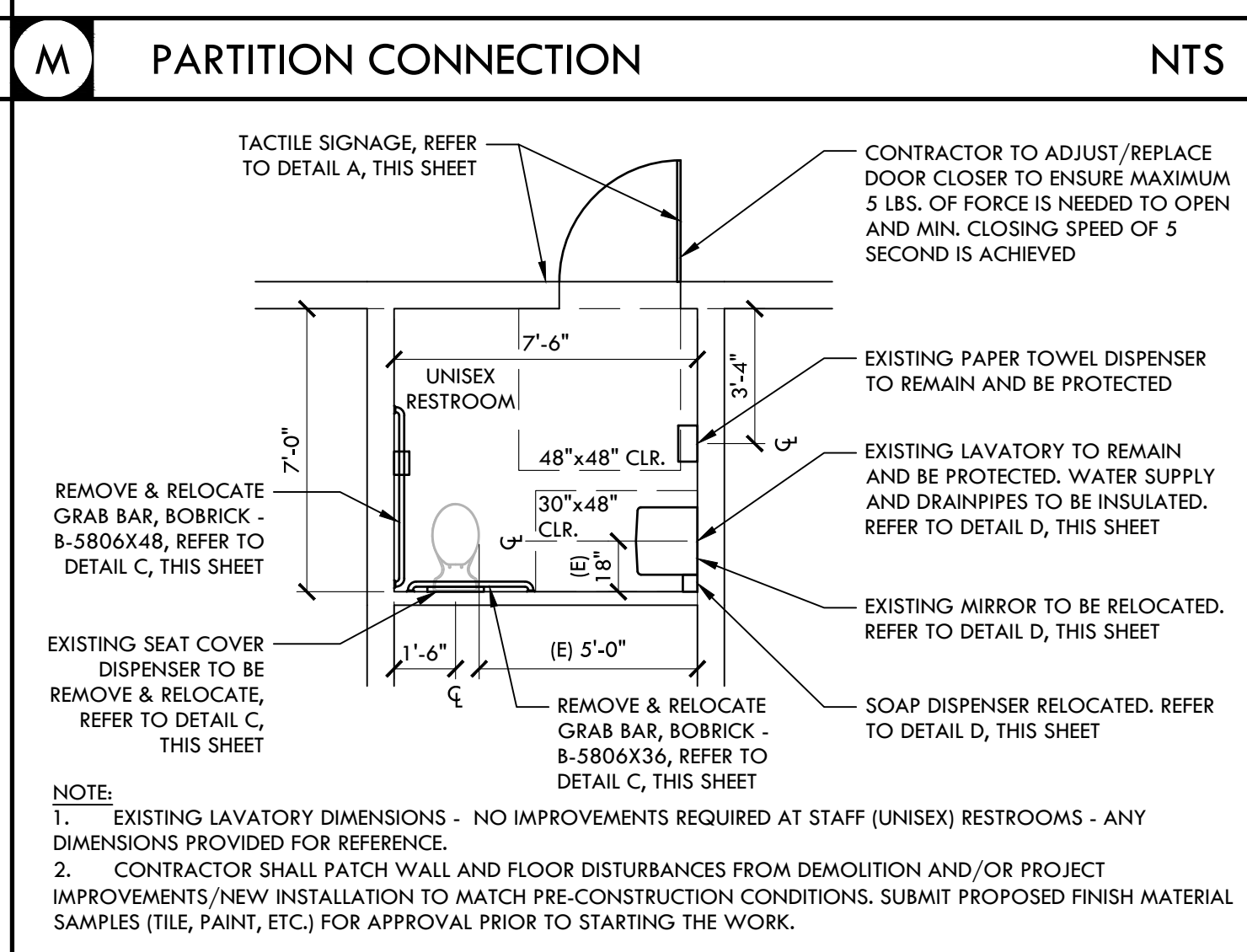
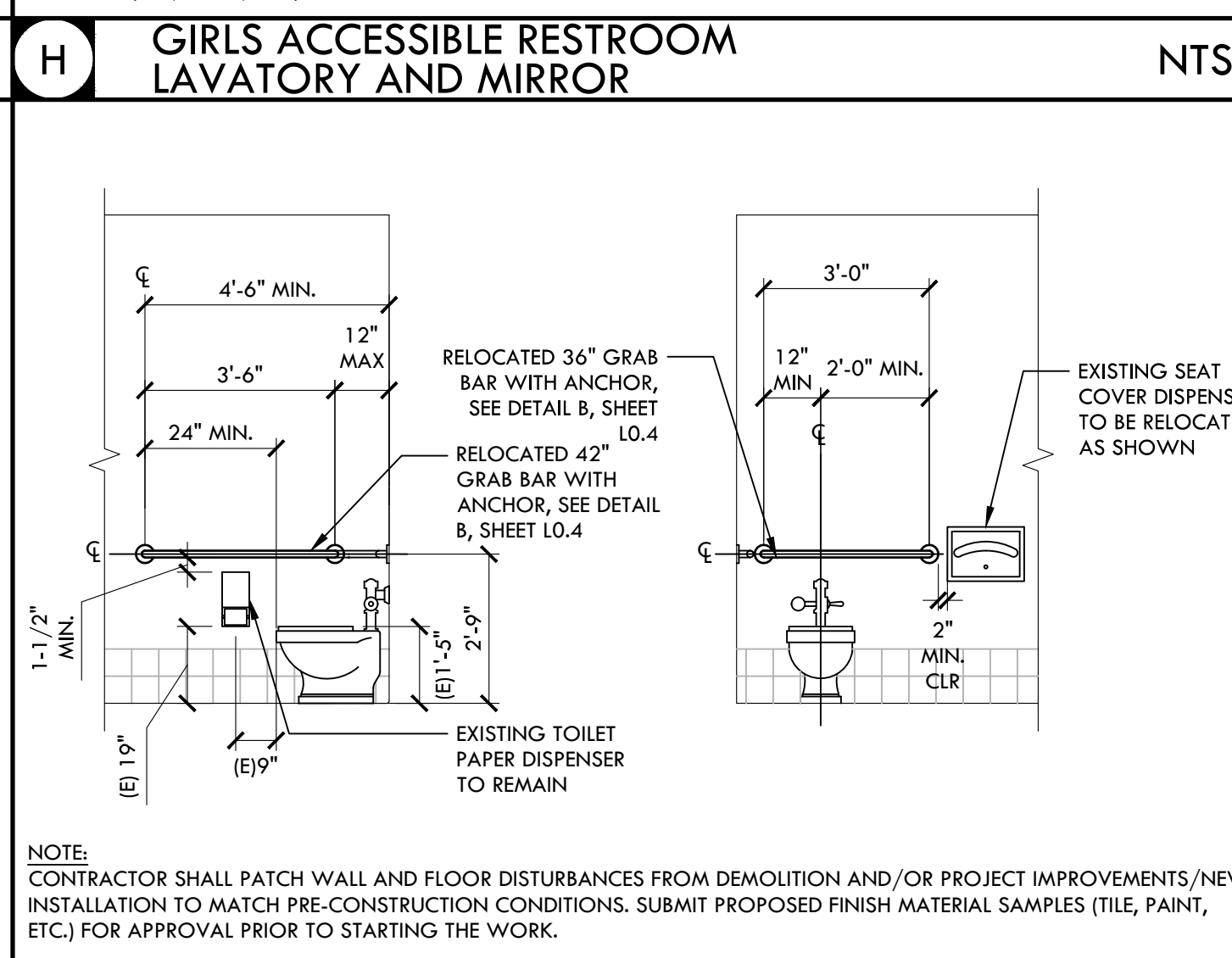
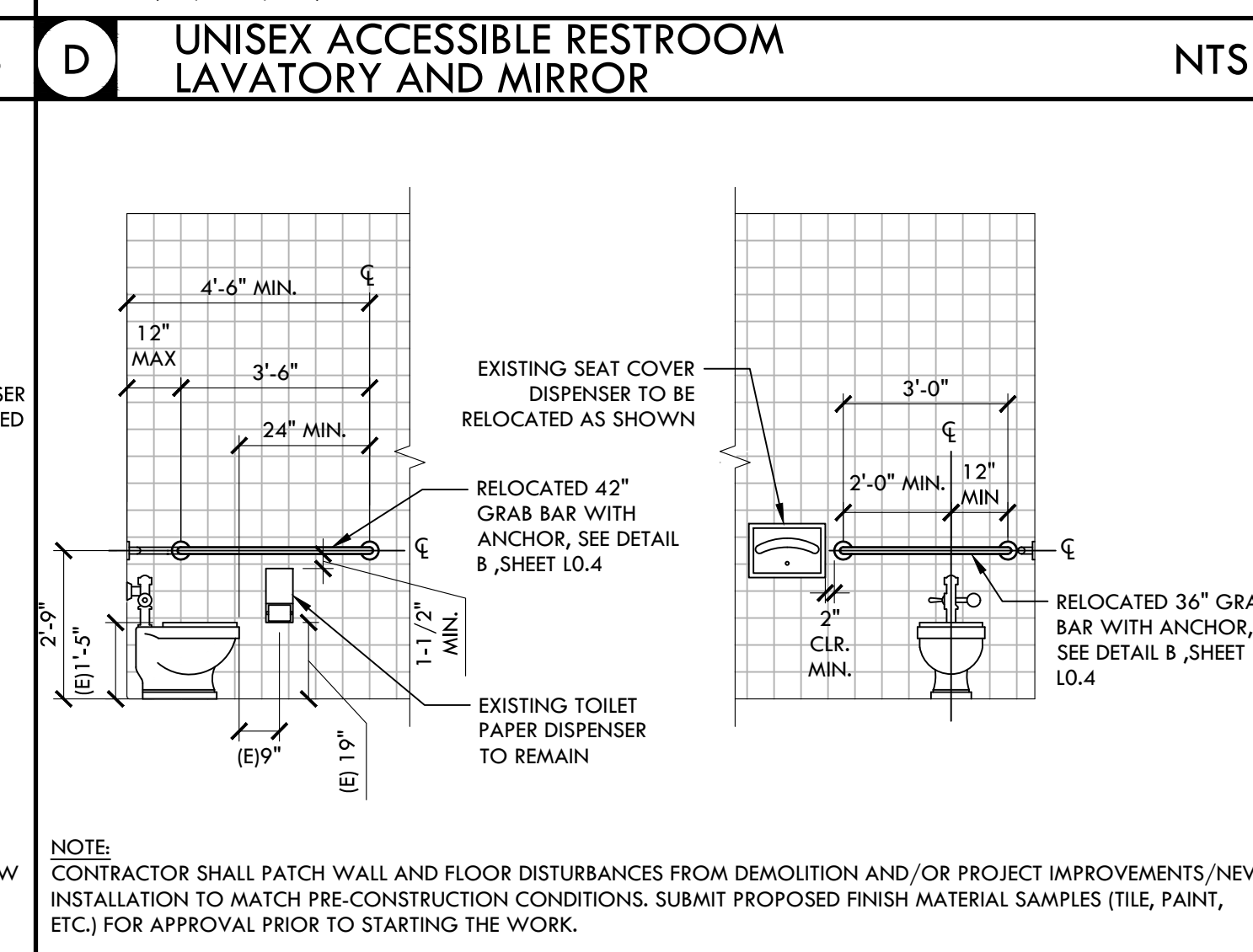
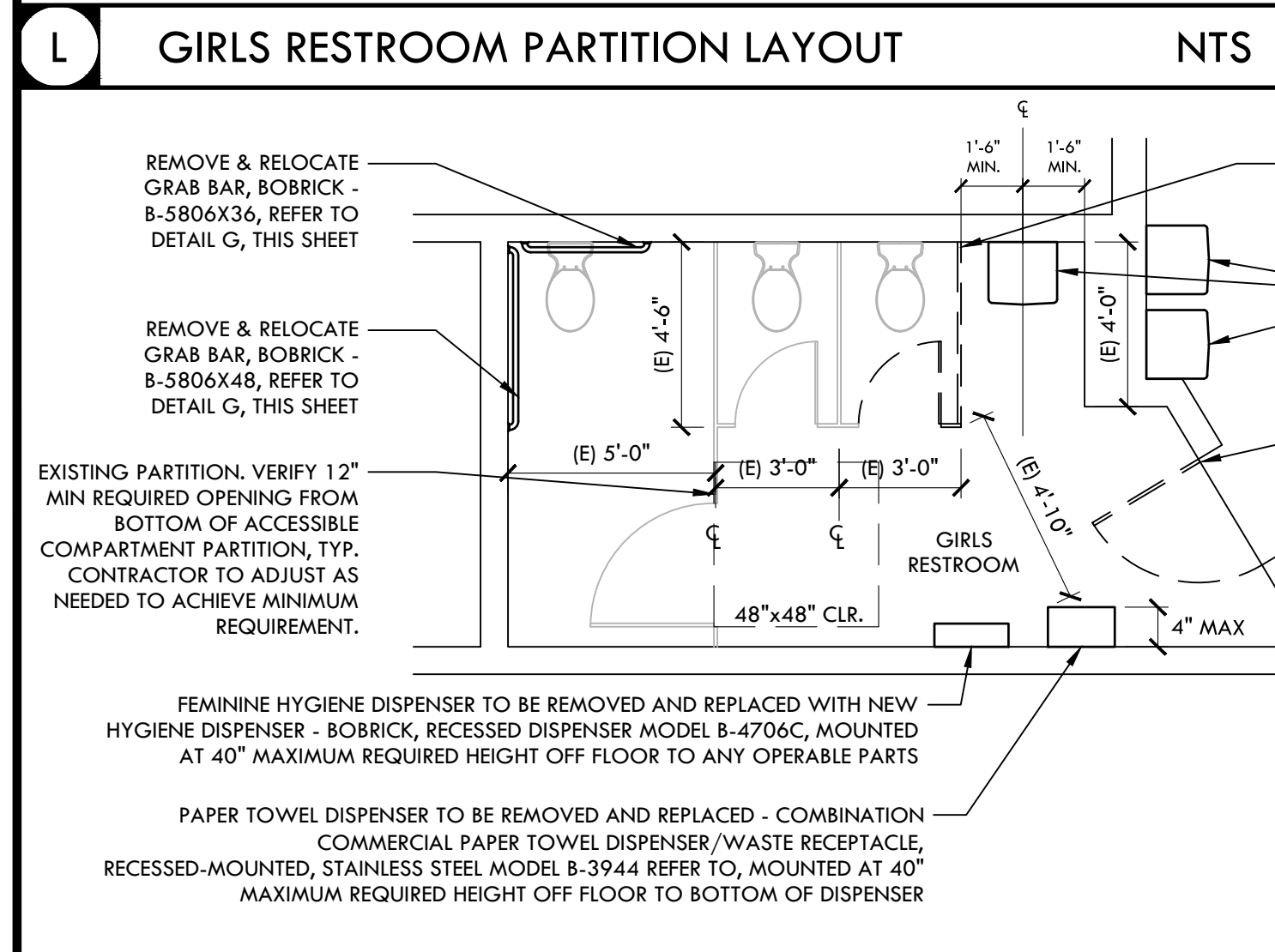
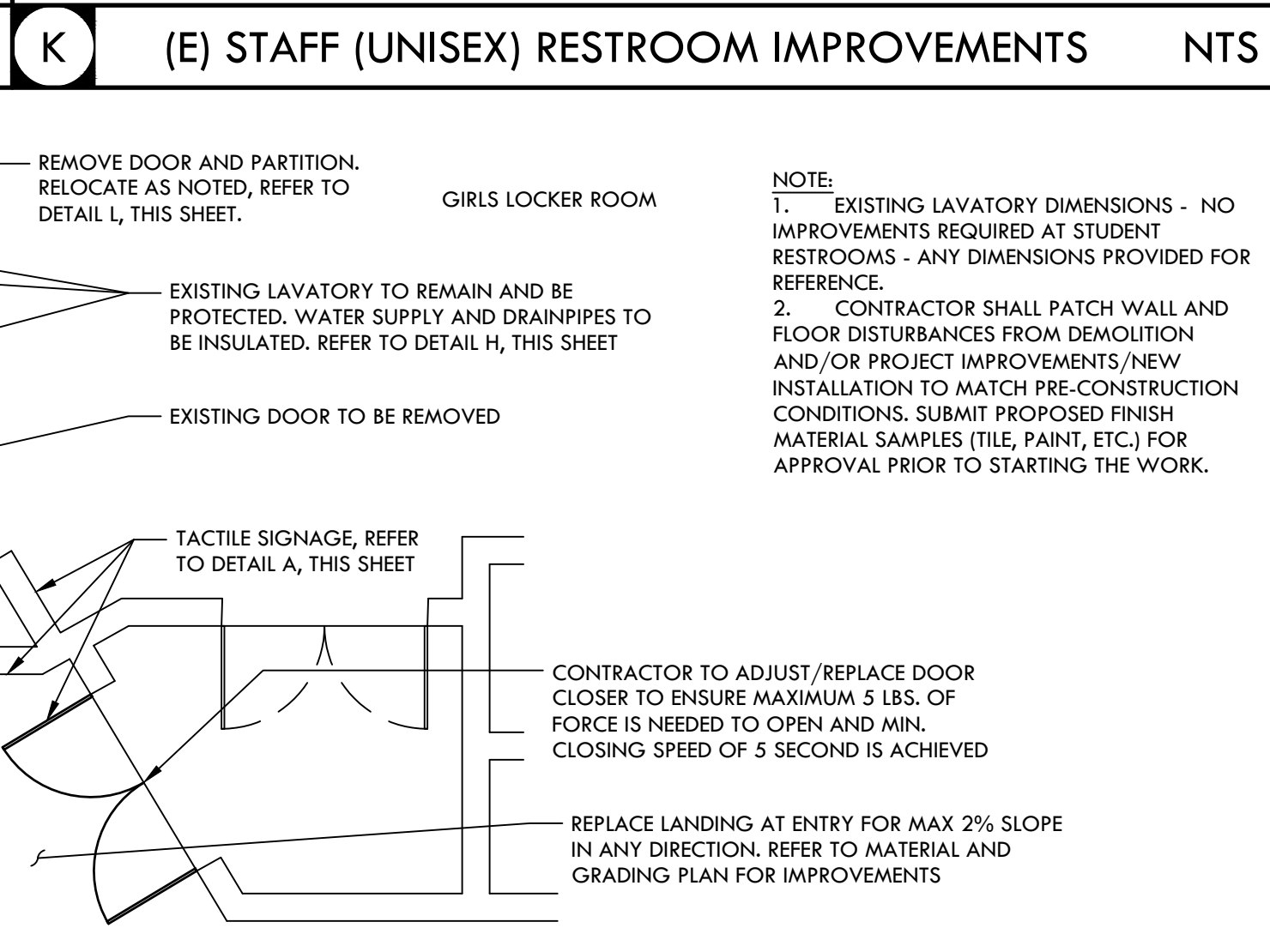
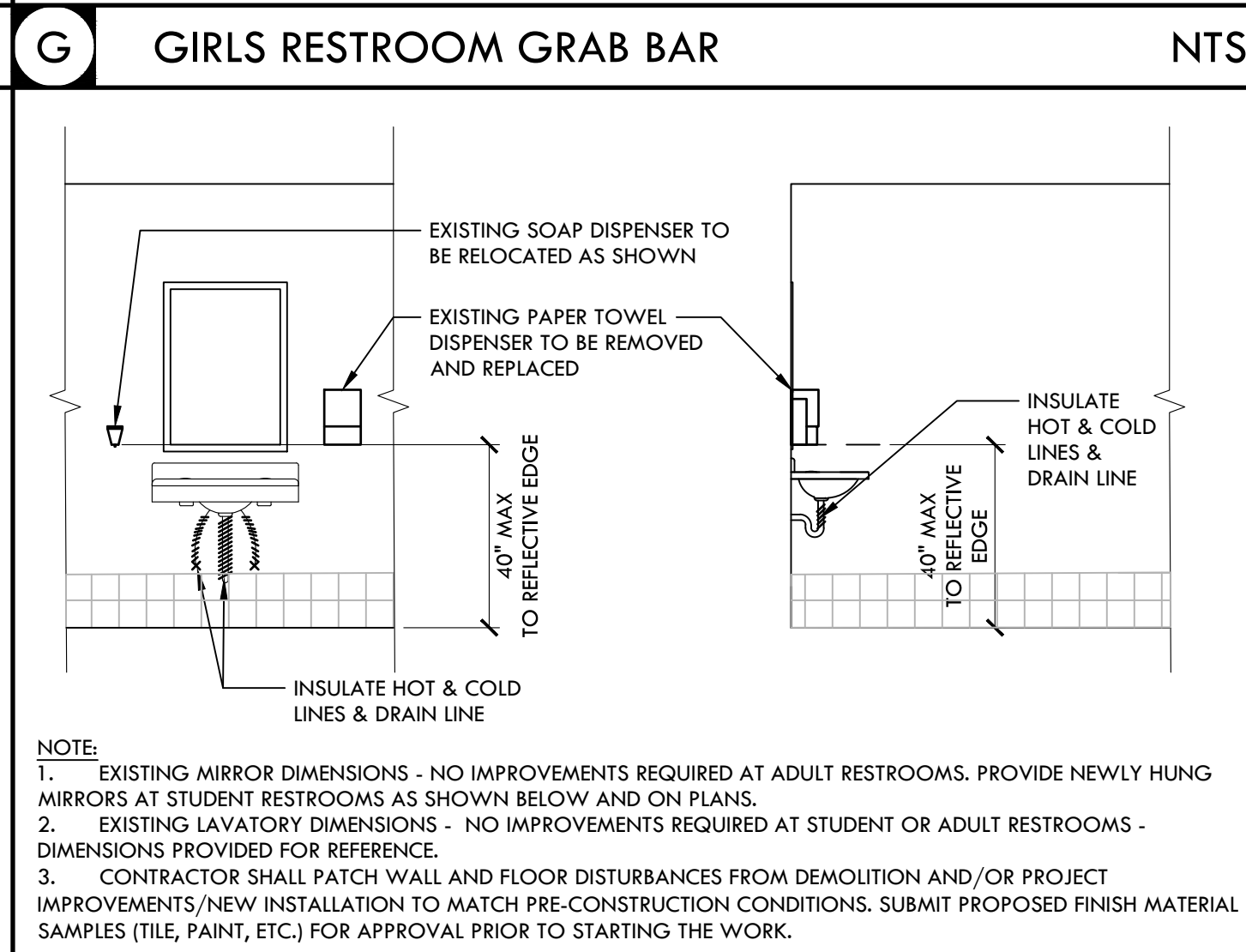
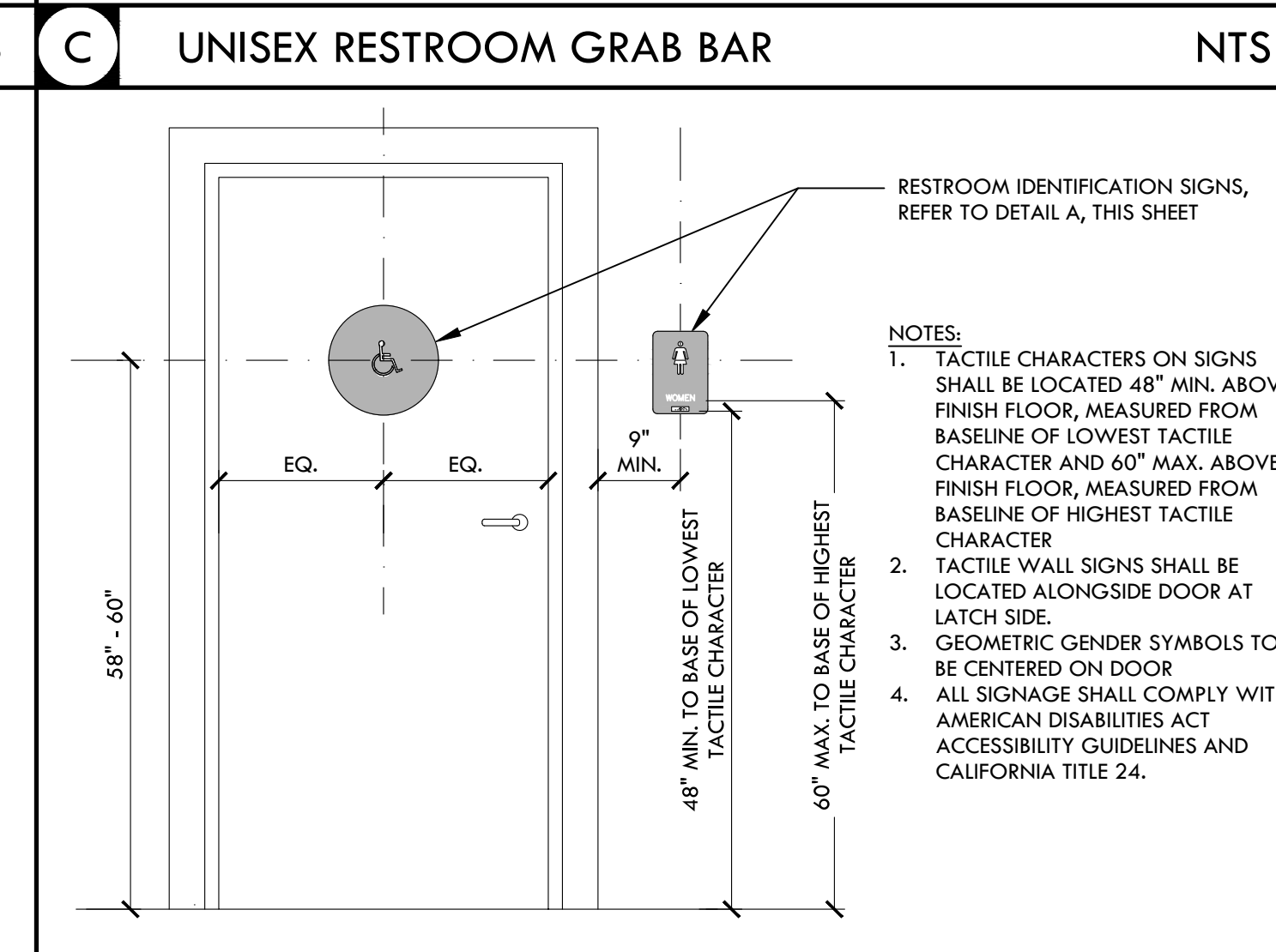
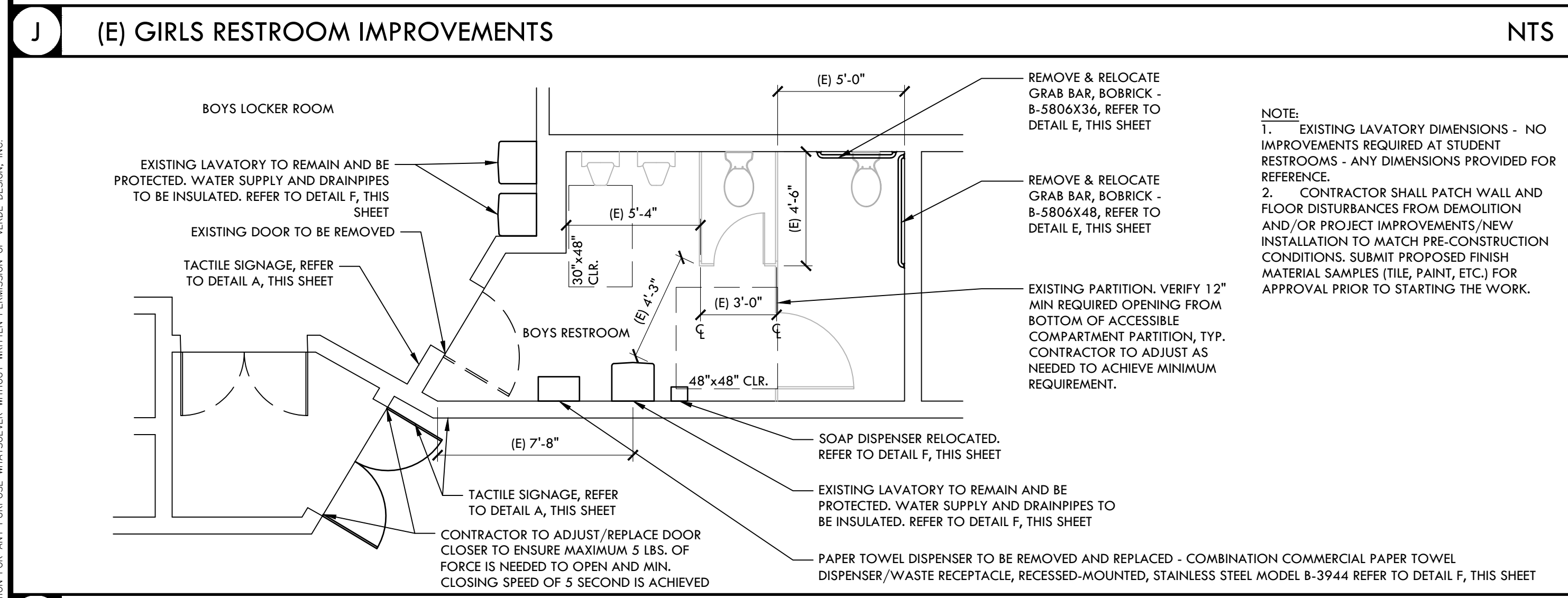
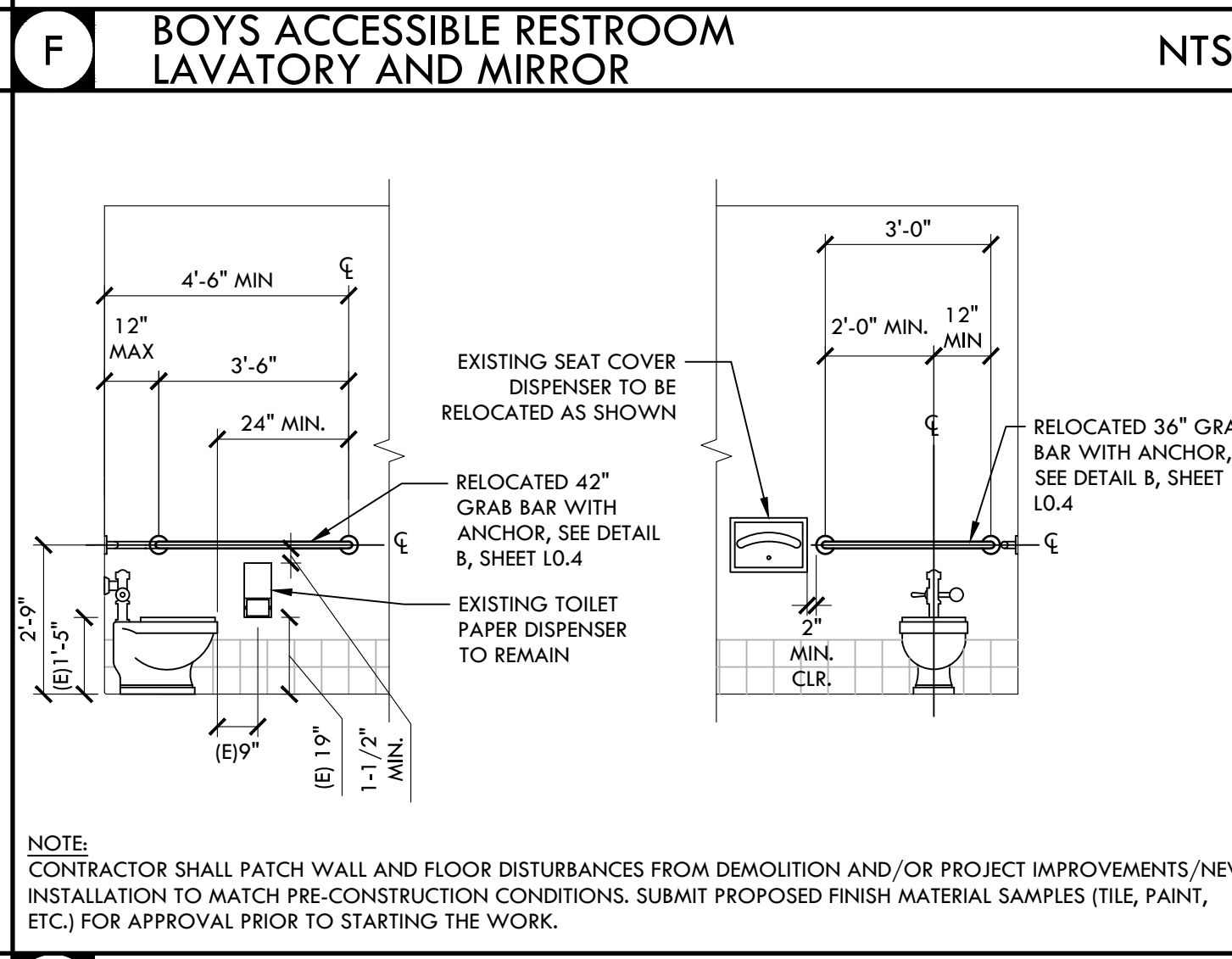
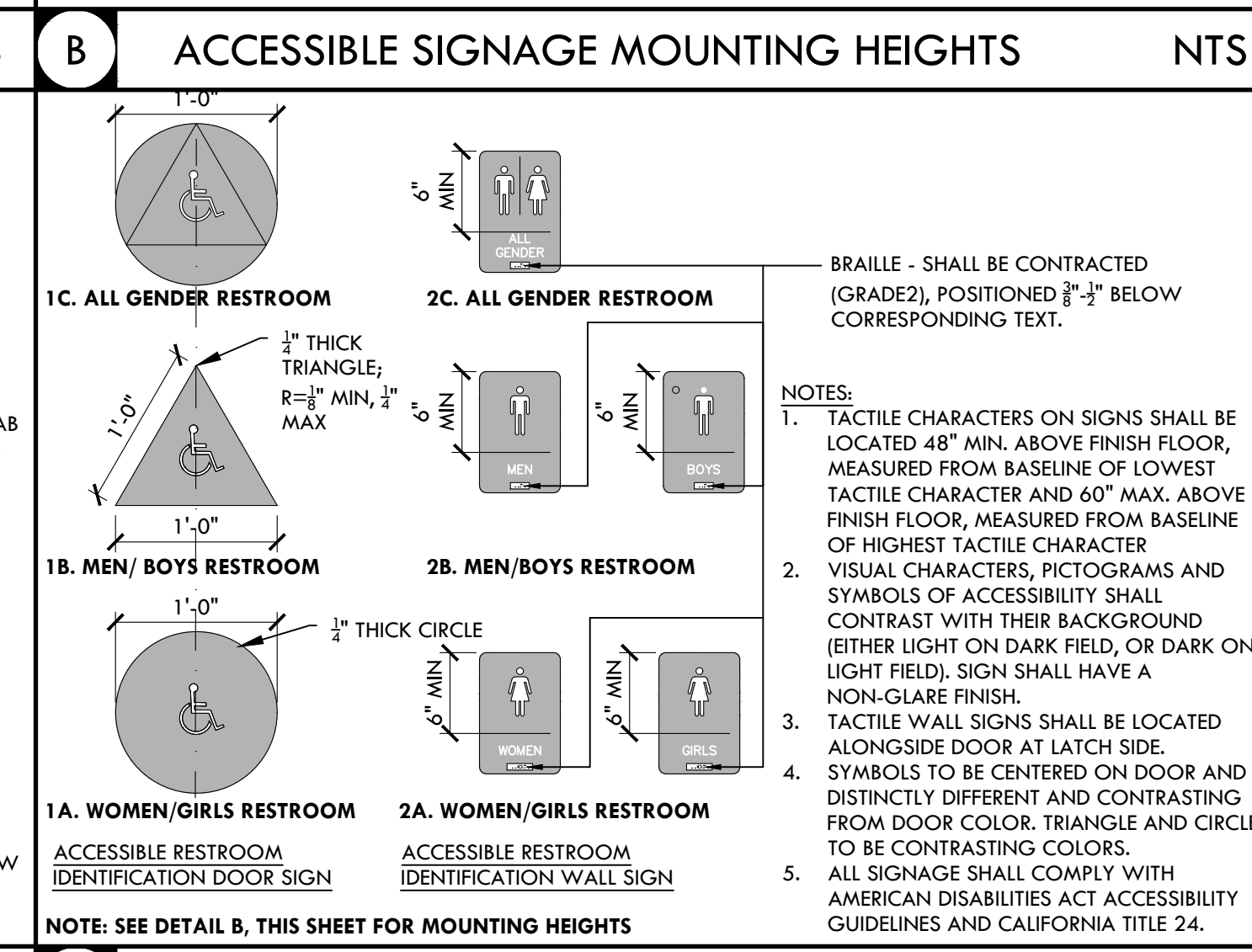
## LO.2

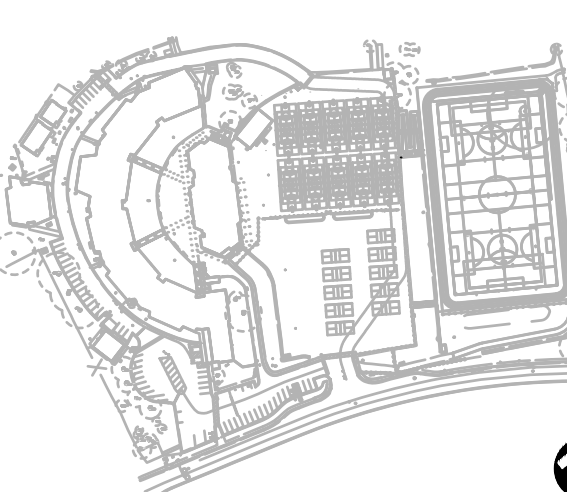
## ACCESSIBILITY - ENLARGEMENT PLAN

| IMPROVEMENTS LEGEND                                                                   |                                                                                                                                                                    |                                                                                       |
|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| SYM                                                                                   | DESCRIPTION                                                                                                                                                        | DTL                                                                                   |
|  | LIMIT OF WORK                                                                                                                                                      |                                                                                       |
|  | SCORE JOINT                                                                                                                                                        |  |
|  | EXPANSION JOINT                                                                                                                                                    |  |
|  | ASPHALT PAVING - VEHICULAR                                                                                                                                         |  |
|  | CONCRETE PAVING. CONTRACTOR SHALL DOWEL INTO EXISTING CONCRETE AT 36" O.C.                                                                                         |  |
|  | TRUNCATED DOMES                                                                                                                                                    |  |
|  | 12" WIDE CONCRETE CURB WITH GUARD RAIL                                                                                                                             |  |
|  | 12" WIDE CONCRETE CURB                                                                                                                                             |  |
|  | CONCRETE WHEEL STOP                                                                                                                                                |  |
|  | ACCESSIBLE AISLE. AISLE TO BE 8' WIDE WITH 4" STRIPING EXTERIOR. INTERIOR STRIPING 4" WHITE STRIPING AND IS 36" ON CENTER AND "NO PARKING" S PAINTED WITHIN AISLE. |                                                                                       |
|  | 36" X 36" INTERNATIONAL SYMBOL OF ACCESSIBILITY, WHITE-PAINTED ON BLUE BACKGROUND                                                                                  |                                                                                       |
|  | 6" WIDE CONCRETE CURB AND GUTTER                                                                                                                                   |  |
|  | ADA PARKING SIGNAGE MOUNTED TO GUARD RAIL                                                                                                                          |  |
|  | ADA VAN PARKING SIGNAGE MOUNTED TO GUARD RAIL                                                                                                                      |  |

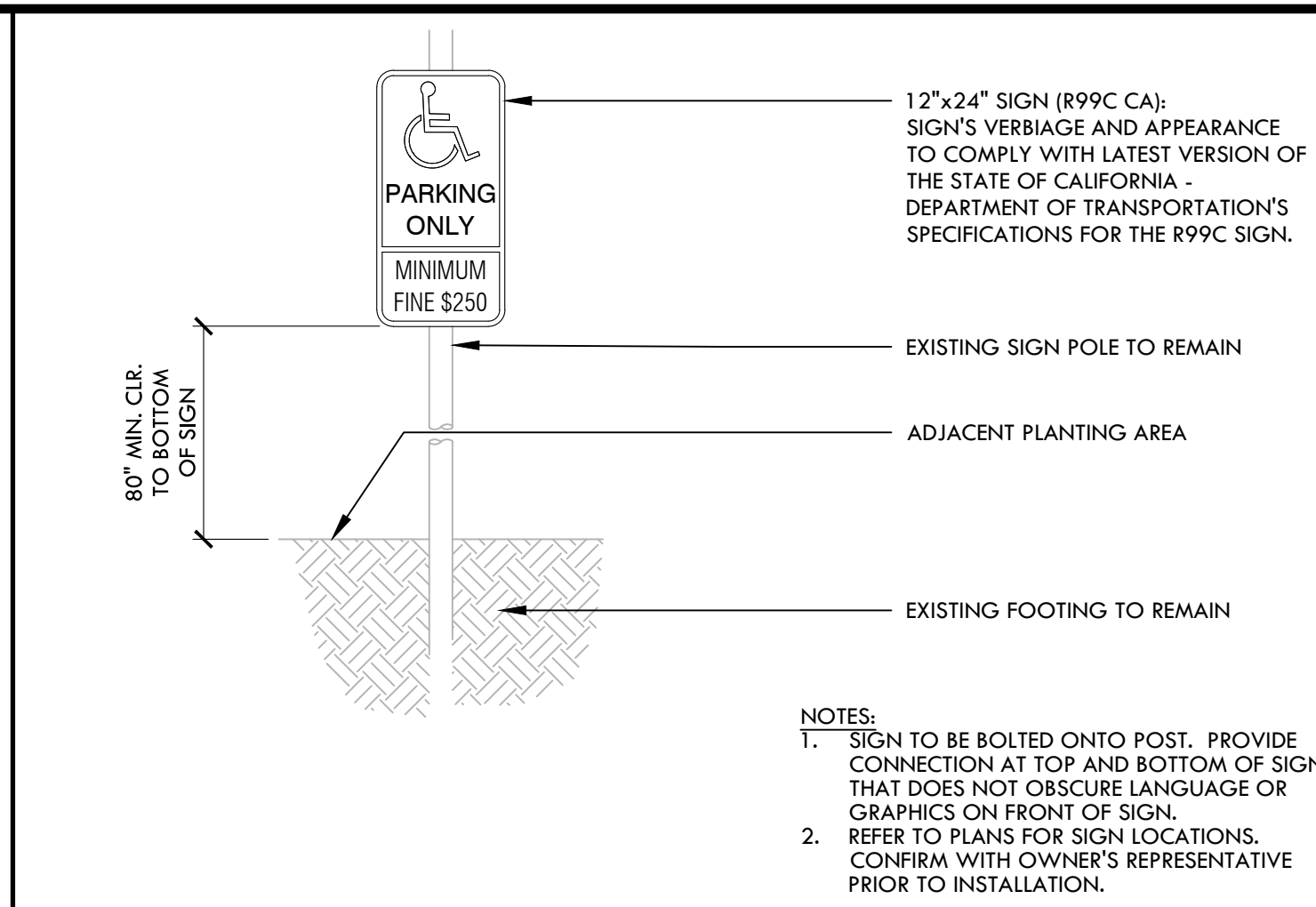
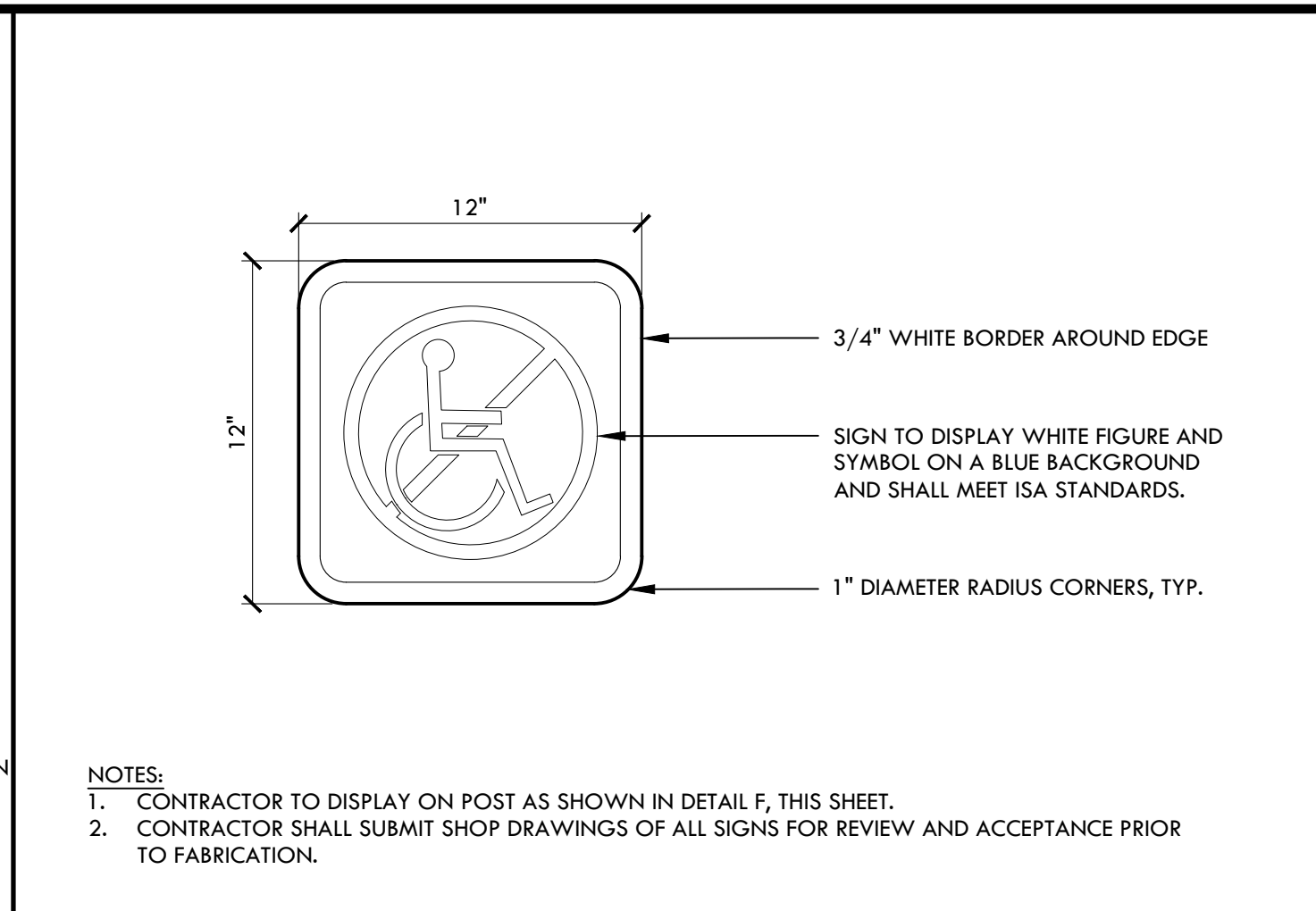
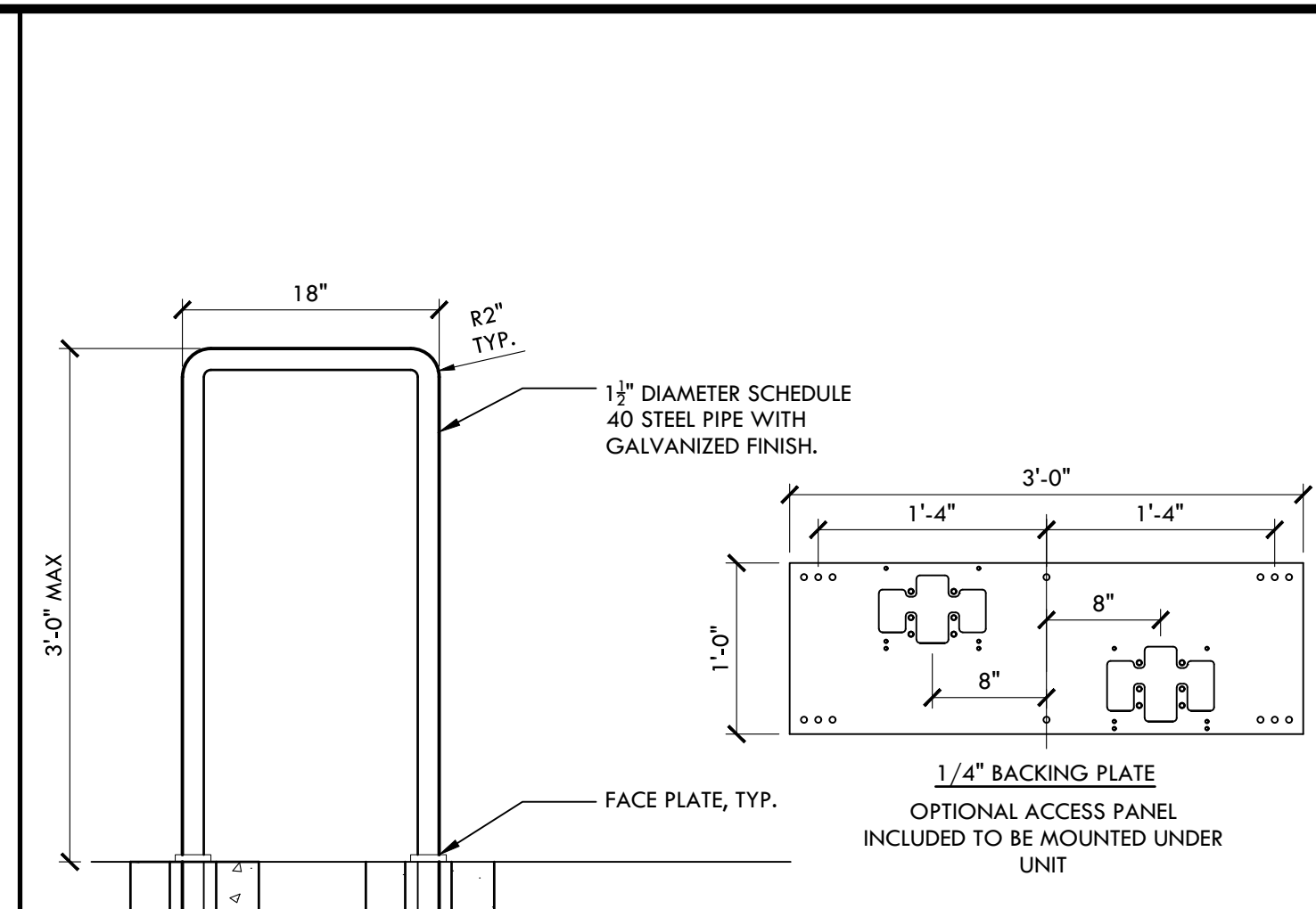
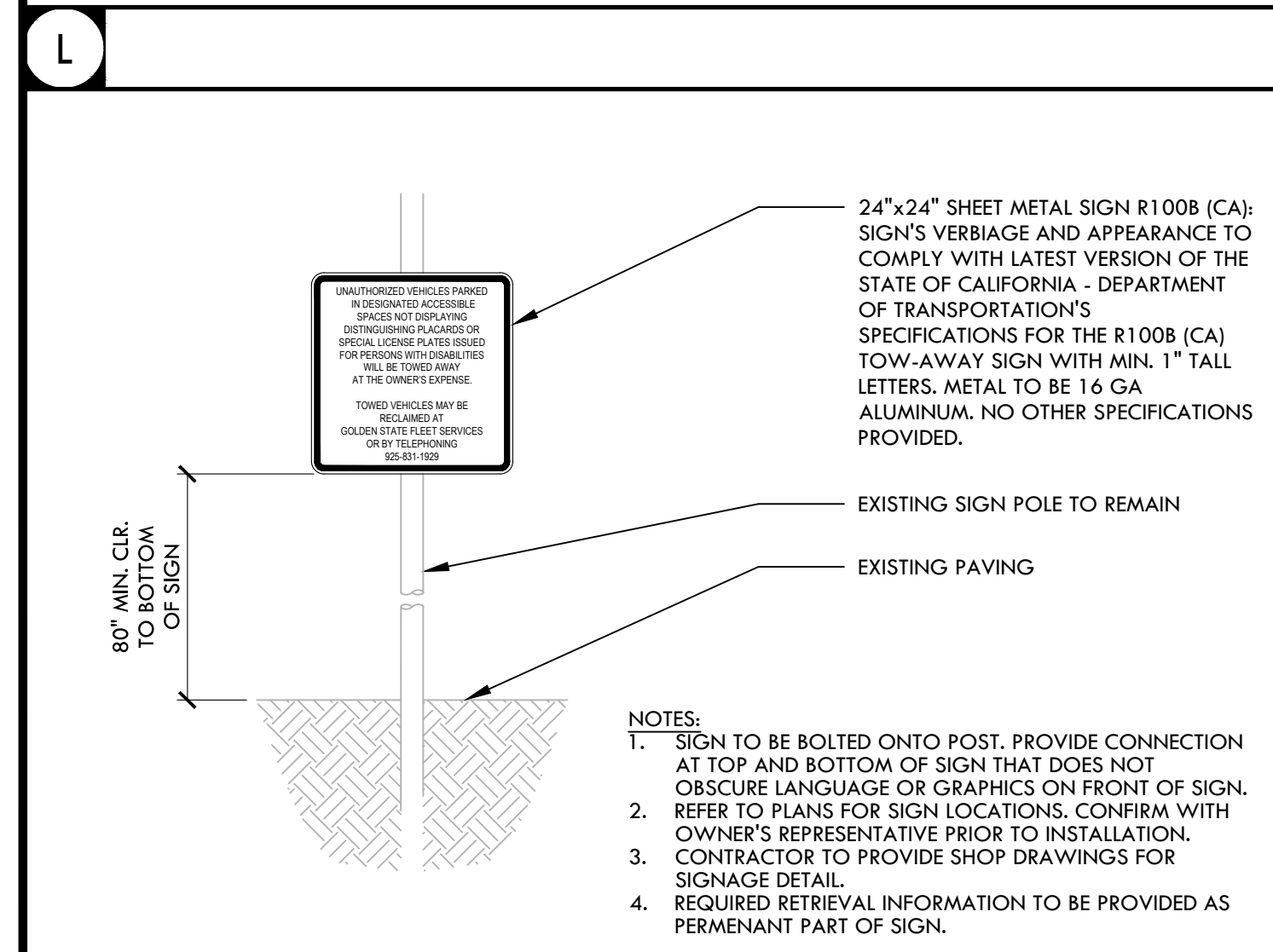
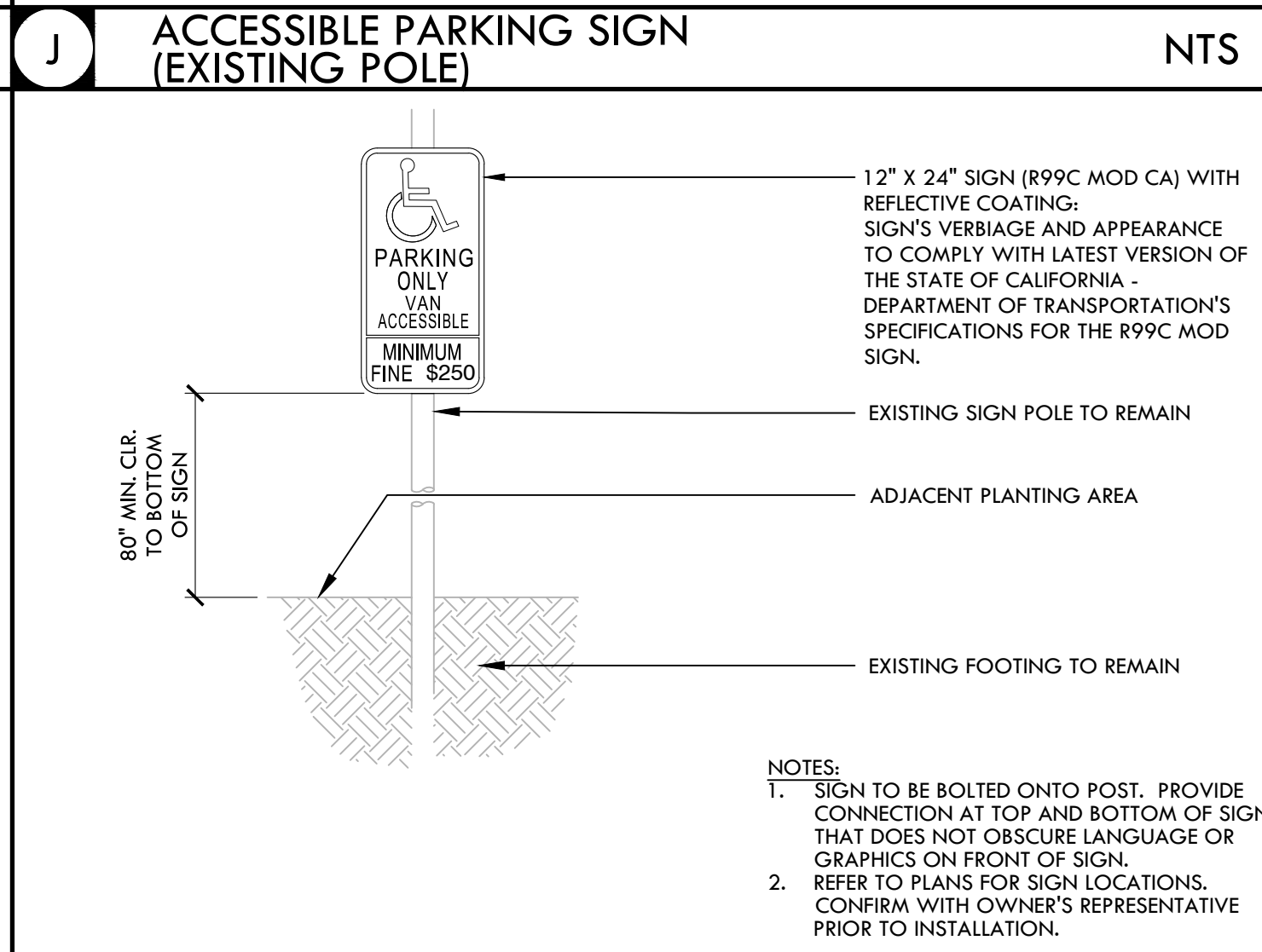
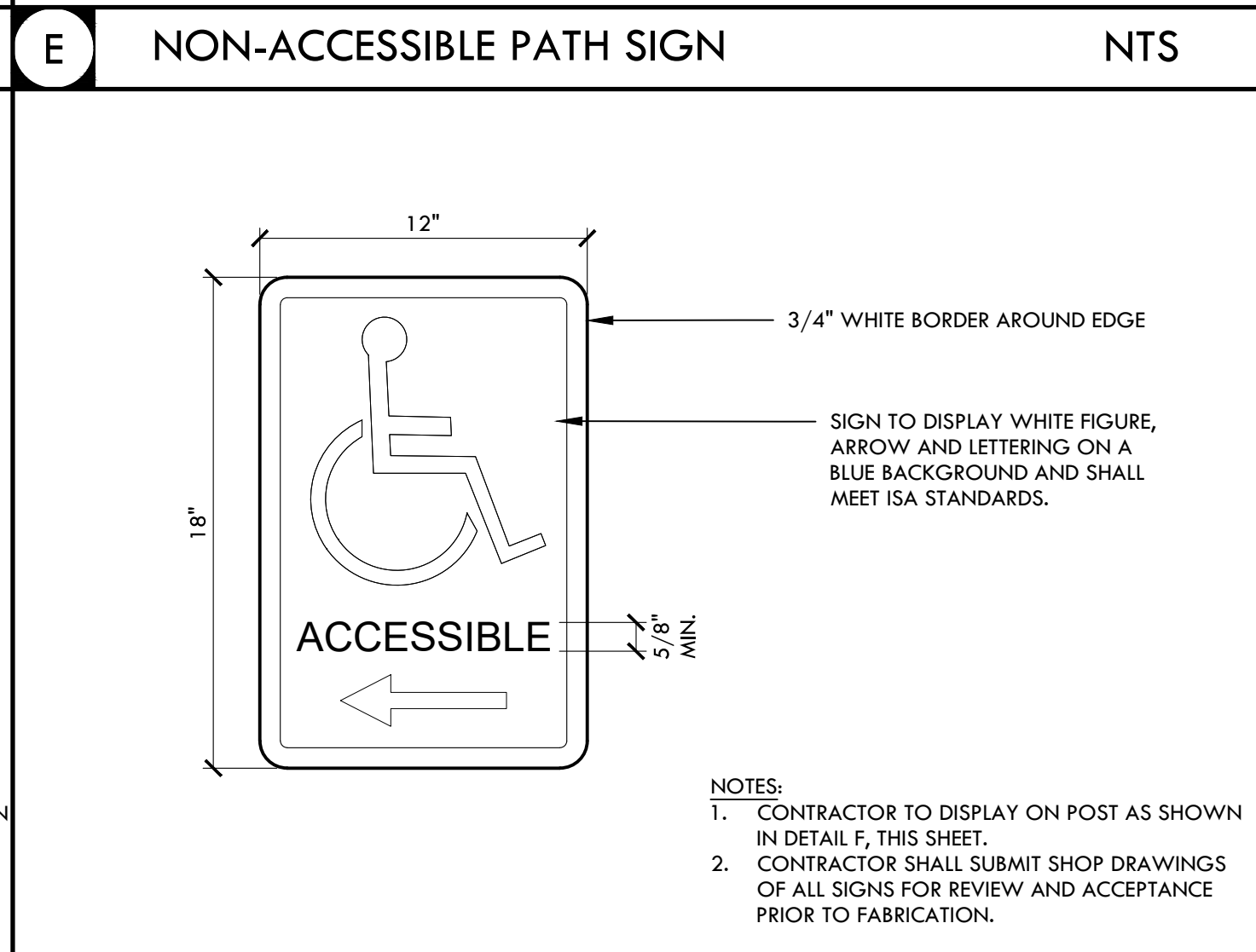
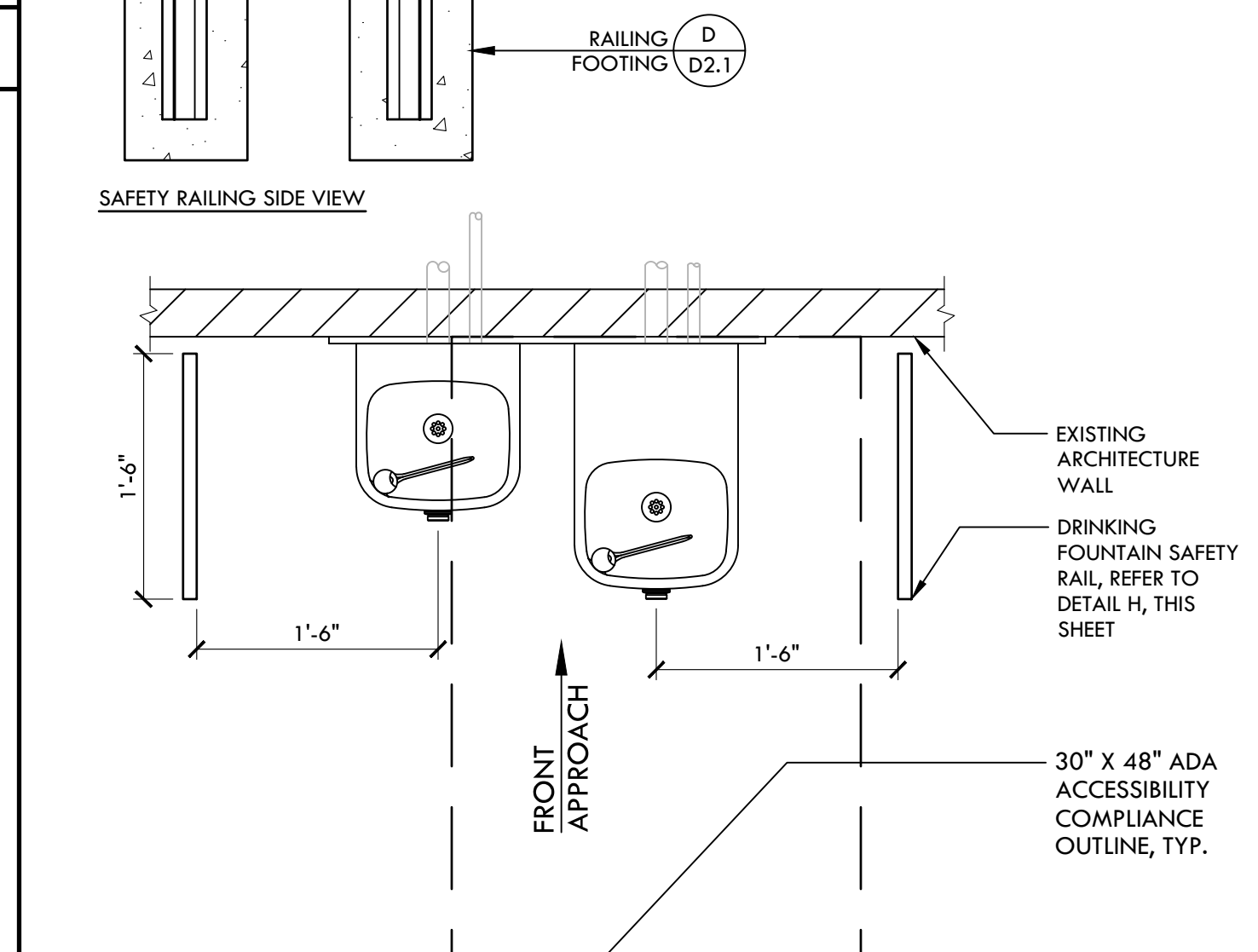
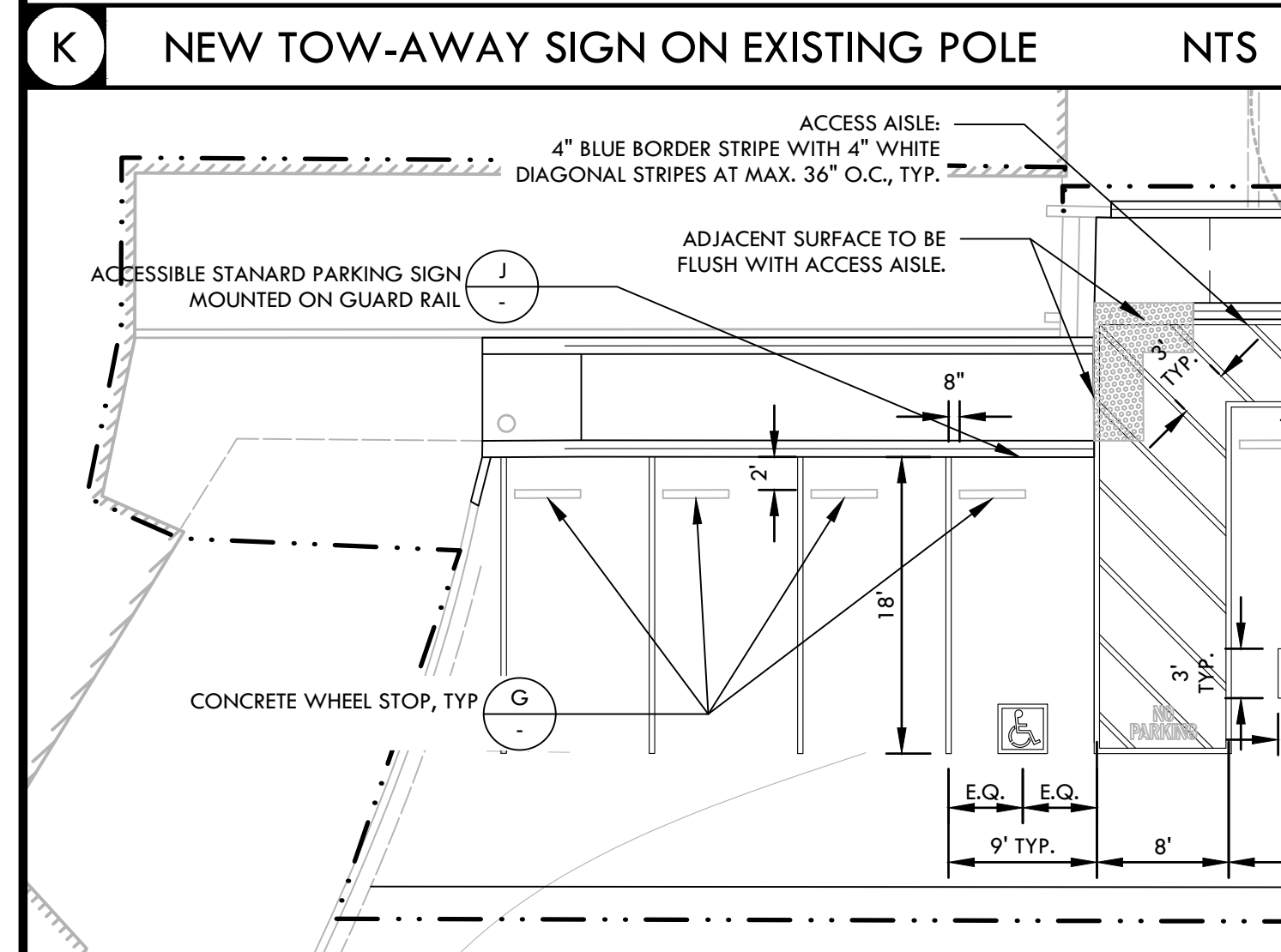
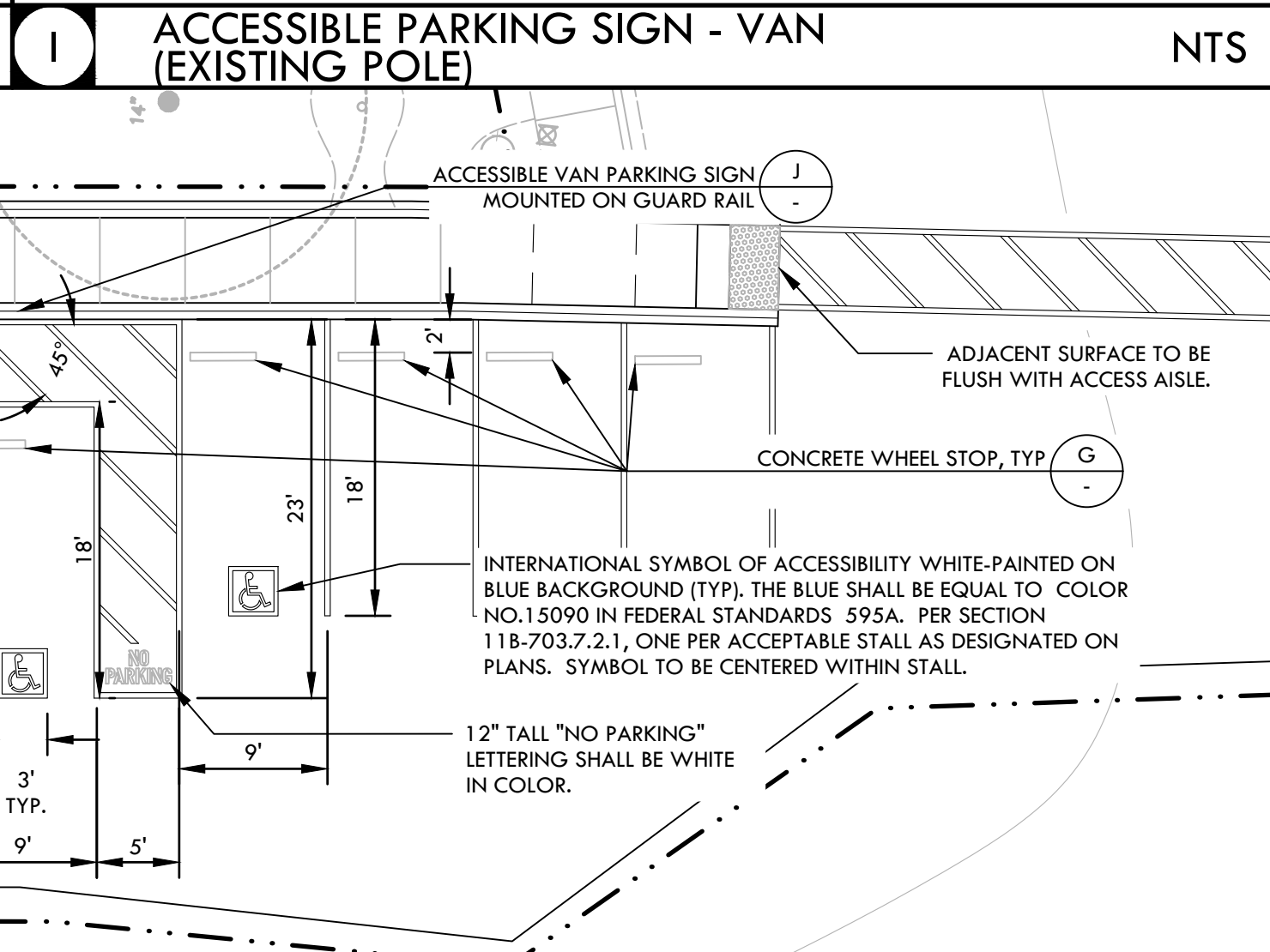
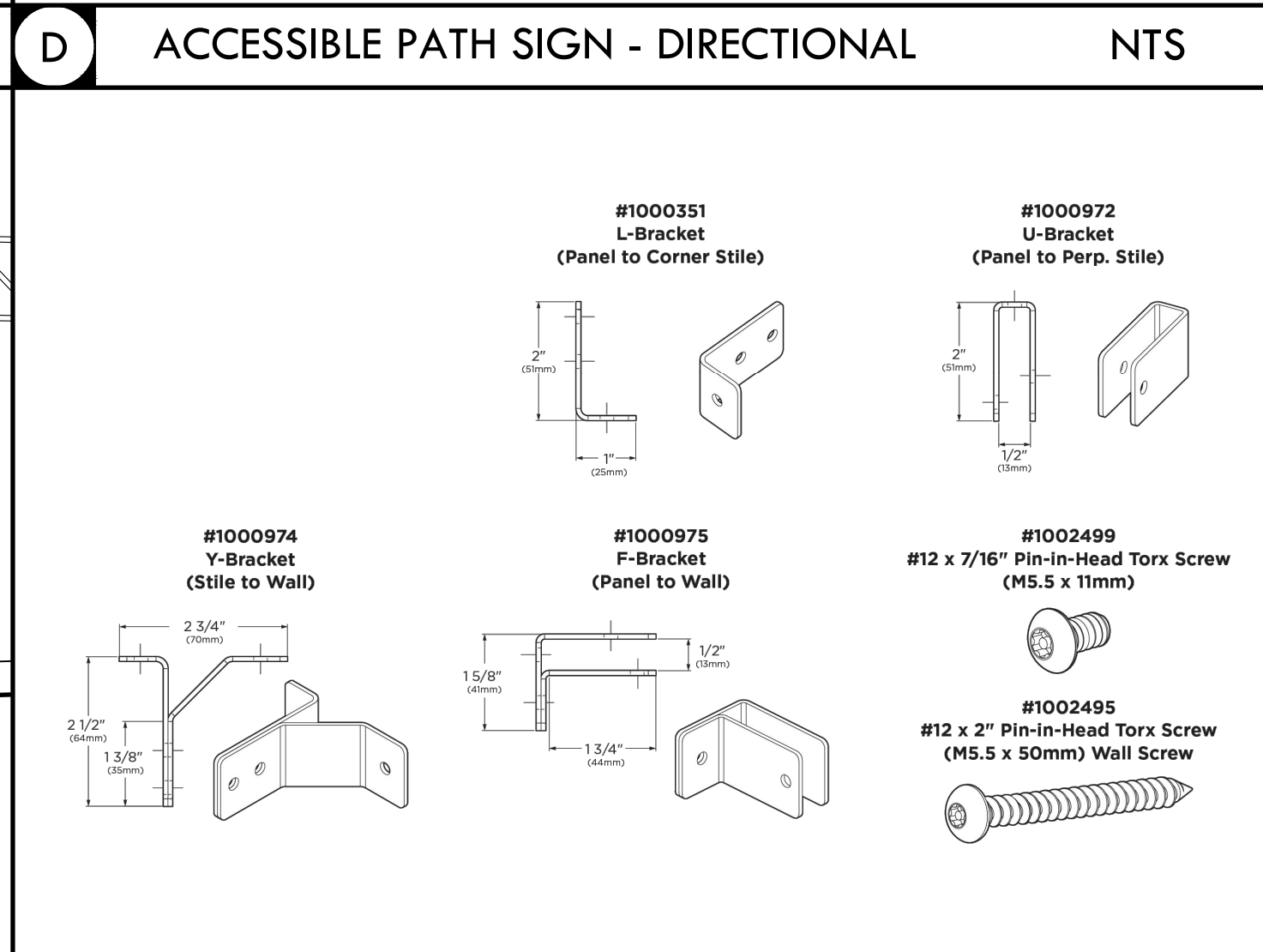
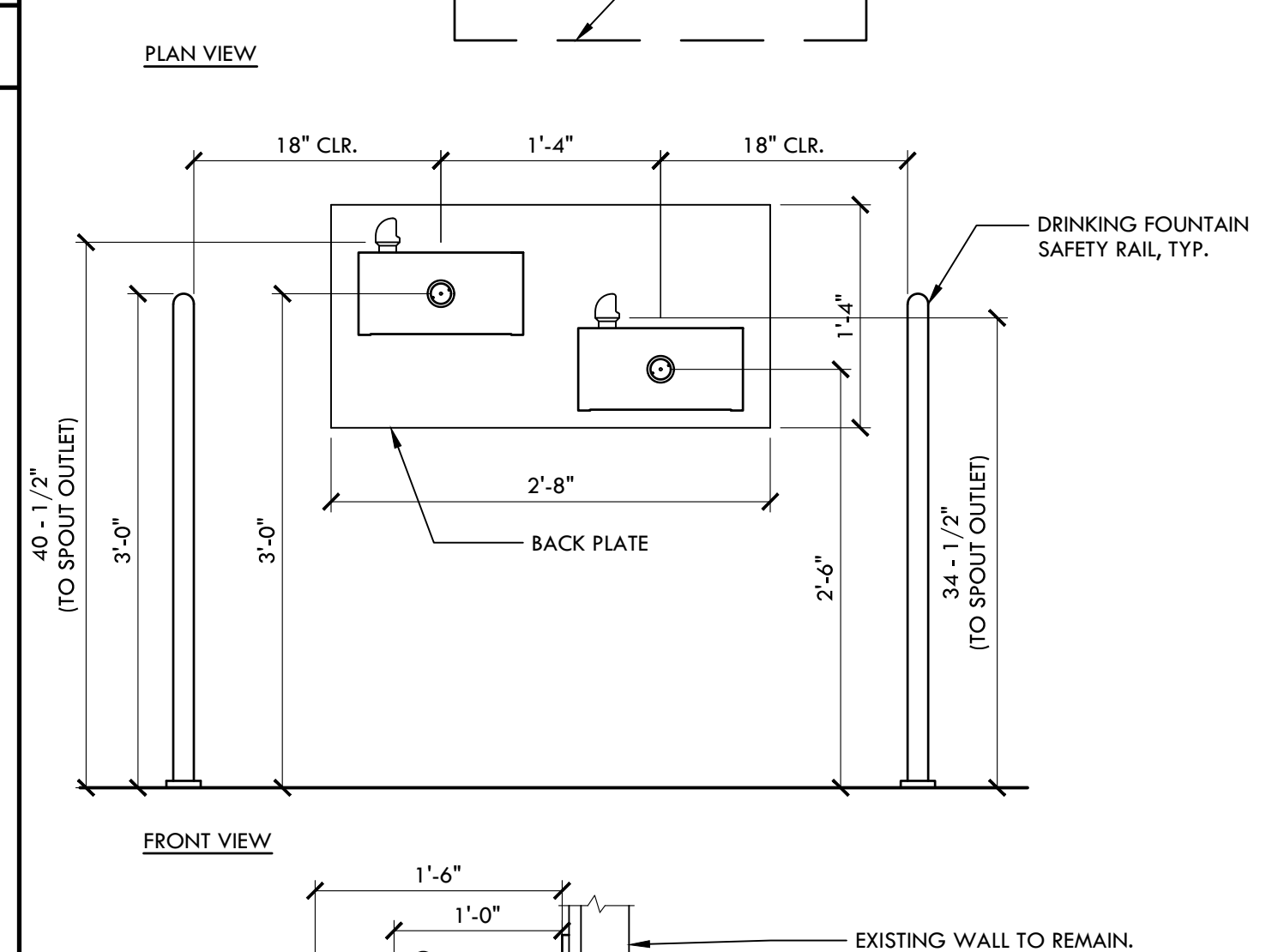
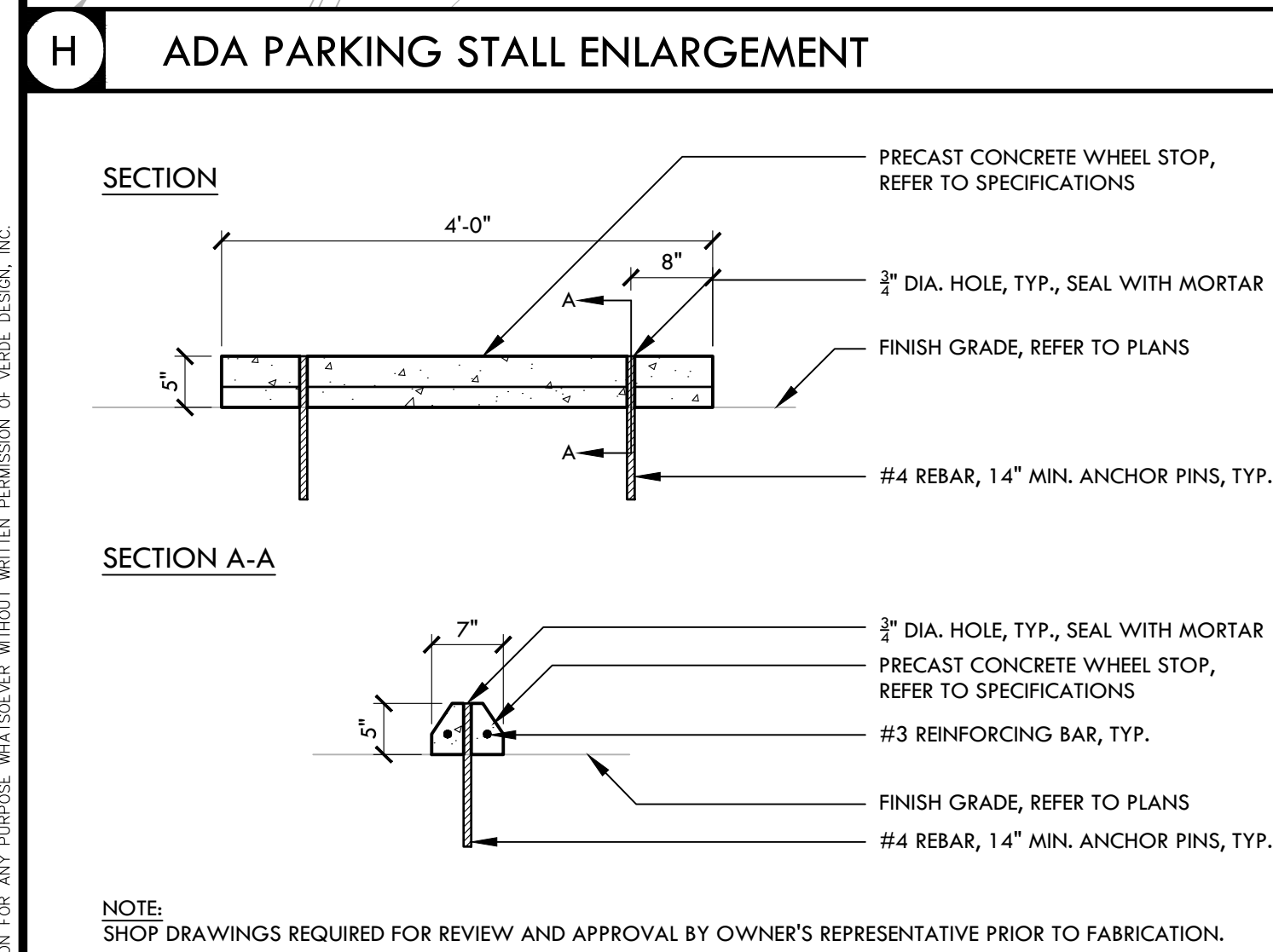
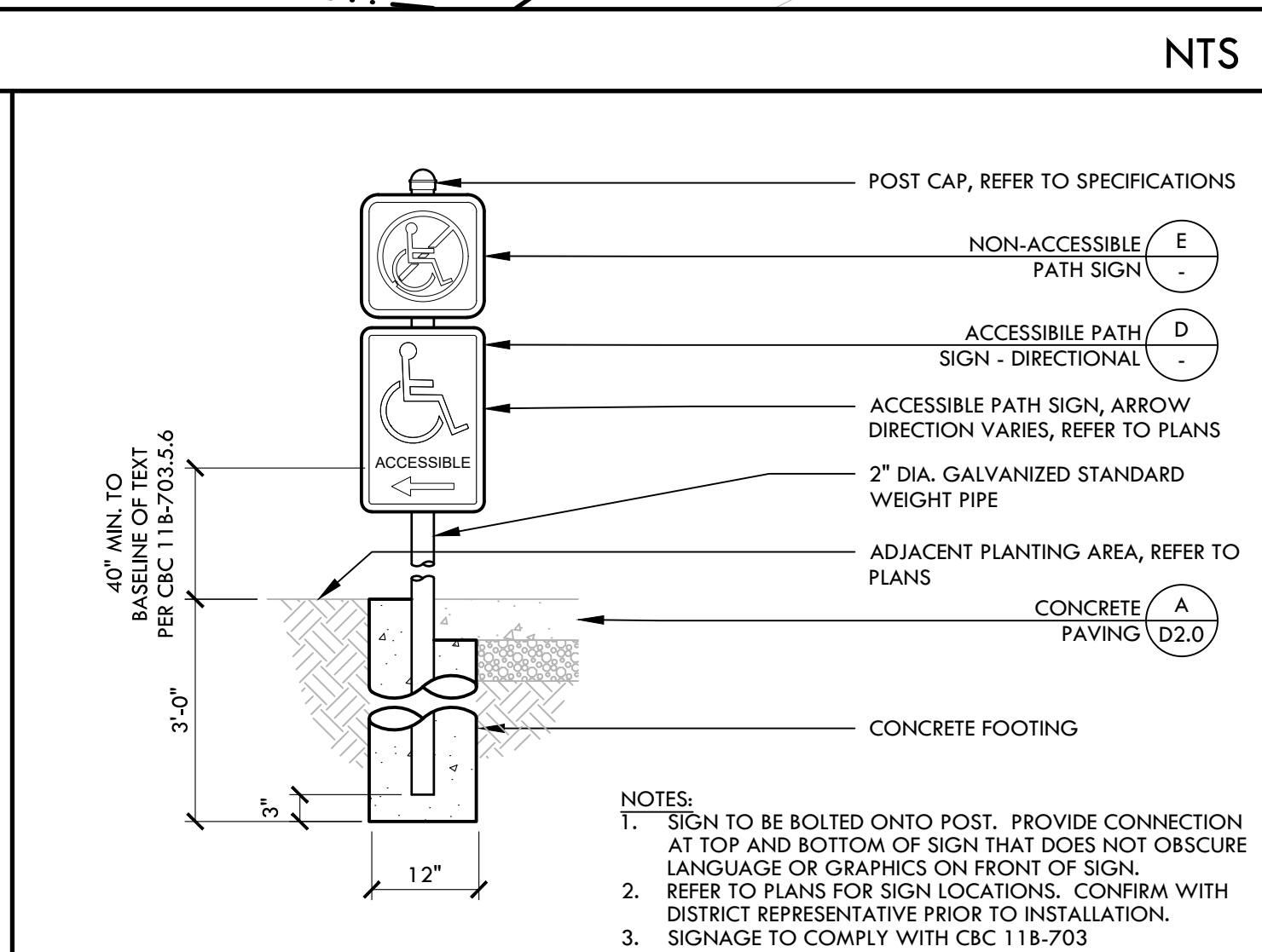
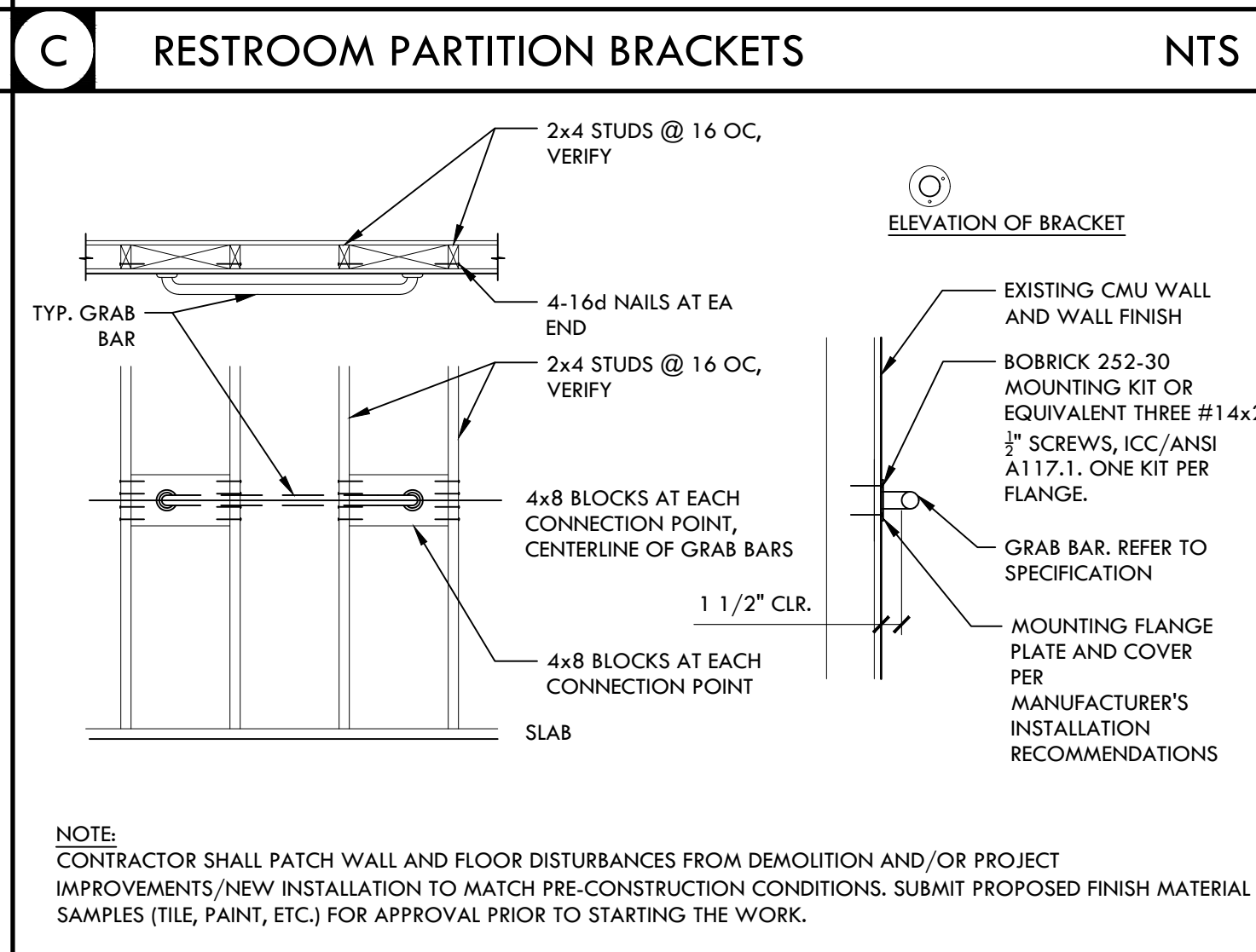
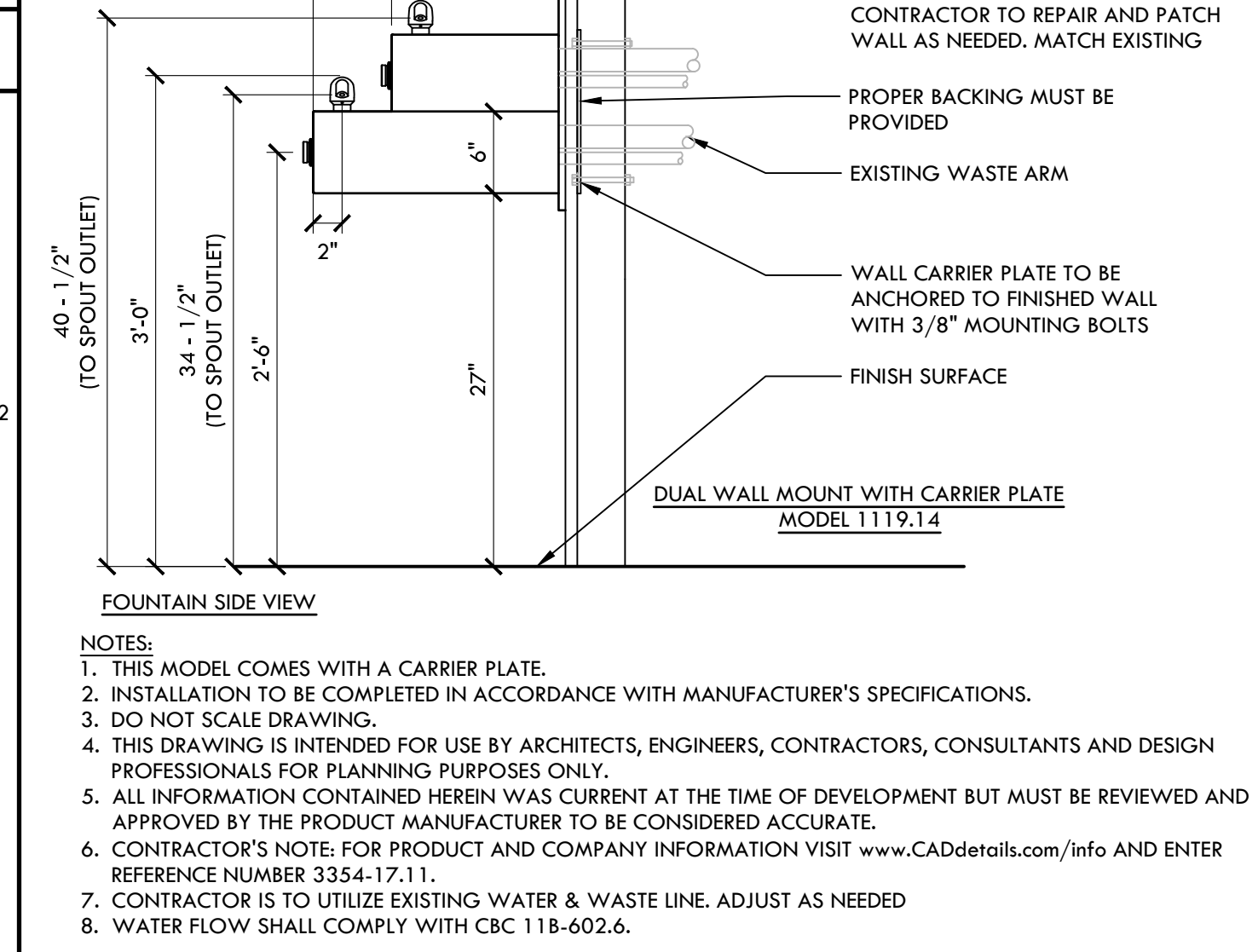


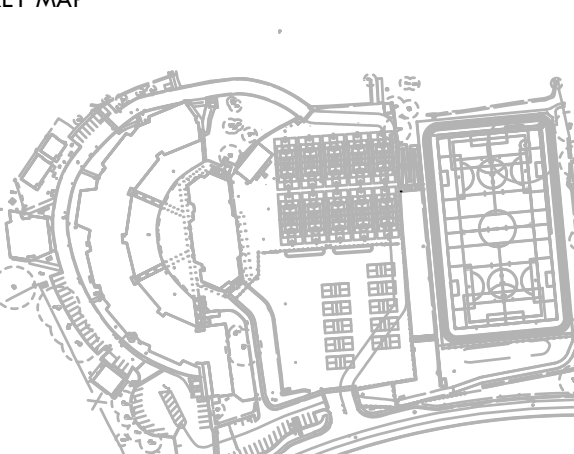




|                                                                                                                                                                                                                                                                                                       |                           |                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------|
| <br><b>VERDE DESIGN</b><br>LANDSCAPE ARCHITECTURE<br>CIVIL ENGINEERING<br>SPORT PLANNING & DESIGN<br>2455 The Alameda<br>Santa Clara, CA 95050<br>Tel: 408.985.7200<br>Fax: 408.985.7260<br>www.VerdeDesignInc.com |                           |                                    |
| STAMP <div style="text-align: center; margin-top: 10px;">  </div>                                                                                                                                                  |                           |                                    |
| KEY MAP <div style="text-align: center; margin-top: 10px;">  </div>                                                                                                                                                |                           |                                    |
| <b>SHEET TITLE</b><br><h2 style="margin: 0;">ACCESSIBILITY<br/>IMPROVEMENT DETAILS</h2>                                                                                                                                                                                                               |                           |                                    |
| PROJECT NAME<br><div style="text-align: center; margin-top: 10px;"> <b>WESTBOROUGH<br/>MIDDLE SCHOOL<br/>FIELD AND PAVEMENT<br/>IMPROVEMENTS</b> </div>                                                                                                                                               |                           |                                    |
| PROJECT ADDRESS<br><div style="text-align: center; margin-top: 10px;"> <b>2570 WESTBOROUGH BLVD<br/>SOUTH SAN FRANCISCO<br/>CA 94080</b> </div>                                                                                                                                                       |                           |                                    |
| SUBMITTAL                                                                                                                                                                                                                                                                                             | DATE                      |                                    |
| DSA SUBMITTAL                                                                                                                                                                                                                                                                                         | 12/10/24                  |                                    |
|                                                                                                                                                                                                                                                                                                       |                           |                                    |
|                                                                                                                                                                                                                                                                                                       |                           |                                    |
|                                                                                                                                                                                                                                                                                                       |                           |                                    |
|                                                                                                                                                                                                                                                                                                       |                           |                                    |
|                                                                                                                                                                                                                                                                                                       |                           |                                    |
|                                                                                                                                                                                                                                                                                                       |                           |                                    |
| NO.                                                                                                                                                                                                                                                                                                   | REVISIONS                 | DATE                               |
| △                                                                                                                                                                                                                                                                                                     |                           |                                    |
| △                                                                                                                                                                                                                                                                                                     |                           |                                    |
| △                                                                                                                                                                                                                                                                                                     |                           |                                    |
| △                                                                                                                                                                                                                                                                                                     |                           |                                    |
| △                                                                                                                                                                                                                                                                                                     |                           |                                    |
| △                                                                                                                                                                                                                                                                                                     |                           |                                    |
| DRAWN BY<br><b>RC / KL</b>                                                                                                                                                                                                                                                                            | CHECKED BY<br><b>JW</b>   |                                    |
| DATE ISSUED<br><b>12/10/2024</b>                                                                                                                                                                                                                                                                      | SCALE<br><b>1"=10'-0"</b> |                                    |
| VDI PROJ. NO.<br><b>2320400</b>                                                                                                                                                                                                                                                                       |                           | SSFUSD PROJ. NO.<br><b>025-960</b> |
| SHEET NO.<br><b>L0.3</b>                                                                                                                                                                                                                                                                              |                           |                                    |

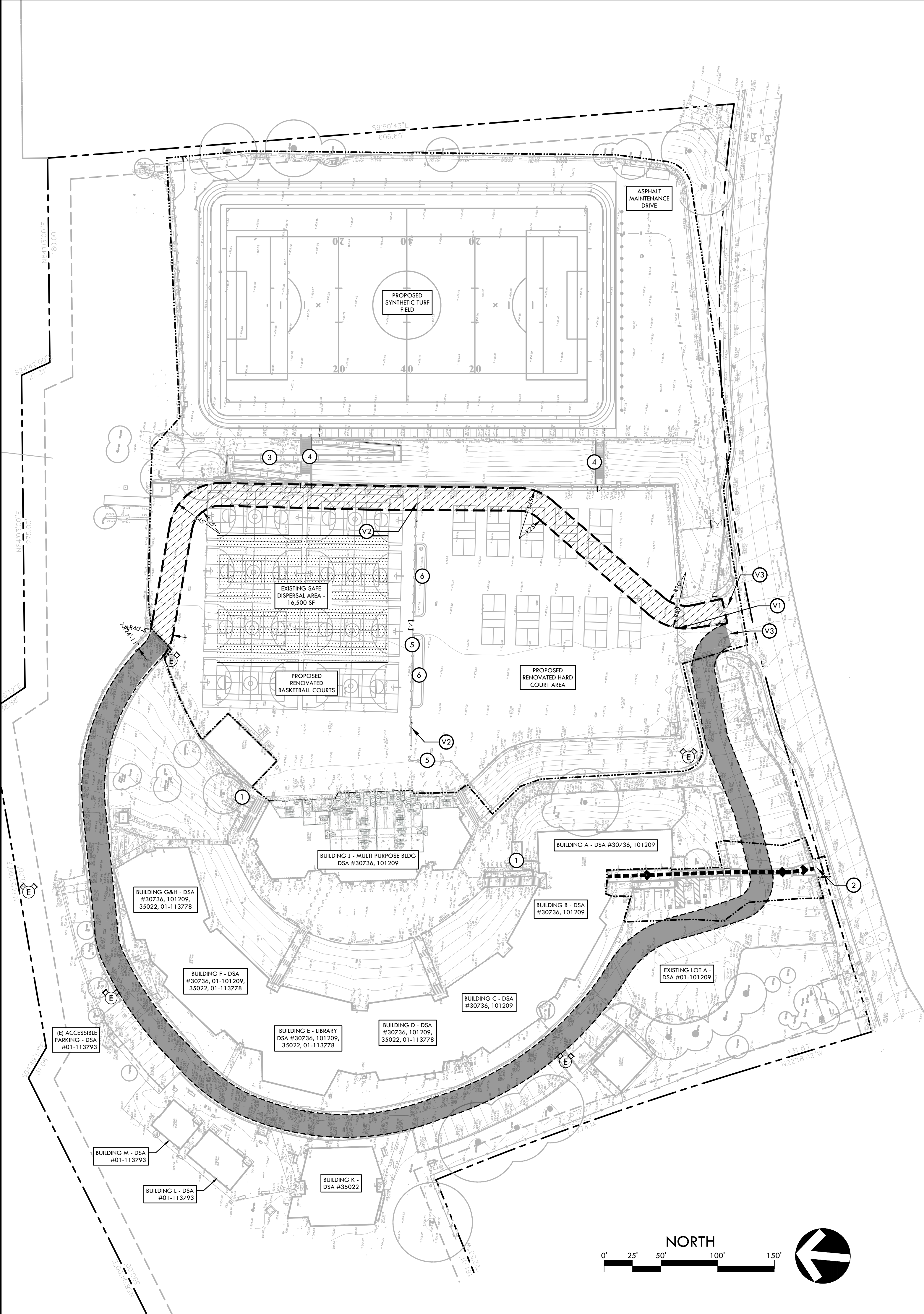
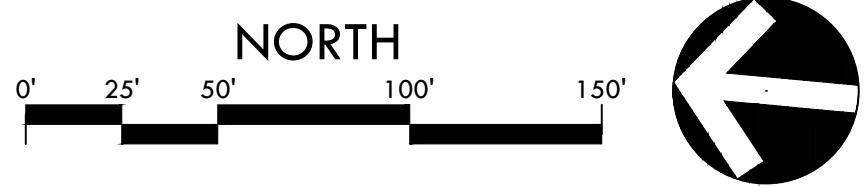




|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------|
|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
| <div><div></div><div><div>VERDE DESIGN</div><div>LANDSCAPE ARCHITECTURE<br/>CIVIL ENGINEERING<br/>SPORT PLANNING &amp; DESIGN</div><div><div>2455 The Alameda<br/>Santa Clara, CA 95050<br/>tel: 408.985.7200<br/>fax: 408.985.7260<br/><a href="#">www.VerdeDesignInc.com</a></div></div></div></div> |                  |      |
| STAMP <div><div><div>REGISTERED PROFESSIONAL ENGINEER<br/>DEVIN CONWAY<br/>No. C-56494</div><div>Signature _____<br/>EXPIRATION DATE:<br/>June 30, 2025</div><div>STATE OF CALIFORNIA</div></div></div>                                                                                                                                                                                   |                  |      |
| KEY MAP <div><div>NORTH</div></div>                                                                                                                                                                                 |                  |      |
| SHEET TITLE <div>ACCESSIBILITY<br/>IMPROVEMENT DETAILS</div>                                                                                                                                                                                                                                                                                                                              |                  |      |
| PROJECT NAME <div>WESTBOROUGH<br/>MIDDLE SCHOOL<br/>FIELD AND PAVEMENT<br/>IMPROVEMENTS</div>                                                                                                                                                                                                                                                                                             |                  |      |
| PROJECT ADDRESS <div>2570 WESTBOROUGH BLVD<br/>SOUTH SAN FRANCISCO<br/>CA 94080</div>                                                                                                                                                                                                                                                                                                     |                  |      |
| SUBMITTAL                                                                                                                                                                                                                                                                                                                                                                                 | DATE             |      |
| DSA SUBMITTAL                                                                                                                                                                                                                                                                                                                                                                             | 12/10/24         |      |
|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
|                                                                                                                                                                                                                                                                                                                                                                                           |                  |      |
| NO.                                                                                                                                                                                                                                                                                                                                                                                       | REVISIONS        | DATE |
|                                                                                                                                                                                                                                                                                                      |                  |      |
|                                                                                                                                                                                                                                                                                                      |                  |      |
|                                                                                                                                                                                                                                                                                                      |                  |      |
|                                                                                                                                                                                                                                                                                                      |                  |      |
|                                                                                                                                                                                                                                                                                                      |                  |      |
|                                                                                                                                                                                                                                                                                                      |                  |      |
| DRAWN BY                                                                                                                                                                                                                                                                                                                                                                                  | CHECKED BY       |      |
| RC / KL                                                                                                                                                                                                                                                                                                                                                                                   | JW               |      |
| DATE ISSUED                                                                                                                                                                                                                                                                                                                                                                               | SCALE            |      |
| 12/10/2024                                                                                                                                                                                                                                                                                                                                                                                | 1"=10'-0"        |      |
| VDI PROJ. NO.                                                                                                                                                                                                                                                                                                                                                                             | SSFUSD PROJ. NO. |      |
| 2320400                                                                                                                                                                                                                                                                                                                                                                                   | 025-960          |      |
| SHEET NO. <div>L0.4</div>                                                                                                                                                                                                                                                                                                                                                                 |                  |      |



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



LOCAL FIRE AUTHORITY REVIEW

PROJECT INFORMATION

School District/Owner: SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT

Project Name/School: WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS

Project Address: 2570 WESTBOROUGH BLVD., SOUTH SAN FRANCISCO, CA 94080

FIRE & LIFE SAFETY INFORMATION

1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data.)

Yes ☐ No ☒

2. Was the fire hydrant water flow test performed as part of this LFA review?

Yes ☐ No ☒

3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? (If yes, indicate FHSZ classification below.)

Yes ☐ No ☒

Refer to the following website for FHSZ locations: <http://eqgis.fire.ca.gov/FHSZ/>

Moderate ☐ High ☐ Very High ☐

Wildland Interface Area (WIFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)

WIFA ☐

| CONDITION MEANS AND METHODS RESOLUTION |                                                                                                                                                                                                              | ALTERNATE ACCEPTED |    |     |     |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----|-----|-----|
|                                        |                                                                                                                                                                                                              | Yes                | No | N/A | N/R |
| 4.                                     | Emergency vehicle access roadways do not meet CFC requirements.                                                                                                                                              |                    |    |     |     |
| 4a.                                    | Acceptable Alternate: Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.                          |                    |    |     |     |
| 5.                                     | Fire Hydrants: Number and spacing does not meet CFC requirements.                                                                                                                                            |                    |    |     |     |
| 5a.                                    | Acceptable Alternate: Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.                                       |                    |    |     |     |
| 6.                                     | Fire Hydrants: Water flow and pressure are less than CFC minimum.                                                                                                                                            |                    |    |     |     |
| 6a.                                    | Acceptable Alternate: The available flow and pressure is acceptable for providing fire suppression and protection of life and property.                                                                      |                    |    |     |     |
| 7.                                     | Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.                                                                                |                    |    |     |     |
| 7a.                                    | Acceptable Alternate: The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property. |                    |    |     |     |

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: South San Francisco Fire

LFA Review Official: Ian Hardage

Title: FIRE MARSHAL

Work Phone: 650-829-6645

Work Email: ian.hardage@ssf.net

Work Email: \_\_\_\_\_

LFA Reviewer's Signature: \_\_\_\_\_

Date: 1/30/25

ACCESSIBILITY LEGEND

| SYM | DESCRIPTION                                                                                                                                                                      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | PROJECT LIMIT OF WORK                                                                                                                                                            |
|     | PROJECT PROPERTY LINE                                                                                                                                                            |
|     | EMERGENCY VEHICULAR ACCESS (ACCESS IS 20' MIN. WIDTH AND RATED 96,000 LBS - ARROWS INDICATE TRAVEL DIRECTION)                                                                    |
|     | EXISTING EMERGENCY VEHICULAR ACCESS (DSA #01-120601) - AREA NOT IMPACTED BY PROPOSED SCOPE OF WORK                                                                               |
|     | EXISTING FIRE HYDRANT                                                                                                                                                            |
|     | EGRESS ROUTE TO PUBLIC RIGHT OF WAY (PATHWAY TO BE RE-GRADED AND RE-CONSTRUCTED TO MEET ACCESSIBILITY REQUIREMENTS AS A PART OF THIS PROJECT - REFER TO SITE ACCESSIBILITY PLAN) |
| ①   | EXISTING ELEVATOR - DSA APPL # 01-101209                                                                                                                                         |
| ②   | EXISTING PUBLIC SIDEWALK                                                                                                                                                         |
| ③   | PROPOSED ACCESSIBLE RAMP - REFER TO SITE ACCESSIBILITY PLAN                                                                                                                      |
| ④   | PROPOSED CONCRETE STAIRS                                                                                                                                                         |
| ⑤   | PROPOSED CHAIN LINK FENCE - 42" TALL                                                                                                                                             |
| ⑥   | PROPOSED PLANTER AREA                                                                                                                                                            |
| V1  | EXISTING SITE SECURITY GATE - (E) 20' WIDE X 8' TALL DOUBLE SWING GATE                                                                                                           |
| V2  | PROPOSED VEHICULAR / MAINTENANCE GATE - 42" TALL X 20' WIDE CHAIN LINK SLIDING GATE                                                                                              |
| V3  | EXISTING SITE SECURITY GATE - (E) 20' WIDE X 42" TALL DOUBLE SWING GATE                                                                                                          |

VERDE DESIGN

LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com

KEY MAP

FIRE ACCESS PLAN

PROJECT NAME

WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |
|               |          |
|               |          |
|               |          |
|               |          |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
| △   |           |      |
| △   |           |      |
| △   |           |      |
| △   |           |      |
| △   |           |      |
| △   |           |      |

DRAWN BY: RC / KL

CHECKED BY: JWV

DATE ISSUED: 12/10/2024

SCALE: 1"=50'-0"

VDI PROJ. NO.: 2320400

SSFUSD PROJ. NO.: 025-960

SHEET NO.: L0.5

FIRE ACCESS PLAN

EXISTING BUILDING OCCUPANCIES

| BUILDING DESIGNATION   | OCCUPANCY TYPE | CONSTRUCTION TYPE | SPRINKLER | ACTUAL AREA (SF)     | ACTUAL STORIES |
|------------------------|----------------|-------------------|-----------|----------------------|----------------|
| BUILDING A - ADMIN     | B              | V-A               | NS        | 3,155                | 1              |
| BUILDING A, B & C      | E              | V-A               | NS        | 12,422               | 1              |
| BUILDING D, E, F, G, H | E              | V-A               | NS        | 24,615               | 1              |
| BUILDING J             | E              | V-A               | NS        | 12,454               | 2              |
| BUILDING K             | E              | V-A               | NS        | 5,852                | 1              |
| BUILDING L & M         | A-2            | V-B               | NS        | 2,400                | 1              |
| TOTAL                  |                |                   |           | 60,898               |                |
|                        |                |                   |           | NS - NOT SPRINKLERED |                |



## SHEET INFO AND REFERENCE

1. THIS TOPOGRAPHIC SURVEY WAS PROVIDED BY HOBHACH-LIEWIN, INC. (TELEPHONE): (650) 617-5930 (ADDRESS): 260 SHERIDAN AVE, PALO ALTO, CA 94306.
2. ADDITIONAL INFORMATION (SHOWN SCREENED) IS FROM RECORD DRAWINGS PROVIDED BY THE OWNER AND SITE INVESTIGATIONS BY VERDE DESIGN
3. NOTE THAT THIS IS NOT A COMPLETE UNDERGROUND SURVEY, THIS DRAWING CONTAINS ONLY PARTIAL INFORMATION FOR THE EXISTING IRRIGATION, SANITARY SEWER, STORM DRAIN SYSTEMS, ETC. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS.

## SURVEY NOTES

### UTILITY NOTE

THE UTILITIES EXISTING ON THE SURFACE AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. ALL UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE FROM VISUAL OBSERVATION OR THE PAINT MARKINGS FROM A UTILITY LOCATOR SERVICE. THE SURVEYOR/ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THEIR COMPLETENESS, INDICATED LOCATION, OR SIZE. RECORD UTILITY LOCATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY.

BOUNDARY AND EASEMENT NOTE:

THE BOUNDARY SHOWN ON THIS MAP IS BASED ON RECORD INFORMATION DERIVED FROM THE TITLE REPORT AND FOUND BOUNDARY EVIDENCE IN THE FIELD. THIS IS NOT A RESOLVED BOUNDARY, AND MORE BOUNDARY SURVEYING WILL BE NECESSARY TO RESOLVE THE BOUNDARY.

### EASEMENT NOTE

EASEMENTS SHOWN ARE BASED ON A REVIEW OF A PRELIMINARY REPORT PREPARED BY FIRST AMERICAN TITLE COMPANY, ORDER NO. 4044580(RF), DATED APRIL 20, 2012.

FLOOD ZONE NOTE

THE SUBJECT PROPERTY LIES ENTIRELY WITHIN FLOOD ZONE "X", BASED ON FLOOD INSURANCE RATE MAP 06081C0039F, DATED APRIL 5, 2019.

### BENCHMARK:

ELEVATIONS ARE TIED TO THE CITY OF SOUTH SAN FRANCISCO STORM/SEWER SYSTEM VIA THE MIDDLE SDMH AT THE INTERSECTION OF CALLAN BLVD. AND WESTBOROUGH BLVD. TOP OF THE MANHOLE RIM ELEVATION INFORMATION WAS GIVEN BY THE CITY OF SOUTH SAN FRANCISCO PUBLIC WORKS.  
ELEVATION OF THE SDMH RIM = 531.87'.

### UTILITY NOTE

THE UTILITIES EXISTING ON THE SURFACE AND UNDERGROUND AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. OTHER UNDERGROUND UTILITIES ARE NOT SHOWN ON THIS DRAWING.

LOT AREA:

$$= 646,148 \text{ SQ. FT. } \pm$$

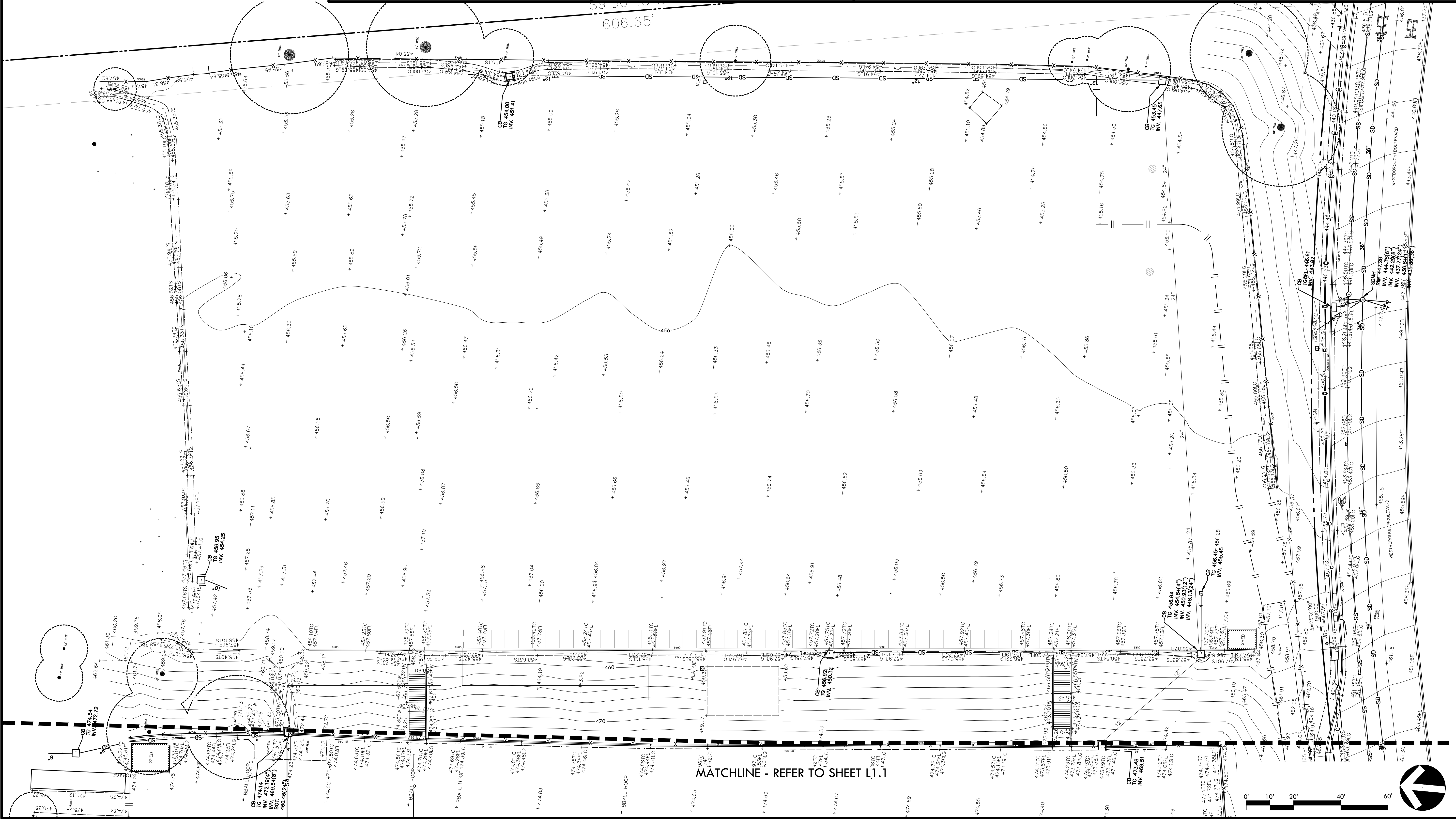
## SURVEY LEGEND

|          |                     |
|----------|---------------------|
| AC       | ASPHALT CONCRETE    |
| AD       | ADRA DRAIN          |
| BE       | BEARING             |
| BLDG COR | BUILDING CORNER     |
| C/C      | CONCRETE            |
| CB       | CATCH BASIN         |
| CH       | CHUTE               |
| CMU      | CONCRETE MASONRY    |
| ED       | EDGE OF CONCRETE    |
| EL       | ELECTRIC            |
| EP       | EDGE OF PAVEMENT    |
| FC       | FACE OF CURBS       |
| FL       | FINISH FLOOR        |
| FL       | FLOW LINE           |
| FE       | FEED                |
| FOD      | FULL OF DEBRIS      |
| G        | GRADE               |
| GB       | GROUND BREAK        |
| HE       | HEAD                |
| INV      | INVERT ELEVATION    |
| IN       | INVERT ELEVATION II |
| IEO      | INVERT ELEVATION C  |
| IP       | INVERT ELEVATION II |
| IR       | IRON PIPE           |
| LI       | LIP OF CURB         |
| LS       | LANDSCAPING         |
| LG       | LANDSCAPE HOLE      |
| M        | MONUMENT            |
| PON      | POINT ON CURVE      |
| RTWL     | RETAINING WALL      |
| TL       | TURB                |
| TEL      | TELEPHONE           |
| TOE      | BOTTOM OF SLOPE     |
| TOP      | TOP OF SLOPE        |
| TY       | TYPICAL             |
| W        | WOOD                |
| WR       | WROUGHT IRON        |

|             |                       |
|-------------|-----------------------|
| SD          | STORM DRAIN LINE      |
| SS          | SANITARY SEWER LINE   |
| W           | WATER LINE            |
| IRR         | IRRIGATION LINE       |
| FS          | FIRE SERVICE          |
| G           | GAS LINE              |
| E           | UNDERGROUND ELECTRIC  |
| OH          | OVERHEAD UTILITIES    |
| T           | TELEPHONE LINE        |
| COM         | COMMUNICATIONS LINE   |
| ?           | UNKNOWN UTILITY TRACE |
| ---         | BOUNDARY LINE         |
| - - -       | CENTER LINE           |
| - . - .     | EASEMENT LINE         |
| - - - -     | GRADE BREAK           |
| — ) — .     | FLOW LINE             |
| ○ — ○ — ○ — | HAND RAILING          |
| x — x —     | FENCE LINE            |
| — — — —     | ROOF OVERHANG         |
| — — — —     | BUILDING LINE         |
| - - - -     | TRENCH/PATCH LINE     |

|                                                                                     |                                  |
|-------------------------------------------------------------------------------------|----------------------------------|
|  | AREA DRAIN                       |
|  | CATCH BASIN                      |
|  | RAIN WATER LEADER                |
|  | RAIN WATER LEADER TO UNDERGROUND |
|  | RAIN WATER LEADER SPLASH         |
|  | STORM DRAIN MAINTENANCE HOLE     |
|  | SANITARY SEWER MAINTENANCE HOLE  |
|  | CLEAN OUT                        |
|  | HOSE BIB                         |
|  | IRRIGATION CONTROL VALVE         |
|  | WATER METER                      |
|  | WATER VALVE                      |
|  | SPRINKLER                        |
|  | FIRE HYDRANT                     |
|  | BACK FLOW PREVENTER              |
|  | FIRE DEPARTMENT CONNECTION       |
|  | POST INDICATOR VALVE             |
|  | GAS VALVE                        |
|  | MONITORING WELL                  |

|               |                                                  |
|---------------|--------------------------------------------------|
| ● 12" TREE    | TREE WITH TRUNK DIAMETER<br>AND DRIP LINE RADIUS |
|               | TREE LINE                                        |
|               | STREET LIGHT                                     |
|               | LIGHT POLE                                       |
|               | SIGN                                             |
| B ○ P ○       | BOLLARD/POLE                                     |
| Ⓟ             | JOINT POLE                                       |
| Ⓢ             | GUY POLE                                         |
|               | ANCHOR                                           |
|               | SURVEY CONTROL POINT                             |
| ●             | IRON PIPE FOUND                                  |
| Ⓢ Ⓢ           | MONUMENT FOUND                                   |
|               | BENCHMARK                                        |
| <hr/>         |                                                  |
| × 100.00      | SPOT ELEVATION WITH DESCRIPTION                  |
| — 100 —       | INDEX ELEVATION CONTOUR                          |
| — 99 —        | INTERMEDIATE ELEVATION CONTOUR                   |
| <hr/>         |                                                  |
| LIMIT OF WORK |                                                  |



MATCHLINE - REFER TO SHEET L1.1

CONSULTANT

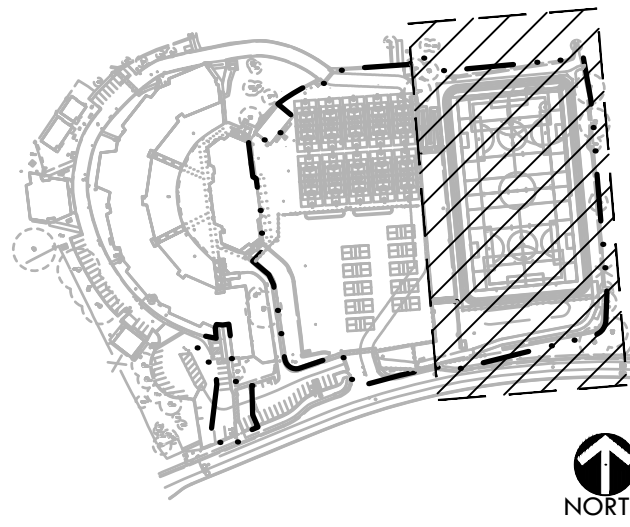


**HOHBACH-LEWIN, INC.**  
STRUCTURAL & CIVIL ENGINEERS  
260 Sheridan Avenue, Suite 150  
Palo Alto, CA 94306  
(650) 617-5930

STAMP



## KEY MAP



SHEET TITLE

## EXISTING CONDITIONS SURVEY PLAN

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

|               |         |
|---------------|---------|
| SUBMITTAL     | DATE    |
| DSA SUBMITTAL | 12/10/2 |

[illegible]

|                |                  |
|----------------|------------------|
| DRAWN BY<br>KL | CHECKED BY<br>JW |
|----------------|------------------|

|                           |                      |
|---------------------------|----------------------|
| DATE ISSUED<br>12/10/2024 | SCALE<br>1" = 20'-0" |
|---------------------------|----------------------|

|               |                  |
|---------------|------------------|
| VDI PROJ. NO. | SSFUSD PROJ. NO. |
| 2320400       | 025 860          |

SHEET NO. 110

## EXISTING CONDITIONS SURVEY PLAN



ALL IDEAS, REVIEWS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

DRAWING NAME: Y:\Projects-SC\2023\2320400 - Westborough MS Campus Improvements\CAD\L1.0 EXC.dwg  
PLOT DATE: 02-14-25 PLOTTED BY: station12

## SHEET INFO AND REFERENCE

- THIS TOPOGRAPHIC SURVEY WAS PROVIDED BY HOHBACH-LEWIN, INC. (TELEPHONE): (650) 617-5930 (ADDRESS): 260 SHERIDAN AVE, PALO ALTO, CA 94306.
- ADDITIONAL INFORMATION (SHOWN SCREENED) IS FROM RECORD DRAWINGS PROVIDED BY THE OWNER AND SITE INVESTIGATIONS BY VERDE DESIGN.
- NOTE THAT THIS IS NOT A COMPLETE UNDERGROUND SURVEY. THIS DRAWING CONTAINS ONLY PARTIAL INFORMATION FOR THE EXISTING IRRIGATION, SANITARY SEWER, STORM DRAIN SYSTEMS, ETC. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS.

### UTILITY NOTE:

THE UTILITIES EXISTING ON THE SURFACE AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. ALL UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE FROM VISUAL OBSERVATION OR THE PAINT MARKINGS FROM A UTILITY LOCATOR SERVICE. THE SURVEYOR/ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THEIR COMPLETENESS, INDICATED LOCATION, OR SIZE. RECORD UTILITY LOCATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY.

### BOUNDARY AND EASEMENT NOTE:

THE BOUNDARY SHOWN ON THIS MAP IS BASED ON RECORD INFORMATION DERIVED FROM THE TITLE REPORT AND FOUND BOUNDARY EVIDENCE IN THE FIELD. THIS IS NOT A RESOLVED BOUNDARY, AND MORE BOUNDARY SURVEYING WILL BE NECESSARY TO RESOLVE THE BOUNDARY.

### EASEMENT NOTE:

EASEMENTS SHOWN ARE BASED ON A REVIEW OF A PRELIMINARY REPORT PREPARED BY FIRST AMERICAN TITLE COMPANY, ORDER NO. 4044580(RF), DATED APRIL 20, 2012.

### FLOOD ZONE NOTE:

THE SUBJECT PROPERTY LIES ENTIRELY WITHIN FLOOD ZONE "X", BASED ON FLOOD INSURANCE RATE MAP 06081 C0039F, DATED APRIL 5, 2019.

### BENCHMARK:

ELEVATIONS ARE TIED TO THE CITY OF SOUTH SAN FRANCISCO STORM/SEWER SYSTEM VIA THE MIDDLE SDMH AT THE INTERSECTION OF CALLAN BLVD. AND WESTBOROUGH BLVD. TOP OF THE MANHOLE RIM ELEVATION INFORMATION WAS GIVEN BY THE CITY OF SOUTH SAN FRANCISCO PUBLIC WORKS.

ELEVATION OF THE SDMH RIM = 531.87'.

### UTILITY NOTE:

THE UTILITIES EXISTING ON THE SURFACE AND UNDERGROUND AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. OTHER UNDERGROUND UTILITIES ARE NOT SHOWN ON THIS DRAWING.

### LOT AREA:

= 646,148 SQ. FT. ±

= 14.834 ACRES ±

## SURVEY NOTES

### UTILITY NOTE:

THE UTILITIES EXISTING ON THE SURFACE AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. ALL UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE FROM VISUAL OBSERVATION OR THE PAINT MARKINGS FROM A UTILITY LOCATOR SERVICE. THE SURVEYOR/ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THEIR COMPLETENESS, INDICATED LOCATION, OR SIZE. RECORD UTILITY LOCATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY.

### BOUNDARY AND EASEMENT NOTE:

THE BOUNDARY SHOWN ON THIS MAP IS BASED ON RECORD INFORMATION DERIVED FROM THE TITLE REPORT AND FOUND BOUNDARY EVIDENCE IN THE FIELD. THIS IS NOT A RESOLVED BOUNDARY, AND MORE BOUNDARY SURVEYING WILL BE NECESSARY TO RESOLVE THE BOUNDARY.

### EASEMENT NOTE:

EASEMENTS SHOWN ARE BASED ON A REVIEW OF A PRELIMINARY REPORT PREPARED BY FIRST AMERICAN TITLE COMPANY, ORDER NO. 4044580(RF), DATED APRIL 20, 2012.

### FLOOD ZONE NOTE:

THE SUBJECT PROPERTY LIES ENTIRELY WITHIN FLOOD ZONE "X", BASED ON FLOOD INSURANCE RATE MAP 06081 C0039F, DATED APRIL 5, 2019.

### BENCHMARK:

ELEVATIONS ARE TIED TO THE CITY OF SOUTH SAN FRANCISCO STORM/SEWER SYSTEM VIA THE MIDDLE SDMH AT THE INTERSECTION OF CALLAN BLVD. AND WESTBOROUGH BLVD. TOP OF THE MANHOLE RIM ELEVATION INFORMATION WAS GIVEN BY THE CITY OF SOUTH SAN FRANCISCO PUBLIC WORKS.

ELEVATION OF THE SDMH RIM = 531.87'.

### UTILITY NOTE:

THE UTILITIES EXISTING ON THE SURFACE AND UNDERGROUND AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. OTHER UNDERGROUND UTILITIES ARE NOT SHOWN ON THIS DRAWING.

### LOT AREA:

= 646,148 SQ. FT. ±

= 14.834 ACRES ±

## SURVEY NOTES

### UTILITY NOTE:

THE UTILITIES EXISTING ON THE SURFACE AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. ALL UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE FROM VISUAL OBSERVATION OR THE PAINT MARKINGS FROM A UTILITY LOCATOR SERVICE. THE SURVEYOR/ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THEIR COMPLETENESS, INDICATED LOCATION, OR SIZE. RECORD UTILITY LOCATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY.

### BOUNDARY AND EASEMENT NOTE:

THE BOUNDARY SHOWN ON THIS MAP IS BASED ON RECORD INFORMATION DERIVED FROM THE TITLE REPORT AND FOUND BOUNDARY EVIDENCE IN THE FIELD. THIS IS NOT A RESOLVED BOUNDARY, AND MORE BOUNDARY SURVEYING WILL BE NECESSARY TO RESOLVE THE BOUNDARY.

### EASEMENT NOTE:

EASEMENTS SHOWN ARE BASED ON A REVIEW OF A PRELIMINARY REPORT PREPARED BY FIRST AMERICAN TITLE COMPANY, ORDER NO. 4044580(RF), DATED APRIL 20, 2012.

### FLOOD ZONE NOTE:

THE SUBJECT PROPERTY LIES ENTIRELY WITHIN FLOOD ZONE "X", BASED ON FLOOD INSURANCE RATE MAP 06081 C0039F, DATED APRIL 5, 2019.

### BENCHMARK:

ELEVATIONS ARE TIED TO THE CITY OF SOUTH SAN FRANCISCO STORM/SEWER SYSTEM VIA THE MIDDLE SDMH AT THE INTERSECTION OF CALLAN BLVD. AND WESTBOROUGH BLVD. TOP OF THE MANHOLE RIM ELEVATION INFORMATION WAS GIVEN BY THE CITY OF SOUTH SAN FRANCISCO PUBLIC WORKS.

ELEVATION OF THE SDMH RIM = 531.87'.

### UTILITY NOTE:

THE UTILITIES EXISTING ON THE SURFACE AND UNDERGROUND AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. OTHER UNDERGROUND UTILITIES ARE NOT SHOWN ON THIS DRAWING.

### LOT AREA:

= 646,148 SQ. FT. ±

= 14.834 ACRES ±

## SURVEY LEGEND

AC ASPHALT CONCRETE  
AD AREA DRAIN  
BC BEGIN CURVE  
BLDG COR BUILDING CORNER  
C/C CONCRETE  
CB CATCH BASIN  
CLF CHAIN LINK FENCE  
CMU CONCRETE MASONRY WALL  
EC EDGE OF CONCRETE  
EL ELECTRIC  
EP EDGE OF PAVEMENT  
FC FACE OF CURB  
FF FINISH FLOOR  
FL FLOW LINE  
FNC FENCE  
FOD FULL OF DEBRIS  
G GROUND  
GB GRADE BREAK  
HDBD HEADERBOARD  
INV INVERT ELEVATION  
IE INVERT ELEVATION IN  
IEO INVERT ELEVATION OUT  
IET INVERT ELEVATION THRU  
IP IRON PIPE  
LG LIP OF GUTTER  
LS LANDSCAPING  
MH MAINTENANCE HOLE  
MON MONUMENT  
POC POINT ON CURVE  
RTWL RETAINING WALL  
TC TOP OF CURB  
TB TELEPHONE  
TOE TOP OF SLOPE  
TOP TOP OF SLOPE  
TYP TYPICAL  
WD WOOD  
WR WROUGHT IRON

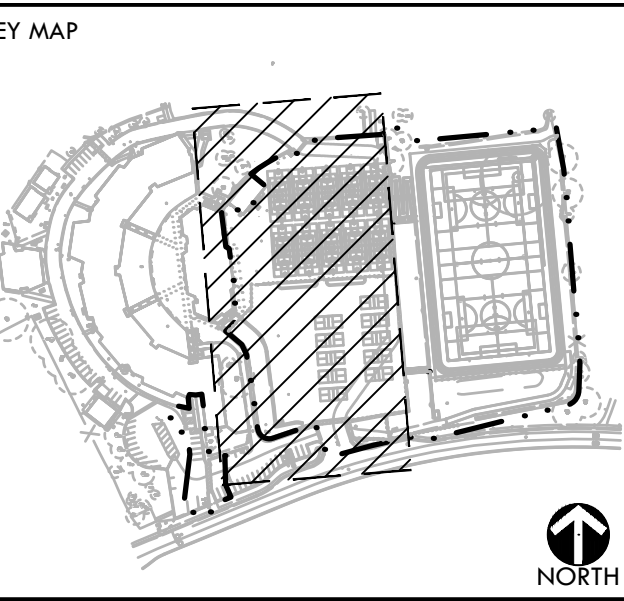
SD STORM DRAIN LINE  
SS SANITARY SEWER LINE  
W WATER LINE  
IRR IRRIGATION LINE  
FS FIRE SERVICE  
G GAS LINE  
E UNDERGROUND ELECTRIC  
OH OVERHEAD UTILITIES  
T TELEPHONE LINE  
COM COMMUNICATIONS LINE  
? UNKNOWN UTILITY TRACE  
BOUNDARY LINE  
CENTER LINE  
EASEMENT LINE  
GRADE BREAK  
FLOW LINE  
FENCE LINE  
ROOF OVERHANG  
BUILDING LINE  
TRENCH/PATCH LINE

AD AREA DRAIN  
CB CATCH BASIN  
RWL RAIN WATER LEADER  
RWLUG RAIN WATER LEADER TO UNDERGROUND  
RWLS RAIN WATER LEADER SPLASH  
SDMH STORM DRAIN MAINTENANCE HOLE  
SSMH SANITARY SEWER MAINTENANCE HOLE  
CO CLEAN OUT  
HB HOSE BIB  
ICV IRRIGATION CONTROL VALVE  
W WATER METER  
WV WATER VALVE  
SPK SPRINKLER  
FIRE HYDRANT  
BACK FLOW PREVENTER  
FIRE DEPARTMENT CONNECTION  
POST INDICATOR VALVE  
GAS VALVE  
MONITORING WELL

12" TREE TREE WITH TRUNK DIAMETER AND DRIP LINE RADIUS  
TREE LINE  
STREET LIGHT  
LIGHT POLE  
SIGN  
BOLLARD/POLE  
JOINT POLE  
GUY POLE  
ANCHOR  
SURVEY CONTROL POINT  
IRON PIPE FOUND  
MONUMENT FOUND  
BENCHMARK  
SPOT ELEVATION WITH DESCRIPTION  
INDEX ELEVATION CONTOUR  
INTERMEDIATE ELEVATION CONTOUR  
LIMIT OF WORK

MATCHLINE - REFER TO SHEET L1.0

MATCHLINE - REFER TO SHEET L1.2



SHEET TITLE  
**EXISTING CONDITIONS  
SURVEY PLAN**

PROJECT NAME  
**WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS**

PROJECT ADDRESS  
**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

SUBMITTAL  
DATE

DSA SUBMITTAL  
12/10/24

| NO. | REVISIONS | DATE |
|-----|-----------|------|
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |

DRAWN BY  
**KL**

CHECKED BY  
**JW**

DATE ISSUED  
**12/10/2024**

SCALE  
**1" = 20'-0"**

VDI PROJ. NO.  
**2320400**

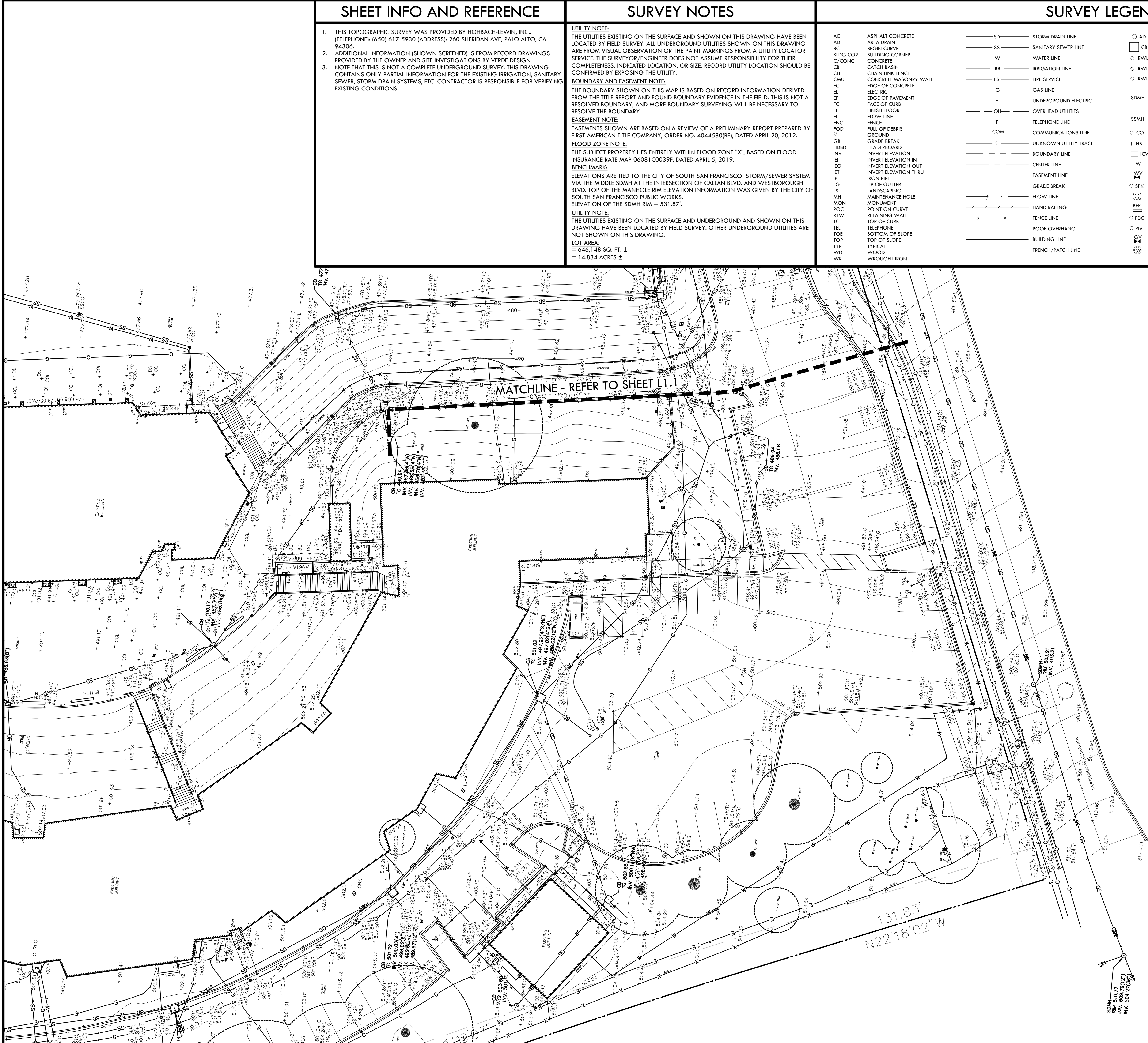
SSFUSD PROJ. NO.  
**025-960**

SHEET NO.  
**L1.1**

EXISTING CONDITIONS SURVEY PLAN



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



## SHEET INFO AND REFERENCE

- THIS TOPOGRAPHIC SURVEY WAS PROVIDED BY HOHBACH-LEWIN, INC. (TELEPHONE): (650) 617-5930 (ADDRESS): 260 SHERIDAN AVE, PALO ALTO, CA 94306.
- ADDITIONAL INFORMATION (SHOWN SCREENED) IS FROM RECORD DRAWINGS PROVIDED BY THE OWNER AND SITE INVESTIGATIONS BY VERDE DESIGN.
- NOTE THAT THIS IS NOT A COMPLETE UNDERGROUND SURVEY. THIS DRAWING CONTAINS ONLY PARTIAL INFORMATION FOR THE EXISTING IRRIGATION, SANITARY SEWER, STORM DRAIN SYSTEMS, ETC. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS.

## SURVEY NOTES

### UTILITY NOTE:

THE UTILITIES EXISTING ON THE SURFACE AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. ALL UNDERGROUND UTILITIES SHOWN ON THIS DRAWING ARE FROM VISUAL OBSERVATION OR THE PAINT MARKINGS FROM A UTILITY LOCATOR SERVICE. THE SURVEYOR/ENGINEER DOES NOT ASSUME RESPONSIBILITY FOR THEIR COMPLETENESS, INDICATED LOCATION, OR SIZE. RECORD UTILITY LOCATION SHOULD BE CONFIRMED BY EXPOSING THE UTILITY.

### BOUNDARY AND EASEMENT NOTE:

THE BOUNDARY SHOWN ON THIS MAP IS BASED ON RECORD INFORMATION DERIVED FROM THE TITLE REPORT AND FOUND BOUNDARY EVIDENCE IN THE FIELD. THIS IS NOT A RESOLVED BOUNDARY, AND MORE BOUNDARY SURVEYING WILL BE NECESSARY TO RESOLVE THE BOUNDARY.

### EASEMENT NOTE:

EASEMENTS SHOWN ARE BASED ON A REVIEW OF A PRELIMINARY REPORT PREPARED BY FIRST AMERICAN TITLE COMPANY, ORDER NO. 4044580(RF), DATED APRIL 20, 2012.

### FLOOD ZONE NOTE:

THE SUBJECT PROPERTY LIES ENTIRELY WITHIN FLOOD ZONE "X", BASED ON FLOOD INSURANCE RATE MAP 06081C0039F, DATED APRIL 5, 2019.

### BENCHMARK:

ELEVATIONS ARE TIED TO THE CITY OF SOUTH SAN FRANCISCO STORM/SEWER SYSTEM VIA THE MIDDLE SDMH AT THE INTERSECTION OF CALLAN BLVD. AND WESTBOROUGH BLVD. TOP OF THE MANHOLE RIM ELEVATION INFORMATION WAS GIVEN BY THE CITY OF SOUTH SAN FRANCISCO PUBLIC WORKS.

ELEVATION OF THE SDMH RIM = 531.87'.

### UTILITY NOTE:

THE UTILITIES EXISTING ON THE SURFACE AND UNDERGROUND AND SHOWN ON THIS DRAWING HAVE BEEN LOCATED BY FIELD SURVEY. OTHER UNDERGROUND UTILITIES ARE NOT SHOWN ON THIS DRAWING.

### LOT AREA:

= 646,148 SQ. FT. ±

= 14.834 ACRES ±

## SURVEY LEGEND

|          |                       |      |                       |
|----------|-----------------------|------|-----------------------|
| AC       | ASPHALT CONCRETE      | SD   | STORM DRAIN LINE      |
| AD       | AREA DRAIN            | SS   | SANITARY SEWER LINE   |
| BC       | BEGIN CURVE           | W    | WATER LINE            |
| BLDG COR | BUILDING CORNER       | IRR  | IRRIGATION LINE       |
| C/CONC   | CONCRETE              | FS   | FIRE SERVICE          |
| CL       | CATCH BASIN           | G    | GAS LINE              |
| CLF      | CHAIN LINK FENCE      | E    | UNDERGROUND ELECTRIC  |
| CMU      | CONCRETE MASONRY WALL | OH   | OVERHEAD UTILITIES    |
| EC       | EDGE OF CONCRETE      | T    | TELEPHONE LINE        |
| EL       | ELECTRIC              | COM  | COMMUNICATIONS LINE   |
| EP       | EDGE OF PAVEMENT      | ?    | UNKNOWN UTILITY TRACE |
| FC       | FACE OF CURB          | BL   | BOUNDARY LINE         |
| FF       | FINISH FLOOR          | CL   | CENTER LINE           |
| FL       | FLOW LINE             | EL   | EASEMENT LINE         |
| FNC      | FENCE                 | GB   | GRADE BREAK           |
| FOD      | FULL OF DEBRIS        | MB   | MAINTENANCE HOLE      |
| G        | GROUND                | LG   | LIP OF GUTTER         |
| GB       | GRADE BREAK           | LS   | LANDSCAPING           |
| HDBD     | HEADERBOARD           | MH   | MANHOLE               |
| INV      | INVERT ELEVATION      | MON  | MONUMENT              |
| IR       | INVERT ELEVATION IN   | POC  | POINT ON CURVE        |
| IEO      | INVERT ELEVATION OUT  | RTWL | RETAINING WALL        |
| IET      | INVERT ELEVATION THRU | T    | TOP OF CURB           |
| IP       | IRON PIPE             | TE   | TELEPHONE             |
| LG       | LIP OF GUTTER         | TOE  | TOE OF SLOPE          |
| LS       | LANDSCAPING           | TOP  | TOP OF SLOPE          |
| MH       | MANHOLE               | TYP  | TYPICAL               |
| MON      | MONUMENT              | WD   | WOOD                  |
| POC      | POINT ON CURVE        | WR   | WROUGHT IRON          |
| RTWL     | RETAINING WALL        |      |                       |
| T        | TOP OF CURB           |      |                       |
| TE       | TELEPHONE             |      |                       |
| TOE      | TOE OF SLOPE          |      |                       |
| TOP      | TOP OF SLOPE          |      |                       |
| TYP      | TYPICAL               |      |                       |
| WD       | WOOD                  |      |                       |
| WR       | WROUGHT IRON          |      |                       |

|      |                                  |      |                                 |
|------|----------------------------------|------|---------------------------------|
| AD   | AREA DRAIN                       | SDMH | STORM DRAIN MAINTENANCE HOLE    |
| CB   | CATCH BASIN                      | SSMH | SANITARY SEWER MAINTENANCE HOLE |
| RWL  | RAIN WATER LEADER                | CO   | CLEAN OUT                       |
| RWLG | RAIN WATER LEADER TO UNDERGROUND | HB   | HOSE BIB                        |
| RWLS | RAIN WATER LEADER SPLASH         | ICV  | IRRIGATION CONTROL VALVE        |
|      |                                  | W    | WATER METER                     |
|      |                                  | WV   | WATER VALVE                     |
|      |                                  | SPK  | SPRINKLER                       |
|      |                                  | FH   | FIRE HYDRANT                    |
|      |                                  | BFP  | BACK FLOW PREVENTER             |
|      |                                  | FDC  | FIRE DEPARTMENT CONNECTION      |
|      |                                  | PV   | POST INDICATOR VALVE            |
|      |                                  | GV   | GAS VALVE                       |
|      |                                  | W    | MONITORING WELL                 |

|                      |                                               |
|----------------------|-----------------------------------------------|
| 12" TREE             | TREE WITH TRUNK DIAMETER AND DRIP LINE RADIUS |
| TREE LINE            | TREE LINE                                     |
| STREET LIGHT         | STREET LIGHT                                  |
| LIGHT POLE           | LIGHT POLE                                    |
| SIGN                 | SIGN                                          |
| BOLLARD/POLE         | BOLLARD/POLE                                  |
| JOINT POLE           | JOINT POLE                                    |
| GUY POLE             | GUY POLE                                      |
| ANCHOR               | ANCHOR                                        |
| SURVEY CONTROL POINT | SURVEY CONTROL POINT                          |
| IRON PIPE FOUND      | IRON PIPE FOUND                               |
| MONUMENT FOUND       | MONUMENT FOUND                                |
| BENCHMARK            | BENCHMARK                                     |

|                                 |                         |                                |               |
|---------------------------------|-------------------------|--------------------------------|---------------|
| SPOT ELEVATION WITH DESCRIPTION | INDEX ELEVATION CONTOUR | INTERMEDIATE ELEVATION CONTOUR | LIMIT OF WORK |
|---------------------------------|-------------------------|--------------------------------|---------------|

**HOHBACH-LEWIN, INC.**  
STRUCTURAL & CIVIL ENGINEERS  
260 Sheridan Avenue, Suite 150  
Palo Alto, CA 94306  
(650) 617-5930

STAMP

KEY MAP

SHEET TITLE

**EXISTING CONDITIONS SURVEY PLAN**

PROJECT NAME

**WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS**

PROJECT ADDRESS

**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |
|               |          |
|               |          |
|               |          |
|               |          |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
| 1   |           |      |
| 2   |           |      |
| 3   |           |      |
| 4   |           |      |
| 5   |           |      |
| 6   |           |      |
| 7   |           |      |
| 8   |           |      |
| 9   |           |      |
| 10  |           |      |

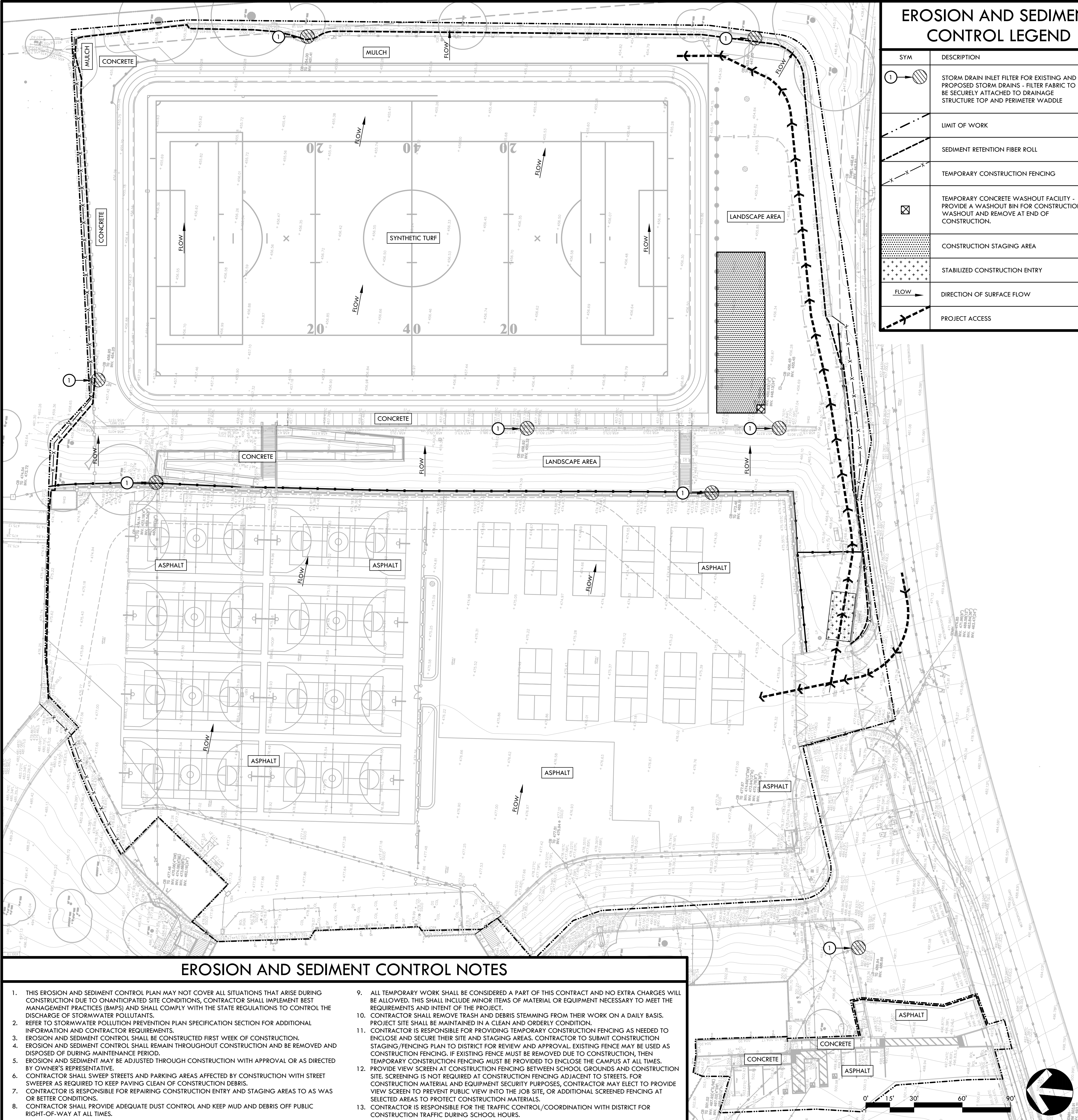
|               |                  |
|---------------|------------------|
| DRAWN BY      | CHECKED BY       |
| KL            | JW               |
| DATE ISSUED   | SCALE            |
| 12/10/2024    | 1" = 20'-0"      |
| VDI PROJ. NO. | SSFUSD PROJ. NO. |
| 2320400       | 025-960          |
| SHEET NO.     |                  |

**L1.2**

**EXISTING CONDITIONS SURVEY PLAN**

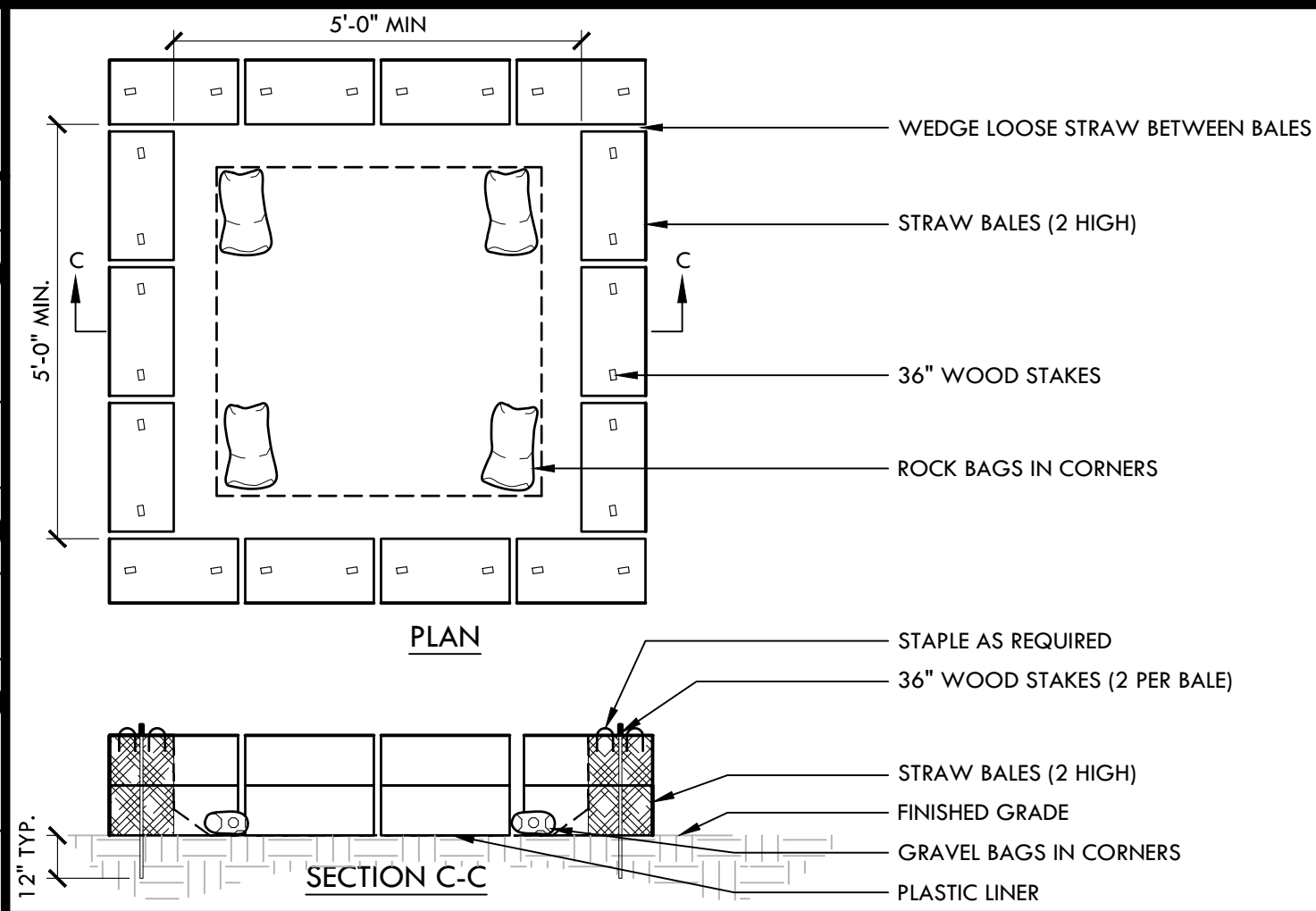


ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

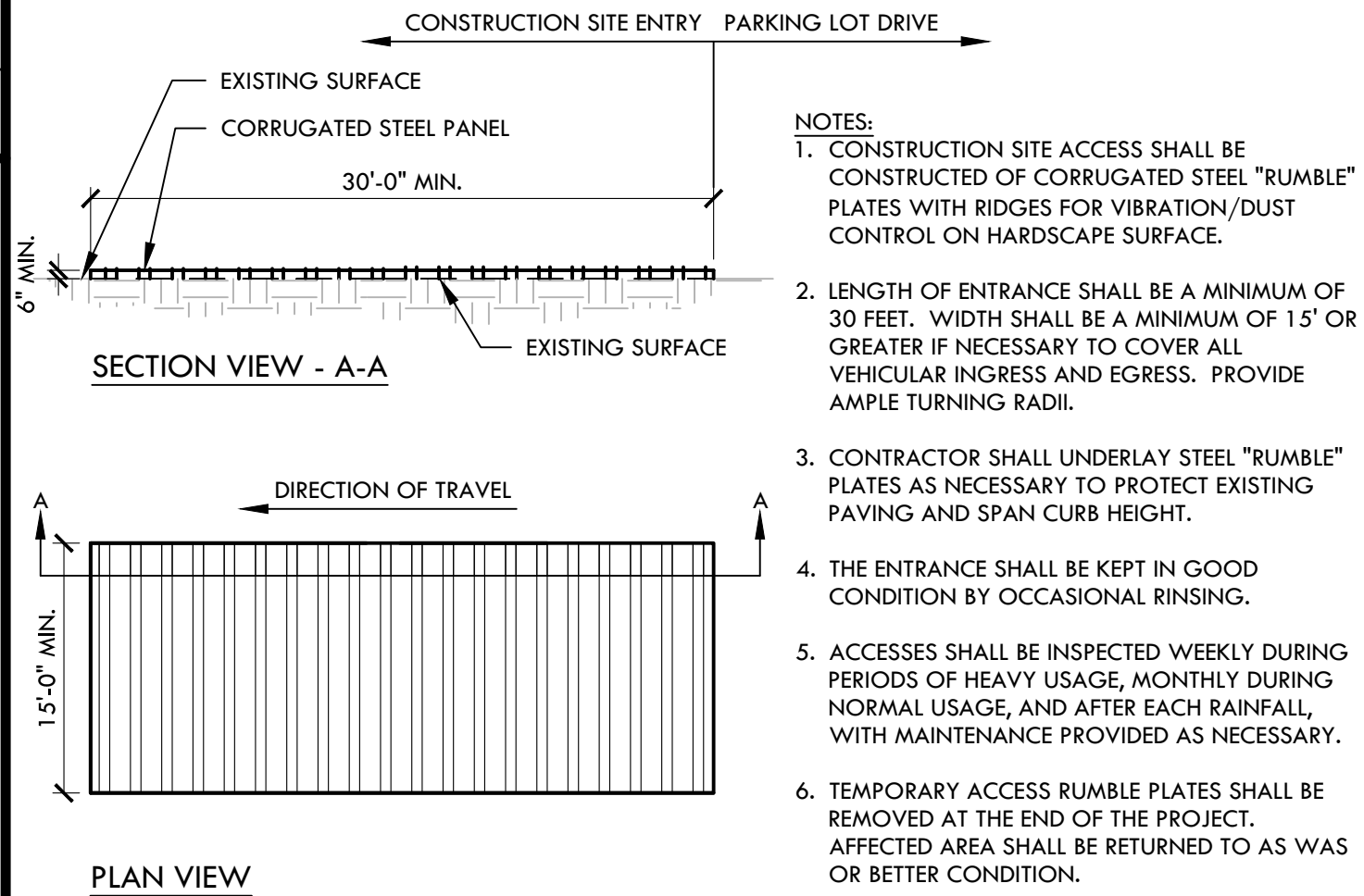


## EROSION AND SEDIMENT CONTROL LEGEND

| SYM  | DESCRIPTION                                                                                                                                            | DTL REF |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1    | STORM DRAIN INLET FILTER FOR EXISTING AND PROPOSED STORM DRAINS - FILTER FABRIC TO BE SECURELY ATTACHED TO DRAINAGE STRUCTURE TOP AND PERIMETER WADDLE | B       |
|      | LIMIT OF WORK                                                                                                                                          |         |
|      | SEDIMENT RETENTION FIBER ROLL                                                                                                                          | A       |
| X    | TEMPORARY CONSTRUCTION FENCING                                                                                                                         |         |
|      | TEMPORARY CONCRETE WASHOUT FACILITY - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.                                | D       |
|      | CONSTRUCTION STAGING AREA                                                                                                                              |         |
|      | STABILIZED CONSTRUCTION ENTRY                                                                                                                          | C       |
| FLOW | DIRECTION OF SURFACE FLOW                                                                                                                              |         |
|      | PROJECT ACCESS                                                                                                                                         |         |

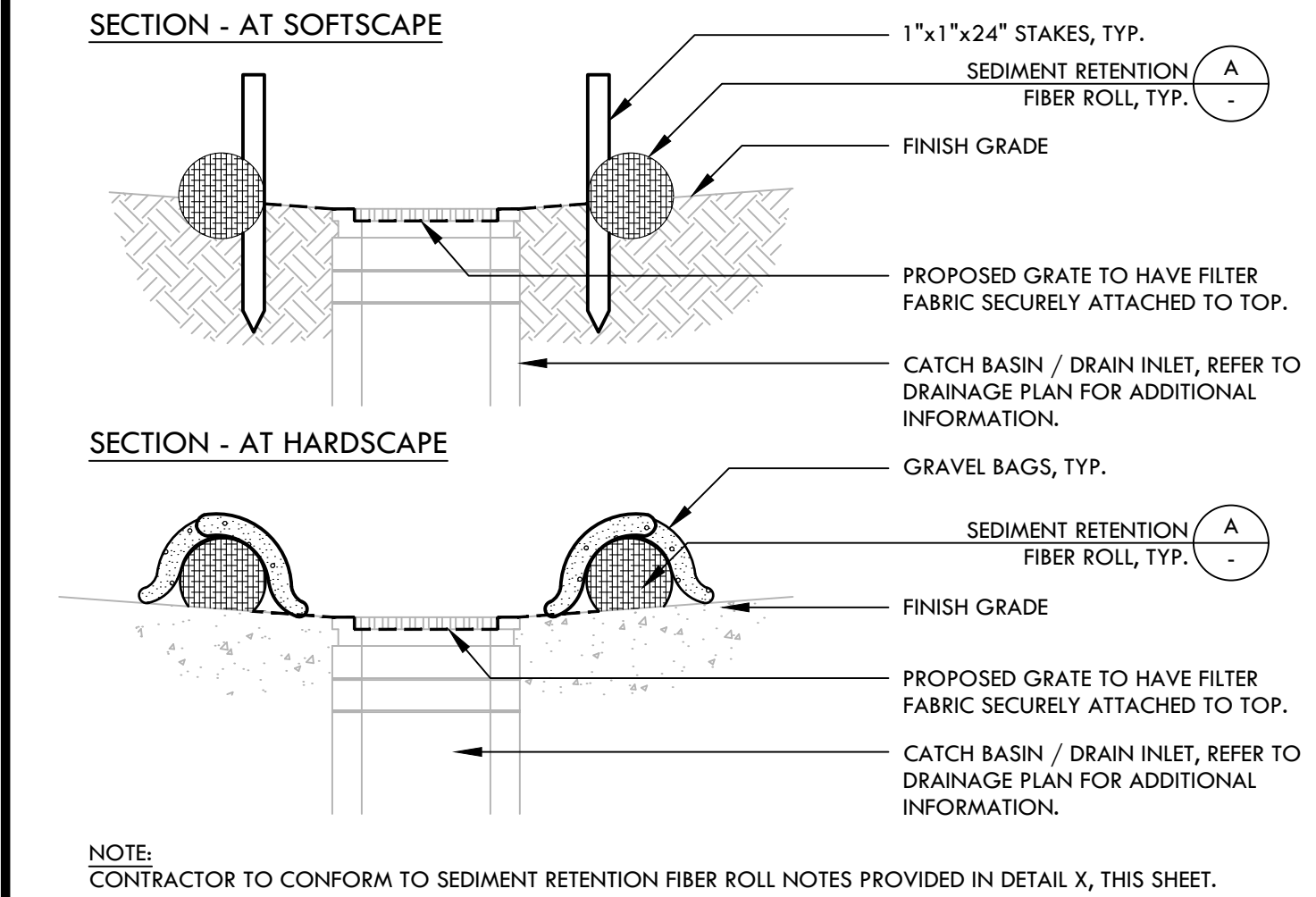


## D TEMPORARY CONCRETE WASHOUT FACILITY



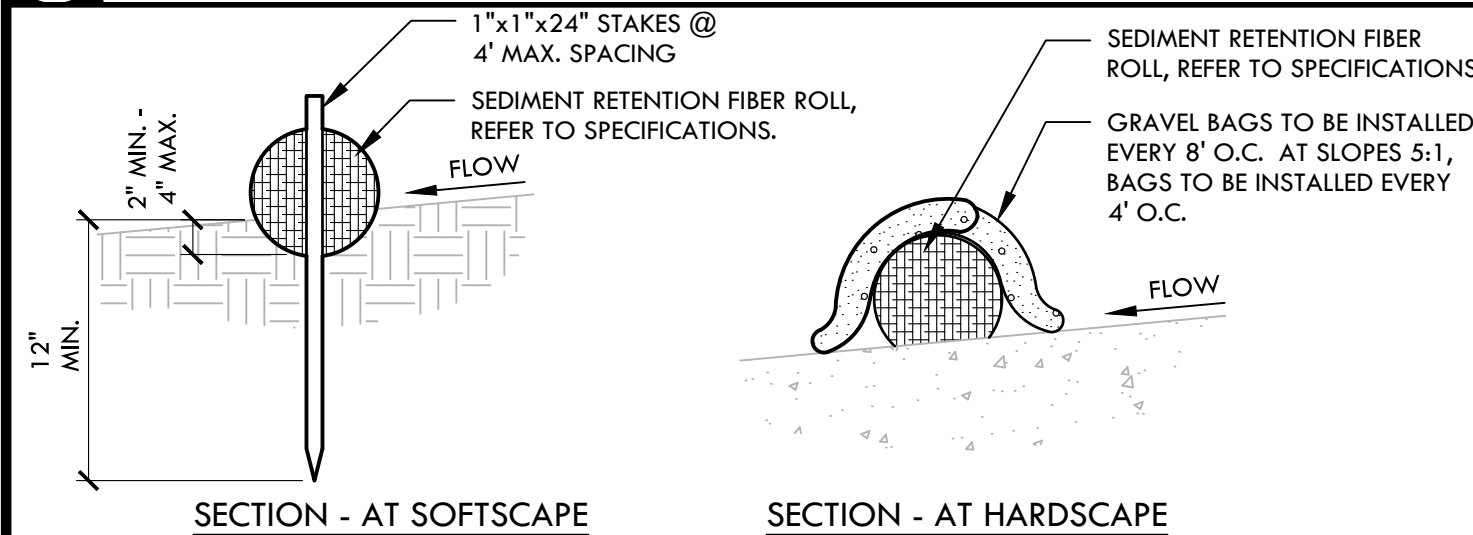
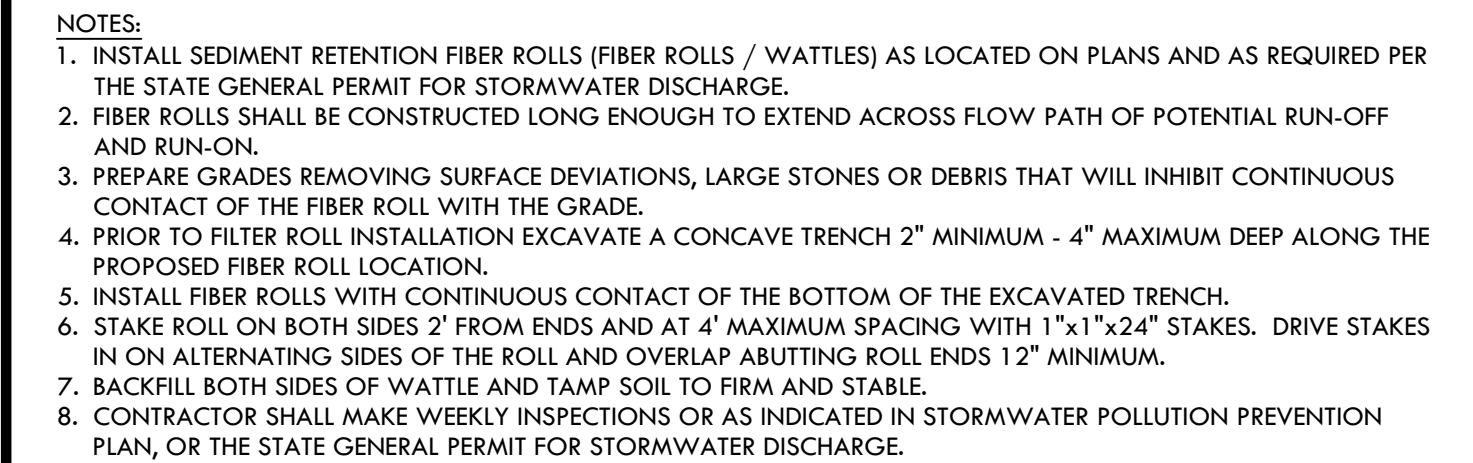
## C RUMBLE PLATE CONSTRUCTION ENTRY

NTS



## B STORM DRAIN INLET FILTER FOR EXISTING AND PROPOSED STORM DRAINS

NTS

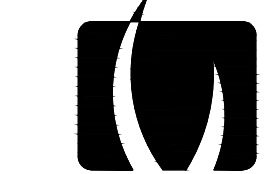


## A SEDIMENT RETENTION FIBER ROLL

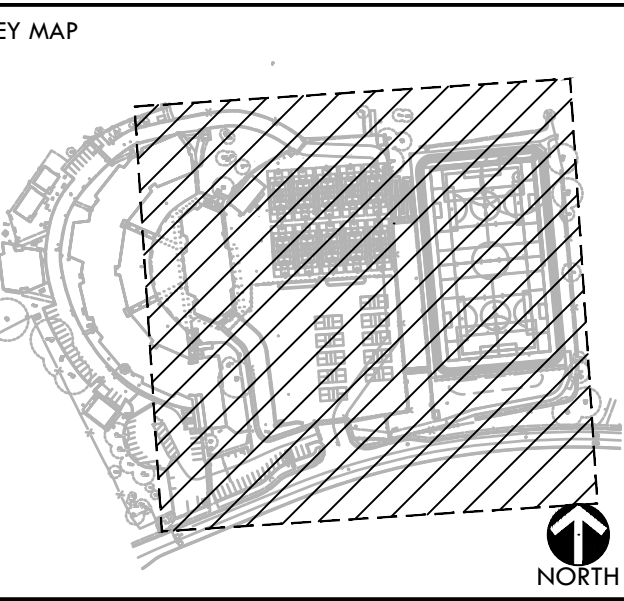
NTS

## EROSION AND SEDIMENT CONTROL NOTES

- THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED SITE CONDITIONS, CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMPs) AND SHALL COMPLY WITH THE STATE REGULATIONS TO CONTROL THE DISCHARGE OF STORMWATER POLLUTANTS.
- REFER TO STORMWATER POLLUTION PREVENTION PLAN SPECIFICATION SECTION FOR ADDITIONAL INFORMATION AND CONTRACTOR REQUIREMENTS.
- EROSION AND SEDIMENT CONTROL SHALL BE CONSTRUCTED FIRST WEEK OF CONSTRUCTION.
- EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
- EROSION AND SEDIMENT MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING CONSTRUCTION ENTRY AND STAGING AREAS TO AS WAS OR BETTER CONDITIONS.
- CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF PUBLIC RIGHT-OF-WAY AT ALL TIMES.
- ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- CONTRACTOR SHALL REMOVE TRASH AND DEBRIS STEWMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY CONSTRUCTION FENCING AS NEEDED TO ENCLOSE AND SECURE THEIR SITE AND STAGING AREAS. CONTRACTOR TO SUBMIT CONSTRUCTION STAGING/FENCING PLAN TO DISTRICT FOR REVIEW AND APPROVAL. EXISTING FENCE MAY BE USED AS CONSTRUCTION FENCING. IF EXISTING FENCE MUST BE REMOVED DUE TO CONSTRUCTION, THEN TEMPORARY CONSTRUCTION FENCING MUST BE PROVIDED TO ENCLOSE THE CAMPUS AT ALL TIMES.
- PROVIDE VIEW SCREEN AT CONSTRUCTION FENCING BETWEEN SCHOOL GROUNDS AND CONSTRUCTION SITE. SCREENING IS NOT REQUIRED AT CONSTRUCTION FENCING ADJACENT TO STREETS. FOR CONSTRUCTION MATERIAL AND EQUIPMENT SECURITY PURPOSES, CONTRACTOR MAY ELECT TO PROVIDE VIEW SCREEN TO PREVENT PUBLIC VIEW INTO THE JOB SITE, OR ADDITIONAL SCREENED FENCING AT SELECTED AREAS TO PROTECT CONSTRUCTION MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR THE TRAFFIC CONTROL/COORDINATION WITH DISTRICT FOR CONSTRUCTION TRAFFIC DURING SCHOOL HOURS.



**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN  
2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesign.com



SHEET TITLE

## EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME  
**WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS**

PROJECT ADDRESS  
**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

SUBMITTAL DATE  
12/10/24

NO. REVISIONS DATE

NO. REVISIONS DATE

NO. REVISIONS DATE

NO. REVISIONS DATE

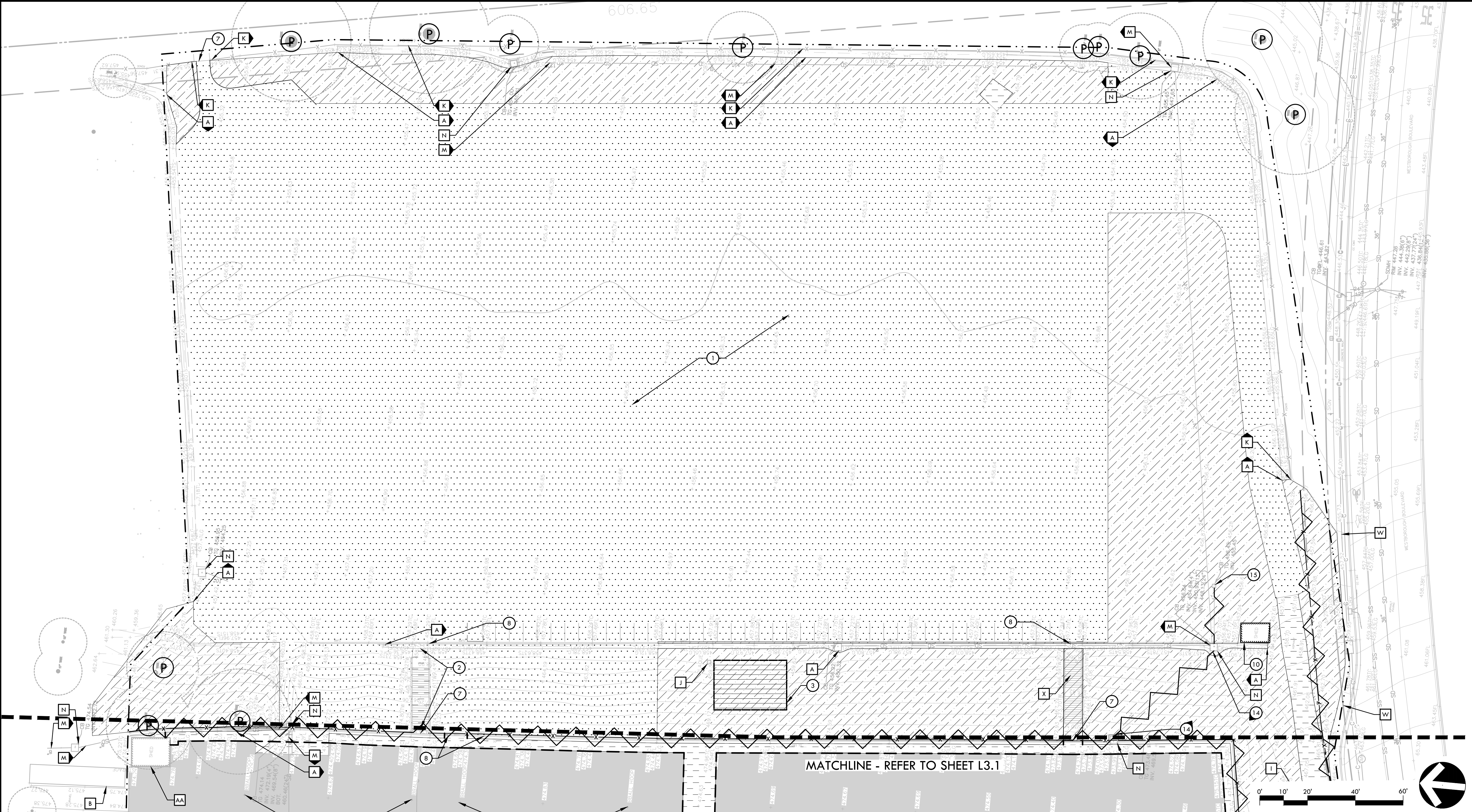
NO. REVISIONS DATE

NO. REVISIONS DATE



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

| DEMOLITION ITEMS                                                                                                                                                       |                                                                                                                                                           |                                                                                                                                                                                                                                     | DEMOLITION LEGEND           |                                                                                                                                                                                                                                                                                                 | DEMOLITION NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ITEMS TO BE PROTECTED OR RELOCATED                                                                                                                                     |                                                                                                                                                           | ITEMS TO BE DEMOLISHED AND/OR REMOVED                                                                                                                                                                                               | SYM                         | DESCRIPTION                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <div><div>N</div>EXISTING STORM DRAIN INLET/CATCH BASIN TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL RAISE DRAINS TO NEW FINISH GRADE ELEVATIONS (AS APPLICABLE)</div> | <div><div>"SEE SHEET L3.2 FOR IMAGES OF SELECTED ITEMS"</div></div>                                                                                       | <div><div>1</div>EXISTING IRRIGATION HEADS AND VALVES WITHIN FIELD SHALL BE REMOVED AND TURNED OVER TO DISTRICT. ALL IRRIGATION LATERAL LINES TO BE DEMOLISHED AND REMOVED.</div>                                                   | <div><div>---</div></div>   | <div>LIMIT OF WORK / CONSTRUCTION FENCING</div>                                                                                                                                                                                                                                                 | <div>5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.</div>                                                                                                                                                                                                                                                                                                                                      |  |
| <div><div>O</div>EXISTING COMMUNICATIONS BOX TO REMAIN AND BE PROTECTED</div>                                                                                          | <div><div>A</div>EXISTING CONCRETE SWALE, INCLUDING DRAINAGE STRUCTURES TO REMAIN AND BE PROTECTED.</div>                                                 | <div><div>2</div>EXISTING CONCRETE STAIRS AND HANDRAILS, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED.</div>                                                                                                               | <div><div>.....</div></div> | <div>EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. CLEAR AND GRUB IN AREAS WHERE SYNTHETIC TURF OR PAVING WILL BE INSTALLED. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE PER GEOTECHNICAL REPORT. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE.</div> | <div>6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). ALL FENCING SHALL INCLUDE FULL HEIGHT SCREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.</div>                                                                                                                                                                                                                                        |  |
| <div><div>P</div>EXISTING TRENCH DRAIN TO REMAIN AND BE PROTECTED</div>                                                                                                | <div><div>B</div>EXISTING SHED TO REMAIN AND BE PROTECTED</div>                                                                                           | <div><div>3</div>EXISTING BLEACHERS, ASSOCIATED STRUCTURES AND FOOTINGS TO BE DEMOLISHED AND REMOVED</div>                                                                                                                          | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                | <div>7. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE DISTRICT'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <div><div>Q</div>EXISTING GAS LINE TO REMAIN AND BE PROTECTED</div>                                                                                                    | <div><div>C</div>EXISTING SIGN AND POST TO REMAIN AND BE PROTECTED</div>                                                                                  | <div><div>4</div>EXISTING LIGHT POSTS AND FOOTINGS TO BE DEMOLISHED AND REMOVED.</div>                                                                                                                                              | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                | <div>8. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <div><div>R</div>EXISTING ELECTRICAL LINE TO REMAIN AND BE PROTECTED</div>                                                                                             | <div><div>D</div>EXISTING "WESTBOROUGH MIDDLE SCHOOL" SIGN TO REMAIN AND BE PROTECTED</div>                                                               | <div><div>5</div>EXISTING ACCESSIBLE RAMP, HANDRAILS AND FOOTINGS TO BE DEMOLISHED AND REMOVED</div>                                                                                                                                | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                | <div>9. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.</div> |  |
| <div><div>S</div>EXISTING WATER LINE TO REMAIN AND BE PROTECTED</div>                                                                                                  | <div><div>E</div>EXISTING SEWER STRUCTURE TO REMAIN AND BE PROTECTED. ADJUST RIM TO NEW FINISH GRADE AS NEEDED.</div>                                     | <div><div>6</div>EXISTING CURB AND GUTTER, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED</div>                                                                                                                              | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <div><div>T</div>EXISTING COMMUNICATIONS GAS LINE TO REMAIN AND BE PROTECTED</div>                                                                                     | <div><div>F</div>EXISTING SEWER LINE TO REMAIN AND BE PROTECTED</div>                                                                                     | <div><div>7</div>EXISTING GATE TO BE DEMOLISHED AND REMOVED</div>                                                                                                                                                                   | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <div><div>U</div>EXISTING BUILDING AND RAMPS TO REMAIN AND BE PROTECTED</div>                                                                                          | <div><div>G</div>EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED</div>                                                                                   | <div><div>8</div>EXISTING CURB AND SWALE TO BE DEMOLISHED AND REMOVED AT LOCATION OF NEW RAMP AND STAIRS.</div>                                                                                                                     | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <div><div>V</div>"EXISTING BACKFLOW PREVENTER AT PARKING LOT (INCLUDING SURROUNDING BOLLARDS) AND WATER VAULT TO REMAIN AND BE PROTECTED</div>                         | <div><div>H</div>EXISTING PG&amp;E TRANSFORMER PAD AND CHAIN LINK FENCE ENCLOSURE TO REMAIN AND BE PROTECTED</div>                                        | <div><div>9</div>EXISTING BASKETBALL GOAL, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.</div>                                                                                                                                     | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <div><div>W</div>EXISTING HARDSCAPE TO REMAIN AND BE PROTECTED</div>                                                                                                   | <div><div>I</div>"EXISTING BACKFLOW PREVENTER AT ENTRY AND WATER VAULT TO REMAIN AND BE PROTECTED. CAGE TO BE DEMOLISHED AND REPLACED WITH NEW CAGE</div> | <div><div>10</div>EXISTING SHED TO BE DEMOLISHED AND REMOVED. DEMOLISH CONCRETE BASE AND FOUNDATION</div>                                                                                                                           | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <div><div>X</div>EXISTING STAIRS TO REMAIN AND BE PROTECTED</div>                                                                                                      | <div><div>J</div>"deLARIOS FIELD" PLAQUE TO REMAIN AND BE PROTECTED</div>                                                                                 | <div><div>11</div>EXISTING FENCE TO BE DEMOLISHED AND REMOVED. CUT POSTS AT EXISTING FINISH SURFACE, GROUT AND GRIND SMOOTH. EXISTING CURB TO REMAIN IN PLACE. NEW FENCE LINE WILL GO ON THE COURT SIDE OF THE EXISTING CURB.</div> | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <div><div>Y</div>EXISTING SPEED BUMP TO REMAIN AND BE PROTECTED</div>                                                                                                  | <div><div>K</div>EXISTING SITE FENCING TO REMAIN AND BE PROTECTED</div>                                                                                   | <div><div>12</div>EXISTING BOLLARDS AND SIGNS TO BE DEMOLISHED AND REMOVED.</div>                                                                                                                                                   | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <div><div>Z</div>EXISTING CURB TO REMAIN AND BE PROTECTED</div>                                                                                                        | <div><div>L</div>EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED</div>                                                                                   | <div><div>13</div>EXISTING CURB TO BE DEMOLISHED AND REMOVED</div>                                                                                                                                                                  | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <div><div>AA</div>EXISTING SHED TO BE RELOCATED AND PLACED IN ORIGINAL LOCATION UPON COMPLETION OF PAVING WORK</div>                                                   | <div><div>M</div>EXISTING STORM DRAIN LINE TO REMAIN AND BE PROTECTED</div>                                                                               | <div><div>14</div>EXISTING STORM DRAIN LINE TO BE DEMOLISHED AND REMOVED. CAP AND CUT ABANDONED LINES</div>                                                                                                                         | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                                                                                                                        |                                                                                                                                                           | <div><div>15</div>EXISTING CATCH BASIN TO BE DEMOLISHED AND REMOVED</div>                                                                                                                                                           | <div><div>.....</div></div> | <div>EXISTING GRASS/ VEGETATION TO BE STRIPPED AND REMOVED</div>                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |



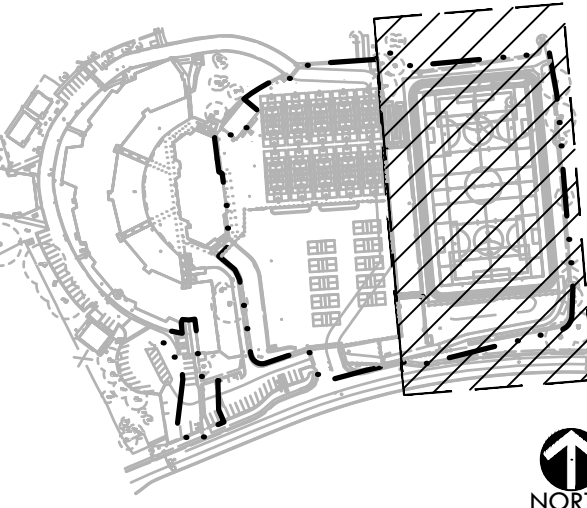


VERDE DESIGN  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN  
2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com

STAMP



KEY MAP



SHEET TITLE

DEMOLITION  
PLAN

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

|               |          |
|---------------|----------|
| SUBMITTAL     | DATE     |
| DSA SUBMITTAL | 12/10/24 |
|               |          |
|               |          |
|               |          |
|               |          |

|     |           |      |
|-----|-----------|------|
| NO. | REVISIONS | DATE |
| ▲   |           |      |
| ▲   |           |      |
| ▲   |           |      |
| ▲   |           |      |
| ▲   |           |      |
| ▲   |           |      |
| ▲   |           |      |

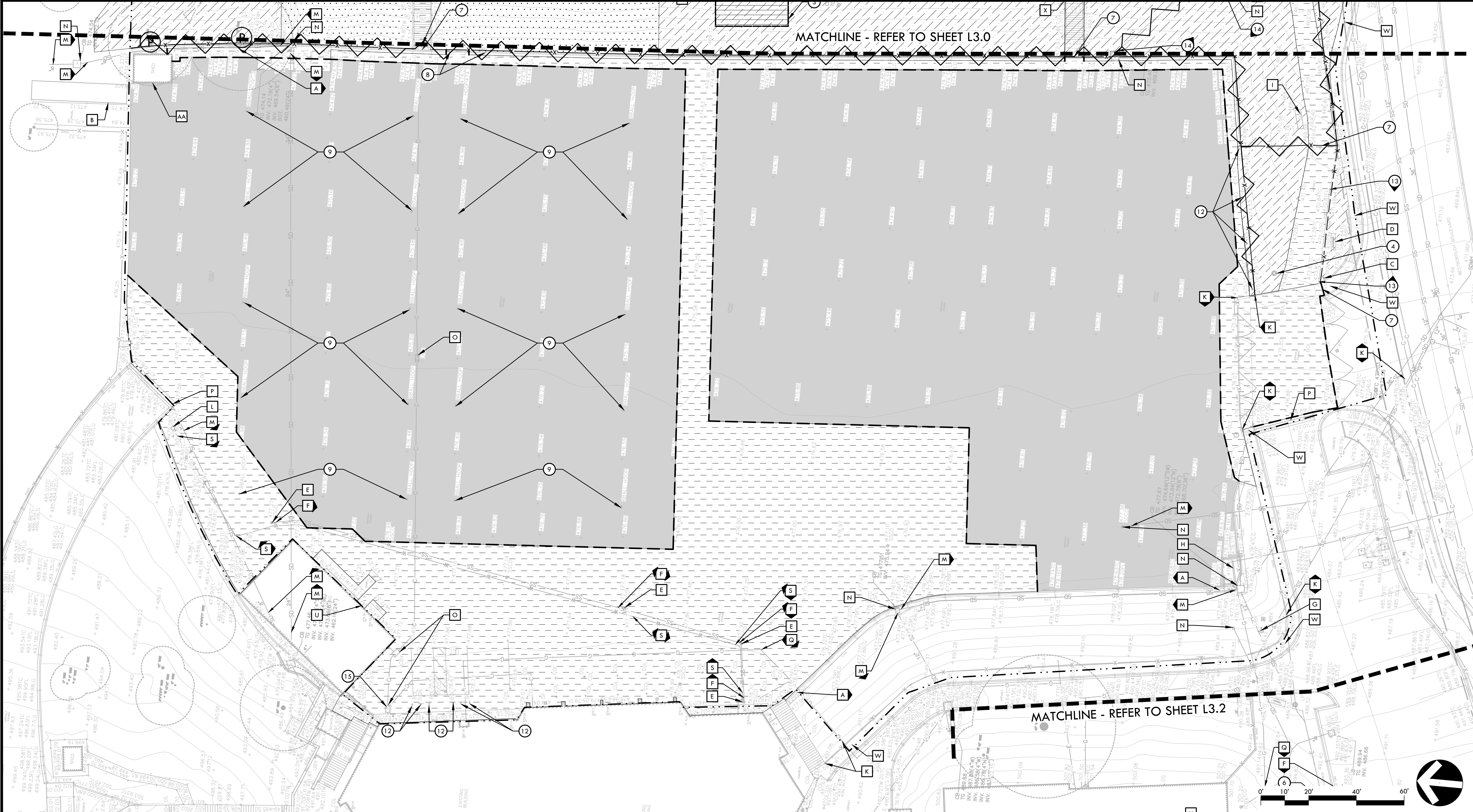
|                           |                             |
|---------------------------|-----------------------------|
| DRAWN BY<br>KL/RC         | CHECKED BY<br>JWV           |
| DATE ISSUED<br>12/10/2024 | SCALE<br>1"=20'-0"          |
| VDI PROJ. NO.<br>2320400  | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.<br>L3.0         |                             |

DEMOLITION PLAN



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

| DEMOLITION ITEMS                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                       |                                       | DEMOLITION LEGEND                                                                                                                                                                                           |                        | DEMOLITION NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ITEMS TO BE PROTECTED OR RELOCATED                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                       | ITEMS TO BE DEMOLISHED AND/OR REMOVED | SYM                                                                                                                                                                                                         | DESCRIPTION            | 5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.                                                                                               | 1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <div><div>N</div><div>O</div><div>P</div><div>Q</div><div>R</div><div>S</div><div>T</div><div>U</div><div>V</div><div>W</div><div>X</div><div>Y</div><div>Z</div><div>AA</div></div> | <div>*SEE SHEET L3.2 FOR IMAGES OF SELECTED ITEMS</div> <div><div>A</div><div>B</div><div>C</div><div>D</div><div>E</div><div>F</div><div>G</div><div>H</div><div>I</div><div>J</div><div>K</div><div>L</div><div>M</div></div>                                                                                       | 1                                     | EXISTING IRRIGATION HEADS AND VALVES WITHIN FIELD SHALL BE REMOVED AND TURNED OVER TO DISTRICT. ALL IRRIGATION LATERAL LINES TO BE DEMOLISHED AND REMOVED.                                                  | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 2                                     | EXISTING CONCRETE STAIRS AND HANDRAILS, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED.                                                                                                              | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 3                                     | EXISTING BLEACHERS, ASSOCIATED STRUCTURES AND FOOTINGS TO BE DEMOLISHED AND REMOVED                                                                                                                         | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 4                                     | EXISTING LIGHT POSTS AND FOOTINGS TO BE DEMOLISHED AND REMOVED.                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 5                                     | EXISTING ACCESSIBLE RAMP, HANDRAILS AND FOOTINGS TO BE DEMOLISHED AND REMOVED                                                                                                                               | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 6                                     | EXISTING CURB AND GUTTER, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 7                                     | EXISTING GATE TO BE DEMOLISHED AND REMOVED                                                                                                                                                                  | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 8                                     | EXISTING CURB AND SWALE TO BE DEMOLISHED AND REMOVED AT LOCATION OF NEW RAMP AND STAIRS.                                                                                                                    | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <div><div>N</div><div>O</div><div>P</div><div>Q</div><div>R</div><div>S</div><div>T</div><div>U</div><div>V</div><div>W</div><div>X</div><div>Y</div><div>Z</div><div>AA</div></div> | <div>*EXISTING BACKFLOW PREVENTER AT ENTRY AND WATER VAULT TO REMAIN AND BE PROTECTED. CAGE TO BE DEMOLISHED AND REPLACED WITH NEW CAGE</div> <div><div>A</div><div>B</div><div>C</div><div>D</div><div>E</div><div>F</div><div>G</div><div>H</div><div>I</div><div>J</div><div>K</div><div>L</div><div>M</div></div> | 9                                     | EXISTING BASKETBALL GOAL, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.                                                                                                                                    | <div><div></div></div> | 6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). ALL FENCING SHALL INCLUDE FULL HEIGHT SCREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE. | 2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 10                                    | EXISTING SHED TO BE DEMOLISHED AND REMOVED. DEMOLISH CONCRETE BASE AND FOUNDATION                                                                                                                           | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 11                                    | EXISTING FENCE TO BE DEMOLISHED AND REMOVED. CUT POSTS AT EXISTING FINISH SURFACE. GROUT AND GRIND SMOOTH. EXISTING CURB TO REMAIN IN PLACE. NEW FENCE LINE WILL GO ON THE COURT SIDE OF THE EXISTING CURB. | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 12                                    | EXISTING BOLLARDS AND SIGNS TO BE DEMOLISHED AND REMOVED.                                                                                                                                                   | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 13                                    | EXISTING CURB TO BE DEMOLISHED AND REMOVED                                                                                                                                                                  | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 14                                    | EXISTING STORM DRAIN LINE TO BE DEMOLISHED AND REMOVED. CAP AND CUT ABANDONED LINES                                                                                                                         | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       | 15                                    | EXISTING CATCH BASIN TO BE DEMOLISHED AND REMOVED                                                                                                                                                           | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <div><div>N</div><div>O</div><div>P</div><div>Q</div><div>R</div><div>S</div><div>T</div><div>U</div><div>V</div><div>W</div><div>X</div><div>Y</div><div>Z</div><div>AA</div></div> | <div>*EXISTING BACKFLOW PREVENTER AT PARKING LOT (INCLUDING SURROUNDING BOLLARDS) AND WATER VAULT TO REMAIN AND BE PROTECTED</div> <div><div>A</div><div>B</div><div>C</div><div>D</div><div>E</div><div>F</div><div>G</div><div>H</div><div>I</div><div>J</div><div>K</div><div>L</div><div>M</div></div>            |                                       |                                                                                                                                                                                                             | <div><div></div></div> | 7. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE DISTRICT'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.                                                                                                                                                                                                             | 3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <div><div>N</div><div>O</div><div>P</div><div>Q</div><div>R</div><div>S</div><div>T</div><div>U</div><div>V</div><div>W</div><div>X</div><div>Y</div><div>Z</div><div>AA</div></div> | <div>*EXISTING PG&amp;E TRANSFORMER PAD AND CHAIN LINK FENCE ENCLOSURE TO REMAIN AND BE PROTECTED</div> <div><div>A</div><div>B</div><div>C</div><div>D</div><div>E</div><div>F</div><div>G</div><div>H</div><div>I</div><div>J</div><div>K</div><div>L</div><div>M</div></div>                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> | 8. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY. |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |                                       |                                                                                                                                                                                                             | <div><div></div></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |



VERDE DESIGN

LANDSCAPE ARCHITECTURE

CIVIL ENGINEERING

SPORT PLANNING & DESIGN

2455 The Alameda

Santa Clara, CA 95050

tel: 408.985.7200

fax: 408.985.7260

www.VerdeDesignInc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER

EXTRA IN CIVIL

No. C-56494

Signature

EXPIRATION DATE: June 30, 2025

STATE OF CALIFORNIA

KEY MAP

SHEET TITLE

DEMOLITION PLAN

PROJECT NAME

WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

SUBMITTAL

DATE

DSA SUBMITTAL

12/10/24

NO.

REVISIONS

DATE

DRAWN BY

KL/RC

CHECKED BY

JW

DATE ISSUED

12/10/2024

SCALE

1"=20'-0"

VDI PROJ. NO.

2320400

SSFUSD PROJ. NO.

025-960

SHEET NO.

L3.1

DEMOLITION PLAN



## DEMOLITION ITEMS

## DEMOLITION LEGEND

## DEMOLITION NOTES

| ITEMS TO BE PROTECTED OR RELOCATED |                                                                                                                                                 | SEE SHEET L3.2 FOR IMAGES OF SELECTED ITEMS |                                                                                                                                    |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| N                                  | EXISTING STORM DRAIN INLET/CATCH BASIN TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL RAISE DRAINS TO NEW FINISH GRADE ELEVATIONS (AS APPLICABLE) | A                                           | EXISTING CONCRETE SWALE, INCLUDING DRAINAGE STRUCTURES TO REMAIN AND BE PROTECTED.                                                 |
| O                                  | EXISTING COMMUNICATIONS BOX TO REMAIN AND BE PROTECTED                                                                                          | B                                           | EXISTING SHED TO REMAIN AND BE PROTECTED                                                                                           |
| P                                  | EXISTING TRENCH DRAIN TO REMAIN AND BE PROTECTED                                                                                                | C                                           | EXISTING SIGN AND POST TO REMAIN AND BE PROTECTED                                                                                  |
| Q                                  | EXISTING GAS LINE TO REMAIN AND BE PROTECTED                                                                                                    | D                                           | EXISTING "WESTBOROUGH MIDDLE SCHOOL" SIGN TO REMAIN AND BE PROTECTED                                                               |
| R                                  | EXISTING ELECTRICAL LINE TO REMAIN AND BE PROTECTED                                                                                             | E                                           | EXISTING SEWER STRUCTURE TO REMAIN AND BE PROTECTED. ADJUST RIM TO NEW FINISH GRADE AS NEEDED.                                     |
| S                                  | EXISTING WATER LINE TO REMAIN AND BE PROTECTED                                                                                                  | F                                           | EXISTING SEWER LINE TO REMAIN AND BE PROTECTED                                                                                     |
| T                                  | EXISTING COMMUNICATIONS GAS LINE TO REMAIN AND BE PROTECTED                                                                                     | G                                           | EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED                                                                                   |
| U                                  | EXISTING BUILDING AND RAMPS TO REMAIN AND BE PROTECTED                                                                                          | H                                           | *EXISTING PG&E TRANSFORMER PAD AND CHAIN LINK FENCE ENCLOSURE TO REMAIN AND BE PROTECTED                                           |
| V                                  | *EXISTING BACKFLOW PREVENTER AT PARKING LOT (INCLUDING SURROUNDING BOLLARDS) AND WATER VAULT TO REMAIN AND BE PROTECTED                         | I                                           | *EXISTING BACKFLOW PREVENTER AT ENTRY AND WATER VAULT TO REMAIN AND BE PROTECTED. CAGE TO BE DEMOLISHED AND REPLACED WITH NEW CAGE |
| W                                  | EXISTING HARDSCAPE TO REMAIN AND BE PROTECTED                                                                                                   | J                                           | **"deLARIO'S FIELD" PLAQUE TO REMAIN AND BE PROTECTED                                                                              |
| X                                  | EXISTING STAIRS TO REMAIN AND BE PROTECTED                                                                                                      | K                                           | EXISTING SITE FENCING TO REMAIN AND BE PROTECTED                                                                                   |
| Y                                  | EXISTING SPEED BUMP TO REMAIN AND BE PROTECTED                                                                                                  | L                                           | EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED                                                                                   |
| Z                                  | EXISTING CURB TO REMAIN AND BE PROTECTED                                                                                                        | M                                           | EXISTING STORM DRAIN LINE TO REMAIN AND BE PROTECTED                                                                               |
| AA                                 | EXISTING SHED TO BE RELOCATED AND PLACED IN ORIGINAL LOCATION UPON COMPLETION OF PAVING WORK                                                    |                                             |                                                                                                                                    |

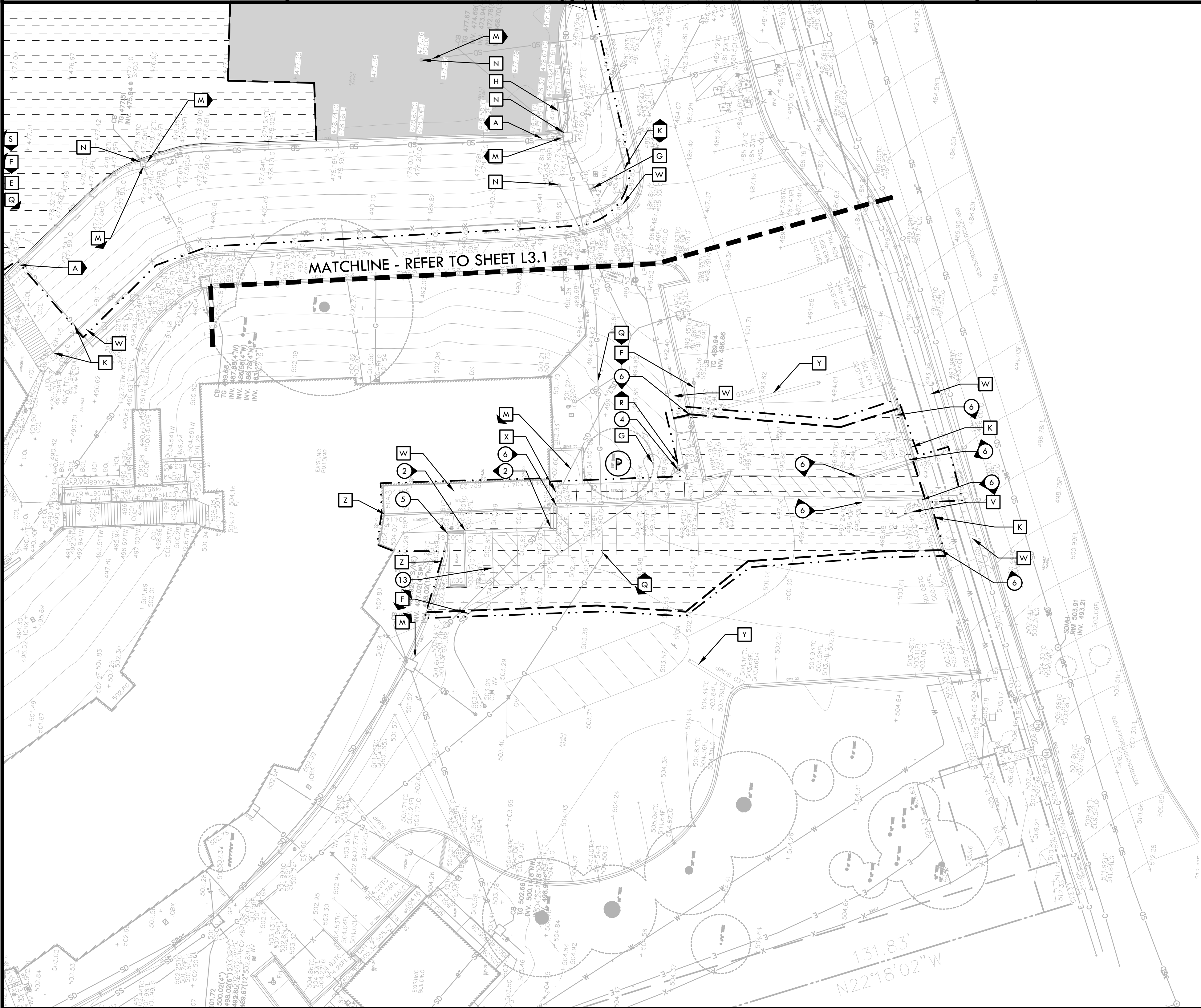
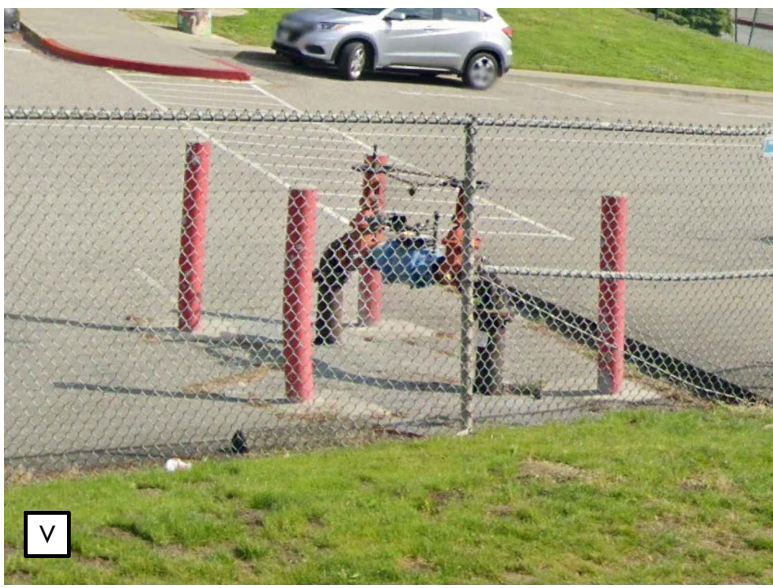
## ITEMS TO BE DEMOLISHED AND/OR REMOVED

---

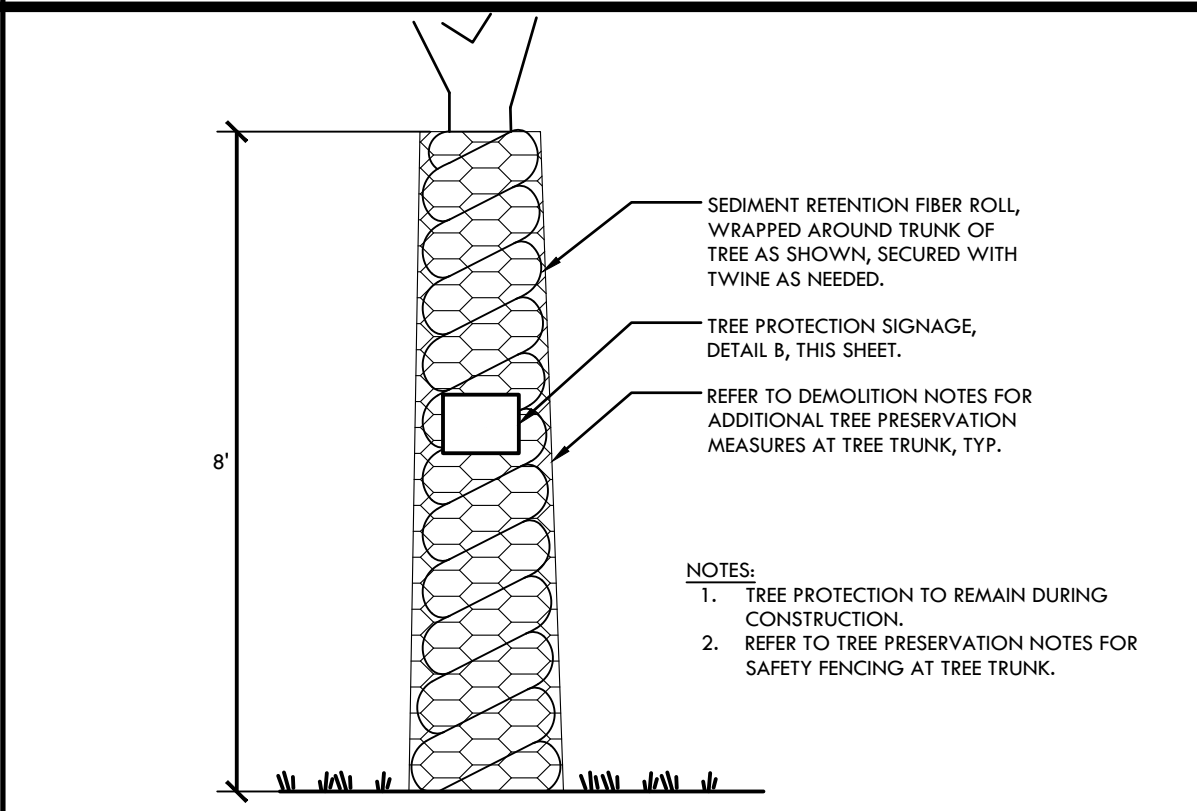
- (1) EXISTING IRRIGATION HEADS AND VALVES WITHIN FIELD SHALL BE REMOVED AND TURNED OVER TO DISTRICT. ALL IRRIGATION LATERAL LINES TO BE DEMOLISHED AND REMOVED.
- (2) EXISTING CONCRETE STAIRS AND HANDRAILS, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED.
- (3) EXISTING BLEACHERS, ASSOCIATED STRUCTURES AND FOOTINGS TO BE DEMOLISHED AND REMOVED
- (4) EXISTING LIGHT POSTS AND FOOTINGS TO BE DEMOLISHED AND REMOVED.
- (5) EXISTING ACCESSIBLE RAMP, HANDRAILS AND FOOTINGS TO BE DEMOLISHED AND REMOVED
- (6) EXISTING CURB AND GUTTER, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED
- (7) EXISTING GATE TO BE DEMOLISHED AND REMOVED
- (8) EXISTING CURB AND SWALE TO BE DEMOLISHED AND REMOVED AT LOCATION OF NEW RAMP AND STAIRS.
- (9) EXISTING BASKETBALL GOAL, POST AND FOOTING TO BE DEMOLISHED AND REMOVED.
- (10) EXISTING SHED TO BE DEMOLISHED AND REMOVED. DEMOLISH CONCRETE BASE AND FOUNDATION
- (11) EXISTING FENCE TO BE DEMOLISHED AND REMOVED. CUT POSTS AT EXISTING FINISH SURFACE, GROUT AND EMBEDED EXISTING CURB TO REMAIN IN PLACE. NEW FENCE LINE WILL GO ON THE COURT SIDE OF THE EXISTING CURB.
- (12) EXISTING BOLLARDS AND SIGNS TO BE DEMOLISHED AND REMOVED.
- (13) EXISTING CURB TO BE DEMOLISHED AND REMOVED
- (14) EXISTING STORM DRAIN LINE TO BE DEMOLISHED AND REMOVED. CAP AND CUT ABANDONED LINES
- (15) EXISTING CATCH BASIN TO BE DEMOLISHED AND REMOVED

| SYM | DESCRIPTION                                                                                                                                                                                                                                                                          |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | LIMIT OF WORK / CONSTRUCTION FENCING                                                                                                                                                                                                                                                 |
|     | EXISTING SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. CLEAR AND GRUB IN AREAS WHERE SYNTHETIC TURF OR PAVING WILL BE INSTALLED. EXISTING TOP SOIL SHALL BE REMOVED FROM SITE PER GEOTECHNICAL REPORT. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE. |
|     | EXISTING GRASS / VEGETATION TO BE STRIPPED AND REMOVED                                                                                                                                                                                                                               |
|     | TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATION SECTION 32 01 90 - EXISTING VEGETATION PROTECTION                                                                                                                                                                 |
|     | EXISTING HARDSCAPE PAVING, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED                                                                                                                                                                                                     |
|     | DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, AND POSTS.                                                                                                                                                                                                                      |
|     | SAWCUT EXISTING CONCRETE/ASPHALT PAVING, REFER TO LAYOUT PLAN SHEETS L6.0-2                                                                                                                                                                                                          |
|     | EXISTING HARDSCAPE AREAS TO REMAIN AND BE PROTECTED; SURFACE TO BE REPAIRED AND PREPARED FOR OVERLAY APPLICATION. REFER TO SPECIFICATIONS.                                                                                                                                           |
|     | DEMOLISH AND REMOVE EXISTING STORM DRAIN LINE.                                                                                                                                                                                                                                       |
|     | EXISTING HARDSCAPE TO REMAIN AND BE PROTECTED                                                                                                                                                                                                                                        |

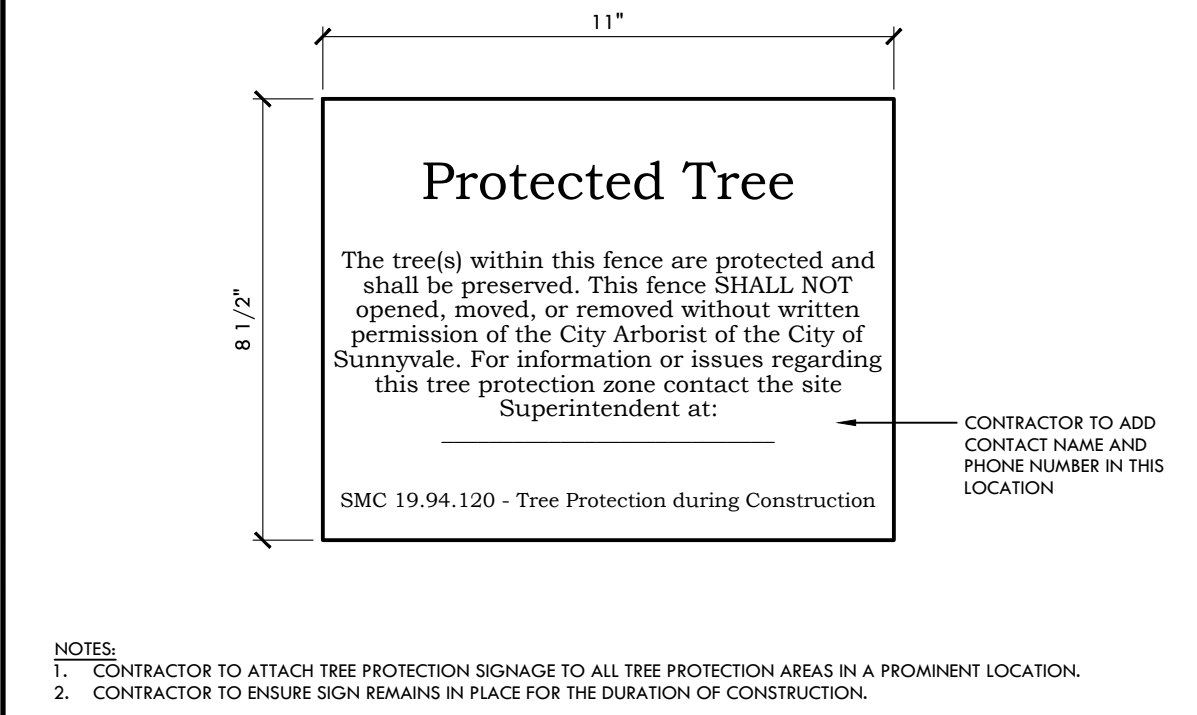
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.</p> <p>6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING, INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). ALL FENCING SHALL INCLUDE FULL HEIGHT SCREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.</p> <p>7. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL. THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE DISTRICT'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.</p> <p>8. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.</p> | <p>1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.</p> <p>2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.</p> <p>3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE OWNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.</p> <p>4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.</p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



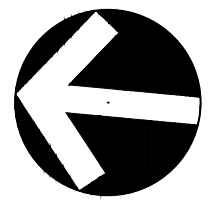
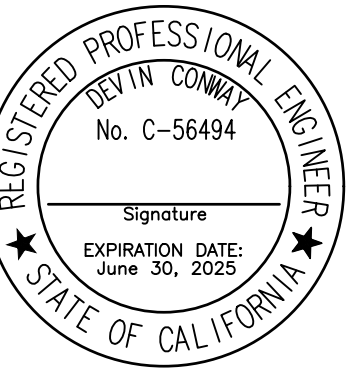
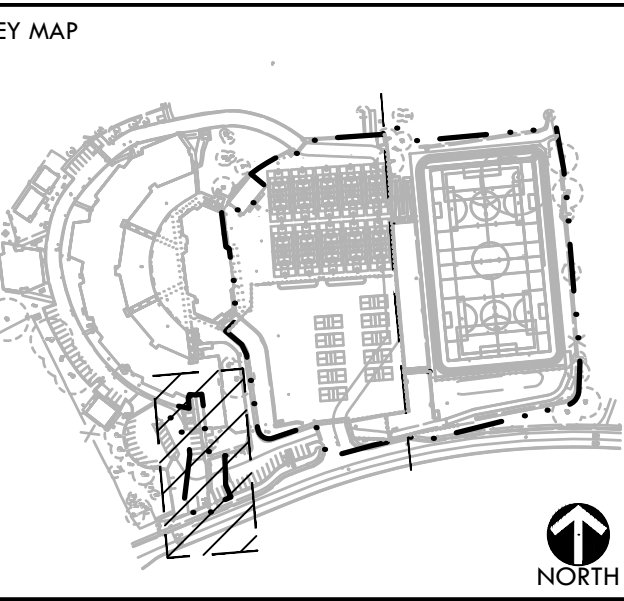
### SELECTED ITEMS TO BE PROTECTED OR RELOCATED



|   |                                                     |     |
|---|-----------------------------------------------------|-----|
| A | TREE PROTECTION<br>(INSIDE TREE PROTECTION FENCING) | NTS |
|---|-----------------------------------------------------|-----|



|   |                      |     |
|---|----------------------|-----|
| B | TREE PROTECTION SIGN | NTS |
|---|----------------------|-----|



## DEMOLITION PLAN

# WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS

PROJECT ADDRESS

570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

|               |          |
|---------------|----------|
| SUBMITTAL     | DATE     |
| ISA SUBMITTAL | 12/10/24 |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

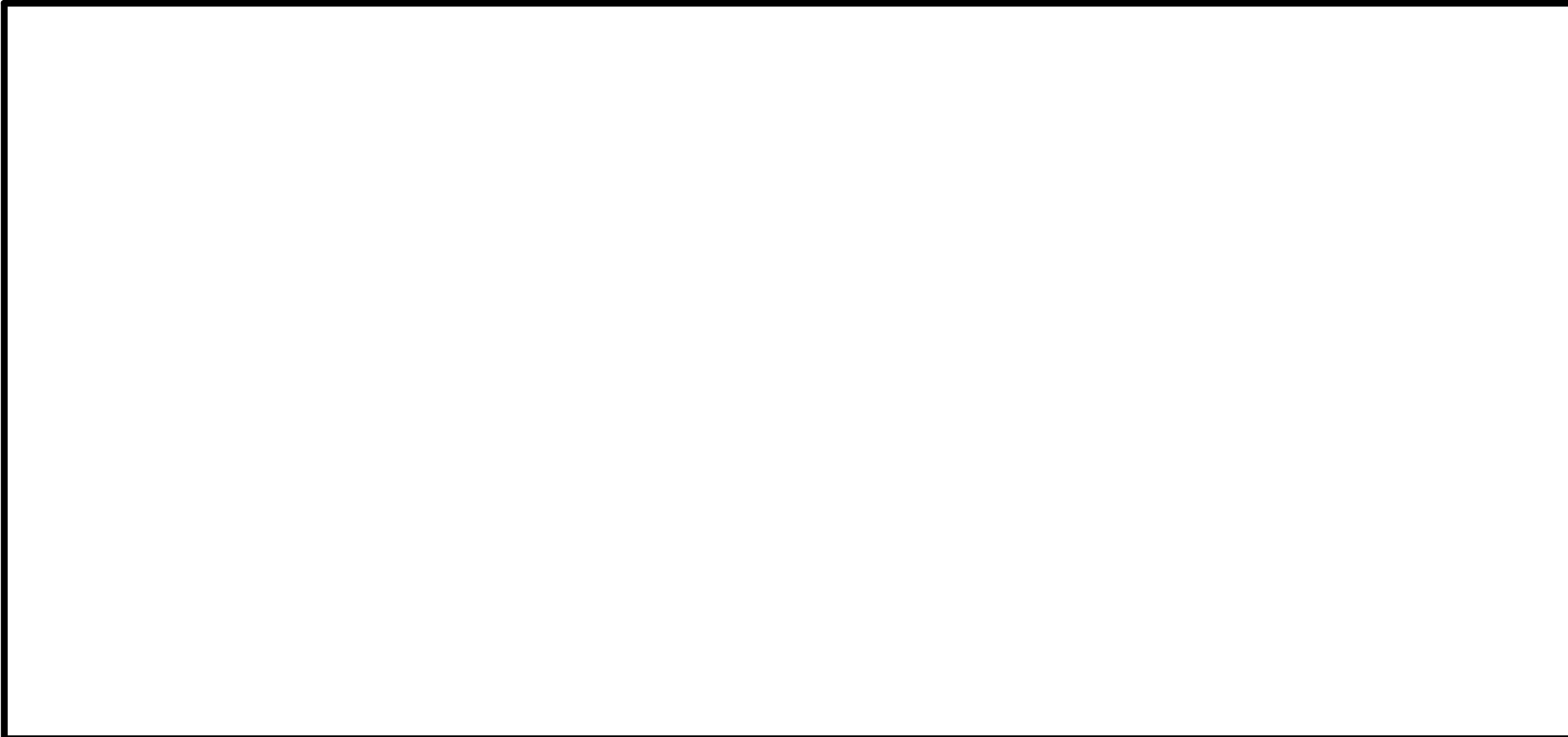
[illegible]

|                            |                             |
|----------------------------|-----------------------------|
| DRAWN BY<br>KL/RC          | CHECKED BY<br>JW            |
| DATE ISSUED<br>12/10/2024  | SCALE<br>1"=20'-0"          |
| DIST. PROJ. NO.<br>2320400 | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.                  |                             |

# DEMOLITION PLAN



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



| GRADING LEGEND |                                                            |     |                                                                             |
|----------------|------------------------------------------------------------|-----|-----------------------------------------------------------------------------|
| SYM            | DESCRIPTION                                                | SYM | DESCRIPTION                                                                 |
|                | TOP OF WALL                                                |     | PROPOSED CONTOUR                                                            |
|                | TOP OF CURB                                                |     | CONNECTION OF PROPOSED AND EXISTING CONTOURS                                |
|                | RIDGE LINE                                                 |     | PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE/SYNTHETIC TURF, REFER TO PLANS |
|                | CENTERLINE OF PERFORATED SUBDRAIN, REFER TO DRAINAGE PLANS |     | PROPOSED FINISH SYNTHETIC TURF ELEVATION, REFER TO PLANS                    |
|                | GRADE BREAK                                                |     | PROPOSED SUBGRADE ELEVATION OF SYNTHETIC TURF                               |
|                | CONFORM TO EXISTING GRADE                                  |     | PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE                              |
|                | SLOPE VALUE AND DIRECTION                                  |     | HIGH POINT                                                                  |
|                | CONFORM                                                    |     | HIGH POINT OF SWALE                                                         |
|                | EXISTING CONTOUR                                           |     | LOW POINT/ RIM ELEVATION OF DRAIN                                           |
|                | EXISTING ELEVATION                                         |     |                                                                             |

- ### GRADING NOTES
- EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
  - THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
  - PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT'S REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
  - ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com

STAMP

KEY MAP

SHEET TITLE

**GRADING PLAN**

PROJECT NAME

**WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS**

PROJECT ADDRESS

**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

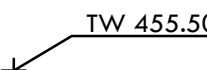
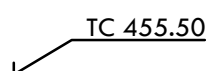
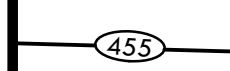
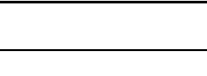
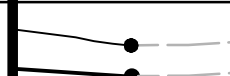
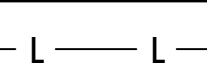
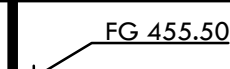
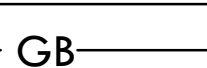
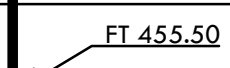
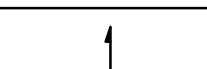
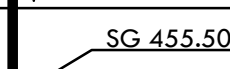
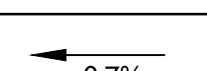
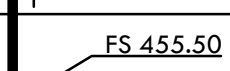
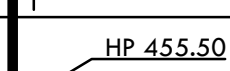
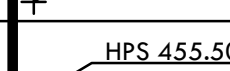
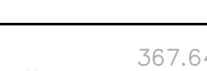
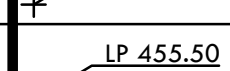
| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
| 1   |           |      |
| 2   |           |      |
| 3   |           |      |
| 4   |           |      |
| 5   |           |      |
| 6   |           |      |
| 7   |           |      |
| 8   |           |      |
| 9   |           |      |
| 10  |           |      |

|               |                  |
|---------------|------------------|
| DRAWN BY      | CHECKED BY       |
| KL            | JW               |
| DATE ISSUED   | SCALE            |
| 12/10/2024    | 1"=20'-0"        |
| VPI PROJ. NO. | SSFSUD PROJ. NO. |
| 2320400       | 025-960          |
| SHEET NO.     |                  |
| L4.0          |                  |

GRADING PLAN



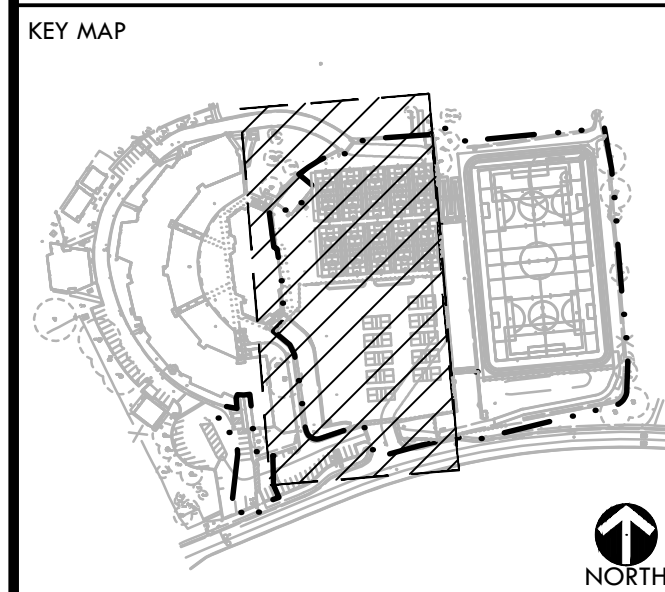
| GRADING LEGEND                                                                                       |                                                            |                                                                                                |                                                                                    |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| SYM                                                                                                  | DESCRIPTION                                                | SYM                                                                                            | DESCRIPTION                                                                        |
|  TW 455.50        | TOP OF WALL                                                |             | LIMIT OF GRADING, CONFORM TO EXISTING GRADES AT THIS LINE (UNLESS NOTED OTHERWISE) |
|  TC 455.50        | TOP OF CURB                                                |  455        | PROPOSED CONTOUR                                                                   |
|                   | RIDGE LINE                                                 |             | CONNECTION OF PROPOSED AND EXISTING CONTOURS                                       |
|  L — L            | CENTERLINE OF PERFORATED SUBDRAIN, REFER TO DRAINAGE PLANS |  FG 455.50  | PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE/ SYNTHETIC TURF, REFER TO PLANS       |
|  GB               | GRADE BREAK                                                |  FT 455.50  | PROPOSED FINISH SYNTHETIC TURF ELEVATION, REFER TO PLANS                           |
|                   | CONFORM TO EXISTING GRADE                                  |  SG 455.50  | PROPOSED SUBGRADE ELEVATION OF SYNTHETIC TURF                                      |
|  0.7%             | SLOPE VALUE AND DIRECTION                                  |  FS 455.50  | PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE                                     |
|  CONFORM          | CONFORM                                                    |  HP 455.50  | HIGH POINT                                                                         |
|  102              | EXISTING CONTOUR                                           |  HPS 455.50 | HIGH POINT OF SWALE                                                                |
|  367.64<br>EG POC | EXISTING ELEVATION                                         |  LP 455.50  | LOW POINT/ RIM ELEVATION OF DRAIN                                                  |

- # GRADING NOTES
- 
1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: \_\_\_\_\_.  
CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
  
  2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
  
  3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT'S REPRESENTATIVE IF PUDDING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
  
  4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.



STAMP

A circular professional engineer seal for the State of California. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF CALIFORNIA" at the bottom, separated by two stars. The center of the seal contains the name "DEVIN CONWAY", the license number "No. C-56494", a horizontal line, the word "Signature", and the expiration date "EXPIRATION DATE: June 30, 2025".



SHEET TITLE

GRADING  
PLAN

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

|               |          |
|---------------|----------|
| SUBMITTAL     | DATE     |
| DSA SUBMITTAL | 12/10/24 |

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |

|     |           |      |
|-----|-----------|------|
|     |           |      |
| NO. | REVISIONS | DATE |

|                                                                                       |  |  |
|---------------------------------------------------------------------------------------|--|--|
|  |  |  |
|  |  |  |

|                                                                                       |  |  |
|---------------------------------------------------------------------------------------|--|--|
|  |  |  |
|  |  |  |
|  |  |  |

|                                                                                       |  |  |
|---------------------------------------------------------------------------------------|--|--|
|  |  |  |
|  |  |  |

|                                                                                       |  |            |
|---------------------------------------------------------------------------------------|--|------------|
|  |  |            |
|  |  |            |
| DRAWN BY                                                                              |  | CHECKED BY |

|                |                  |
|----------------|------------------|
| DRAWN BY<br>KL | CHECKED BY<br>JW |
| DATE ISSUED    | SCALE            |

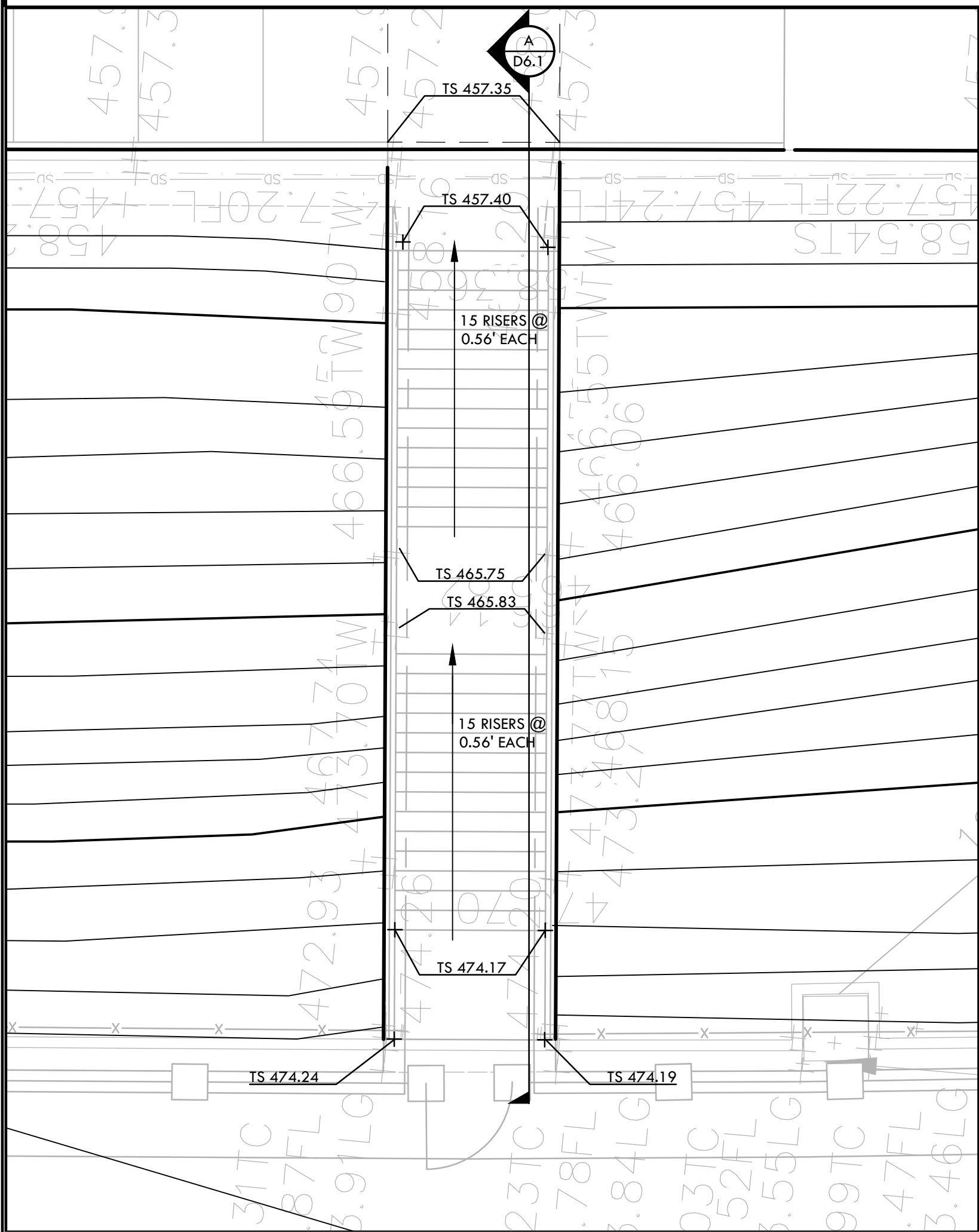
|                          |                            |
|--------------------------|----------------------------|
| 12/10/2024               | 1"=20'-0"                  |
| VDI PROJ. NO.<br>2220100 | SSFUSD PROJ. NO.<br>005010 |

SHEET NO. 141

## GRADING PLAN



SCALE: 1"=5'-0"



SCALE: 1"=5'-0"

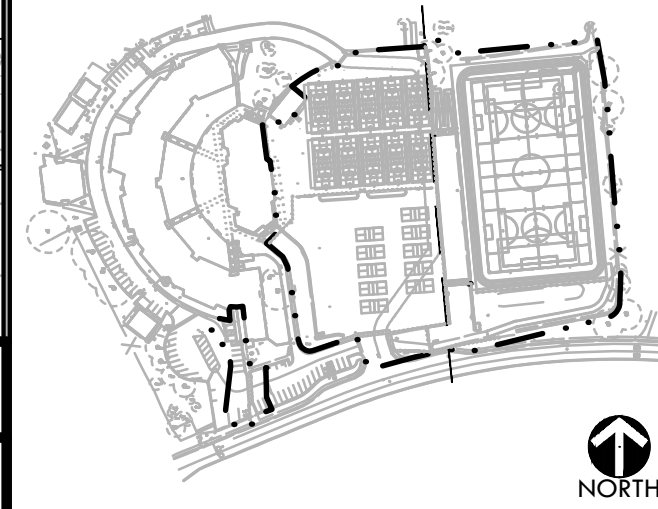
| GRADING LEGEND |                          |             |                                                                                    |
|----------------|--------------------------|-------------|------------------------------------------------------------------------------------|
| SYM            |                          | DESCRIPTION |                                                                                    |
|                | <u>TW 455.50</u>         |             | TOP OF WALL                                                                        |
|                | <u>TC 455.50</u>         |             | TOP OF CURB                                                                        |
|                |                          |             | RIDGE LINE                                                                         |
|                | <u>L — L</u>             |             | CENTERLINE OF PERFORATED SUBDRAIN, REFER TO DRAINAGE PLANS                         |
|                | <u>GB</u>                |             | GRADE BREAK                                                                        |
|                |                          |             | CONFORM TO EXISTING GRADE                                                          |
|                | <u>0.7%</u>              |             | SLOPE VALUE AND DIRECTION                                                          |
|                | <u>CONFORM</u>           |             | CONFORM                                                                            |
|                | <u>102</u>               |             | EXISTING CONTOUR                                                                   |
|                | <u>367.64<br/>EC POC</u> |             | EXISTING ELEVATION                                                                 |
|                | <u>455</u>               |             | LIMIT OF GRADING, CONFORM TO EXISTING GRADES AT THIS LINE (UNLESS NOTED OTHERWISE) |
|                | <u>455</u>               |             | PROPOSED CONTOUR                                                                   |
|                |                          |             | CONNECTION OF PROPOSED AND EXISTING CONTOURS                                       |
|                | <u>FG 455.50</u>         |             | PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE/SYNTHETIC TURF, REFER TO PLANS        |
|                | <u>FT 455.50</u>         |             | PROPOSED FINISH SYNTHETIC TURF ELEVATION, REFER TO PLANS                           |
|                | <u>SG 455.50</u>         |             | PROPOSED SUBGRADE ELEVATION OF SYNTHETIC TURF                                      |
|                | <u>FS 455.50</u>         |             | PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE                                     |
|                | <u>HP 455.50</u>         |             | HIGH POINT                                                                         |
|                | <u>HPS 455.50</u>        |             | HIGH POINT OF SWALE                                                                |
|                | <u>LP 455.50</u>         |             | LOW POINT/ RIM ELEVATION OF DRAIN                                                  |

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: \_\_\_\_\_.  
CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKINGS AND UTILITIES, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
3. PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT'S REPRESENTATIVE IF PUDDING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.
4. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

STAMP



## KEY MAP



SHEET TITLE

## GRADING ENLARGEMENTS AND SECTIONS

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

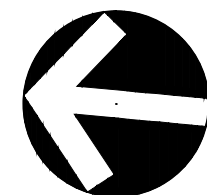
PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

|               |          |
|---------------|----------|
| SUBMITTAL     | DATE     |
| DSA SUBMITTAL | 12/10/24 |

[illegible]

|                           |                             |
|---------------------------|-----------------------------|
| DRAWN BY<br><br>KL        | CHECKED BY<br><br>JW        |
| DATE ISSUED<br>12/10/2024 | SCALE<br>1"=20'-0"          |
| VDI PROJ. NO.<br>2320400  | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.                 |                             |



## GRADING ENLARGEMENTS AND SECTIONS



**VERDE DESIGN**

---

**LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN**

---

**2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
[www.VerdeDesignInc.com](http://www.VerdeDesignInc.com)**



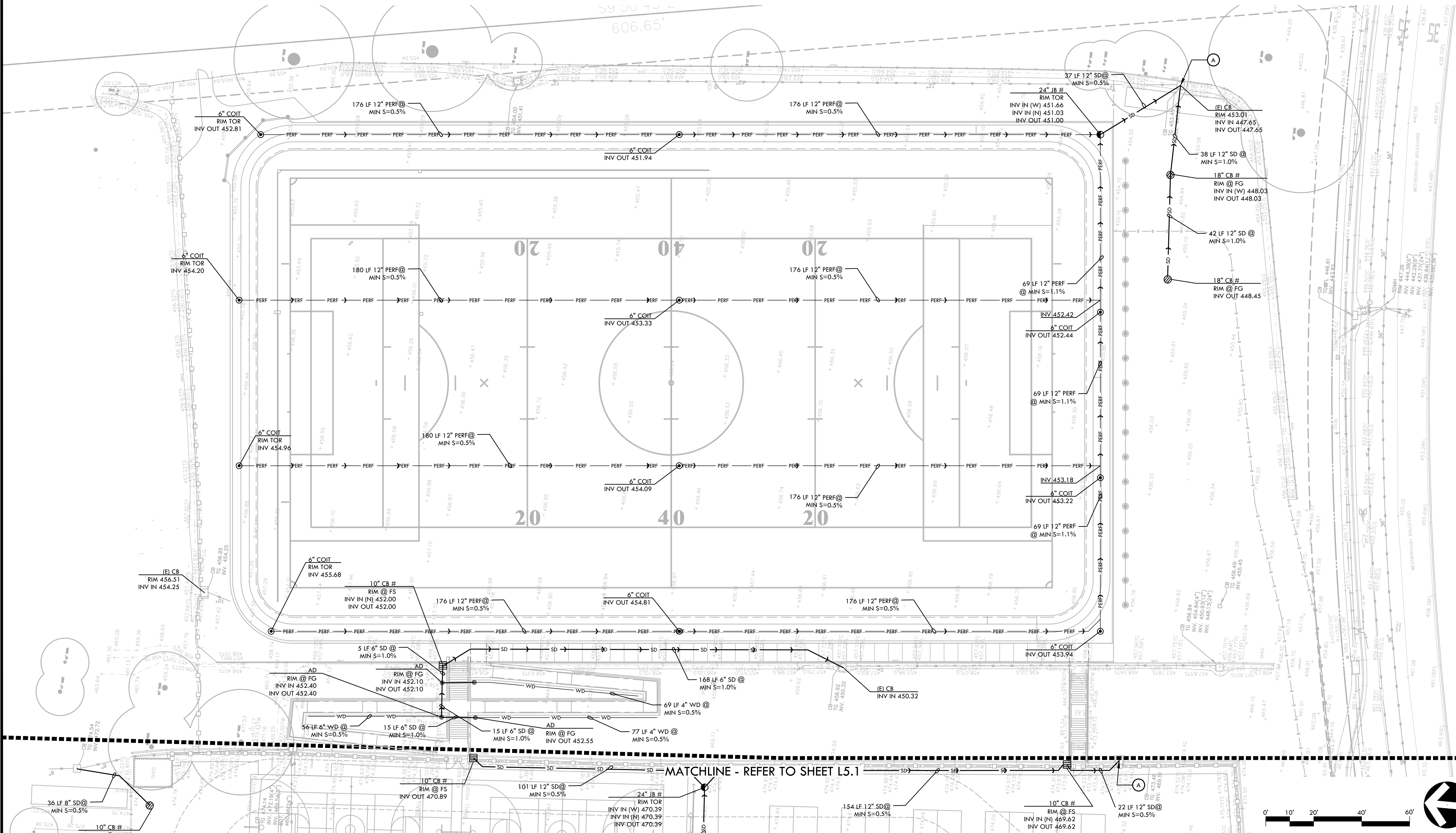
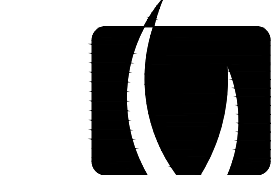
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

## DRAINAGE & UTILITY LEGEND

| SYM  | DESCRIPTION                   | DETAIL NUMBER<br>SHEET NUMBER | SYM    | DESCRIPTION                                                                                                                                                                                 | DETAIL NUMBER<br>SHEET NUMBER |
|------|-------------------------------|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| ⊙    | AREA DRAIN AT RAMP            | 1                             | ⊕      | CATCH BASIN (CB), SIZE PER PLAN                                                                                                                                                             | A<br>D1.0                     |
| ⊞    | CATCH BASIN AT EXISTING SWALE | J                             | ⊕      | CATCH BASIN IN HARDSCAPE (CBH), SIZE PER PLAN                                                                                                                                               | A<br>D1.0                     |
| → WD | WALL DRAIN                    | H                             | ●      | JUNCTION BOX (JB), SIZE PER PLAN                                                                                                                                                            | B<br>D1.0                     |
|      |                               |                               | ⊙      | CLEANOUT IN SYNTHETIC TURF (COIT)                                                                                                                                                           | C<br>D1.0                     |
|      |                               |                               | → SD   | SOLID WALL STORM DRAIN (SD)                                                                                                                                                                 | E<br>D1.0                     |
|      |                               |                               | → PERF | PERFORATED SUBDRAIN LINE (PERF)                                                                                                                                                             | F<br>D1.0                     |
|      |                               |                               | Ⓐ      | PROPOSED STORM DRAIN POINT OF CONNECTION TO EXISTING CATCH BASIN AND OVERALL EXISTING STORM DRAIN SYSTEM. CONTRACTOR TO VERIFY TIE-IN LOCATIONS AND EXISTING INVERTS PRIOR TO CONSTRUCTION. |                               |

## DRAINAGE & UTILITY NOTES

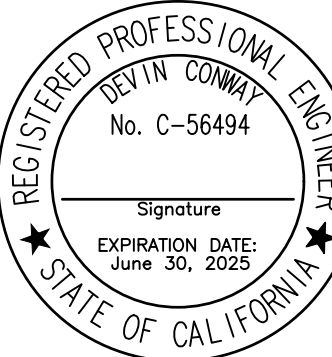
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
- ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
- THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
- COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
- ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
- PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POT-HOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
- WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.



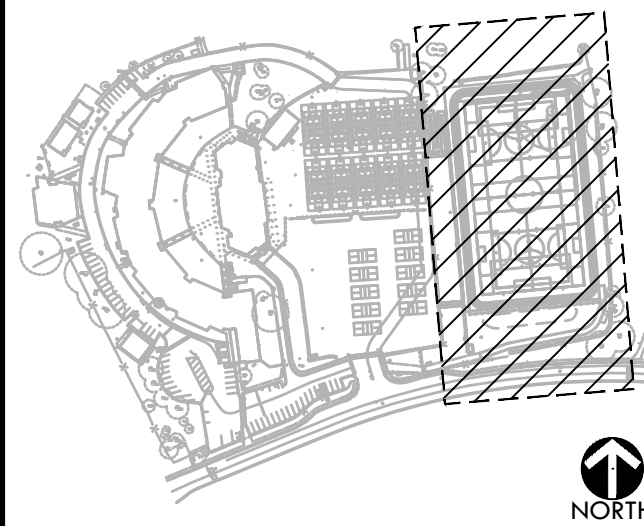
**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesignInc.com

STAMP



KEY MAP



SHEET TITLE

**DRAINAGE AND  
UTILITY PLAN**

PROJECT NAME

**WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS**

PROJECT ADDRESS

**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

|               |          |
|---------------|----------|
| SUBMITTAL     | DATE     |
| DSA SUBMITTAL | 12/10/24 |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
| 1   |           |      |
| 2   |           |      |
| 3   |           |      |
| 4   |           |      |
| 5   |           |      |
| 6   |           |      |
| 7   |           |      |
| 8   |           |      |
| 9   |           |      |
| 10  |           |      |

|          |            |
|----------|------------|
| DRAWN BY | CHECKED BY |
|          | JW         |

|             |           |
|-------------|-----------|
| DATE ISSUED | SCALE     |
| 12/10/2024  | 1"=20'-0" |

|               |                  |
|---------------|------------------|
| VDI PROJ. NO. | SSFUSD PROJ. NO. |
| 2320400       | 025-960          |

|           |  |
|-----------|--|
| SHEET NO. |  |
| L5.0      |  |

**DRAINAGE AND UTILITY PLAN**



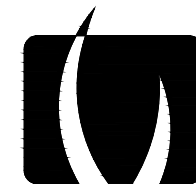
ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

## DRAINAGE & UTILITY LEGEND

| SYM  | DESCRIPTION                   | DETAIL NUMBER<br>SHEET NUMBER | SYM    | DESCRIPTION                                                                                                                                                                                 | DETAIL NUMBER<br>SHEET NUMBER |
|------|-------------------------------|-------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| ☉    | AREA DRAIN AT RAMP            | I                             | ☉      | CATCH BASIN (CB), SIZE PER PLAN                                                                                                                                                             | A                             |
| ☐    | CATCH BASIN AT EXISTING SWALE | J                             | ☉      | CATCH BASIN IN HARDScape (CBH), SIZE PER PLAN                                                                                                                                               | D1.0                          |
| → WD | WALL DRAIN                    | H                             | ☉      | JUNCTION BOX (JB), SIZE PER PLAN                                                                                                                                                            | B                             |
|      |                               |                               | ☉      | CLEANOUT IN SYNTHETIC TURF (COIT)                                                                                                                                                           | C                             |
|      |                               |                               | → SD   | SOLID WALL STORM DRAIN (SD)                                                                                                                                                                 | E                             |
|      |                               |                               | → PERF | PERFORATED SUBDRAIN LINE (PERF)                                                                                                                                                             | F                             |
|      |                               |                               | Ⓐ      | PROPOSED STORM DRAIN POINT OF CONNECTION TO EXISTING CATCH BASIN AND OVERALL EXISTING STORM DRAIN SYSTEM. CONTRACTOR TO VERIFY TIE-IN LOCATIONS AND EXISTING INVERTS PRIOR TO CONSTRUCTION. | D1.0                          |

## DRAINAGE & UTILITY NOTES

- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES, AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
- ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
- THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH FROM ENTERING THE PIPE DURING CONSTRUCTION. CONTRACTOR SHALL AVOID PLACING CONSTRUCTION VEHICLES OVER INSTALLED DRAINAGE TRENCHES TO PREVENT CRUSHING OF PIPE.
- COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
- THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS FOR NEW FOOTINGS, PARTICULARLY FOR NEW FENCING AND WALLS.
- ALL ABANDONED STORM LINES SHALL REMAIN IN PLACE UNLESS IN CONFLICT WITH PROPOSED DRAINAGE, UTILITY, OR SUBGRADING OPERATIONS, IN WHICH CASE ABANDONED PIPE IN CONFLICT SHALL BE REMOVED. REMAINING ABANDONED STORM PIPE SHALL BE SEALED WITH APPROPRIATELY SIZED CONCRETE CAP (3 SACK MIX) 6" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
- PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
- WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.



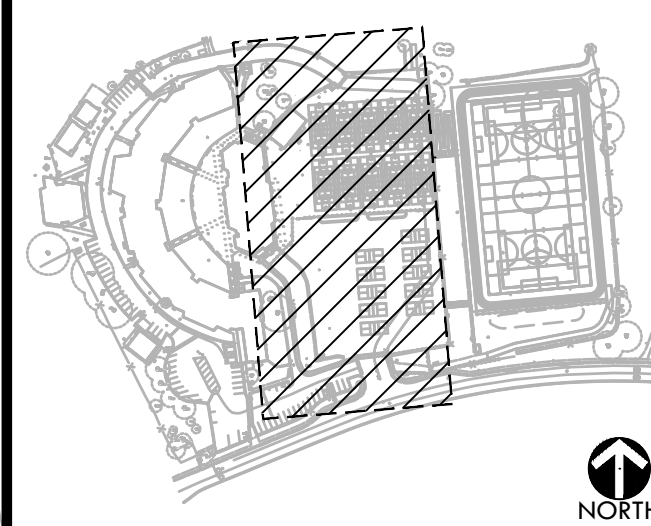
**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesignInc.com

STAMP



KEY MAP



SHEET TITLE

**DRAINAGE AND  
UTILITY PLAN**

PROJECT NAME

**WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS**

PROJECT ADDRESS

**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

SUBMITTAL

DATE

DSA SUBMITTAL

12/10/24

NO.

REVISIONS

DATE

DRAWN BY

CHECKED BY

JW

DATE ISSUED

12/10/2024

SCALE

1"=20'-0"

VDI PROJ. NO.

2320400

SSFUSD PROJ. NO.

025-960

SHEET NO.

L5.1

**DRAINAGE AND UTILITY PLAN**





ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

NOTE:

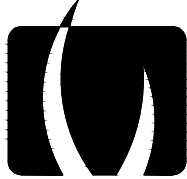
1. POINT OF BEGINNING (POB) IS AT POINT #U2028 ELEVATION 474.12, WHICH IS LOCATED AT THE SOUTHWEST CURB CORNER OF THE CATCH BASIN.
2. CONTROL POINT IS LOCATED AT POINT #U2089 ELEVATION 477.56, WHICH IS LOCATED AT THE SOUTHERN MOST HARDSCAPE CORNER OF THE TRENCH DRAIN LOCATED AT THE BOTTOM OF THE EXISTING EMERGENCY VEHICULAR ACCESS ROAD.
3. BASELINE A IS DETERMINED BY ESTABLISHING A CONTROL LINE FROM POB TO CONTROL POINT.
4. LAYOUT GRID IS DETERMINED BY ROTATING CLOCKWISE 18°26' 5".
5. BASELINE B IS 90° FROM BASELINE A AT POB.
6. GRID IS 100' OFFSETS FROM EACH BASELINE.

LAYOUT LEGEND

| SYM   | DESCRIPTION     | SYM   | DESCRIPTION                        | SYM | DESCRIPTION                                |
|-------|-----------------|-------|------------------------------------|-----|--------------------------------------------|
| (SC)  | SAW CUT         | (COD) | CENTER OF DRAIN                    |     | POINT OF BEGINNING                         |
| (IOC) | INSIDE OF CURB  | (COP) | CENTER OF POST                     |     | ANCHOR POINT FOR BASELINE A                |
| (OOC) | OUTSIDE OF CURB | (POB) | POINT OF BEGINNING FOR GRID LAYOUT |     | RADIUS POINT / CENTER MARK                 |
|       |                 | (RAD) | RADIUS POINT                       |     | PROPOSED ANGLE BETWEEN ELEMENTS            |
|       |                 | (TAN) | TANGENT POINT                      |     | ALIGN EDGES OF ELEMENTS                    |
|       |                 | (EOP) | EDGE OF PAVEMENT                   |     | CENTER LINES                               |
|       |                 | (EOT) | EDGE OF SYNTHETIC TURF             |     | BASELINE                                   |
|       |                 | (EOS) | EDGE OF STRIPING                   |     | CONTROL LINE                               |
|       |                 | (MID) | MIDPOINT OF RADIUS                 |     | NORTHING/EASTING LAYOUT COORDINATE CALLOUT |

LAYOUT NOTES

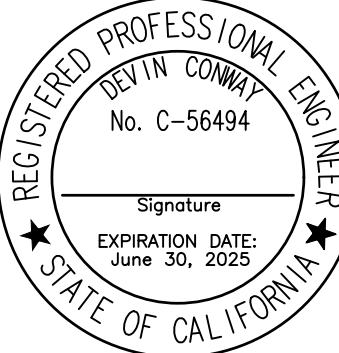
1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.
3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.



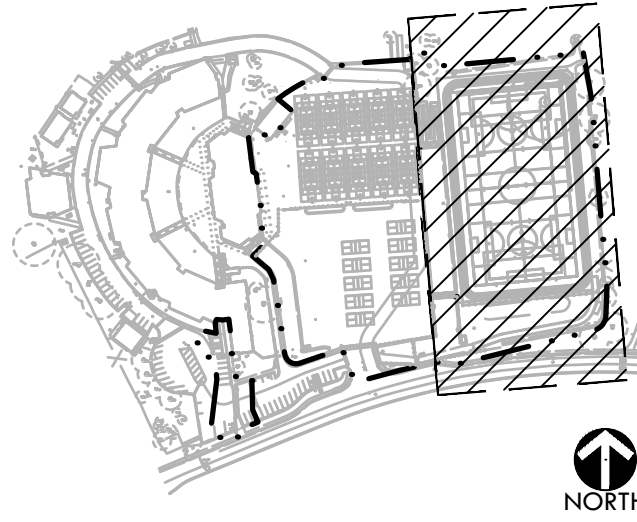
VERDE DESIGN  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesign.com

STAMP



KEY MAP



SHEET TITLE

LAYOUT  
PLAN

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

SUBMITTAL

DATE

DSA SUBMITTAL

12/10/24

NO.



REVISIONS

DATE

DRAWN BY

KL

CHECKED BY

JW

DATE ISSUED

12/10/2024

SCALE

1"=20'-0"

VDI PROJ. NO.

2320400

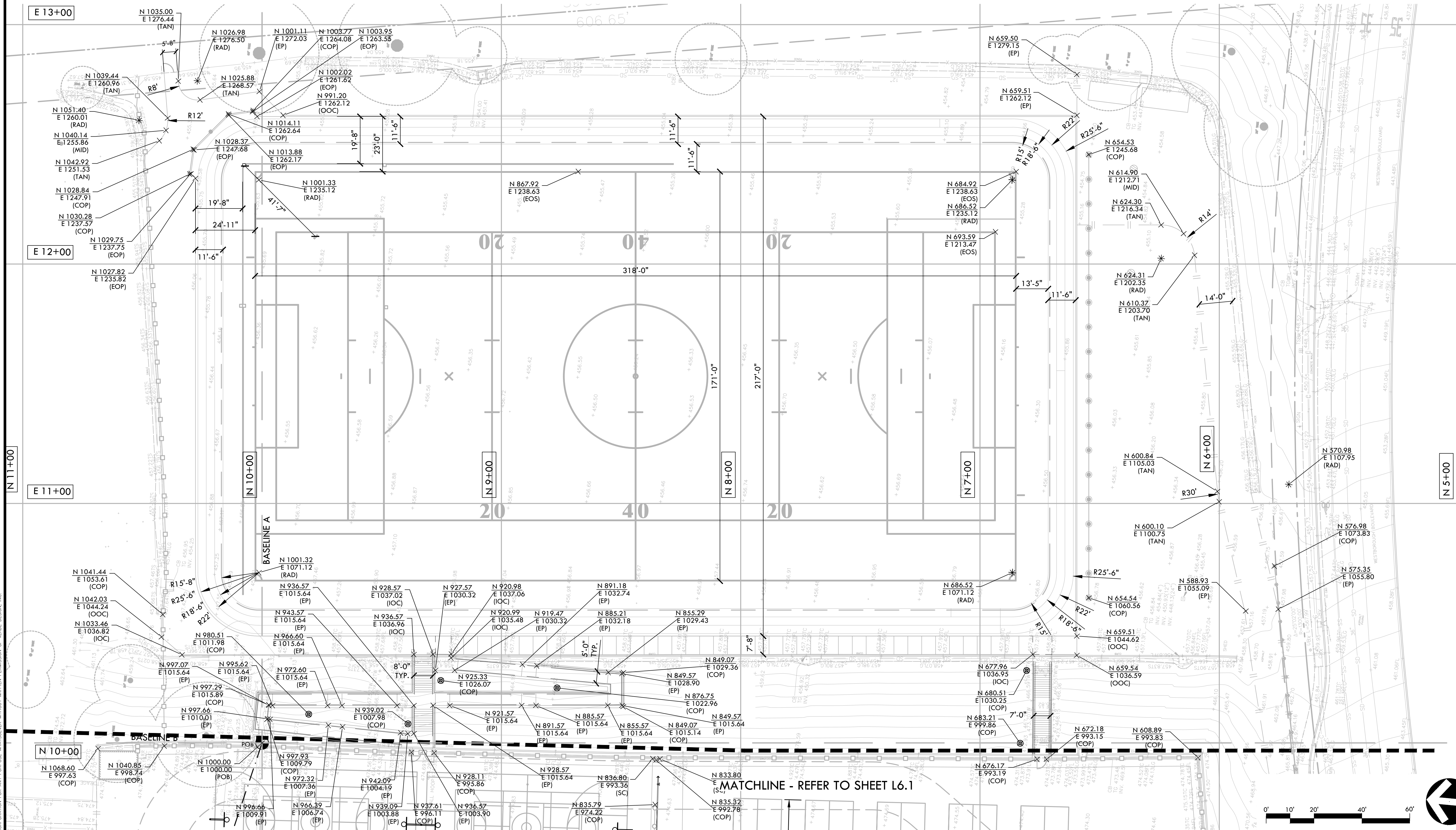
SSFUSD PROJ. NO.

025-960

SHEET NO.

L6.0

LAYOUT PLAN





ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

NOTE:

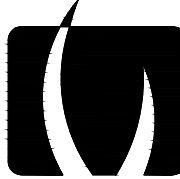
1. POINT OF BEGINNING (POB) IS AT POINT #U2028 ELEVATION 474.12, WHICH IS LOCATED AT THE SOUTHWEST CURB CORNER OF THE CATCH BASIN.
2. CONTROL POINT IS LOCATED AT POINT #U2089 ELEVATION 477.56, WHICH IS LOCATED AT THE SOUTHERN MOST HARDSCAPE CORNER OF THE TRENCH DRAIN LOCATED AT THE BOTTOM OF THE EXISTING EMERGENCY VEHICULAR ACCESS ROAD.
3. BASELINE A IS DETERMINED BY ESTABLISHING A CONTROL LINE FROM POB TO CONTROL POINT.
4. LAYOUT GRID IS DETERMINED BY ROTATING CLOCKWISE 18°26' 5".
5. BASELINE B IS 90° FROM BASELINE A AT POB.
6. GRID IS 100' OFFSETS FROM EACH BASELINE.

LAYOUT LEGEND

| SYM   | DESCRIPTION     | SYM   | DESCRIPTION                        | SYM | DESCRIPTION                                |
|-------|-----------------|-------|------------------------------------|-----|--------------------------------------------|
| (SC)  | SAW CUT         | (COD) | CENTER OF DRAIN                    |     | POINT OF BEGINNING                         |
| (IOC) | INSIDE OF CURB  | (COP) | CENTER OF POST                     |     | ANCHOR POINT FOR BASELINE A                |
| (OOC) | OUTSIDE OF CURB | (POB) | POINT OF BEGINNING FOR GRID LAYOUT |     | RADIUS POINT / CENTER MARK                 |
|       |                 | (RAD) | RADIUS POINT                       |     | PROPOSED ANGLE BETWEEN ELEMENTS            |
|       |                 | (TAN) | TANGENT POINT                      |     | ALIGN EDGES OF ELEMENTS                    |
|       |                 | (EOP) | EDGE OF PAVEMENT                   |     | CENTER LINES                               |
|       |                 | (EOT) | EDGE OF SYNTHETIC TURF             |     | BASELINE                                   |
|       |                 | (EOS) | EDGE OF STRIPING                   |     | CONTROL LINE                               |
|       |                 | (MID) | MIDPOINT OF RADIUS                 |     | NORTHING/EASTING LAYOUT COORDINATE CALLOUT |

LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.
3. LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.
4. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.



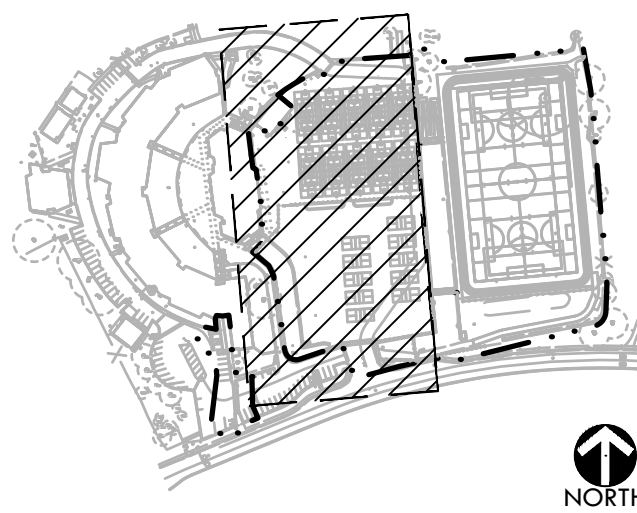
VERDE DESIGN  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesign.com

STAMP



KEY MAP



SHEET TITLE

LAYOUT  
PLAN

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

SUBMITTAL

DATE

DSA SUBMITTAL

12/10/24

NO.

REVISIONS

DATE

DRAWN BY

KL

CHECKED BY

JW

DATE ISSUED

12/10/2024

SCALE

1"=20'-0"

VDI PROJ. NO.

2320400

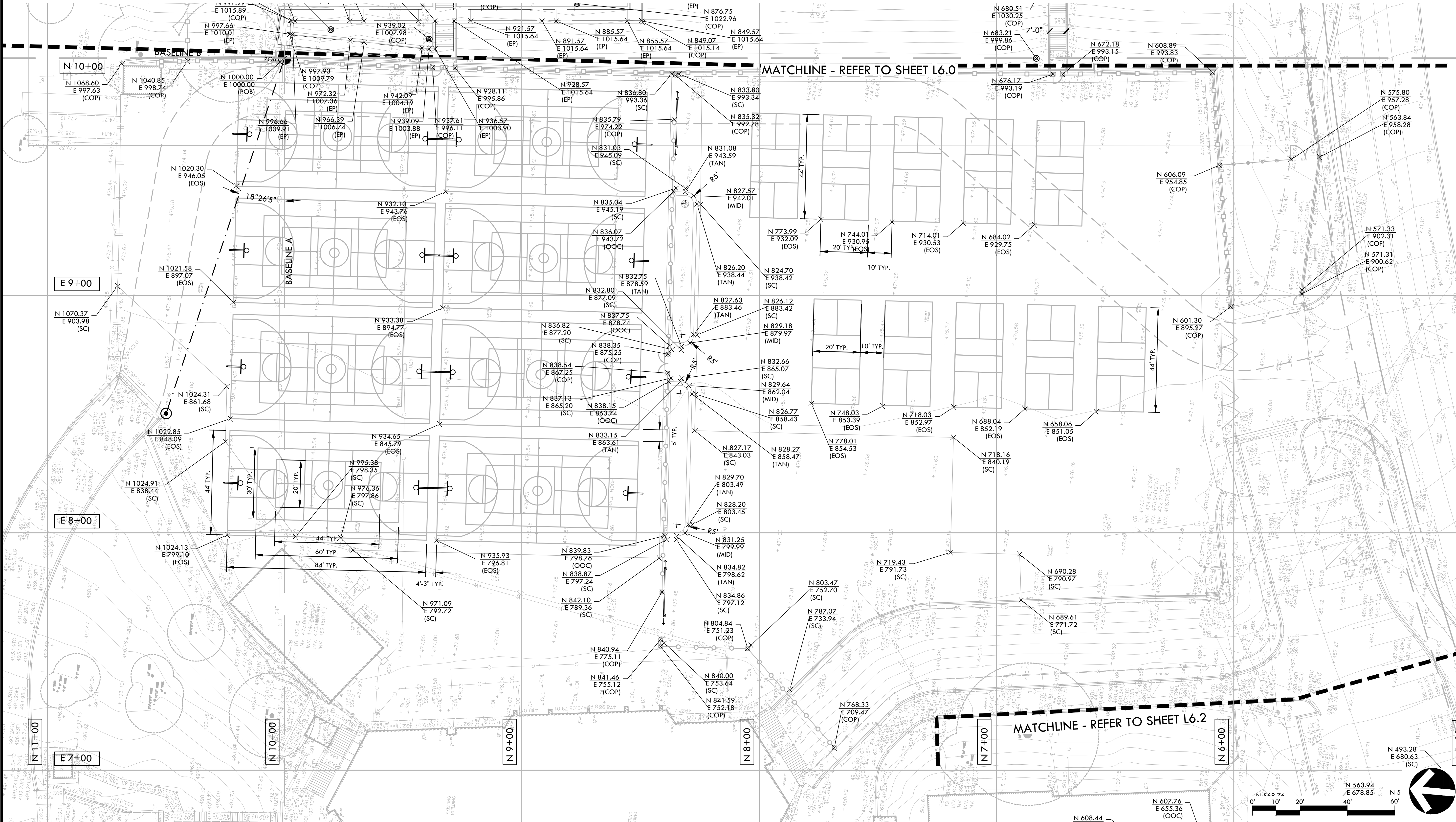
SSFUSD PROJ. NO.

025-960

SHEET NO.

L6.1

LAYOUT PLAN





ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

NOTE:

1. POINT OF BEGINNING (POB) IS AT POINT #U2028 ELEVATION 474.12, WHICH IS LOCATED AT THE SOUTHWEST CURB CORNER OF THE CATCH BASIN.
2. CONTROL POINT IS LOCATED AT POINT #U2089 ELEVATION 477.56, WHICH IS LOCATED AT THE SOUTHERN MOST HARDSCAPE CORNER OF THE TRENCH DRAIN LOCATED AT THE BOTTOM OF THE EXISTING EMERGENCY VEHICULAR ACCESS ROAD.
3. BASELINE A IS DETERMINED BY ESTABLISHING A CONTROL LINE FROM POB TO CONTROL POINT.
4. LAYOUT GRID IS DETERMINED BY ROTATING CLOCKWISE 18°26' 5".
5. BASELINE B IS 90° FROM BASELINE A AT POB.
6. GRID IS 100' OFFSETS FROM EACH BASELINE.

| LAYOUT LEGEND |                 |       |                                    |     |                                            |
|---------------|-----------------|-------|------------------------------------|-----|--------------------------------------------|
| SYM           | DESCRIPTION     | SYM   | DESCRIPTION                        | SYM | DESCRIPTION                                |
| (SC)          | SAW CUT         | (COD) | CENTER OF DRAIN                    |     | POINT OF BEGINNING                         |
| (IOC)         | INSIDE OF CURB  | (COP) | CENTER OF POST                     |     | ANCHOR POINT FOR BASELINE A                |
| (OOC)         | OUTSIDE OF CURB | (POB) | POINT OF BEGINNING FOR GRID LAYOUT |     | RADIUS POINT / CENTER MARK                 |
|               |                 | (RAD) | RADIUS POINT                       |     | PROPOSED ANGLE BETWEEN ELEMENTS            |
|               |                 | (TAN) | TANGENT POINT                      |     | ALIGN EDGES OF ELEMENTS                    |
|               |                 | (EOP) | EDGE OF PAVEMENT                   |     | CENTER LINES                               |
|               |                 | (EOT) | EDGE OF SYNTHETIC TURF             |     | BASELINE                                   |
|               |                 | (EOS) | EDGE OF STRIPING                   |     | CONTROL LINE                               |
|               |                 | (MID) | MIDPOINT OF RADIUS                 |     | NORTHING/EASTING LAYOUT COORDINATE CALLOUT |

| LAYOUT NOTES |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.           | THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS. |
| 2.           | ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.                                                                                                                                                                                                              |
| 3.           | LAYOUT IS BASED ON THE POINT(S) OF BEGINNING (P.O.B.) AND BASELINE(S) OR GRID SYSTEM AS SHOWN. DIMENSIONS SHOWN ARE ROUNDED TO THE NEAREST INCH.                                                                                                                                                                                                                                                                                                       |
| 4.           | ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.                                                                                                                                                                                                                                                                                                                                                                                       |



**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER  
KEY IN COMM  
No. C-56494  
Signature  
EXPIRATION DATE: June 30, 2023  
STATE OF CALIFORNIA

KEY MAP

NORTH

SHEET TITLE

LAYOUT  
PLAN

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |
|               |          |
|               |          |
|               |          |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
| △   |           |      |
| △   |           |      |
| △   |           |      |
| △   |           |      |
| △   |           |      |
| △   |           |      |

|                           |                             |
|---------------------------|-----------------------------|
| DRAWN BY<br>KL            | CHECKED BY<br>JW            |
| DATE ISSUED<br>12/10/2024 | SCALE<br>1"=20'-0"          |
| VDI PROJ. NO.<br>2320400  | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.<br>L6.2         |                             |



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

MATERIAL LEGEND

| SYM | DESCRIPTION                                    | DTL       | SYM | DESCRIPTION                          | DTL           | SYM | DESCRIPTION                                     | DTL       | SYM | DESCRIPTION                                                 | DTL       | SYM | DESCRIPTION                               | DTL       |
|-----|------------------------------------------------|-----------|-----|--------------------------------------|---------------|-----|-------------------------------------------------|-----------|-----|-------------------------------------------------------------|-----------|-----|-------------------------------------------|-----------|
| 18  | 20" WIDE FIRE LANE                             | E<br>D2.0 | 8   | 57 YD X 106 YD SOCCER FIELD STRIPING | A<br>D4.0     | G5  | 42" TALL X 20" WIDE CHAIN LINK SLIDING GATE     | L<br>D3.0 | F1  | 42" TALL CHAIN LINK FENCE                                   | E<br>D3.0 |     | LIMIT OF WORK                             |           |
| 19  | CONCRETE THICKENED EDGE                        | F<br>D2.1 | 9   | NOT USED                             | B<br>D4.0     | G6  | 6' TALL X 12' WIDE CHAIN LINK DOUBLE SWING GATE | I<br>D3.0 | F2  | 6' TALL CHAIN LINK FENCE                                    | E<br>D3.0 |     | SYNTHETIC TURF (COLOR: GREEN)             | F<br>D2.0 |
| 20  | CONCRETE THICKENED EDGE AT SYNTHETIC TURF      | B<br>D2.0 | 10  | FLAG FOOTBALL FIELD STRIPING         | C<br>D4.0     | G7  | 42" TALL X 4" WIDE CHAIN LINK PEDESTRIAN GATE   | J<br>D3.0 | F3  | 8' TALL CHAIN LINK FENCE                                    | D<br>D3.0 |     | SYNTHETIC TURF (COLOR: BLUE)              | D2.0      |
| 21  | 3 LANE 36" WIDE RUNNING TRACK STRIPING         |           | 11  | VOLLEYBALL COURT STRIPING            | B<br>D4.1     | 1   | HEADER BOARD                                    | M<br>D2.0 | F4  | 25' TALL NETTING SYSTEM                                     | B<br>D3.1 |     | CONCRETE PAVING                           | A<br>D2.0 |
| 22  | CONEX CONTAINER, REFER TO SPECIFICATIONS       | -         | 12  | BASKETBALL COURT STRIPING            | A<br>D4.1     | 2   | 12" WIDE RETAINING WALL WITH FENCE              | H<br>D3.0 | F5  | PREFABRICATED BACKSTOP                                      | A<br>D3.1 |     | ASPHALT PAVING - VEHICULAR/ FIRE          | E<br>D2.0 |
| 23a | BASKETBALL HOOP @ 10' TALL                     | J<br>D4.1 | 13  | PICKLEBALL COURT STRIPING            | C<br>D4.1     | 3   | 4" WIDE CURB                                    | I<br>D2.0 | F6  | 8' TALL CHAIN LINK FENCE @ CURB AND GUTTER                  | C<br>D3.1 |     | ASPHALT PAVING - PEDESTRIAN               | E<br>D2.0 |
| 23b | BASKETBALL GOAL @ 8' TALL                      | I<br>D4.1 | 14  | STAIRS HANDRAIL IN 12" WIDE CURB     | B<br>D2.1     | 4   | 6" WIDE SYNTHETIC TURF EDGEBAND                 | H<br>D2.0 | G1  | 8' TALL X 4' WIDE CHAIN LINK SWING GATE                     | F<br>D3.0 |     | ASPHALT OVERLAY - REFER TO SPECIFICATIONS |           |
| 23c | BASKETBALL GOAL BACK-TO-BACK @ 10' AND 8' TALL | H<br>D4.1 | 15  | CONCRETE STAIRS                      | A<br>D2.1     | 5   | CURB AND GUTTER (24" GUTTER PAN)                | E<br>D2.1 | G2  | 8' TALL X 4' WIDE CHAIN LINK SWING GATE WITH PANIC HARDWARE | G<br>D3.0 | PA  | MULCH AREA                                |           |
| 24  | NEW BACKFLOW PREVENTOR CAGE                    | H<br>D5.0 | 16  | RAMP HANDRAIL IN 12" WIDE CURB       | C<br>D2.1     | 6   | 12" WIDE CONCRETE EDGEBAND                      | K<br>D2.0 | G3  | 8' TALL X 8' WIDE ACCESSIBLE CHAIN LINK DOUBLE SWING GATE   | K<br>D3.0 |     | PLANTING AREA - REFER TO PLANTING PLAN    |           |
| 25  | GUARDRAIL ON WALL                              | D<br>D3.1 | 17  | CONCRETE RAMP                        | A,B,C<br>D6.0 | 7   | SOFTBALL FIELD STRIPING                         | F<br>D4.0 | G4  | 42" TALL X 8" WIDE CHAIN LINK PEDESTRIAN DOUBLE SWING GATE  | D<br>D3.1 |     | SCORE JOINT                               | C<br>D2.0 |
|     |                                                |           |     |                                      |               |     |                                                 |           |     |                                                             |           |     | EXPANSION JOINT                           |           |
|     |                                                |           |     |                                      |               |     |                                                 |           |     |                                                             |           |     | STREETBOND COATING AND COURT STRIPING     |           |

MATERIAL NOTES

- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVEING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
- THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
- ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
- CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4"x4" SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
- ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
- ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.



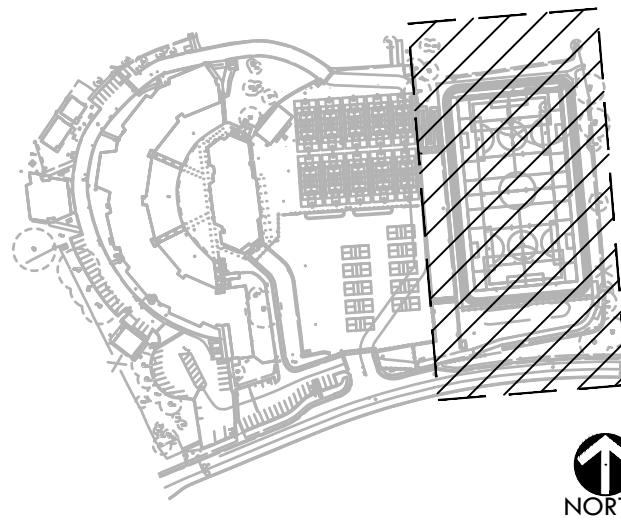
VERDE DESIGN  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesign.com

STAMP



KEY MAP



SHEET TITLE

MATERIAL AND  
DETAIL REFERENCE  
PLAN

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |

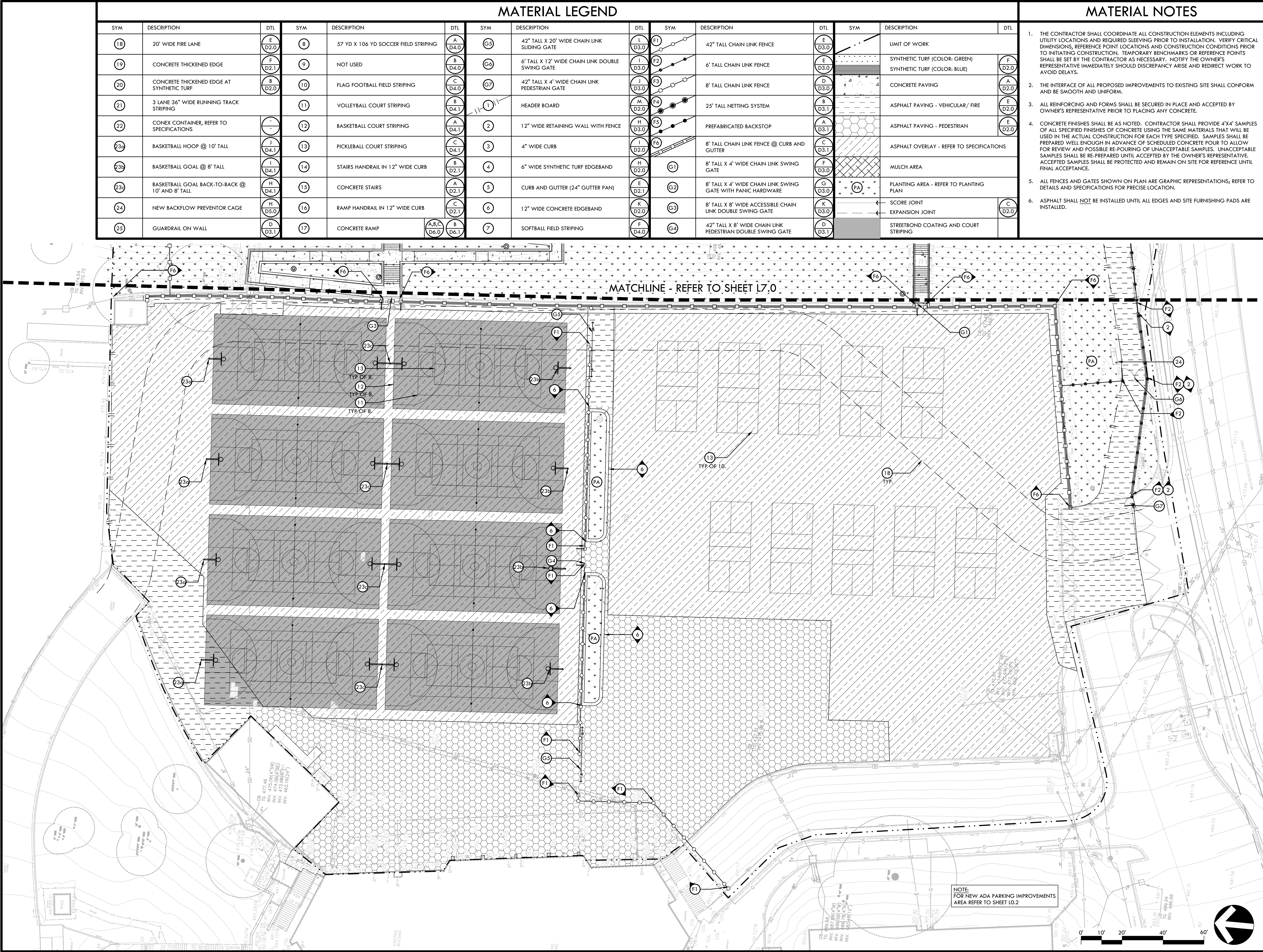
| NO. | REVISIONS | DATE |
|-----|-----------|------|
| 1   |           |      |
| 2   |           |      |
| 3   |           |      |
| 4   |           |      |
| 5   |           |      |
| 6   |           |      |
| 7   |           |      |
| 8   |           |      |
| 9   |           |      |
| 10  |           |      |

|                           |                             |
|---------------------------|-----------------------------|
| DRAWN BY<br>KL/RC         | CHECKED BY<br>JWV           |
| DATE ISSUED<br>12/10/2024 | SCALE<br>1"=20'-0"          |
| VDI PROJ. NO.<br>2320400  | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.<br>L7.0         |                             |

MATERIAL AND DETAIL REFERENCE PLAN



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



## MATERIAL LEGEND

| SYM | DESCRIPTION                                    | DTL       | SYM | DESCRIPTION                          | DTL           | SYM | DESCRIPTION                                     | DTL       | SYM | DESCRIPTION                                                 | DTL       | SYM | DESCRIPTION                               | DTL       |
|-----|------------------------------------------------|-----------|-----|--------------------------------------|---------------|-----|-------------------------------------------------|-----------|-----|-------------------------------------------------------------|-----------|-----|-------------------------------------------|-----------|
| 18  | 20' WIDE FIRE LANE                             | E<br>D2.0 | 8   | 57 YD X 106 YD SOCCER FIELD STRIPING | A<br>D4.0     | G5  | 42" TALL X 20' WIDE CHAIN LINK SLIDING GATE     | L<br>D3.0 | F1  | 42" TALL CHAIN LINK FENCE                                   | E<br>D3.0 |     | LIMIT OF WORK                             |           |
| 19  | CONCRETE THICKENED EDGE                        | F<br>D2.1 | 9   | NOT USED                             | B<br>D4.0     | G6  | 6' TALL X 12' WIDE CHAIN LINK DOUBLE SWING GATE | I<br>D3.0 | F2  | 6' TALL CHAIN LINK FENCE                                    | E<br>D3.0 |     | SYNTHETIC TURF (COLOR: GREEN)             | F<br>D2.0 |
| 20  | CONCRETE THICKENED EDGE AT SYNTHETIC TURF      | B<br>D2.0 | 10  | FLAG FOOTBALL FIELD STRIPING         | C<br>D4.0     | G7  | 42" TALL X 4' WIDE CHAIN LINK PEDESTRIAN GATE   | J<br>D3.0 | F3  | 8' TALL CHAIN LINK FENCE                                    | D<br>D3.0 |     | SYNTHETIC TURF (COLOR: BLUE)              | D2.0      |
| 21  | 3 LANE 36" WIDE RUNNING TRACK STRIPING         |           | 11  | VOLLEYBALL COURT STRIPING            | B<br>D4.1     |     | HEADER BOARD                                    | M<br>D2.0 | F4  | 25' TALL NETTING SYSTEM                                     | B<br>D3.1 |     | CONCRETE PAVING                           | A<br>D2.0 |
| 22  | CONEX CONTAINER, REFER TO SPECIFICATIONS       | -         | 12  | BASKETBALL COURT STRIPING            | A<br>D4.1     | 2   | 12" WIDE RETAINING WALL WITH FENCE              | H<br>D3.0 | F5  | PREFABRICATED BACKSTOP                                      | A<br>D3.1 |     | ASPHALT PAVING - VEHICULAR/ FIRE          | E<br>D2.0 |
| 23a | BASKETBALL HOOP @ 10' TALL                     | J<br>D4.1 | 13  | PICKLEBALL COURT STRIPING            | C<br>D4.1     | 3   | 4" WIDE CURB                                    | I<br>D2.0 | F6  | 8' TALL CHAIN LINK FENCE @ CURB AND GUTTER                  | C<br>D3.1 |     | ASPHALT PAVING - PEDESTRIAN               | E<br>D2.0 |
| 23b | BASKETBALL GOAL @ 8' TALL                      | I<br>D4.1 | 14  | STAIRS HANDRAIL IN 12" WIDE CURB     | B<br>D2.1     | 4   | 6" WIDE SYNTHETIC TURF EDGE BAND                | H<br>D2.0 | G1  | 8' TALL X 4' WIDE CHAIN LINK SWING GATE                     | F<br>D3.0 |     | ASPHALT OVERLAY - REFER TO SPECIFICATIONS |           |
| 23c | BASKETBALL GOAL BACK-TO-BACK @ 10' AND 8' TALL | H<br>D4.1 | 15  | CONCRETE STAIRS                      | A<br>D2.1     | 5   | CURB AND GUTTER (24" GUTTER PAN)                | E<br>D2.1 | G2  | 8' TALL X 4' WIDE CHAIN LINK SWING GATE WITH PANIC HARDWARE | G<br>D3.0 | PA  | MULCH AREA                                |           |
| 24  | NEW BACKFLOW PREVENTOR CAGE                    | H<br>D5.0 | 16  | RAMP HANDRAIL IN 12" WIDE CURB       | C<br>D2.1     | 6   | 12" WIDE CONCRETE EDGE BAND                     | K<br>D2.0 | G3  | 8' TALL X 8' WIDE ACCESSIBLE CHAIN LINK DOUBLE SWING GATE   | K<br>D3.0 |     | PLANTING AREA - REFER TO PLANTING PLAN    |           |
| 25  | GUARDRAIL ON WALL                              | D<br>D3.1 | 17  | CONCRETE RAMP                        | A,B,C<br>D6.0 | 7   | SOFTBALL FIELD STRIPING                         | F<br>D4.0 | G4  | 42" TALL X 8' WIDE CHAIN LINK PEDESTRIAN DOUBLE SWING GATE  | D<br>D3.1 |     | SCORE JOINT                               | C<br>D2.0 |
|     |                                                |           |     |                                      |               |     |                                                 |           |     |                                                             |           |     | EXPANSION JOINT                           |           |
|     |                                                |           |     |                                      |               |     |                                                 |           |     |                                                             |           |     | STREETBOND COATING AND COURT STRIPING     |           |

## MATERIAL NOTES

- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
- THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
- ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
- CONCRETE FINISHES SHALL BE AS NOTED. CONTRACTOR SHALL PROVIDE 4"x4" SAMPLES OF ALL SPECIFIED FINISHES OF CONCRETE USING THE SAME MATERIALS THAT WILL BE USED IN THE ACTUAL CONSTRUCTION FOR EACH TYPE SPECIFIED. SAMPLES SHALL BE PREPARED WELL ENOUGH IN ADVANCE OF SCHEDULED CONCRETE POUR TO ALLOW FOR REVIEW AND POSSIBLE RE-POURING OF UNACCEPTABLE SAMPLES. UNACCEPTABLE SAMPLES SHALL BE RE-PREPARED UNTIL ACCEPTED BY THE OWNER'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
- ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
- ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.

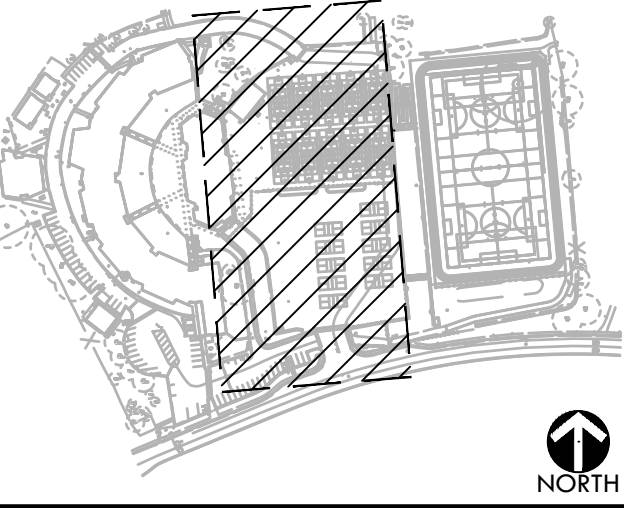


**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
Tel: 408.985.7200  
Fax: 408.985.7260  
www.VerdeDesign.com



KEY MAP



SHEET TITLE

**MATERIAL AND  
DETAIL REFERENCE  
PLAN**

PROJECT NAME

**WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS**

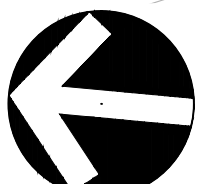
PROJECT ADDRESS

**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

|               |          |
|---------------|----------|
| SUBMITTAL     | DATE     |
| DSA SUBMITTAL | 12/10/24 |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
| 1   |           |      |
| 2   |           |      |
| 3   |           |      |
| 4   |           |      |
| 5   |           |      |
| 6   |           |      |
| 7   |           |      |
| 8   |           |      |
| 9   |           |      |
| 10  |           |      |

|                                  |                                    |
|----------------------------------|------------------------------------|
| DRAWN BY<br><b>KL/RC</b>         | CHECKED BY<br><b>JW</b>            |
| DATE ISSUED<br><b>12/10/2024</b> | SCALE<br><b>1"=20'-0"</b>          |
| VDI PROJ. NO.<br><b>2320400</b>  | SSFSUD PROJ. NO.<br><b>025-960</b> |
| SHEET NO.<br><b>L7.1</b>         |                                    |



**MATERIAL AND DETAIL REFERENCE PLAN**



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

NOTES:  
1. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING IRRIGATION LINES AND VALVES THAT SERVE AREA OUTSIDE OF THE PROJECT AREA. ALL IRRIGATION SYSTEMS SERVING AREAS OUTSIDE THE PROJECT AREA ARE TO BE MAINTAINED AND ACTIVE THROUGHOUT CONSTRUCTION AND THEREAFTER.

IRRIGATION KEYNOTES

1

IRRIGATION MAIN LINE POINT OF CONNECTION. TIE PROPOSED MAIN LINE TO EXISTING SUPPLY LINE. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SUPPLY LINE AND WATER PRESSURE (ASSUMED 75 PSI AS PROVIDED BY OWNER). PROVIDE STATIC WATER PRESSURE RATING TO OWNER'S REPRESENTATIVE. CONTRACTOR TO CREATE A WATERTIGHT SEAL AT CONNECTION BETWEEN EXISTING MAIN LINE AND PROPOSED IRRIGATION MAIN LINE LOOP.

1

XX SF

XX"

XX"

CONTROLLER STATION NUMBER

APPROX. GPM FLOW THROUGH VALVE

CONTROL VALVE SIZE

1

XX SF

XX"

XX"

CONTROLLER STATION NUMBER

APPROX. GPM FLOW THROUGH VALVE

CONTROL VALVE SIZE

BUBBLERS/ROTORS

DRIP TUBING

PIPE SIZING CHART

| GPM THROUGH PIPE | LATERAL PIPE SIZE | SYMBOL |
|------------------|-------------------|--------|
| 0-8              | 3/4"              |        |
| 9-13             | 1"                |        |
| 14-22            | 1-1/4"            |        |
| 23-31            | 1-1/2"            |        |
| 32-52            | 2"                |        |

| SYM. | ITEM                  | MANUF. / MODEL NO.                                                                                                                                 | CAT.RAD. /DES.RAD. | GPM | PSI | DTL REF  |
|------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|-----|----------|
|      | BALL VALVE            | NIRCO: T-FP-600N BRONZE BALL VALVE FOR VALVES 4" AND SMALLER IN SIZE                                                                               |                    |     |     | <br>D5.0 |
|      | QUICK COUPLER VALVE   | RAINBIRD: 44-LRC 1" QUICK COUPLER VALVE IN LANDSCAPE/HARDSCAPE                                                                                     |                    |     |     | <br>D5.0 |
|      | IRRIGATION CONTROLLER | HUNTER: PRO-HC PHC1200 IRRIGATION CONTROLLER, LOCATED ON THE INTERIOR WALL OF STORAGE ROOM                                                         |                    |     |     | <br>D5.1 |
|      | MAIN LINE             | 2 1/2" AND SMALLER: SCHEDULE 40 PVC PURPLE PIPE WITH SOLVENT-WELD FITTINGS, WITH 18" COVER, SIZE AS SHOWN, 3/8" MINIMUM, OR PER PIPE SIZING CHART. |                    |     |     | <br>D5.0 |
|      | LATERAL LINE          | SCHEDULE 40 PVC PURPLE PIPE, WITH SOLVENT-WELD FITTINGS, WITH 18" COVER, SIZE AS SHOWN, 3/8" MINIMUM, OR PER PIPE SIZING CHART.                    |                    |     |     | <br>D5.0 |
|      | IRRIGATION SLEEVE     | CLASS 200 PVC, PURPLE PIPE SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.                       |                    |     |     | <br>D5.0 |
|      | LIMIT OF WORK         |                                                                                                                                                    |                    |     |     |          |

| SYM. | ITEM                   | MANUF. / MODEL NO.                                                                                                                                                                                                                                                          | CAT.RAD. /DES.RAD. | GPM                                 | PSI | DTL REF                          |
|------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------|-----|----------------------------------|
|      | TREE BUBBLER           | HUNTER PCB-50-BUBBLER ASSY. 2 PER 15 GAL. TREE, 4 PER EXISTING TREE, 4 PER 24" BOX, 6 PER 36" AND 48" BOX,                                                                                                                                                                  | -<br>-<br>-<br>-   | .50<br>1.00<br>2.00<br>3.00<br>4.00 | 30  | <br>D5.0                         |
|      | DRIP ZONE              | NETAFIM: SHRUB AREAS WITH TLHCVXR DRILINE WITH .33 GPH AND 18" SPACING FOR EMITTERS; TUBING IS TO BE LAID DOWN WITH 18" O.C. SPACING; INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS, DETAILS, AND SPECIFICATIONS. COIL LENGTH TO BE DETERMINED AS NEEDED FOR FULL COVERAGE. |                    |                                     |     | <br>D5.1<br><br>D5.1<br><br>D5.0 |
|      | ROTATOR HEAD           | HUNTER MP-3000 PROS-12-PRS40 CV HEAD                                                                                                                                                                                                                                        | 25' - 30' VARIES   | .86-3.64                            | 40  | <br>D5.0                         |
|      | REMOTE CONTROL VALVE   | GRISWOLD: P-2230 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR, SIZE AS NOTED                                                                                                                                                                                                |                    |                                     |     | <br>D5.0                         |
|      | DRIP CONTROL VALVE KIT | NETAFIM: 0.25 TO 4.4 GPM - LVCZS805F10075-LF 4.5 TO 17.6 GPM - LVCZSF10075 - HFHP                                                                                                                                                                                           |                    |                                     |     | <br>D5.1                         |

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (75) GPM WITH A MINIMUM (50) STATIC P.S.I. AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
- CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
- IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
- CONTRACTOR SHALL PROGRAM CONTROLLER TO ENSURE PROPER IRRIGATION. BASED ON PLANT TYPE, EXPOSURE AND SEASON.
- CONTRACTOR SHALL USE EXTREME CARE WHERE IT IS NECESSARY TO TRENCH NEAR EXISTING TREES. EXCAVATION IN AREAS EXHIBITING ROOT 3" AND LARGER SHALL BE DONE BY HAND. ROOTS 2" OR LARGER IN DIAMETER DAMAGED IN CONSTRUCTION SHALL BE CLEANLY CUT.
- CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY.
- CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

VERDE DESIGN

LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com

STAMP

KEY MAP

SHEET TITLE

IRRIGATION PLAN

PROJECT NAME

WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |

|               |            |                  |           |
|---------------|------------|------------------|-----------|
| DRAWN BY      | KL / RC    | CHECKED BY       | JW        |
| DATE ISSUED   | 12/10/2024 | SCALE            | 1"=20'-0" |
| VDI PROJ. NO. | 2320400    | SSFSUD PROJ. NO. | 025-960   |
| SHEET NO.     | L8.0       |                  |           |

IRRIGATION PLAN



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

NOTES:  
1. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING IRRIGATION LINES AND VALVES THAT SERVE AREA OUTSIDE OF THE PROJECT AREA. ALL IRRIGATION SYSTEMS SERVING AREAS OUTSIDE THE PROJECT AREA ARE TO BE MAINTAINED AND ACTIVE THROUGHOUT CONSTRUCTION AND THEREAFTER.

IRRIGATION KEYNOTES

1

IRRIGATION MAIN LINE POINT OF CONNECTION. TIE PROPOSED MAIN LINE TO EXISTING SUPPLY LINE. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SUPPLY LINE AND WATER PRESSURE (ASSUMED 75 PSI AS PROVIDED BY OWNER). PROVIDE STATIC WATER PRESSURE RATING TO OWNER'S REPRESENTATIVE. CONTRACTOR TO CREATE A WATERTIGHT SEAL AT CONNECTION BETWEEN EXISTING MAIN LINE AND PROPOSED IRRIGATION MAIN LINE LOOP.

1

XX SF

XX" XX"X

CONTROLLER STATION NUMBER  
APPROX. GPM FLOW THROUGH VALVE  
CONTROL VALVE SIZE

1

XX SF

XX" XX"X

CONTROLLER STATION NUMBER  
DRIp ZONE SQUARE FOOTAGE  
APPROX. GPM FLOW THROUGH VALVE  
CONTROL VALVE SIZE

BUBBLERS/ROTORS

DRIp TUBING

PIPE SIZING CHART

| GPM THROUGH PIPE | LATERAL PIPE SIZE | SYMBOL |
|------------------|-------------------|--------|
| 0-8              | 3/4"              |        |
| 9-13             | 1"                |        |
| 14-22            | 1-1/4"            |        |
| 23-31            | 1-1/2"            |        |
| 32-52            | 2"                |        |

IRRIGATION LEGEND

| SYM. | ITEM                  | MANUF. / MODEL NO.                                                                                                                                                                            | CAT.RAD. /DES.RAD. | GPM | PSI | DTL REF         |
|------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----|-----|-----------------|
|      | BALL VALVE            | NIBCO: T-FP-600N BRONZE BALL VALVE FOR VALVES 4" AND SMALLER IN SIZE                                                                                                                          | -                  | -   | -   | <br>B<br>D5.0   |
|      | QUICK COUPLER VALVE   | RAINBIRD: 44-LRC 1" QUICK COUPLER VALVE IN LANDSCAPE/HARDSCAPE                                                                                                                                | -                  | -   | -   | <br>D<br>D5.0   |
|      | IRRIGATION CONTROLLER | HUNTER: PRO-HC PHC1200 IRRIGATION CONTROLLER, LOCATED ON THE INTERIOR WALL OF STORAGE ROOM                                                                                                    | -                  | -   | -   | <br>L<br>D5.1   |
|      | MAIN LINE             | 2 1/2" AND SMALLER: SCHEDULE 40 PVC PURPLE PIPE WITH SOLVENT- WELD FITTINGS. 3" AND LARGER: CLASS 200 PVC PIPE WITH RING-TITE CONNECTIONS WITH MECHANICAL RESTRAINT FITTINGS, WITH 24" COVER. | -                  | -   | -   | <br>A,F<br>D5.0 |
|      | LATERAL LINE          | SCHEDULE 40 PVC PURPLE PIPE, WITH SOLVENT-WELD FITTINGS, WITH 18" COVER, SIZE AS SHOWN, 3/4" MINIMUM, OR PER PIPE SIZING CHART.                                                               | -                  | -   | -   | <br>A<br>D5.0   |
|      | IRRIGATION SLEEVE     | CLASS 200 PVC, PURPLE PIPE SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.                                                                  | -                  | -   | -   | <br>A<br>D5.0   |
|      | LIMIT OF WORK         |                                                                                                                                                                                               |                    |     |     |                 |

| SYM. | ITEM                   | MANUF. / MODEL NO.                                                                                                                                                                                                                                                           | CAT.RAD. /DES.RAD. | GPM                                 | PSI | DTL REF                        |
|------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------|-----|--------------------------------|
|      | TREE BUBBLER           | HUNTER PCB-50-BUBBLER ASSY. 2 PER 15 GAL. TREE, 4 PER EXISTING TREE, 4 PER 24" BOX, 6 PER 36" AND 48" BOX,                                                                                                                                                                   | -                  | .50<br>1.00<br>2.00<br>3.00<br>4.00 | 30  | <br>K<br>D5.0                  |
|      | DRIp ZONE              | NETAFIM: SHRUB AREAS WITH TLHCVXR DRIPLINE WITH .33 GPH AND 18" SPACING FOR EMITTERS; TUBING IS TO BE LAID DOWN WITH 18" O.C. SPACING; INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS, DETAILS, AND SPECIFICATIONS. COIL LENGTH TO BE DETERMINED AS NEEDED FOR FULL COVERAGE. | -                  | -                                   | -   | <br>C,D<br>D5.1<br>E,F<br>D5.1 |
|      | ROTATOR HEAD           | HUNTER MP-3000 PROS-12-PRS40 CV HEAD                                                                                                                                                                                                                                         | 25' - 30' VARIES   | .86-3.64                            | 40  | <br>G<br>D5.0                  |
|      | REMOTE CONTROL VALVE   | GRISWOLD: P-2230 REMOTE CONTROL VALVE WITH PRESSURE REGULATOR, SIZE AS NOTED                                                                                                                                                                                                 | -                  | -                                   | -   | <br>B<br>D5.0                  |
|      | DRIp CONTROL VALVE KIT | NETAFIM: 0.25 TO 4.4 GPM - LVCZS80SF10075-LF 4.5 TO 17.6 GPM - LVCZSF10075 - HFHP                                                                                                                                                                                            | -                  | -                                   | -   | <br>J,I<br>D5.1                |

IRRIGATION NOTES

- THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (75) GPM WITH A MINIMUM (50) STATIC P.S.I. AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
- CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
- IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK; INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
- CONTRACTOR SHALL PROGRAM CONTROLLER TO ENSURE PROPER IRRIGATION. BASED ON PLANT TYPE, EXPOSURE AND SEASON.
- CONTRACTOR SHALL USE EXTREME CARE WHERE IT IS NECESSARY TO TRENCH NEAR EXISTING TREES. EXCAVATION IN AREAS EXHIBITING ROOT 3" AND LARGER SHALL BE DONE BY HAND. ROOTS 2" OR LARGER IN DIAMETER DAMAGED IN CONSTRUCTION SHALL BE CLEANLY CUT.
- CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY.
- CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

VERDE DESIGN

LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesignInc.com

STAMP

KEY MAP

SHEET TITLE

IRRIGATION PLAN

PROJECT NAME

WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS

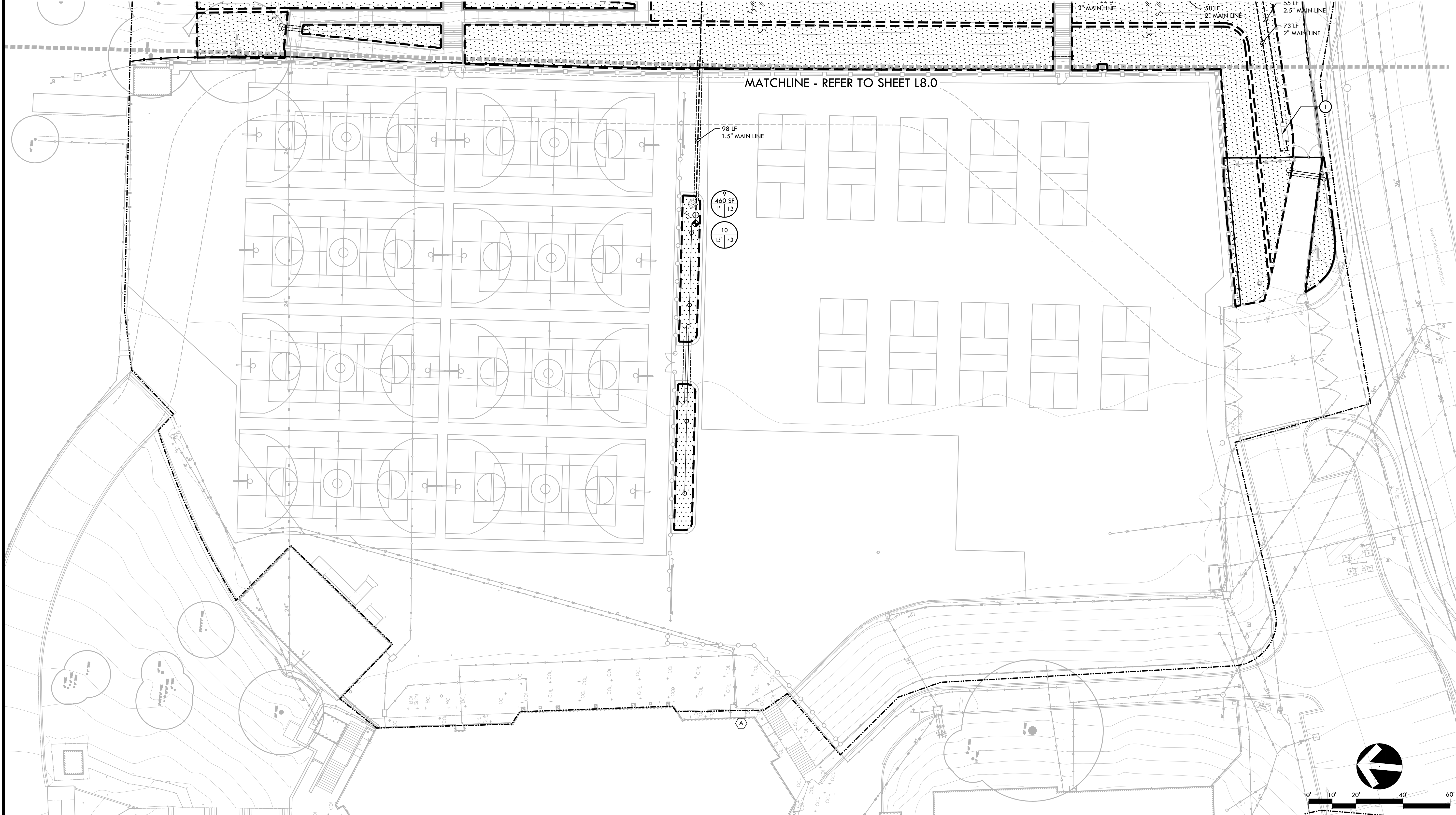
PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |
|               |          |
|               |          |
|               |          |
|               |          |

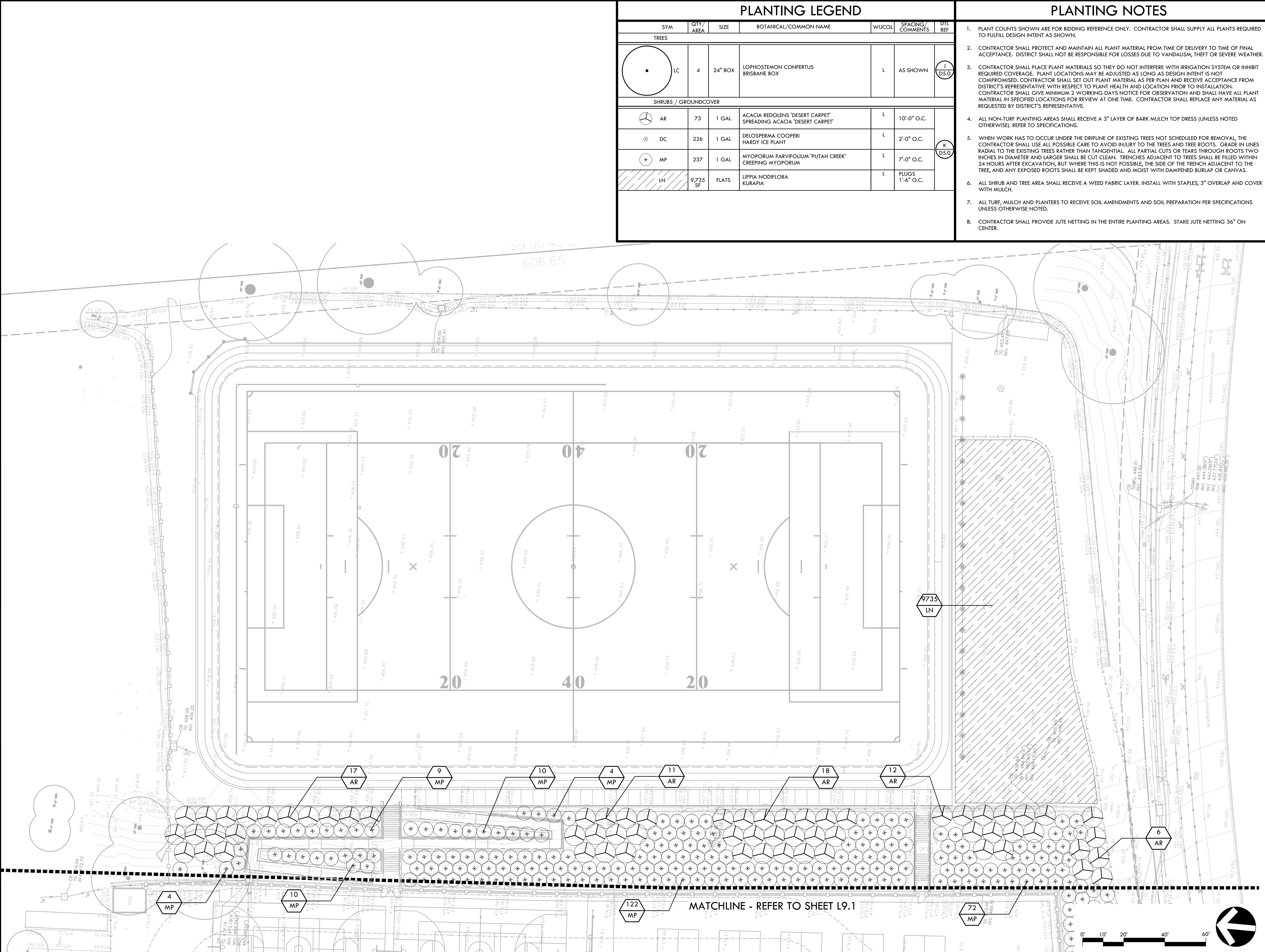
| NO. | REVISIONS | DATE |
|-----|-----------|------|
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |

|                           |                             |
|---------------------------|-----------------------------|
| DRAWN BY<br>KL / RC       | CHECKED BY<br>JWV           |
| DATE ISSUED<br>12/10/2024 | SCALE<br>1"=20'-0"          |
| VDI PROJ. NO.<br>2320400  | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.<br>L8.1         | IRRIGATION PLAN             |





ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



| PLANTING LEGEND      |            |          |                       |                                                                     |                    |                     |
|----------------------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|---------------------|
| SYM                  | QTY / AREA | SIZE     | BOTANICAL/COMMON NAME | WUCOL                                                               | SPACING / COMMENTS | DTL REF             |
| TREES                |            |          |                       |                                                                     |                    |                     |
|                      | LC         | 4        | 24" BOX               | LOPHOSTEMON CONFERTUS<br>BRISBANE BOX                               | L                  | AS SHOWN            |
| SHRUBS / GROUNDCOVER |            |          |                       |                                                                     |                    |                     |
|                      | AR         | 73       | 1 GAL                 | ACACIA REDOLENS 'DESERT CARPET'<br>SPREADING ACACIA 'DESERT CARPET' | L                  | 10'-0" O.C.         |
|                      | DC         | 226      | 1 GAL                 | DELOSPERMA COOPERI<br>HARDY ICE PLANT                               | L                  | 2'-0" O.C.          |
|                      | MP         | 237      | 1 GAL                 | MYOPORUM PARVIFOLIUM 'PUTAH CREEK'<br>CREEPING MYOPORUM             | L                  | 7'-0" O.C.          |
|                      | LN         | 9,735 SF | FLATS                 | LIPPIA NODIFLORA<br>KURAPIA                                         | L                  | PLUGS<br>1'-6" O.C. |

- PLANTING NOTES**
- PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
  - CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. DISTRICT SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
  - CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM DISTRICT'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY DISTRICT'S REPRESENTATIVE.
  - ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE), REFER TO SPECIFICATIONS.
  - WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
  - ALL SHRUB AND TREE AREA SHALL RECEIVE A WEED FABRIC LAYER. INSTALL WITH STAPLES, 3" OVERLAP AND COVER WITH MULCH.
  - ALL TURF, MULCH AND PLANTERS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL PROVIDE JUTE NETTING IN THE ENTIRE PLANTING AREAS. STAKE JUTE NETTING 36" ON CENTER.

**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER  
EXPIRATION DATE: June 30, 2025  
No. C-56494  
Signature  
STATE OF CALIFORNIA

KEY MAP

NORTH

SHEET TITLE

PLANTING PLAN

PROJECT NAME

WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

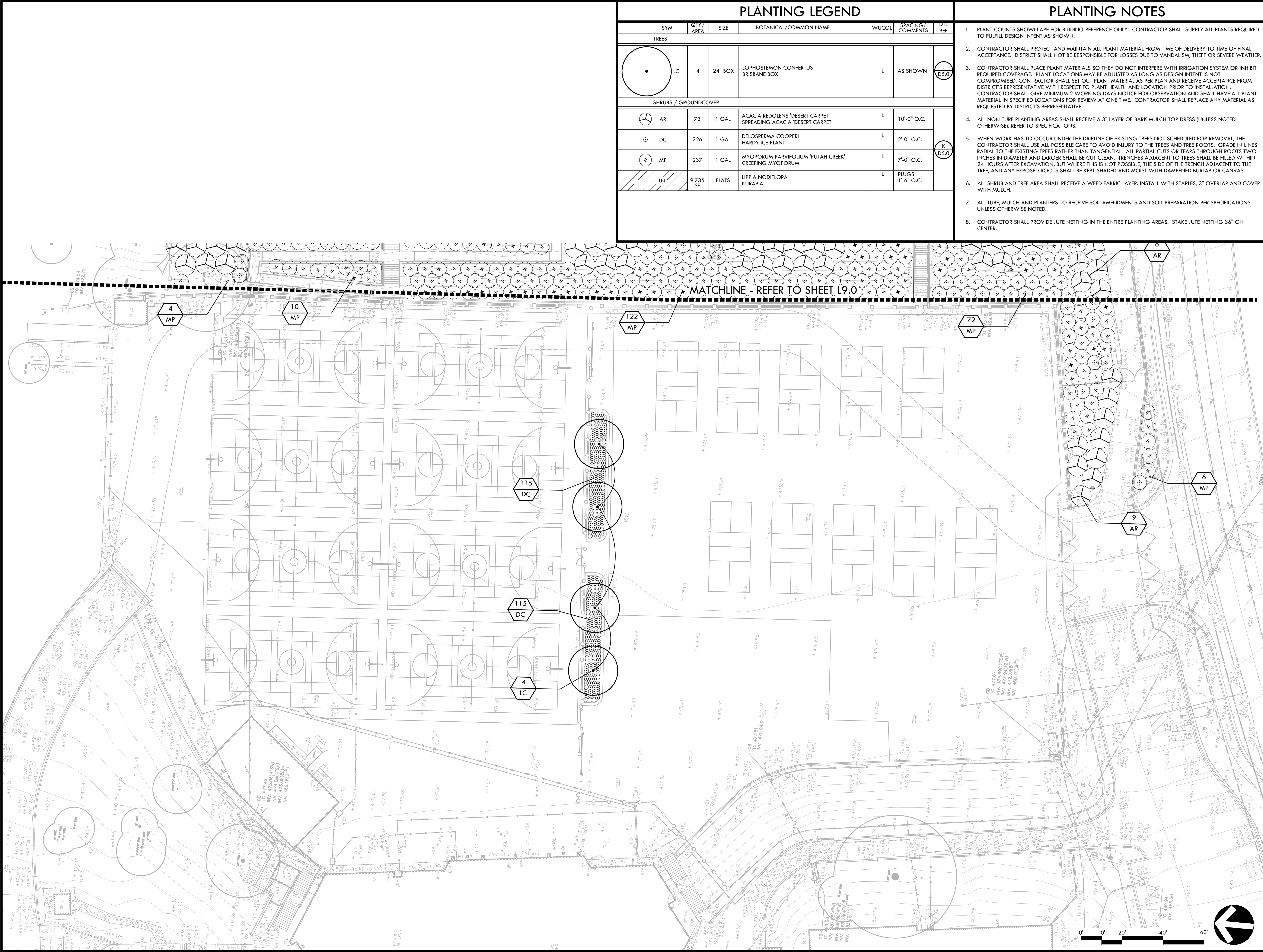
|               |          |
|---------------|----------|
| SUBMITTAL     | DATE     |
| DSA SUBMITTAL | 12/10/24 |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
| 1   |           |      |
| 2   |           |      |
| 3   |           |      |
| 4   |           |      |
| 5   |           |      |
| 6   |           |      |
| 7   |           |      |
| 8   |           |      |
| 9   |           |      |
| 10  |           |      |
| 11  |           |      |
| 12  |           |      |
| 13  |           |      |
| 14  |           |      |
| 15  |           |      |
| 16  |           |      |
| 17  |           |      |
| 18  |           |      |
| 19  |           |      |
| 20  |           |      |
| 21  |           |      |
| 22  |           |      |
| 23  |           |      |
| 24  |           |      |
| 25  |           |      |
| 26  |           |      |
| 27  |           |      |
| 28  |           |      |
| 29  |           |      |
| 30  |           |      |
| 31  |           |      |
| 32  |           |      |
| 33  |           |      |
| 34  |           |      |
| 35  |           |      |
| 36  |           |      |
| 37  |           |      |
| 38  |           |      |
| 39  |           |      |
| 40  |           |      |
| 41  |           |      |
| 42  |           |      |
| 43  |           |      |
| 44  |           |      |
| 45  |           |      |
| 46  |           |      |
| 47  |           |      |
| 48  |           |      |
| 49  |           |      |
| 50  |           |      |
| 51  |           |      |
| 52  |           |      |
| 53  |           |      |
| 54  |           |      |
| 55  |           |      |
| 56  |           |      |
| 57  |           |      |
| 58  |           |      |
| 59  |           |      |
| 60  |           |      |
| 61  |           |      |
| 62  |           |      |
| 63  |           |      |
| 64  |           |      |
| 65  |           |      |
| 66  |           |      |
| 67  |           |      |
| 68  |           |      |
| 69  |           |      |
| 70  |           |      |
| 71  |           |      |
| 72  |           |      |
| 73  |           |      |
| 74  |           |      |
| 75  |           |      |
| 76  |           |      |
| 77  |           |      |
| 78  |           |      |
| 79  |           |      |
| 80  |           |      |
| 81  |           |      |
| 82  |           |      |
| 83  |           |      |
| 84  |           |      |
| 85  |           |      |
| 86  |           |      |
| 87  |           |      |
| 88  |           |      |
| 89  |           |      |
| 90  |           |      |
| 91  |           |      |
| 92  |           |      |
| 93  |           |      |
| 94  |           |      |
| 95  |           |      |
| 96  |           |      |
| 97  |           |      |
| 98  |           |      |
| 99  |           |      |
| 100 |           |      |
| 101 |           |      |
| 102 |           |      |
| 103 |           |      |
| 104 |           |      |
| 105 |           |      |
| 106 |           |      |
| 107 |           |      |
| 108 |           |      |
| 109 |           |      |
| 110 |           |      |
| 111 |           |      |
| 112 |           |      |
| 113 |           |      |
| 114 |           |      |
| 115 |           |      |
| 116 |           |      |
| 117 |           |      |
| 118 |           |      |
| 119 |           |      |
| 120 |           |      |
| 121 |           |      |
| 122 |           |      |
| 123 |           |      |
| 124 |           |      |
| 125 |           |      |
| 126 |           |      |
| 127 |           |      |
| 128 |           |      |
| 129 |           |      |
| 130 |           |      |
| 131 |           |      |
| 132 |           |      |
| 133 |           |      |
| 134 |           |      |
| 135 |           |      |
| 136 |           |      |
| 137 |           |      |
| 138 |           |      |
| 139 |           |      |
| 140 |           |      |
| 141 |           |      |
| 142 |           |      |
| 143 |           |      |
| 144 |           |      |
| 145 |           |      |
| 146 |           |      |
| 147 |           |      |
| 148 |           |      |
| 149 |           |      |
| 150 |           |      |
| 151 |           |      |
| 152 |           |      |
| 153 |           |      |
| 154 |           |      |
| 155 |           |      |
| 156 |           |      |
| 157 |           |      |
| 158 |           |      |
| 159 |           |      |
| 160 |           |      |
| 161 |           |      |
| 162 |           |      |
| 163 |           |      |
| 164 |           |      |
| 165 |           |      |
| 166 |           |      |
| 167 |           |      |
| 168 |           |      |
| 169 |           |      |
| 170 |           |      |
| 171 |           |      |
| 172 |           |      |
| 173 |           |      |
| 174 |           |      |
| 175 |           |      |
| 176 |           |      |
| 177 |           |      |
| 178 |           |      |
| 179 |           |      |
| 180 |           |      |
| 181 |           |      |
| 182 |           |      |
| 183 |           |      |
| 184 |           |      |
| 185 |           |      |
| 186 |           |      |
| 187 |           |      |
| 188 |           |      |
| 189 |           |      |
| 190 |           |      |
| 191 |           |      |
| 192 |           |      |
| 193 |           |      |
| 194 |           |      |
| 195 |           |      |
| 196 |           |      |
| 197 |           |      |
| 198 |           |      |
| 199 |           |      |
| 200 |           |      |

|                           |                             |
|---------------------------|-----------------------------|
| DRAWN BY<br>KL / RC       | CHECKED BY<br>JW            |
| DATE ISSUED<br>12/10/2024 | SCALE<br>1"=20'-0"          |
| VDI PROJ. NO.<br>2320400  | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.<br>L9.0         |                             |



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



DRAWING NAME: Y:\Projects-SC\2023\2320400 - Westborough MS Campus Improvements\CAD\L9.0 PLT.dwg  
PLOT DATE: 02-14-25  
PLOTTED BY: station12

| PLANTING LEGEND       |            |          |                       |                                                                     |                    |                     |
|-----------------------|------------|----------|-----------------------|---------------------------------------------------------------------|--------------------|---------------------|
| SYM                   | QTY / AREA | SIZE     | BOTANICAL/COMMON NAME | WUCOL                                                               | SPACING / COMMENTS | DTL REF             |
| TREES                 |            |          |                       |                                                                     |                    |                     |
|                       | LC         | 4        | 24" BOX               | L                                                                   | AS SHOWN           | J<br>05.0           |
| SHRUBS / GROUND COVER |            |          |                       |                                                                     |                    |                     |
|                       | AR         | 73       | 1 GAL                 | ACACIA REDOLENS 'DESERT CARPET'<br>SPREADING ACACIA 'DESERT CARPET' | L                  | 10'-0" O.C.         |
|                       | DC         | 226      | 1 GAL                 | DELOSPERMA COOPERI<br>HARDY ICE PLANT                               | L                  | 2'-0" O.C.          |
|                       | MP         | 237      | 1 GAL                 | MYOPORUM PARVIFOLIUM 'PUTAH CREEK'<br>CREEPING MYOPORUM             | L                  | 7'-0" O.C.          |
|                       | LN         | 9,735 SF | FLATS                 | LIPPIA NODIFLORA<br>KURAPIA                                         | L                  | PLUGS<br>1'-6" O.C. |

- ### PLANTING NOTES
- PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
  - CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. DISTRICT SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
  - CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM DISTRICT'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY DISTRICT'S REPRESENTATIVE.
  - ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE), REFER TO SPECIFICATIONS.
  - WHEN WORK HAS TO OCCUR UNDER THE DRIPLINE OF EXISTING TREES NOT SCHEDULED FOR REMOVAL, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO THE TREES AND TREE ROOTS. GRADE IN LINES RADIAL TO THE EXISTING TREES RATHER THAN TANGENTIAL. ALL PARTIAL CUTS OR TEARS THROUGH ROOTS TWO INCHES IN DIAMETER AND LARGER SHALL BE CUT CLEAN. TRENCHES ADJACENT TO TREES SHALL BE FILLED WITHIN 24 HOURS AFTER EXCAVATION, BUT WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE, AND ANY EXPOSED ROOTS SHALL BE KEPT SHADED AND MOIST WITH DAMPENED BURLAP OR CANVAS.
  - ALL SHRUB AND TREE AREA SHALL RECEIVE A WEED FABRIC LAYER. INSTALL WITH STAPLES, 3" OVERLAP AND COVER WITH MULCH.
  - ALL TURF, MULCH AND PLANTERS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL PROVIDE JUTE NETTING IN THE ENTIRE PLANTING AREAS. STAKE JUTE NETTING 36" ON CENTER.

**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesignInc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER  
CIVIL ENGINEERING  
No. C-56494  
Signature  
EXPIRATION DATE: June 30, 2025  
STATE OF CALIFORNIA

KEY MAP

SHEET TITLE

**PLANTING PLAN**

PROJECT NAME

**WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS**

PROJECT ADDRESS

**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

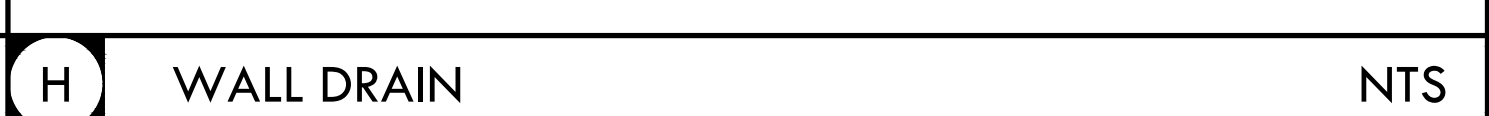
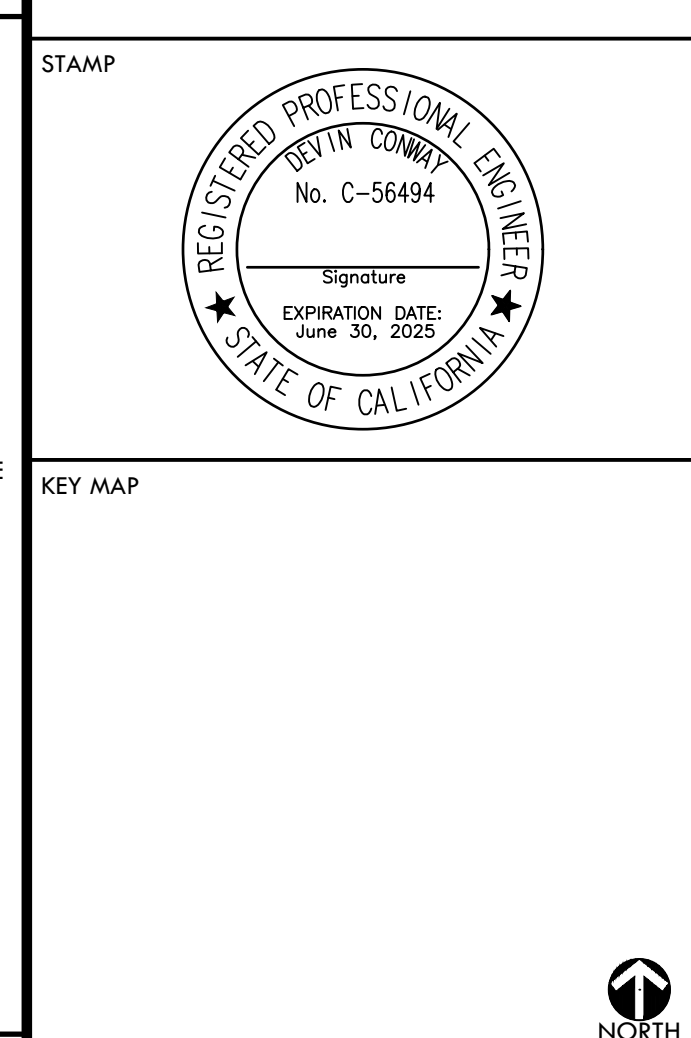
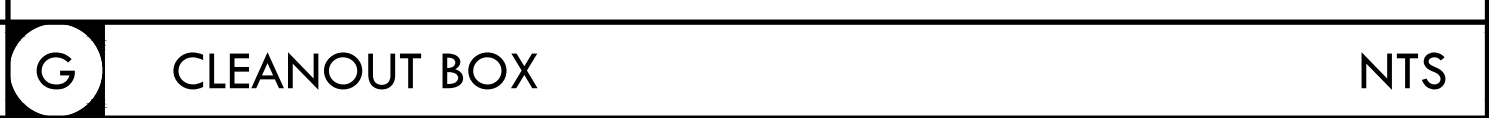
| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |
|               |          |
|               |          |
|               |          |
|               |          |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |

|               |            |                  |           |
|---------------|------------|------------------|-----------|
| DRAWN BY      | KL / RC    | CHECKED BY       | JW        |
| DATE ISSUED   | 12/10/2024 | SCALE            | 1"=20'-0" |
| VDI PROJ. NO. | 2320400    | SSFUSD PROJ. NO. | 025-960   |
| SHEET NO.     | L9.1       |                  |           |

PLANTING PLAN



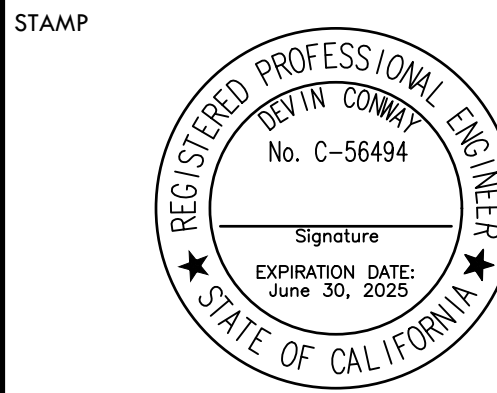
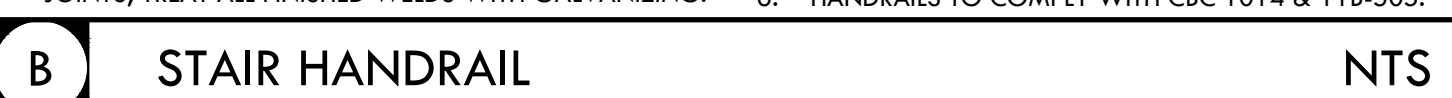


## CONSTRUCTION DETAILS





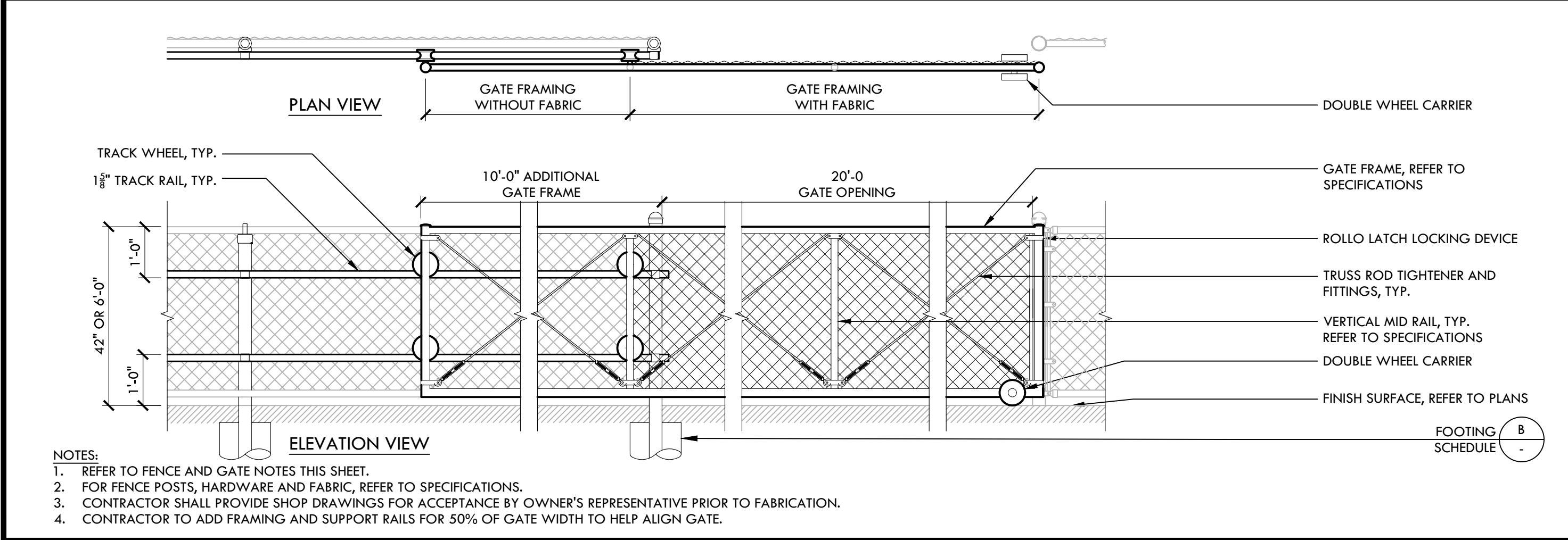




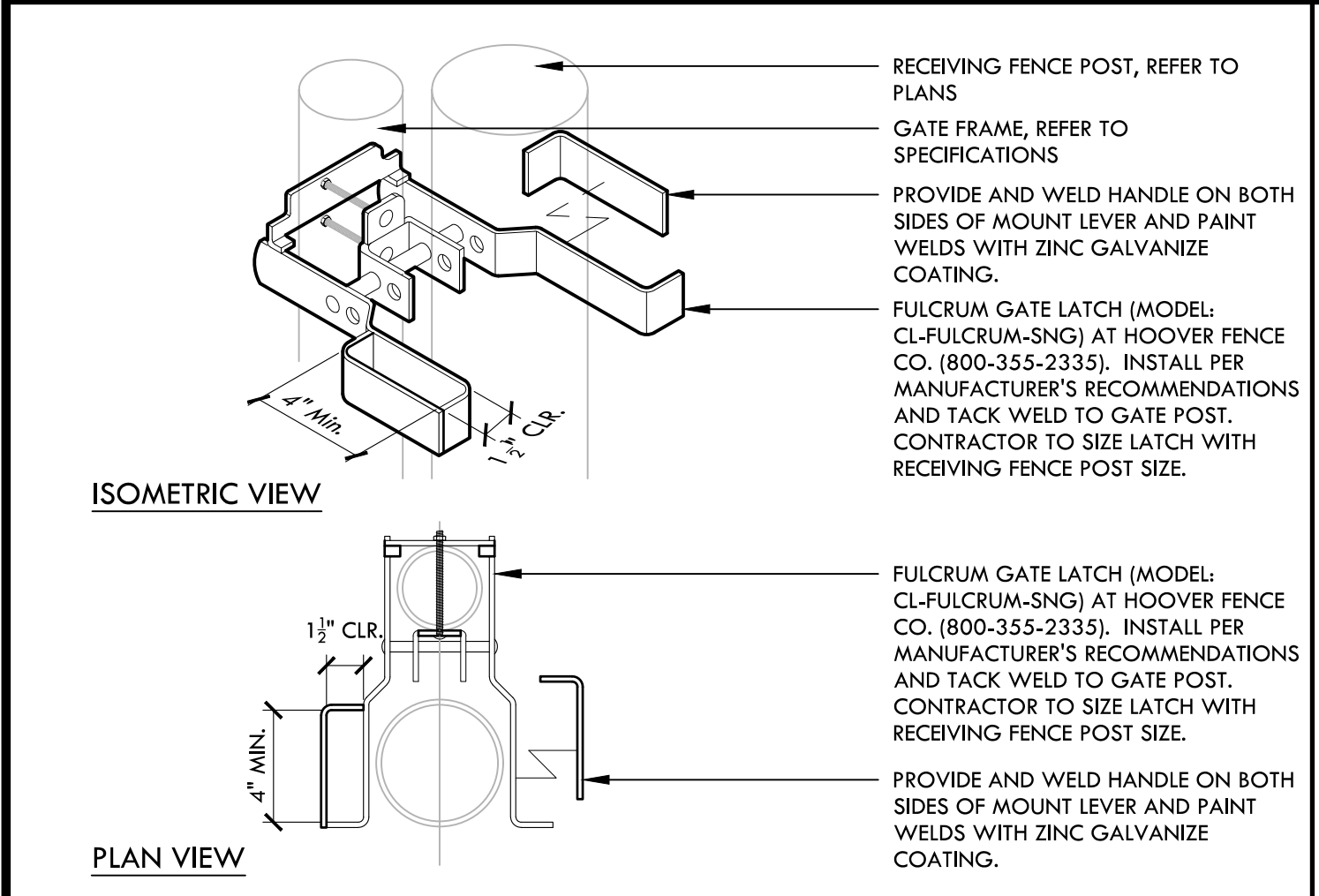
## CONSTRUCTION DETAILS



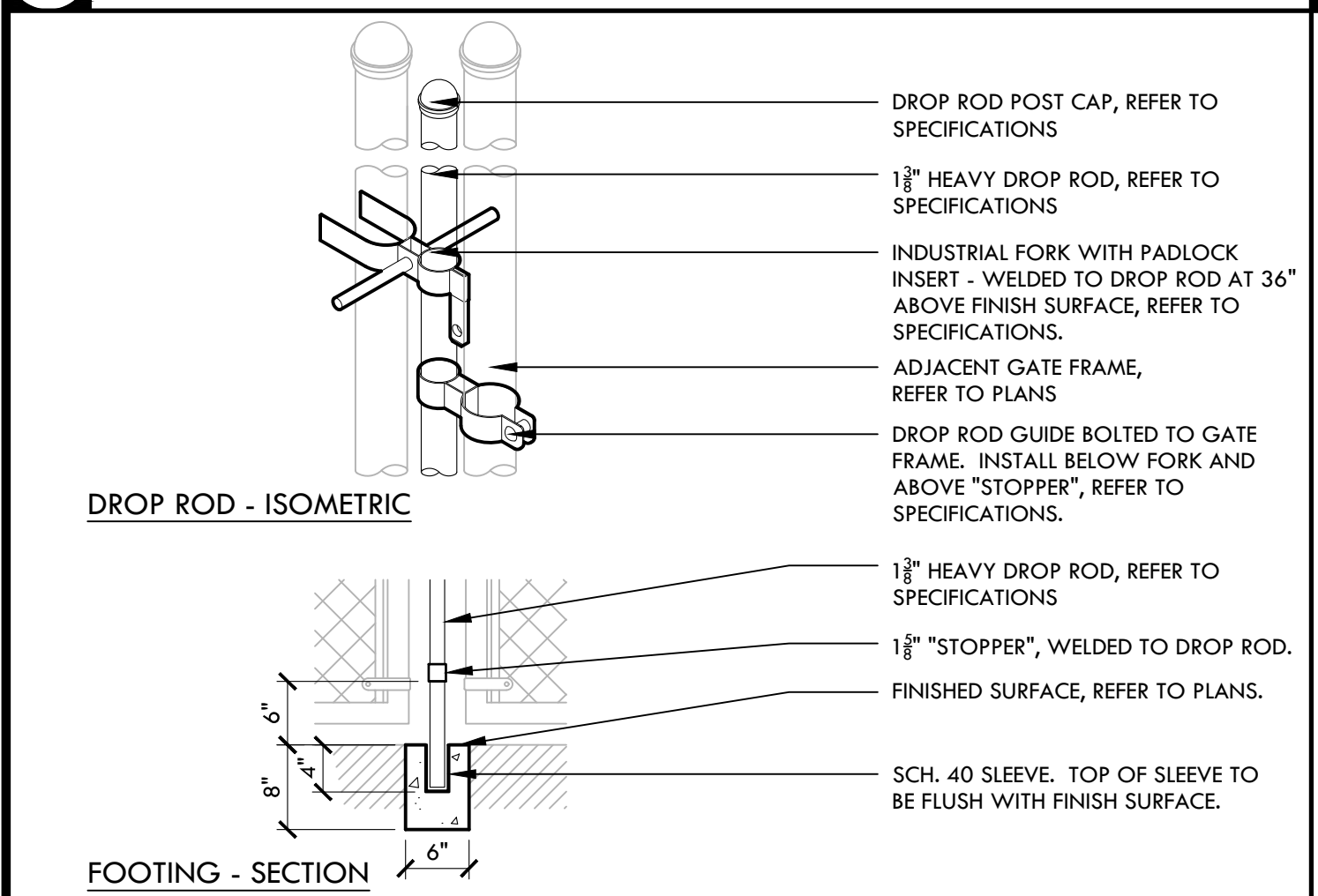
ALL IDEAS, DESIGN, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



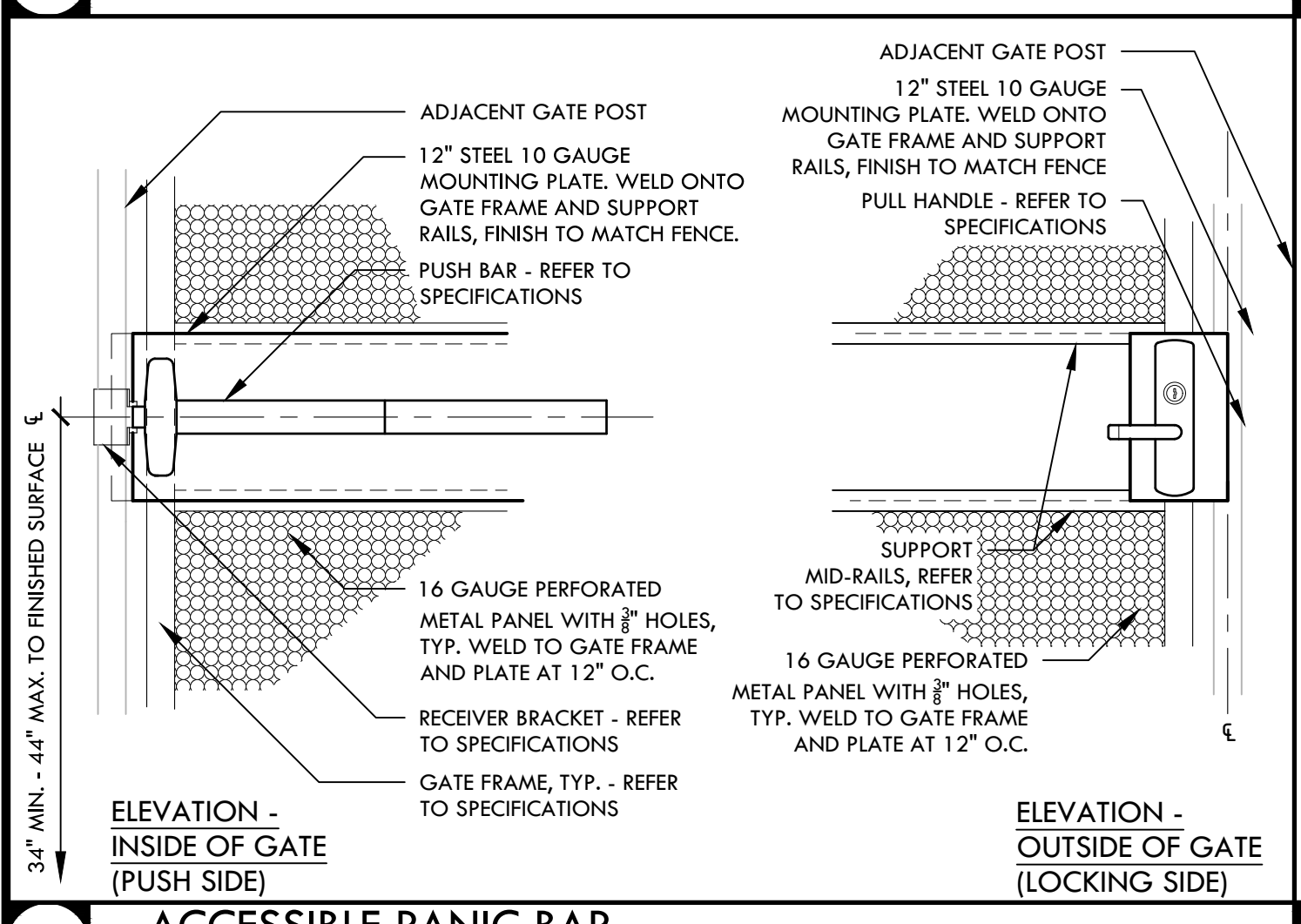
**L** 42" TALL X 20' WIDE CHAIN LINK SLIDING GATE NTS



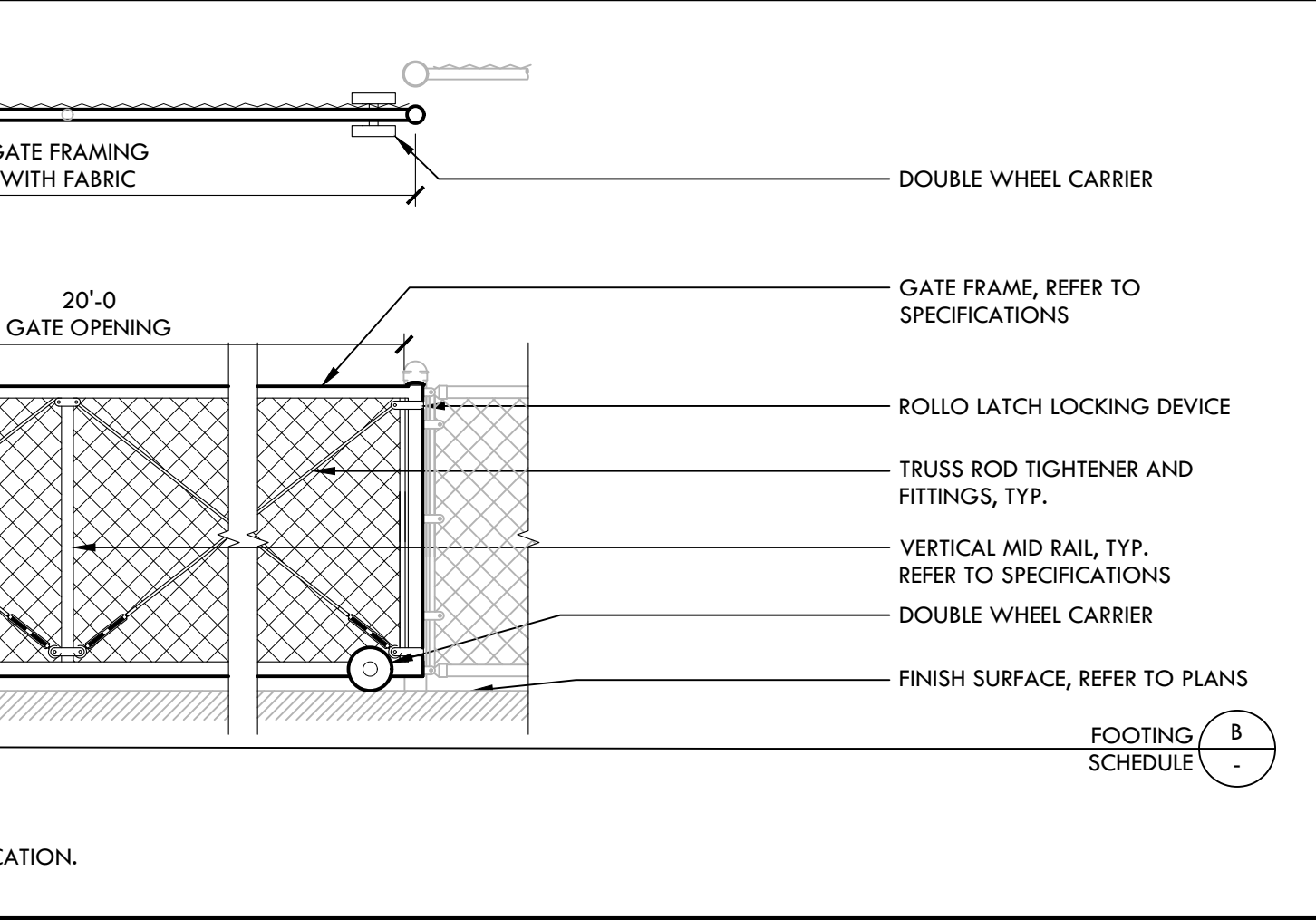
**O** GATE LATCH NTS



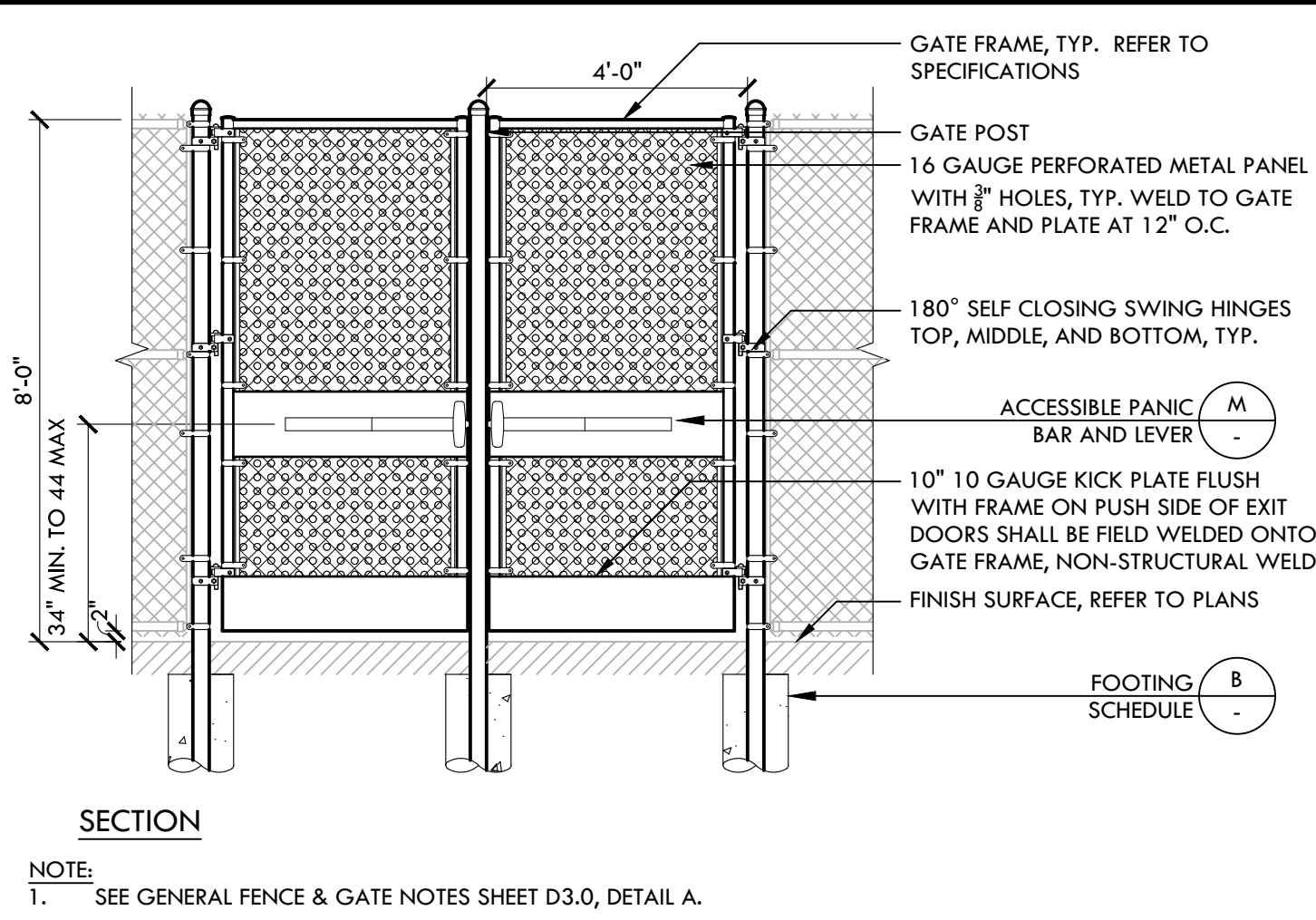
**N** GATE - DROP ROD NTS



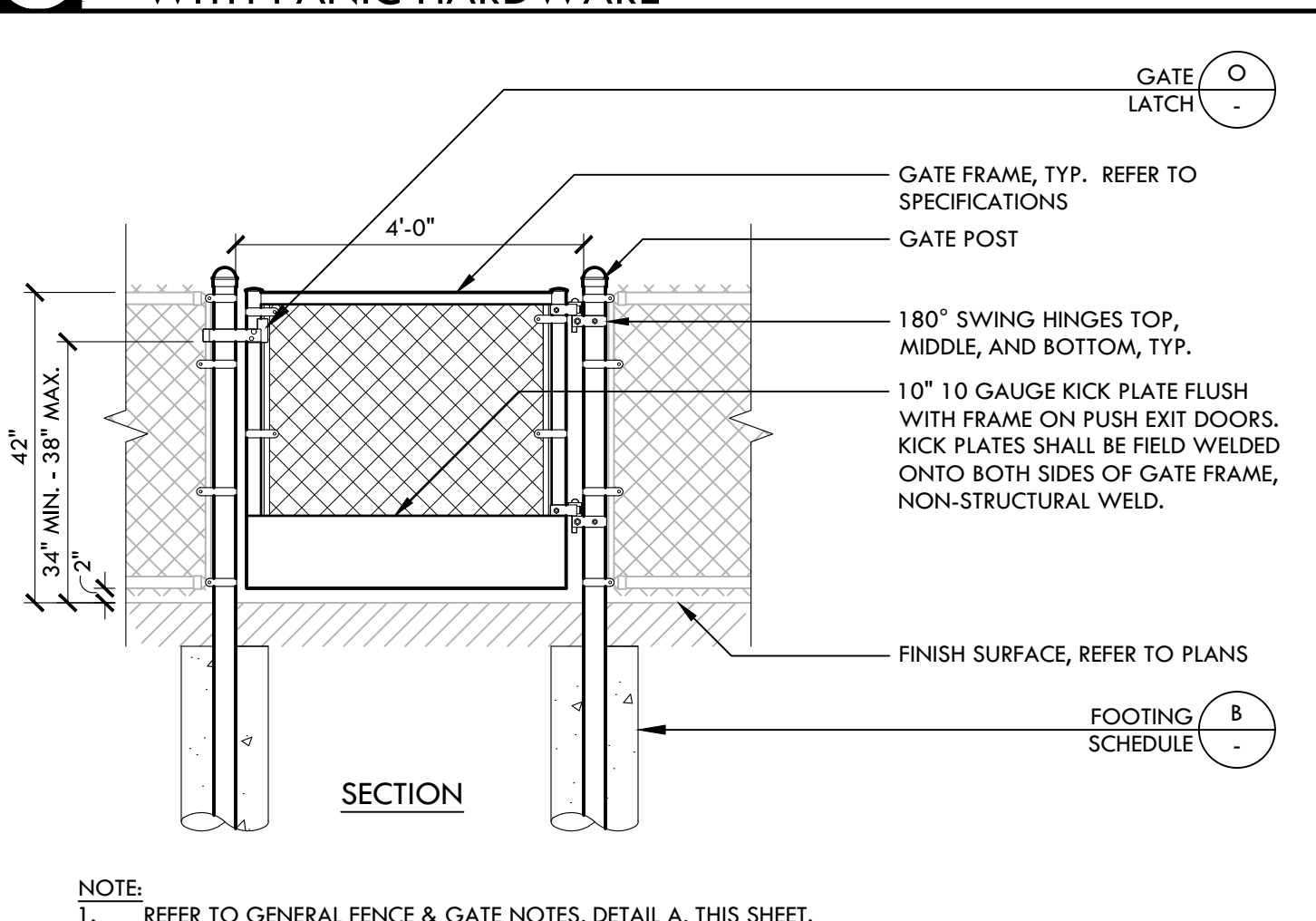
**M** ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE NTS



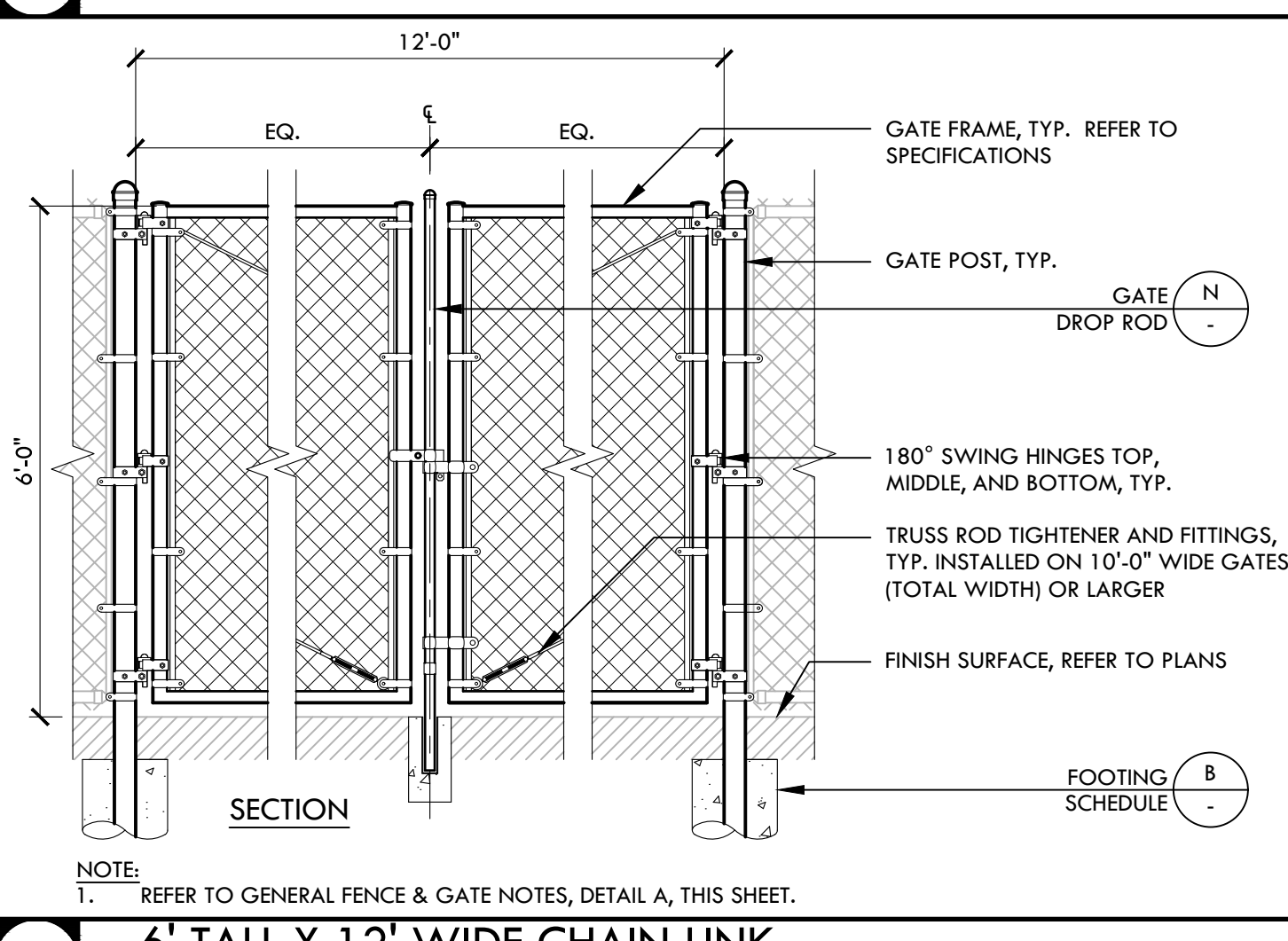
**H** 12" WIDE TALL CURB WITH FENCE (36" TALL MAX.) NTS



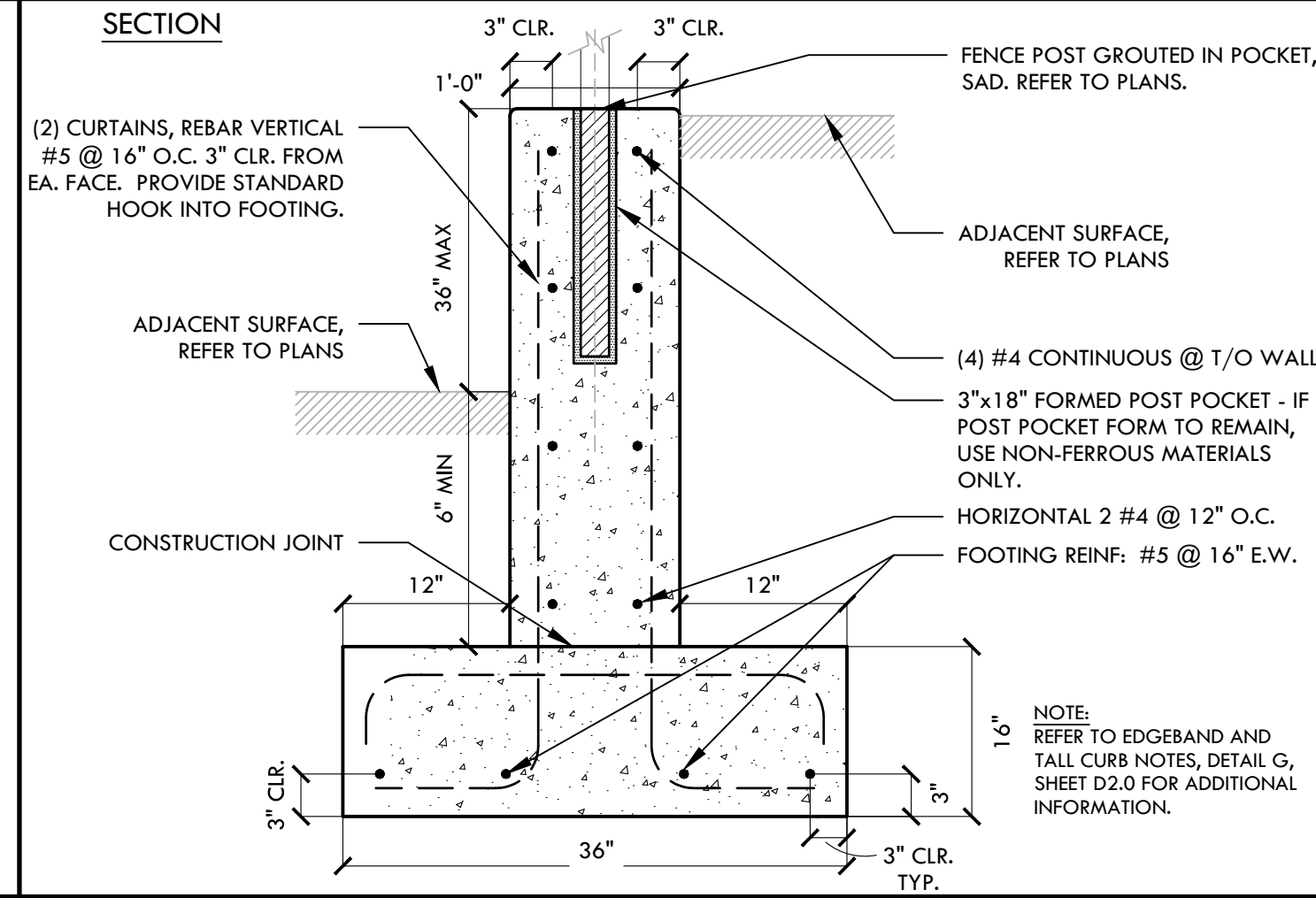
**K** 8' TALL X 4' DOUBLE SWING GATE WITH PANIC HARDWARE NTS



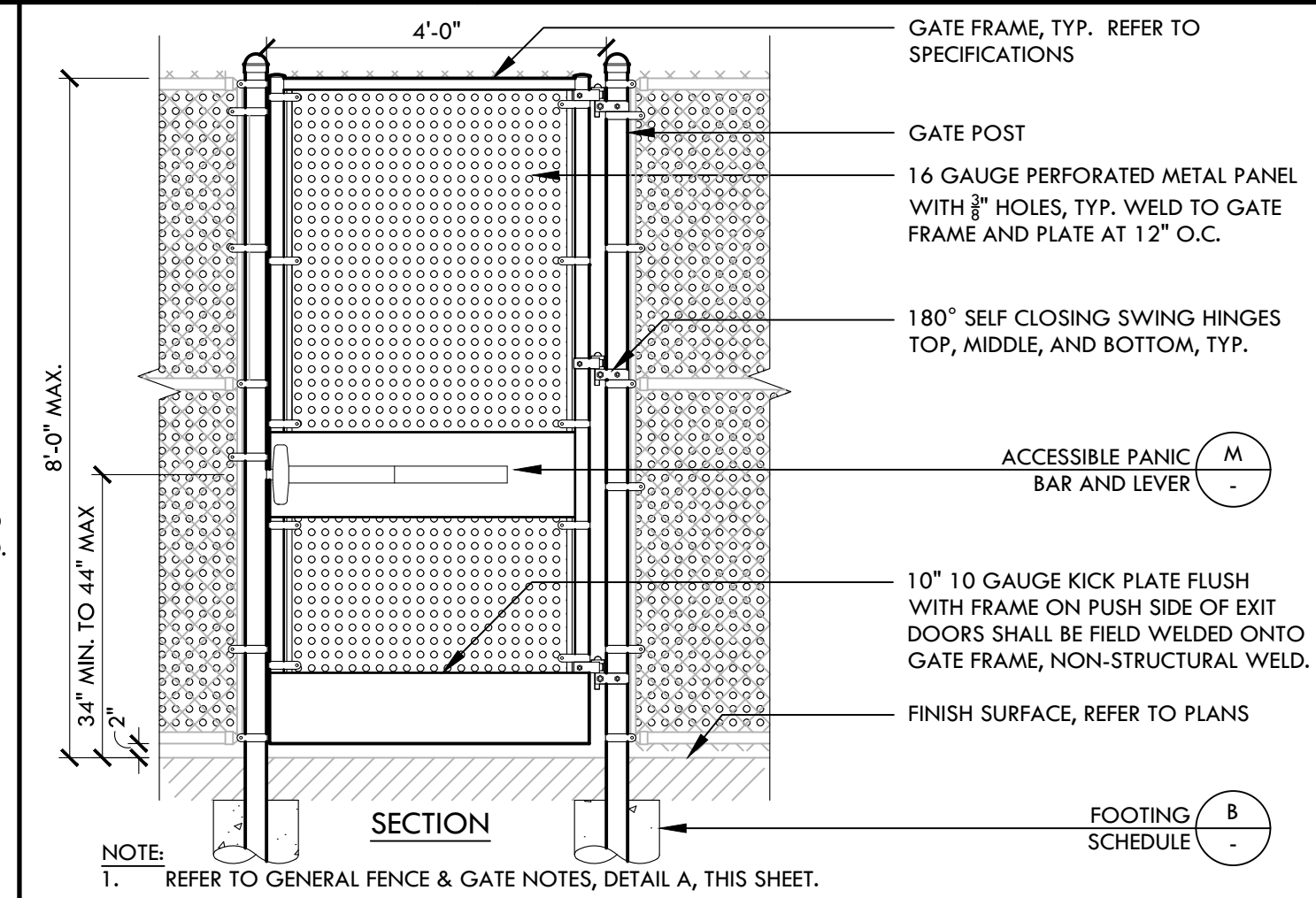
**J** 42" TALL X 4' WIDE CHAIN LINK GATE NTS



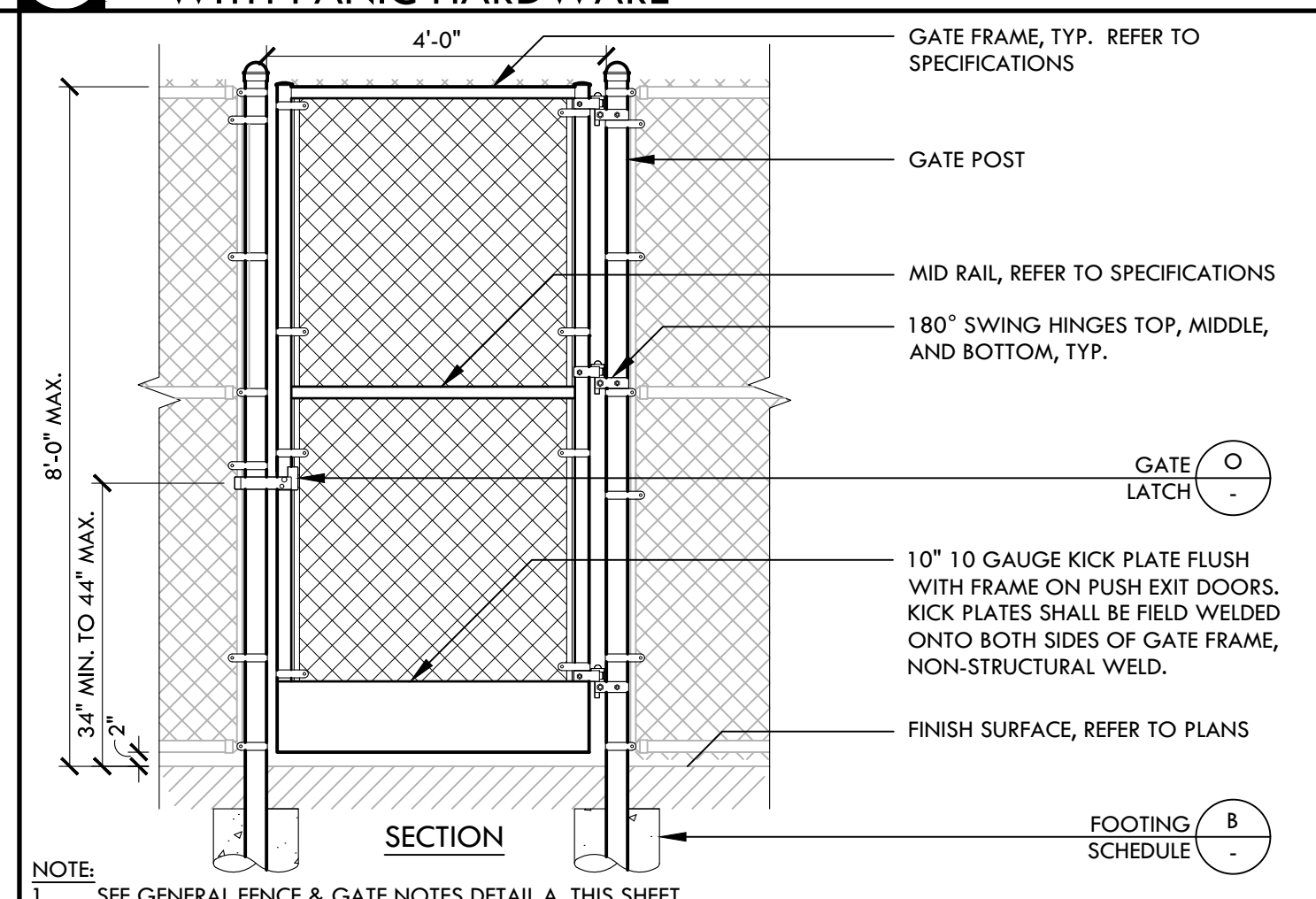
**I** 6' TALL X 12' WIDE CHAIN LINK DOUBLE SWING GATE NTS



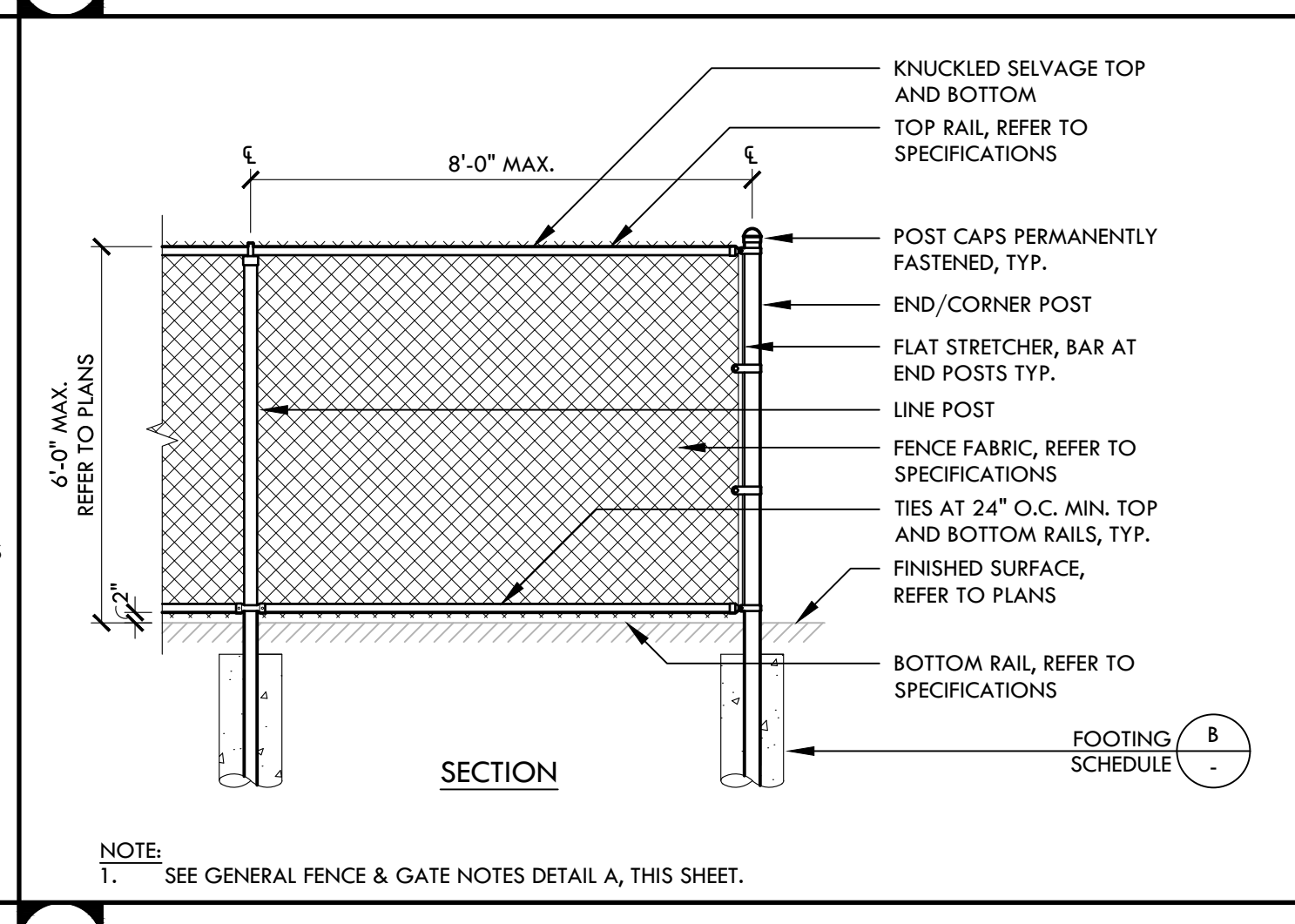
**H** 12" WIDE TALL CURB WITH FENCE (36" TALL MAX.) NTS



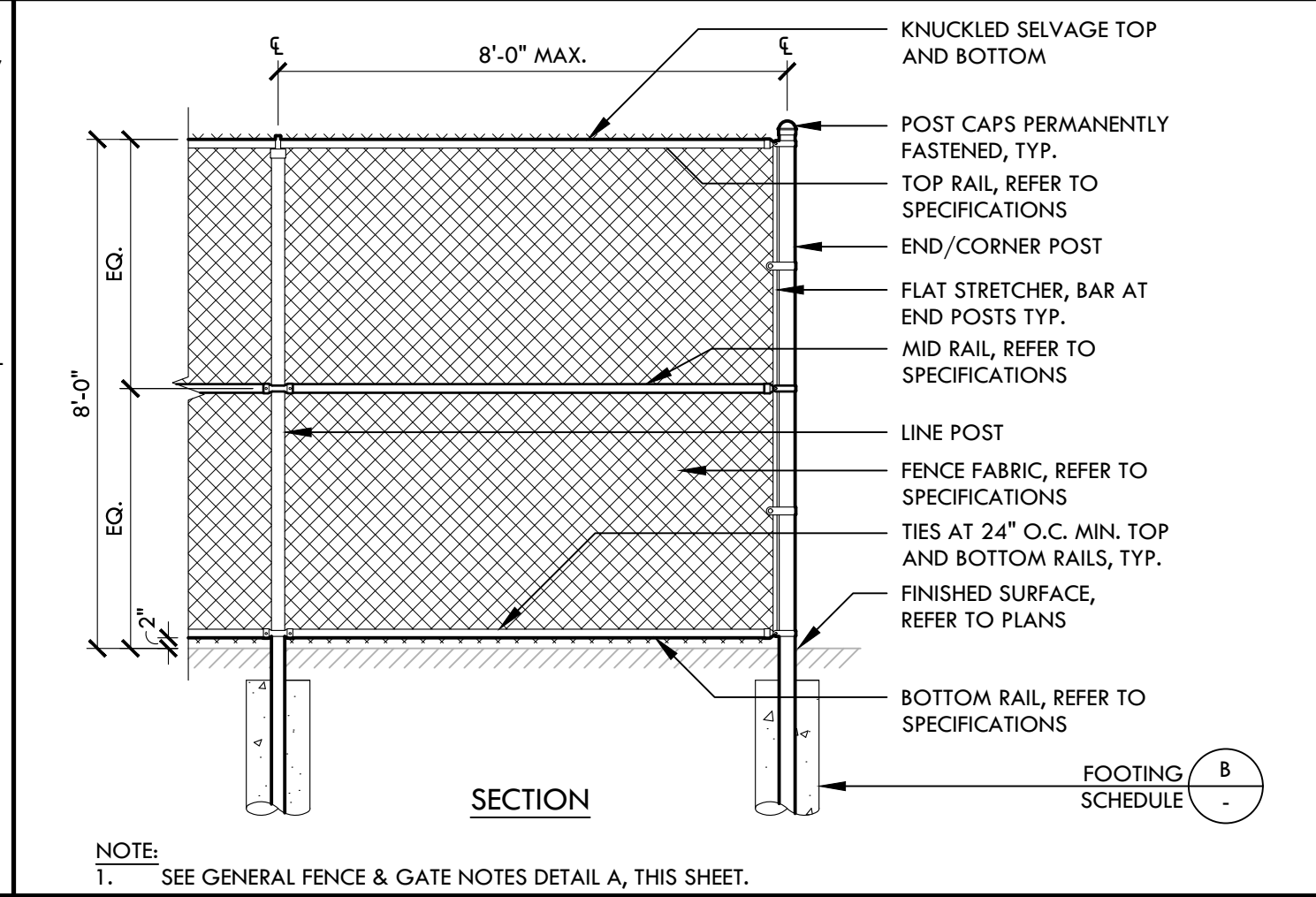
**G** 8' TALL X 4' WIDE CHAIN LINK SWING GATE WITH PANIC HARDWARE NTS



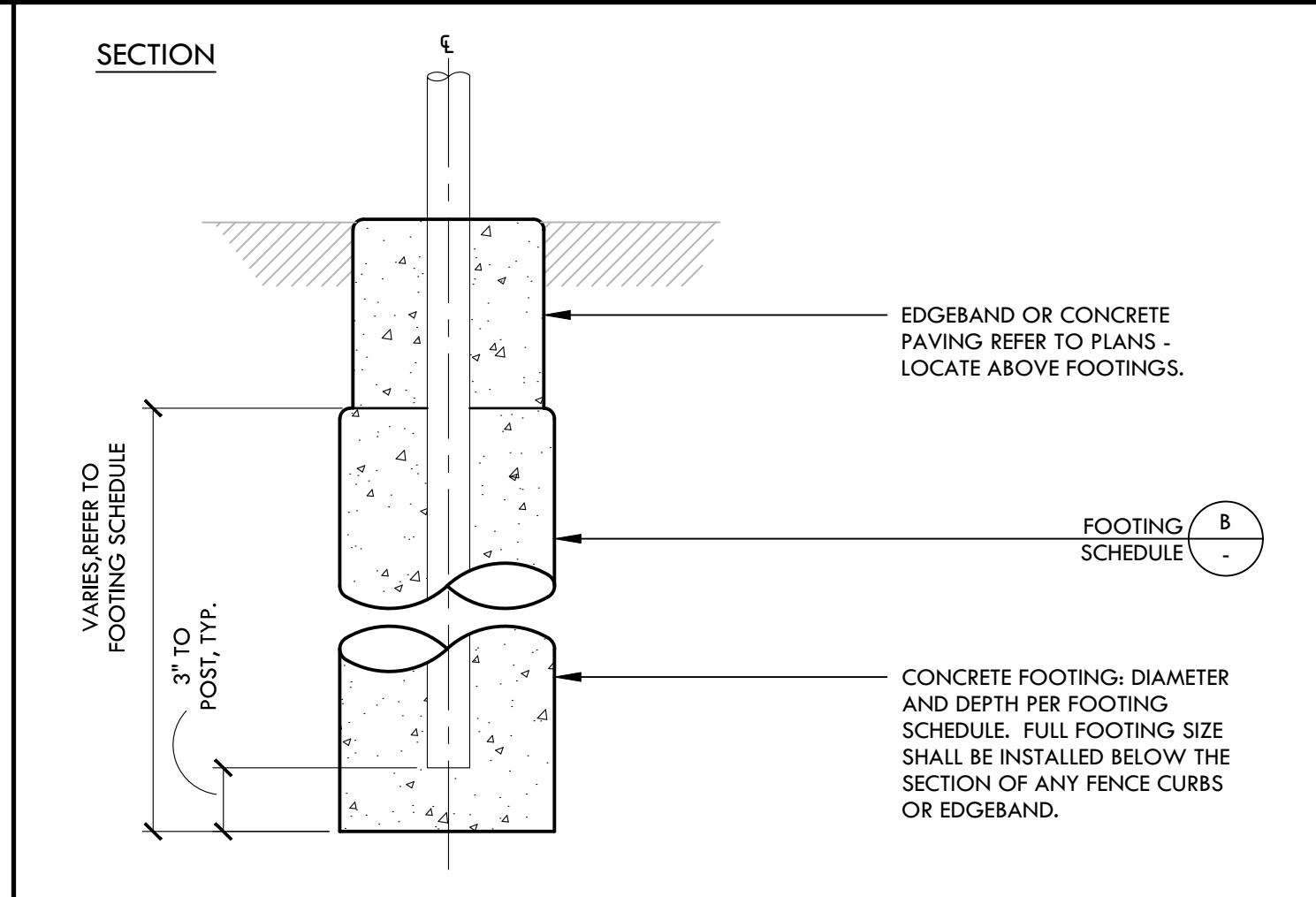
**F** 8' TALL X 4' WIDE CHAIN LINK SWING GATE NTS



**E** 42" & 6' TALL CHAIN LINK FENCE NTS



**D** 8' TALL CHAIN LINK FENCE NTS



**C** FENCE FOOTING PROFILE NTS

FENCE/NET/ POST & FOOTING SCHEDULE

| DESCRIPTION       | HEIGHT | LINE POST (STD. GALV. PIPE) | CORNER/END POST (STD. GALV. PIPE) | FOOTING DIMENSIONS    |
|-------------------|--------|-----------------------------|-----------------------------------|-----------------------|
| CHAIN LINK FENCE  | 42"    | 1-1/2" DIA. STD.            | 2" DIA. STD.                      | 12" DIA. X 12" DEEP   |
| CHAIN LINK FENCE  | 6'     | 2-1/2" DIA. STD.            | 3" DIA. STD.                      | 16" DIA. X 3'-0" DEEP |
| CHAIN LINK FENCE  | 8'     | 1-1/2" DIA. STD.            | 3" DIA. STD.                      | 16" DIA. X 3'-0" DEEP |
| BACKSTOP          | 20'    | MANUFACTURED PRODUCT        |                                   | REFER TO STRUCTURAL   |
| SAFETY NET SYSTEM | 25'    | REFER TO STRUCTURAL         |                                   | REFER TO STRUCTURAL   |

GATE POST FOOTING SCHEDULE

| DESCRIPTION                               | SIZE (H x W) | GATE POST (STD. GALV. PIPE) | FOOTING DIMENSIONS    |
|-------------------------------------------|--------------|-----------------------------|-----------------------|
| CHAIN LINK SWING GATE                     | 8' X 4'      | 3" DIA. STD.                | 16" DIA. X 3'-0" DEEP |
| CHAIN LINK SWING GATE WITH PANIC HARDWARE | 8' X 4'      | 3" DIA. STD.                | 16" DIA. X 3'-0" DEEP |
| CHAIN LINK DOUBLE SWING GATE              | 8' X 8'      | 3" DIA. STD.                | 16" DIA. X 3'-0" DEEP |
| CHAIN LINK DOUBLE SWING GATE              | 42" X 8'     | 2" DIA. STD.                | 12" DIA. X 3'-0" DEEP |
| CHAIN LINK SLIDING GATE                   | 42" X 20'    | 3" DIA. STD.                | 12" DIA. X 4'-0" DEEP |
| CHAIN LINK DOUBLE SWING GATE              | 6' X 12'     | 3" DIA. STD.                | 16" DIA. X 3'-0" DEEP |
| CHAIN LINK SWING GATE                     | 42" X 5'     | 2" DIA. STD.                | 12" DIA. X 3'-0" DEEP |

NOTES:  
1. REFER TO PLANS & DETAILS FOR POST LOCATIONS AND TOP OF POST FOOTING.  
2. REFER TO FENCE FOOTING DETAIL, DETAIL C, THIS SHEET  
3. THE PIPE SIZES INDICATED ARE FOR NPS. REFER TO SPECIFICATIONS.

**B** FOOTING SCHEDULE NTS

- NOTES PERTAIN TO ALL GATE AND FENCE DETAILS:
- PLACE FENCE FABRIC ON TRACK SIDE. FENCE FABRIC ON PERIMETER FENCING IS TO BE ON FIELD SIDE.
  - BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
  - SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
  - GATES IN PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS.
  - FOR PEDESTRIAN GATE, PROVIDE LOCKING DEVICE TO SECURE GATE IN OPEN POSITION.
  - ALL SWING GATES OTHER THAN THOSE TO RECEIVE PANIC HARDWARE SHALL RECEIVE PAD LOCK. PEDESTRIAN GATES ARE NOTED BY HAVING A KICK PLATE ATTACHMENT.
  - REFER TO PLANS FOR EDGE BAND TYPE UNLESS OTHERWISE NOTED.
  - FOR GATES WITH DROP BAR, PROVIDE 8" DEEP FOOTING WITH SCH. 40 STEEL PIPE SLEEVE. CANE STOP TO GO DOWN 4" INTO CONCRETE IN CLOSED POSITION AND OPEN POSITION.
  - TACK WELD HINGES TO POSTS AT GATES.
  - DOUBLE SWING GATES THAT ARE IN LINE WITH FENCING, GATE POSTS SHALL BE OFFSET FROM THE FENCE TO ALLOW SWING GATES TO OPEN A FULL 180° BACK AGAINST THE FENCE PER PLAN LAYOUT.
  - THE PIPE SIZES INDICATED ARE NPS FOR: STANDARD GALV. PIPE SCHEDULE 40.
  - ALL ACCESSIBLE GATE SHALL BE OPERABLE WITH 5LBS MAX FORCE, TYP.

**A** GATE AND FENCE NOTES NTS

**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
Tel: 408.985.7200  
Fax: 408.985.7260  
www.VerdeDesignInc.com

**REGISTERED PROFESSIONAL ENGINEER**  
No. C-56494  
Signature  
EXPIRATION DATE: June 30, 2025  
STATE OF CALIFORNIA

**KEY MAP**

**SHEET TITLE**

**CONSTRUCTION DETAILS**

**PROJECT NAME**

**WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS**

**PROJECT ADDRESS**

**2570 WESTBOROUGH BLVD SOUTH SAN FRANCISCO CA 94080**

**SUBMITTAL**

**DATE**

**DSA SUBMITTAL**

**12/10/24**

**NO.**

**REVISIONS**

**DATE**

**DRAWN BY**

**CHECKED BY**

**JW**

**DATE ISSUED**

**12/10/2024**

**SCALE**

**NTS**

**VDI PROJ. NO.**

**2320400**

**SSFSUD PROJ. NO.**

**025-960**

**SHEET NO.**

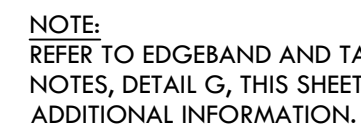
**D3.0**

**CONSTRUCTION DETAILS**

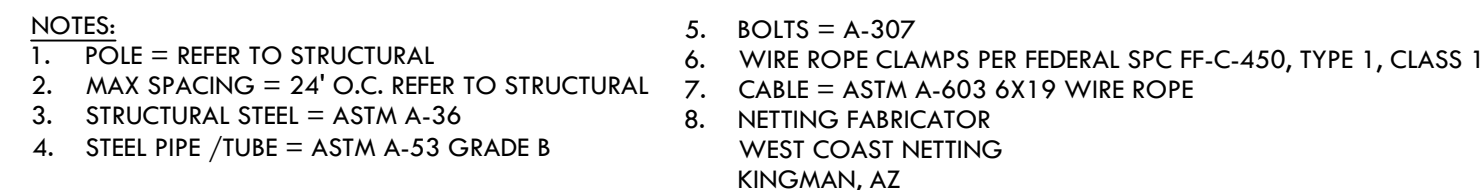




## NTS



## NTS



## NTS

- 
- CHAIN LINK BACKSTOP**
- The drawing includes a perspective view on the left showing a red chain link fence with a height dimension of 10'-0".
- The plan view on the right is titled **5 POST 20' LAYOUT** and shows the following dimensions:
- Height of the backstop: 75 1/2"
  - Panel dimensions: 5x 10' CHAINLINK PANELS
  - Post spacing: 125"
  - Total length: 100'
  - Angle: 90.0°
- PLAN VIEW AND LAYOUT**

## NTS



## PROJECT NAME

## PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

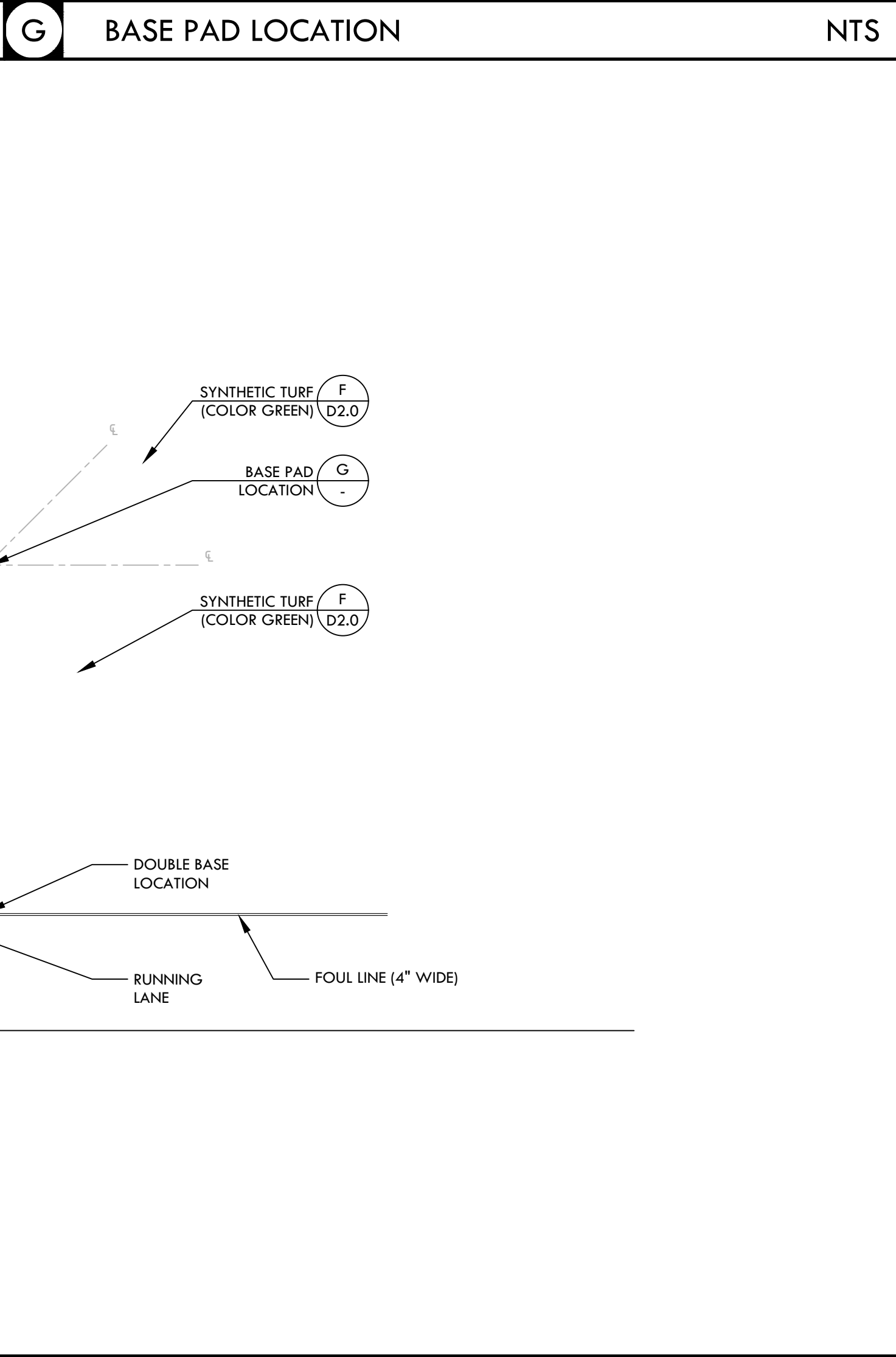
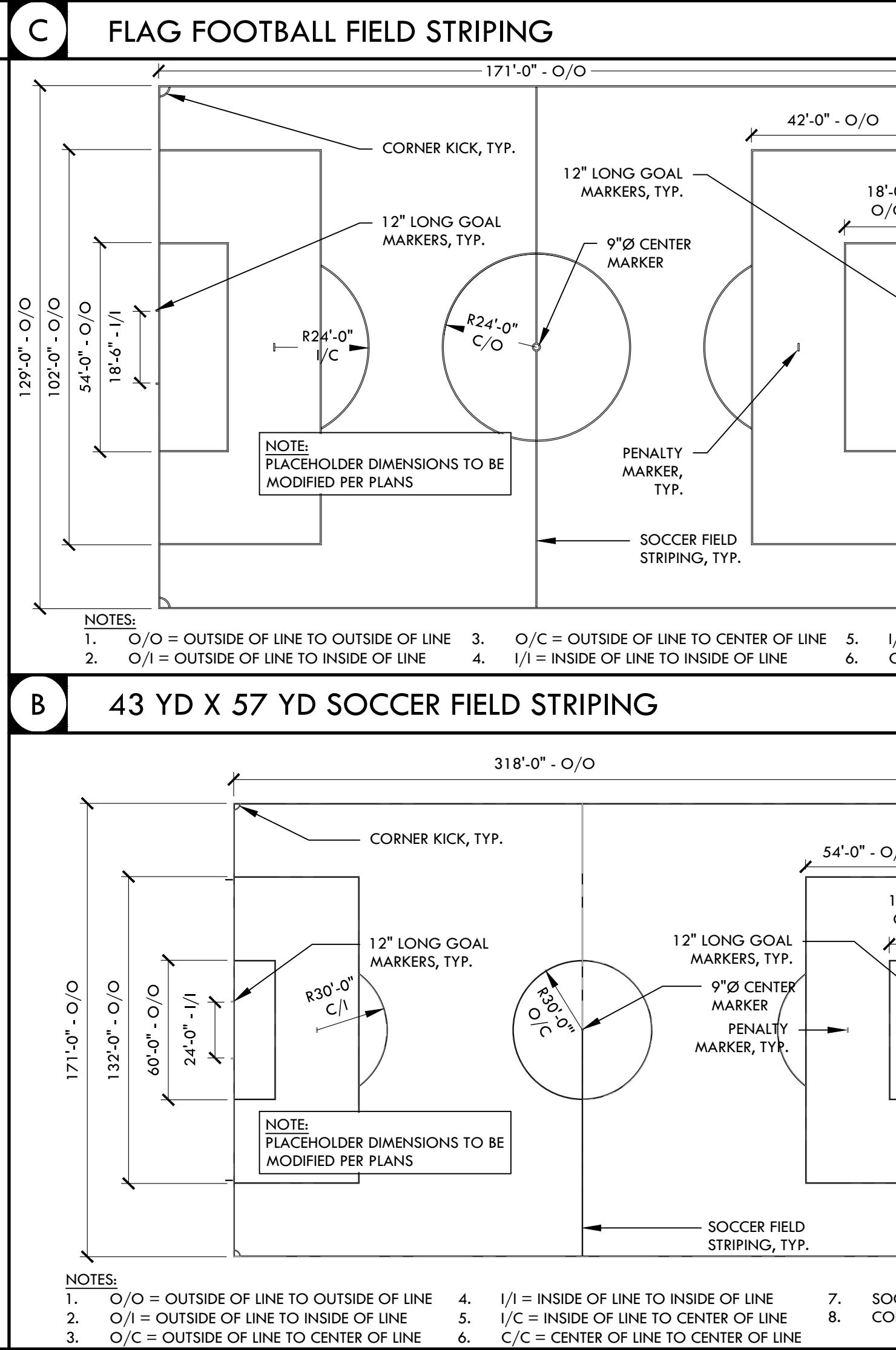
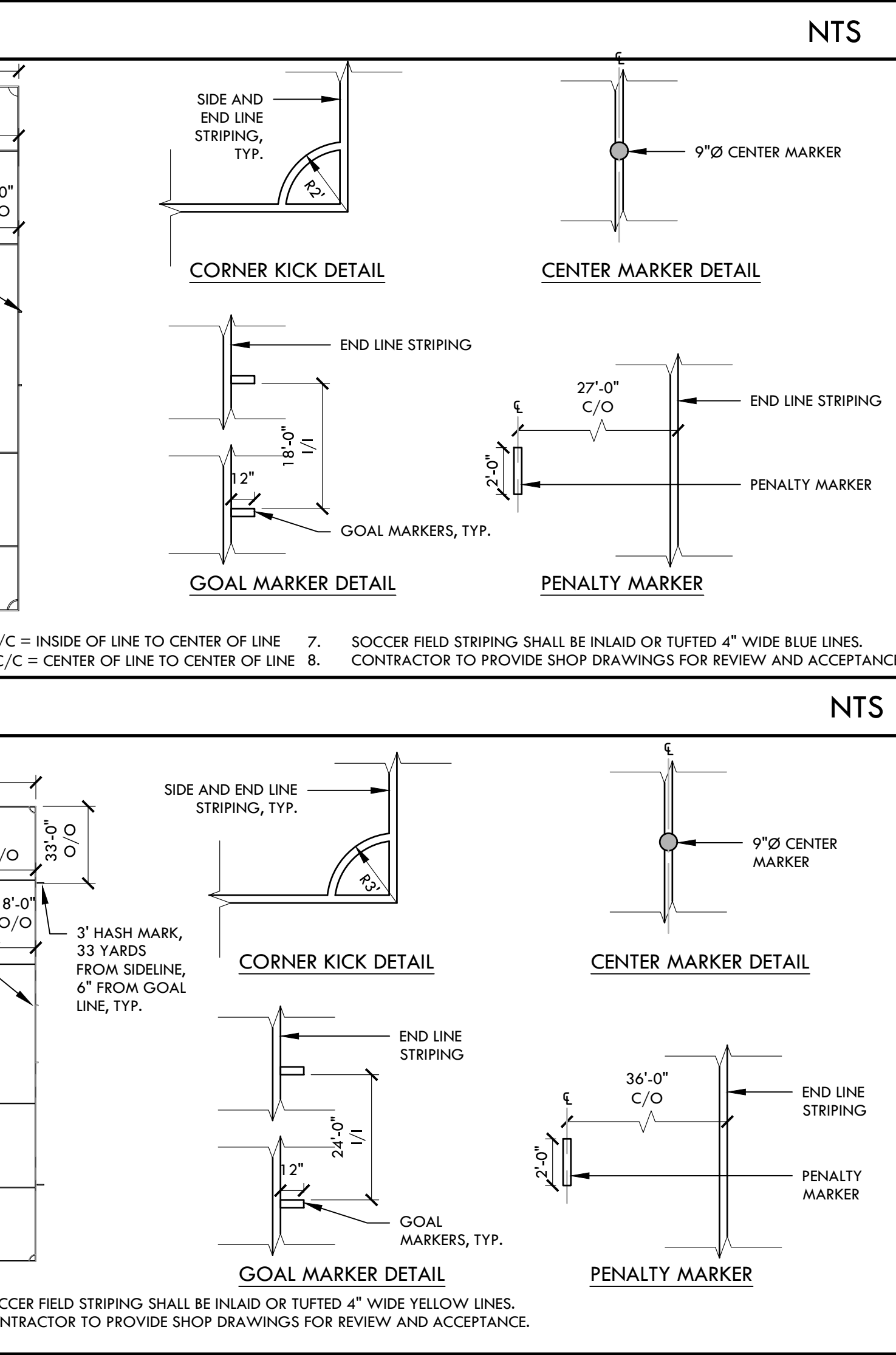
[illegible]

|                           |                             |
|---------------------------|-----------------------------|
| DRAWN BY                  | CHECKED BY<br>JW            |
| DATE ISSUED<br>12/10/2024 | SCALE<br>NTS                |
| VDI PROJ. NO.<br>2320400  | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.                 |                             |

### D3.1

## CONSTRUCTION DETAILS

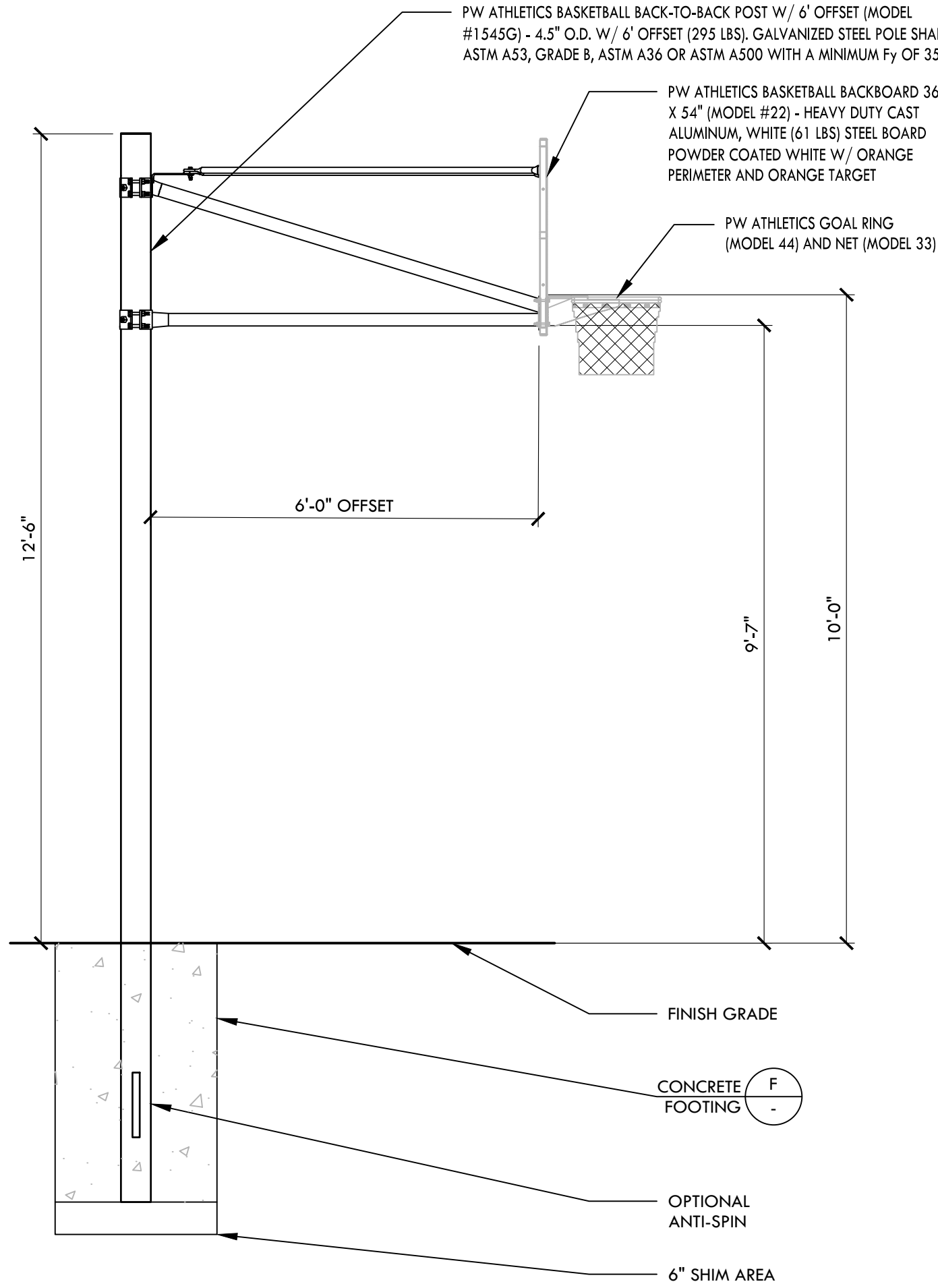




## CONSTRUCTION DETAILS

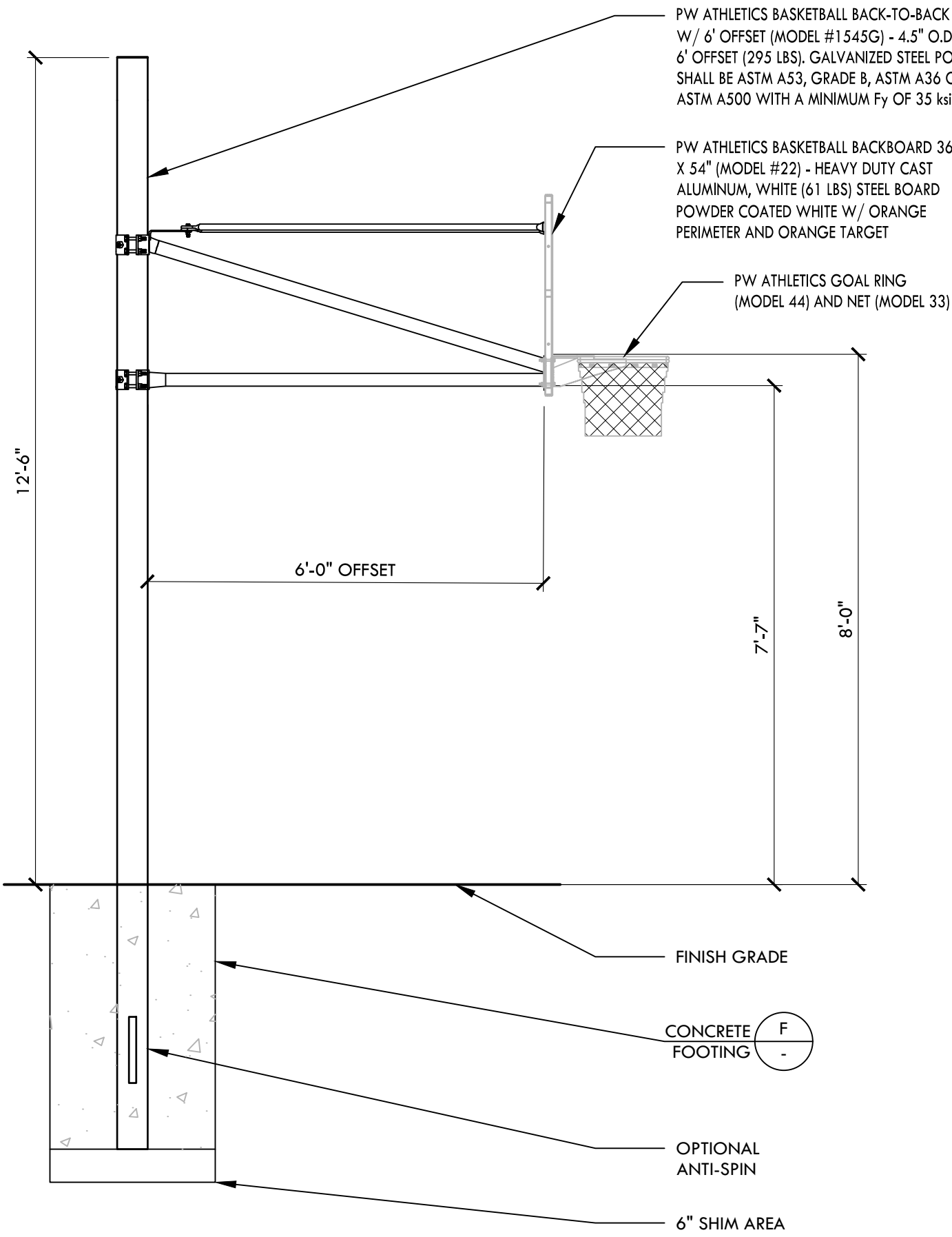


ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



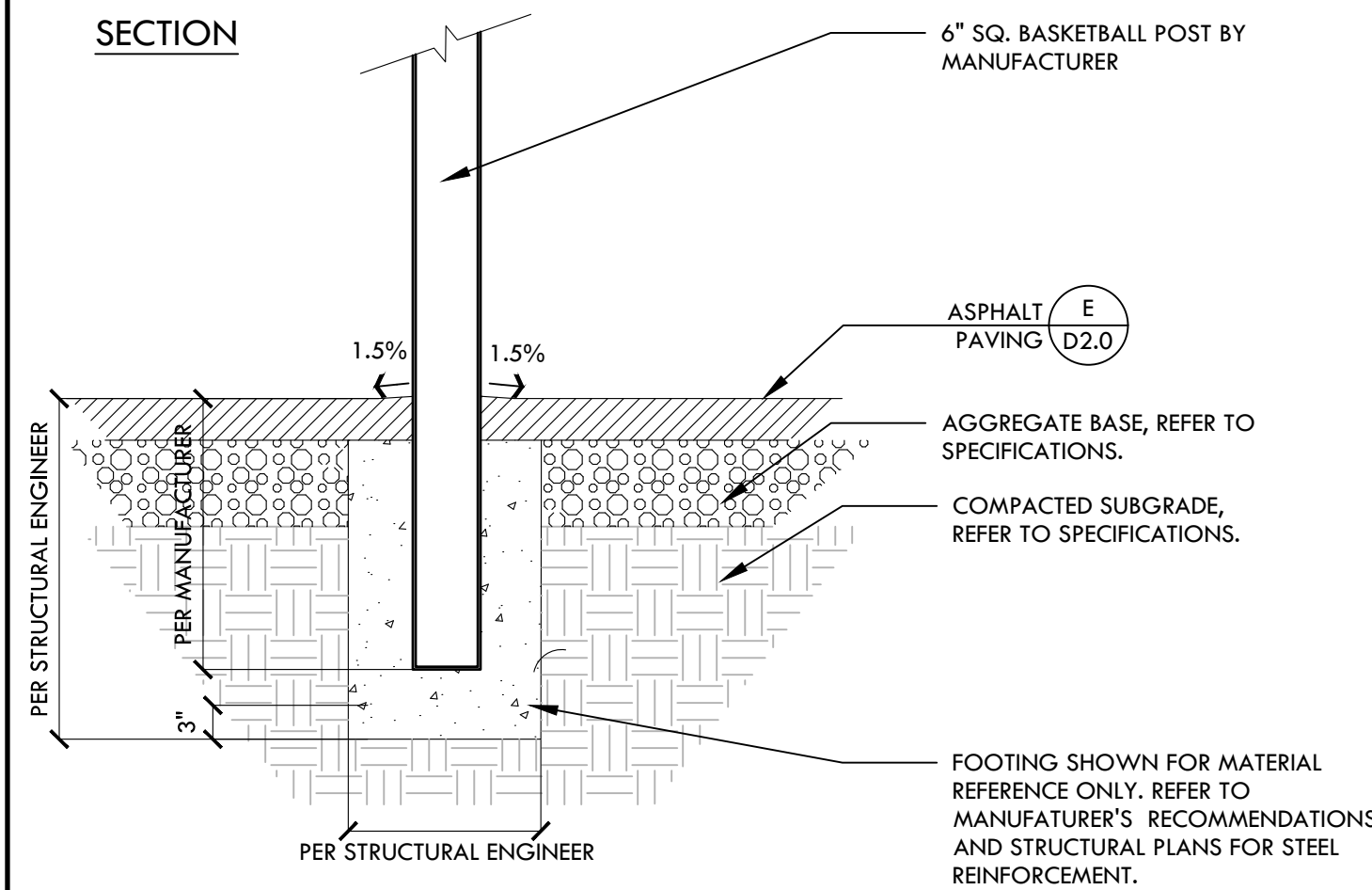
J 10' TALL BASKETBALL HOOP

NTS



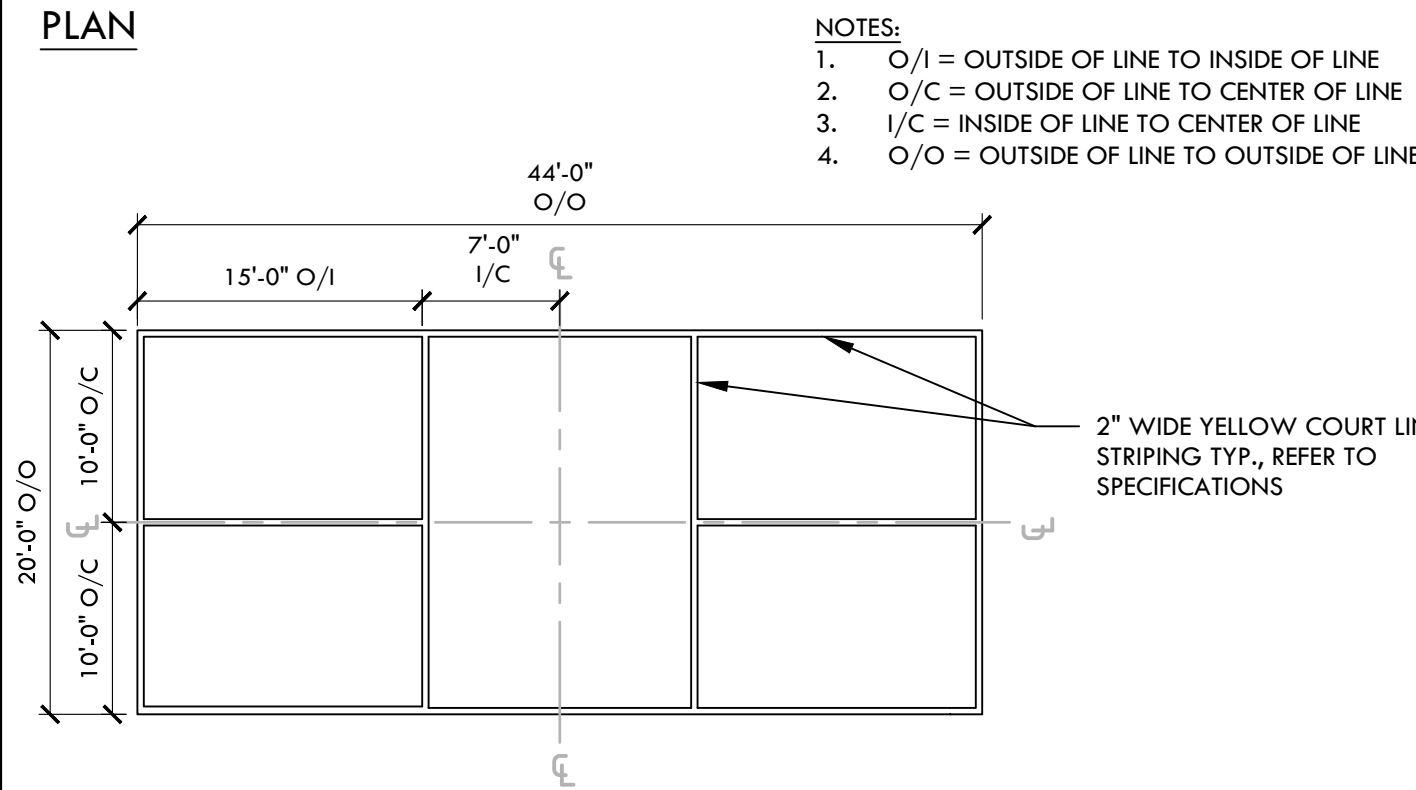
I 8' TALL BASKETBALL HOOP

NTS



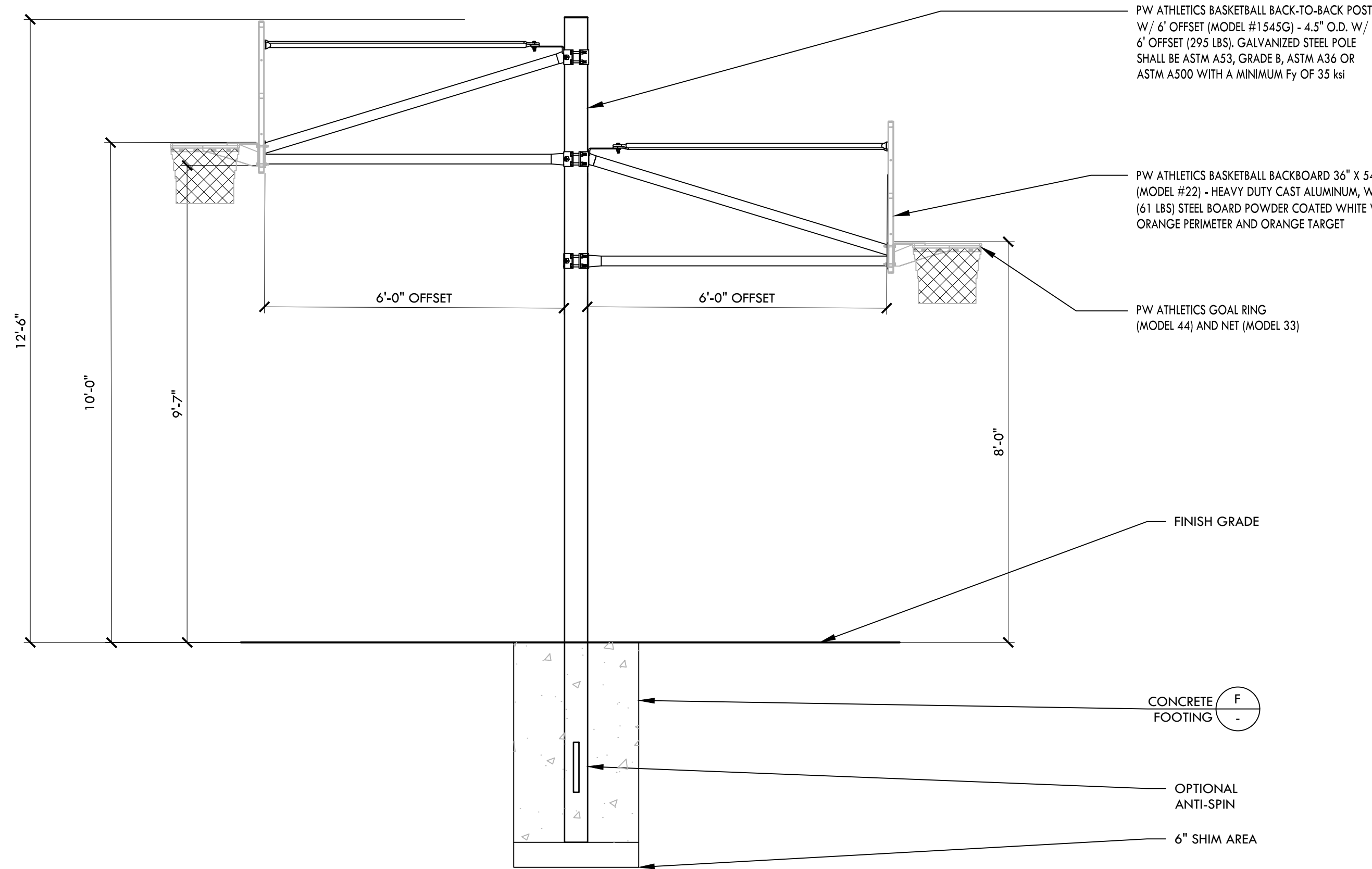
F BASKETBALL FOOTING

NTS



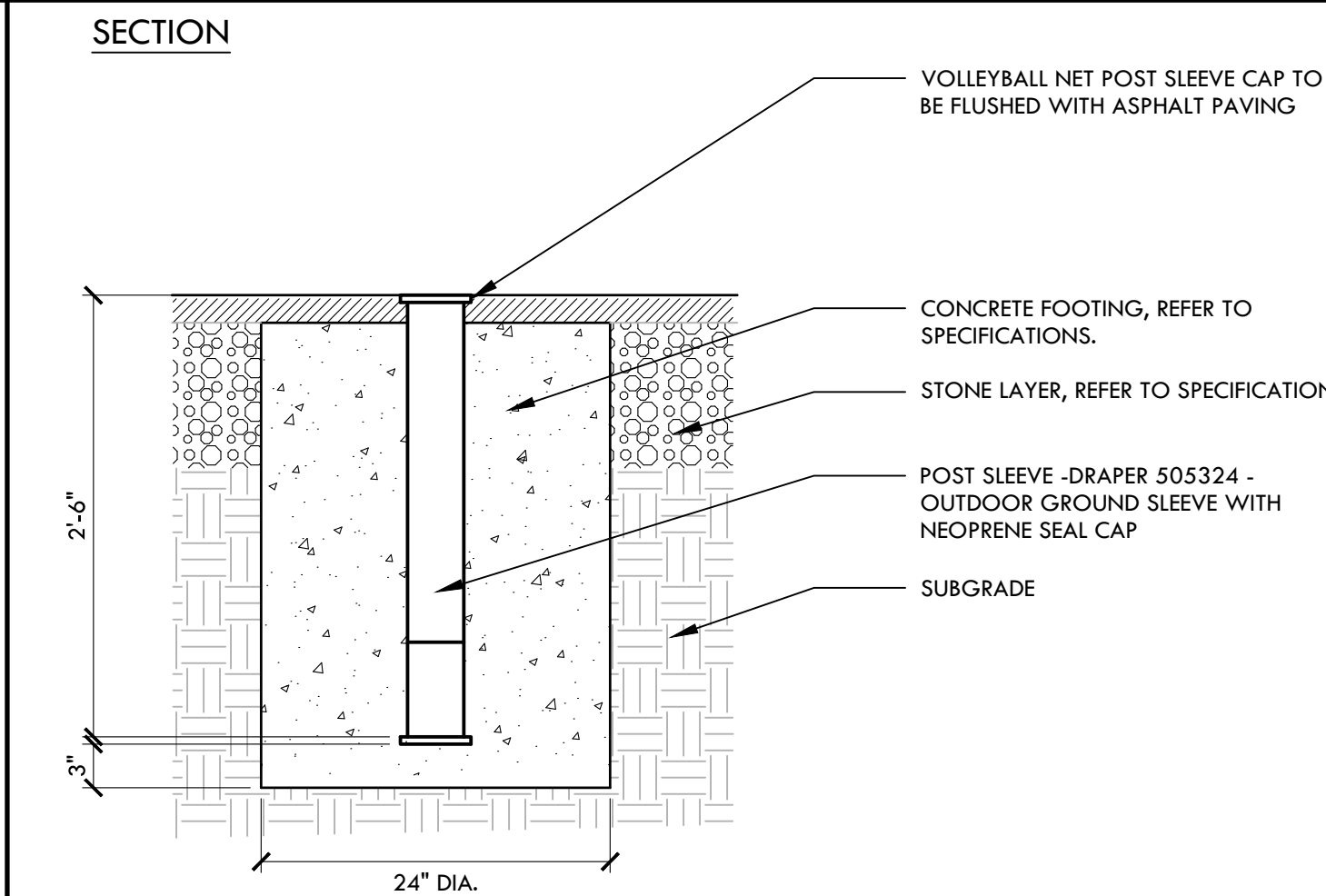
C PICKLEBALL COURT STRIPING

NTS



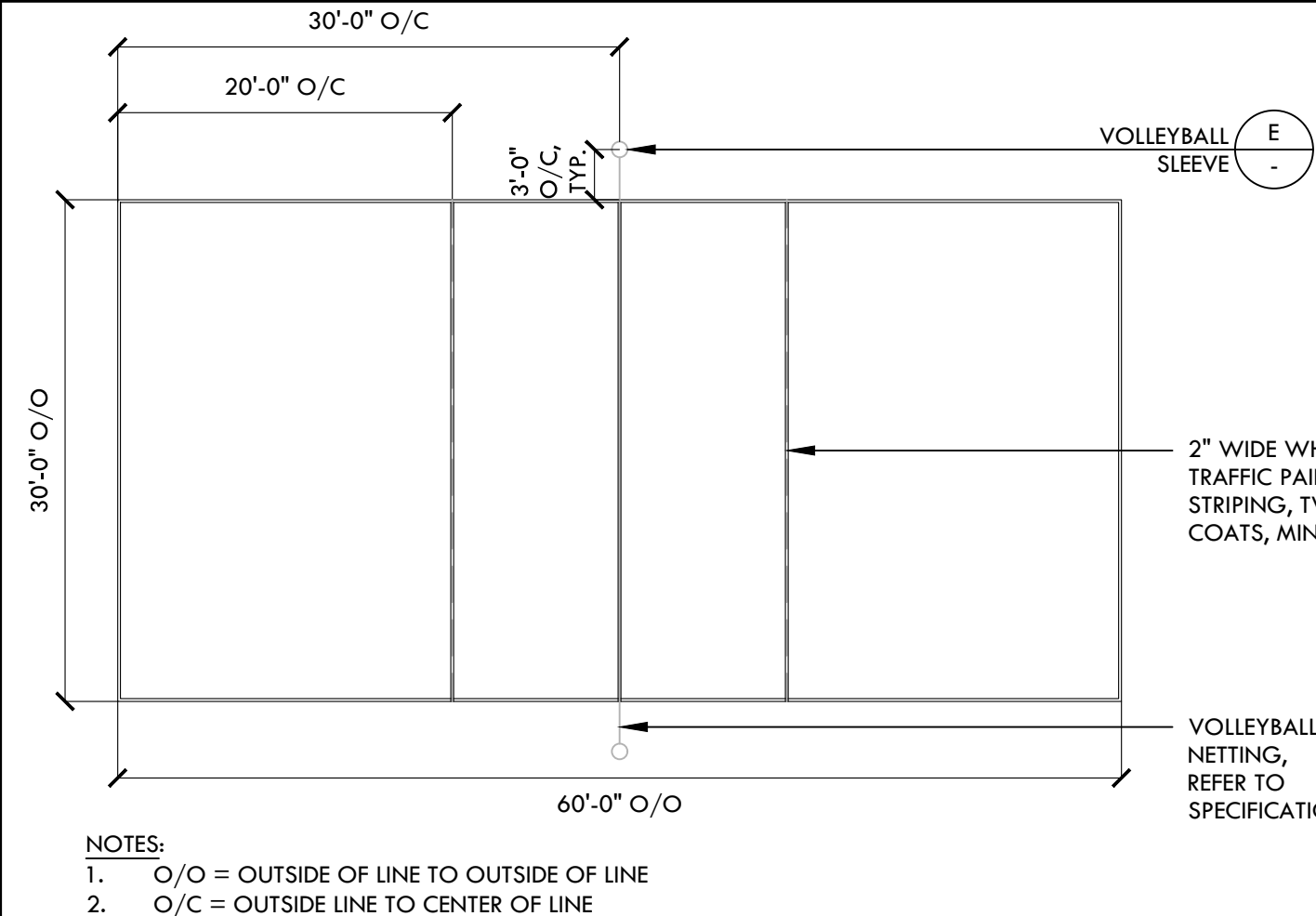
H BACK-TO-BACK BASKETBALL HOOP

NTS



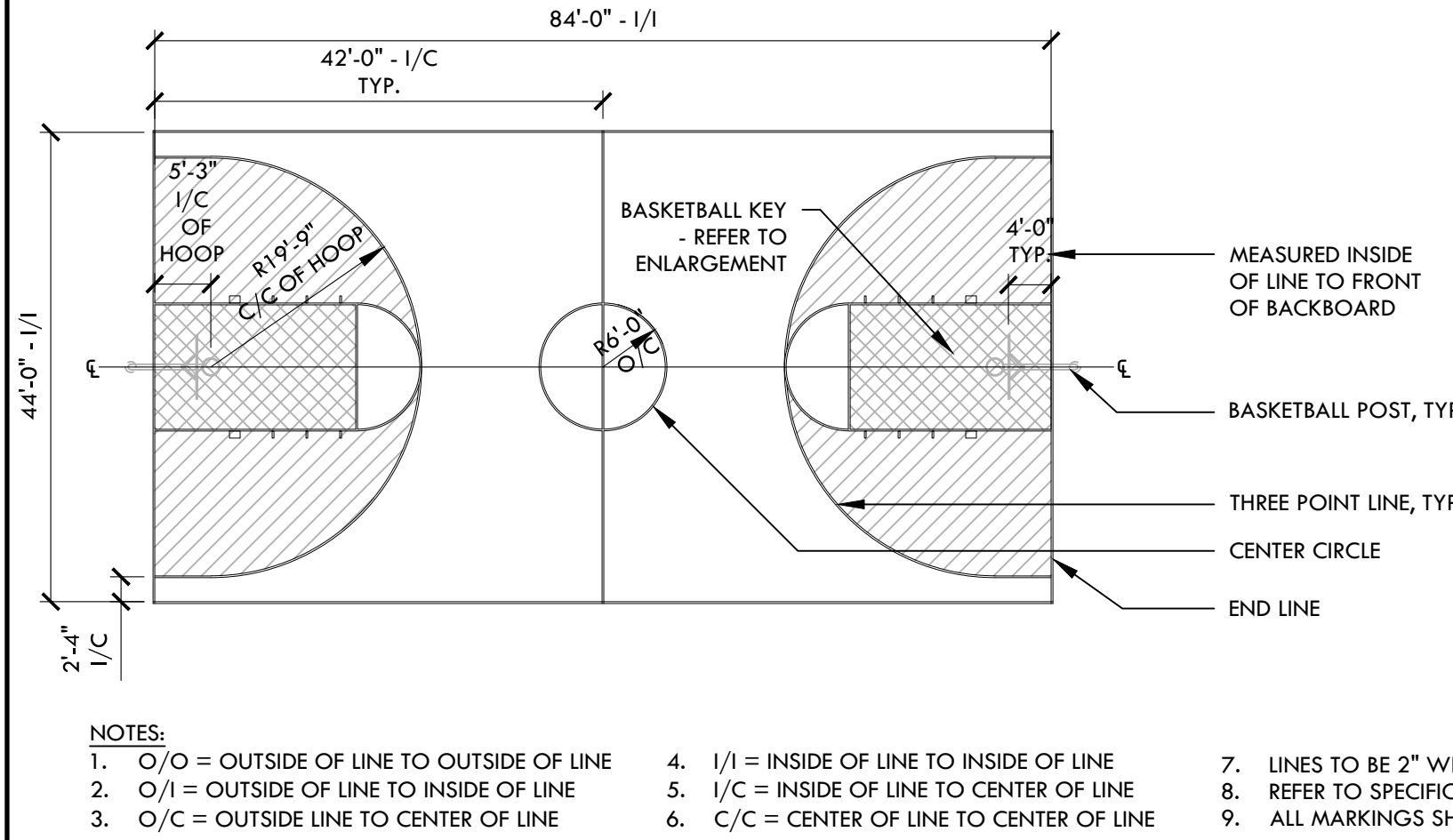
E VOLLEYBALL SLEEVE

NTS



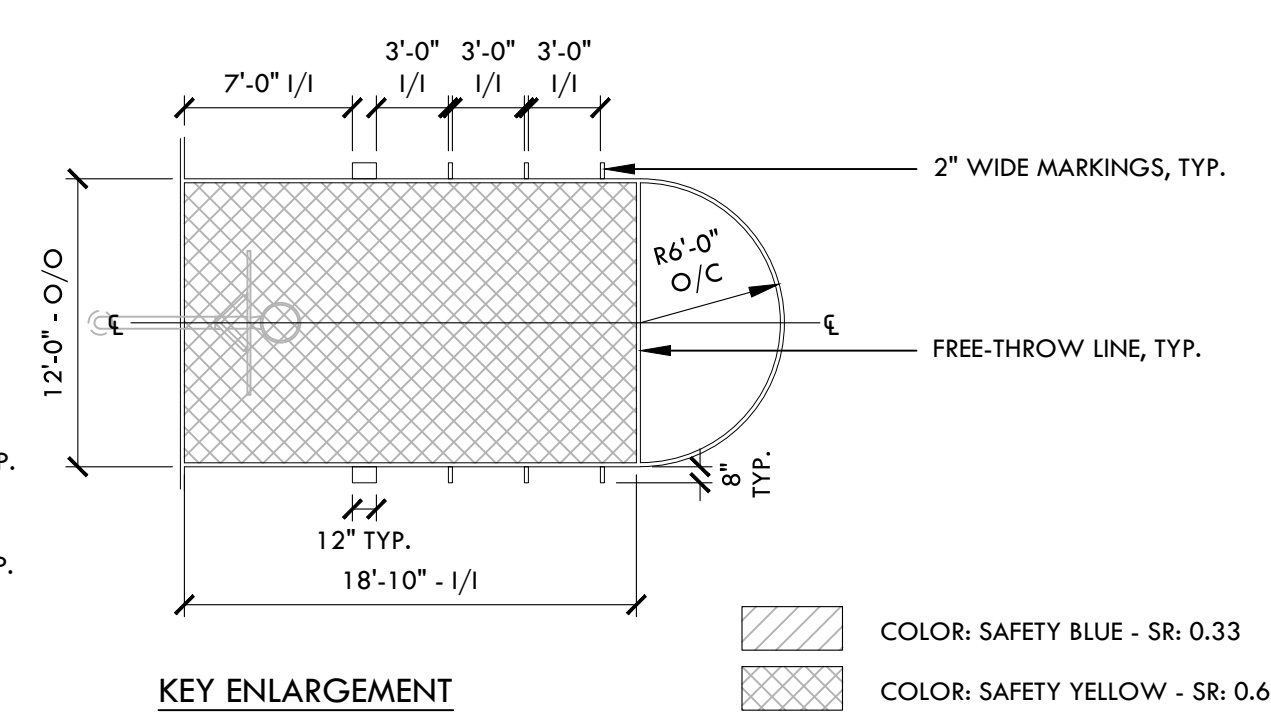
B VOLLEYBALL COURT STRIPING

NTS



A BASKETBALL COURT STRIPING

NTS



KEY MAP

SHEET TITLE

CONSTRUCTION  
DETAILS

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

SUBMITTAL

DATE

DSA SUBMITTAL

12/10/24

NO. REVISIONS DATE

|   |  |  |
|---|--|--|
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |
| 8 |  |  |
| 9 |  |  |

DRAWN BY

CHECKED BY

JW

DATE ISSUED

12/10/2024

SCALE

NTS

VDI PROJ. NO.

2320400

SSFUSD PROJ. NO.

025-960

SHEET NO.

D4.1

CONSTRUCTION DETAILS



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

P

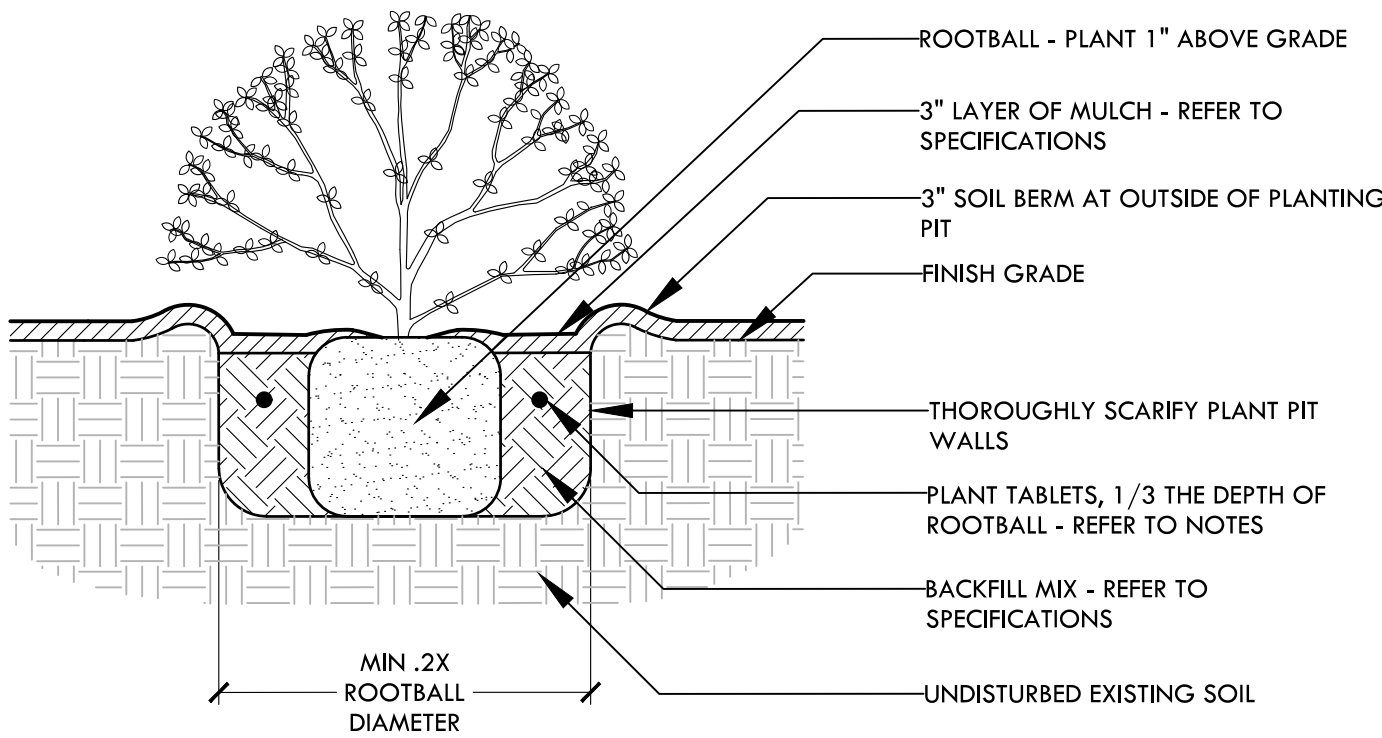
O

N

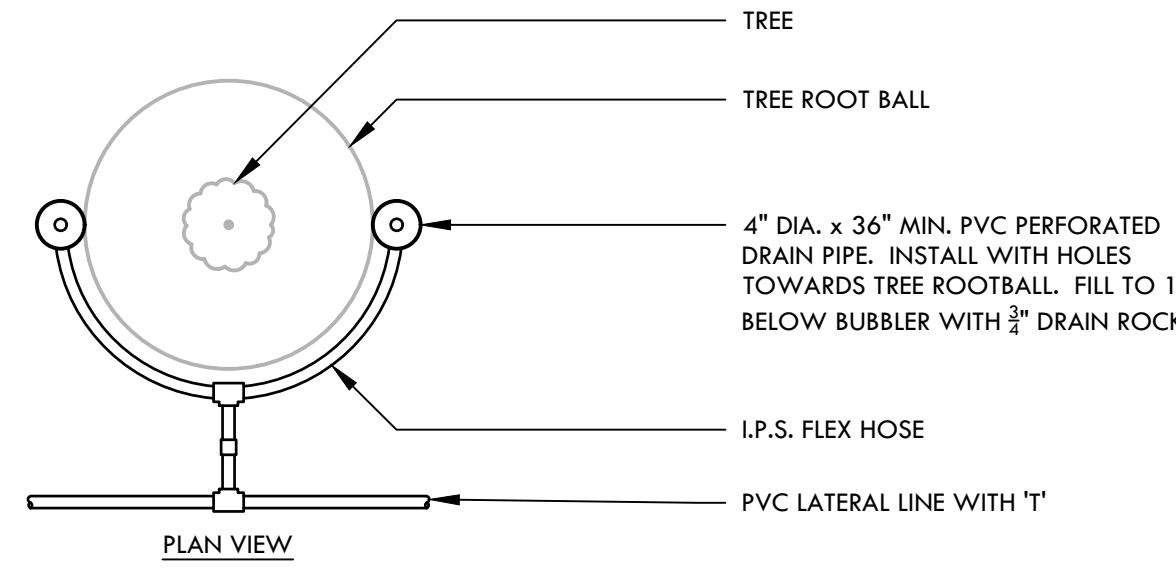
M

SHRUB PLANTING

NTS



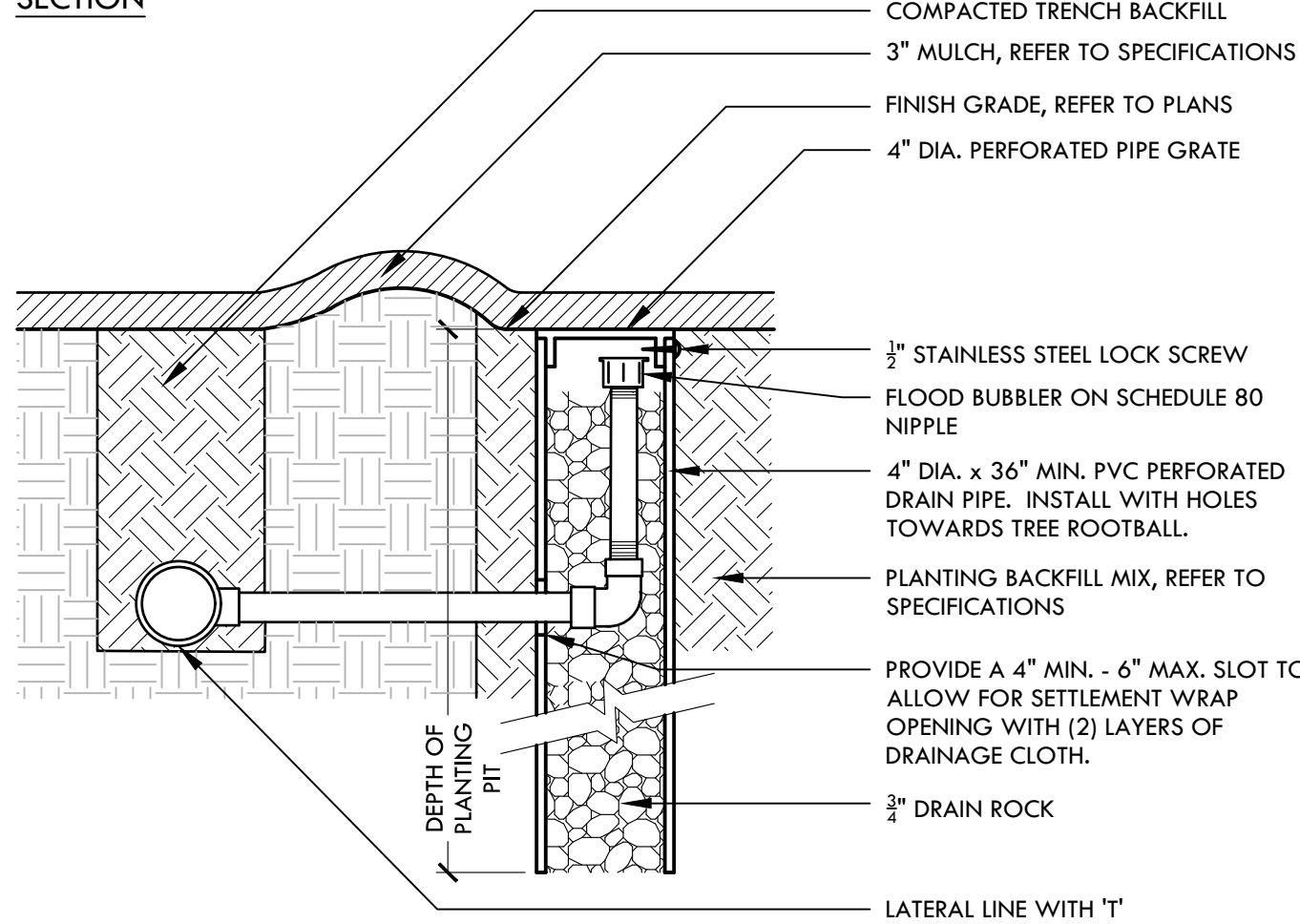
PLAN



NOTE:  
1. BUBBLERS ARE REQUIRED FOR TREES IN LAWN AND SHRUB AREA. TWO BUBBLERS PER TREE ARE TO BE PLACED ON OPPOSITE SIDES OF ROOTBALL. ORIENT BUBBLERS 180° FROM EACH OTHER.

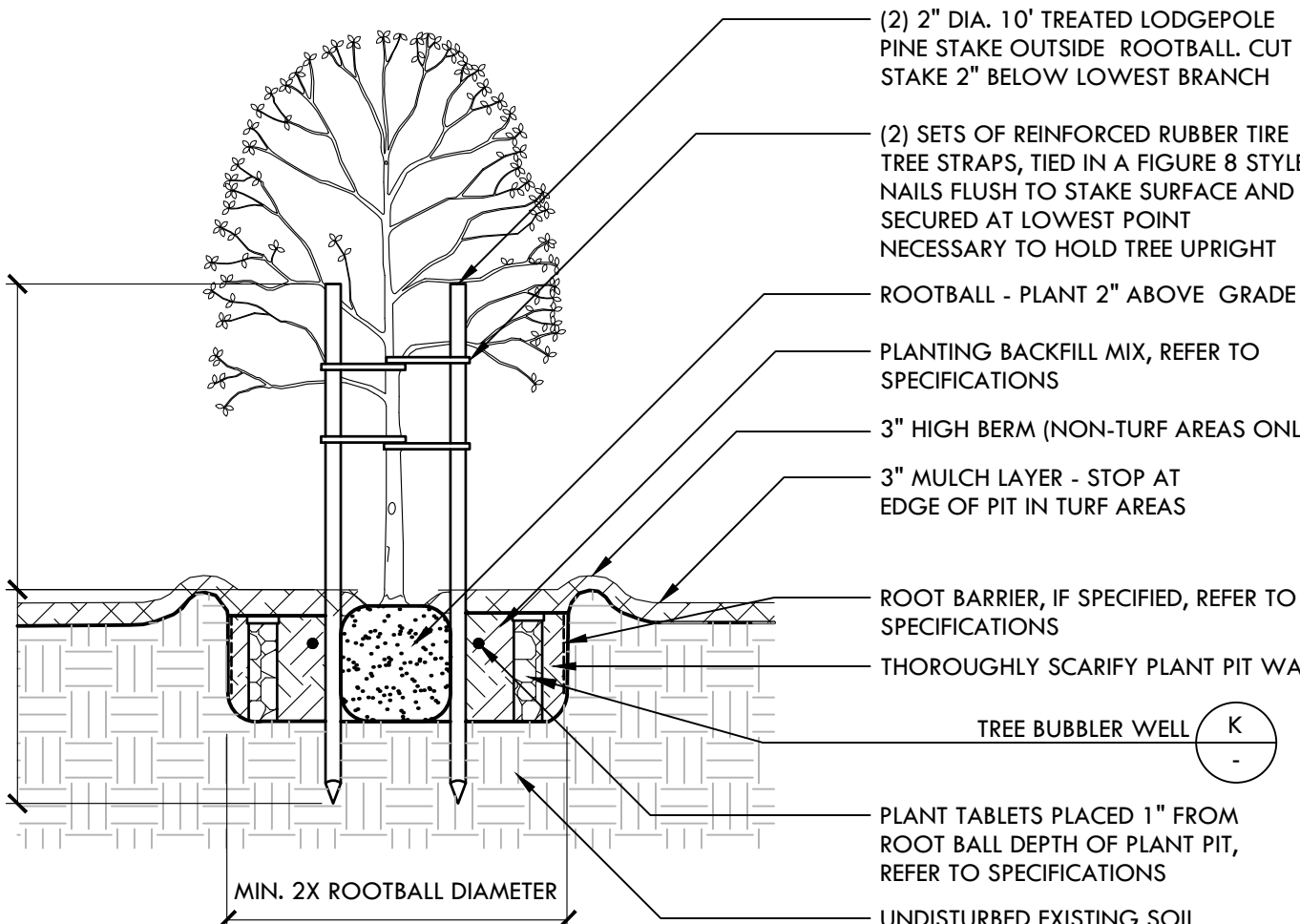
| TRUNK TO BUBBLER SPACING |         |
|--------------------------|---------|
| SIZE                     | SPACING |
| 1.5 GALLON TREE          | 15"     |
| 24" BOX TREE             | 20"     |
| 36" BOX TREE             | 25"     |

SECTION



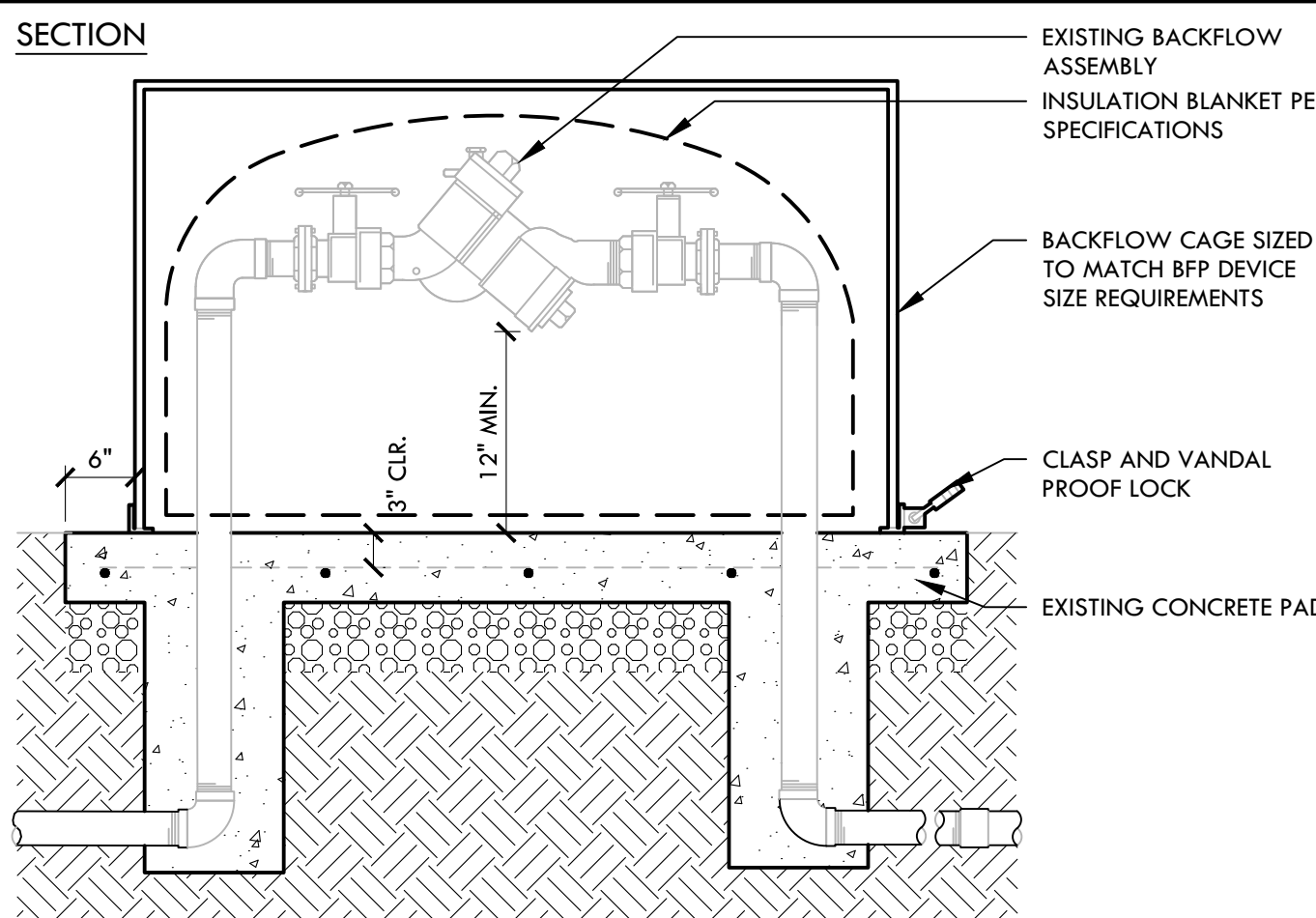
TREE BUBBLER WELL

NTS



TREE PLANTING AND BUBBLER

NTS



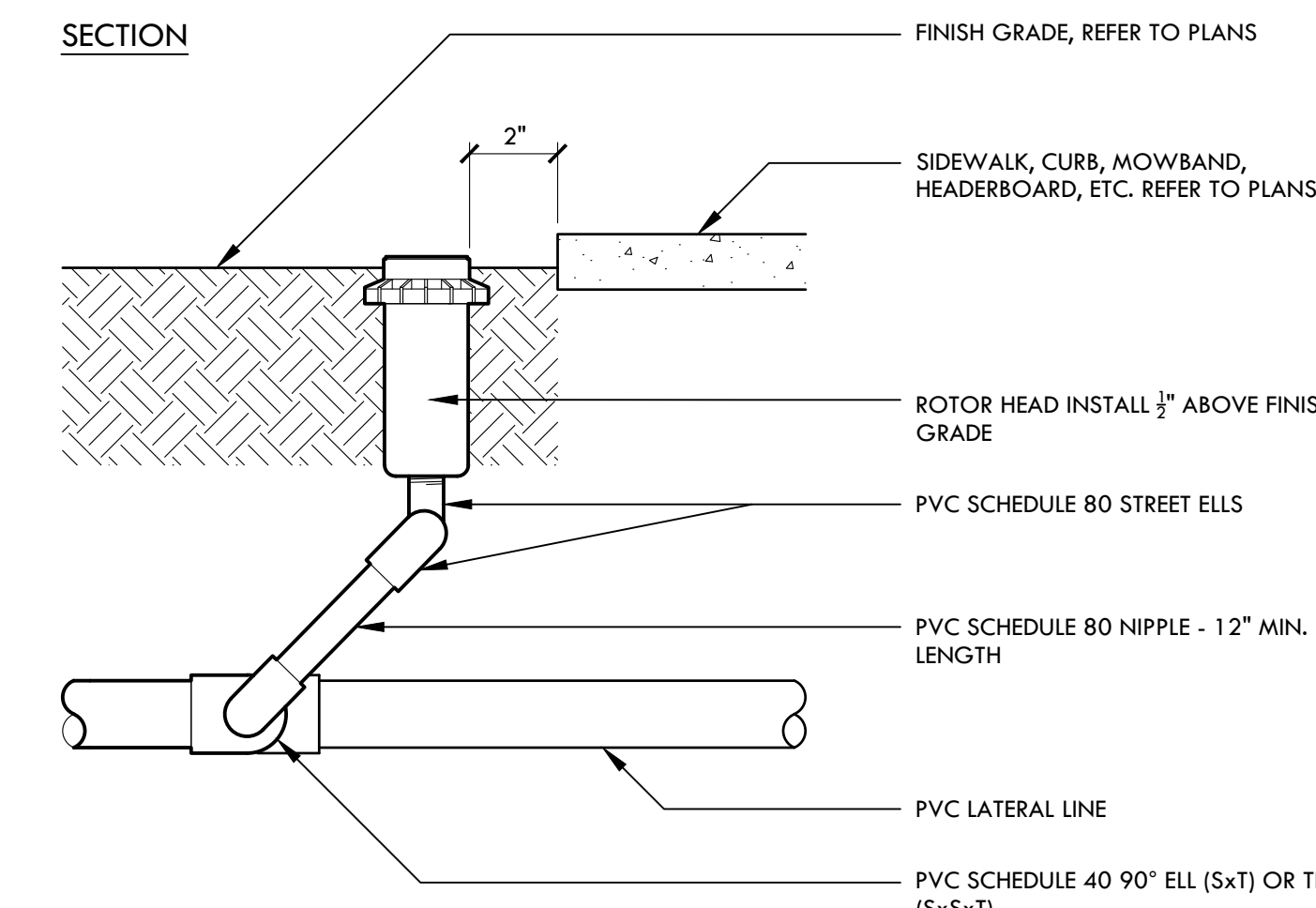
BACKFLOW PREVENTER CAGE

NTS

H

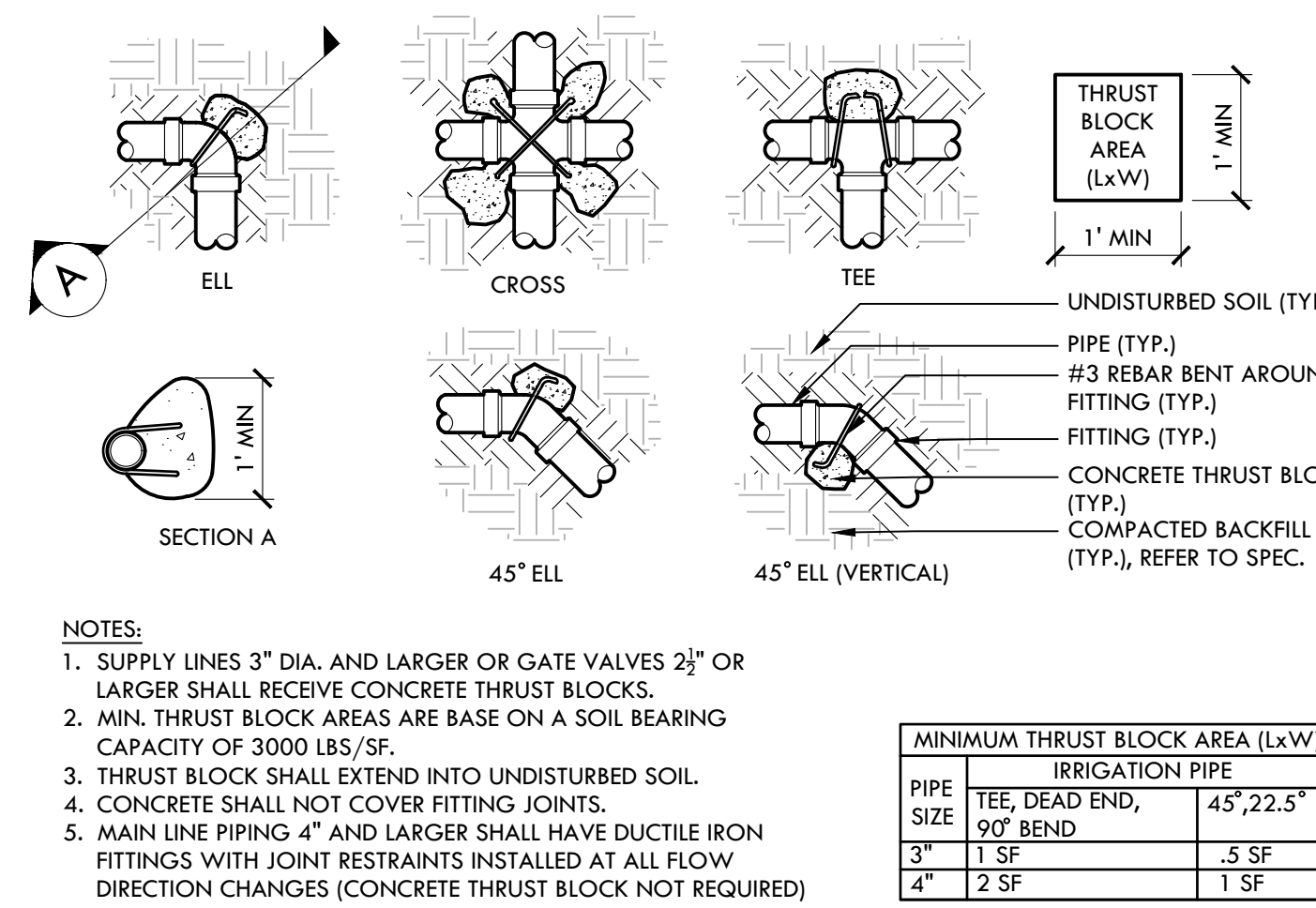
TRIANGULAR SPACING DIAGRAM

NTS



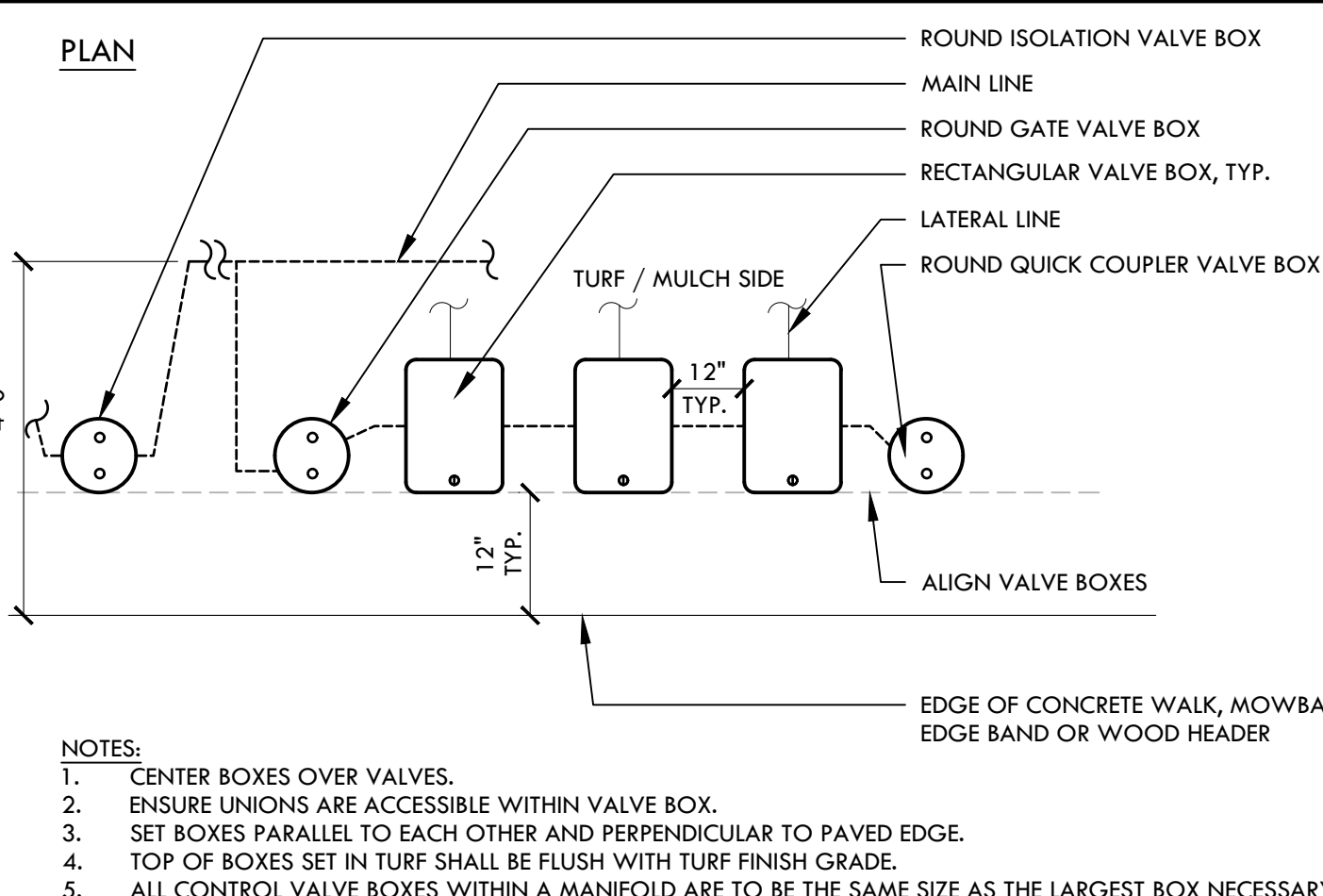
ROTOR HEAD AND SWING JOINT

NTS



THRUST BLOCK

NTS



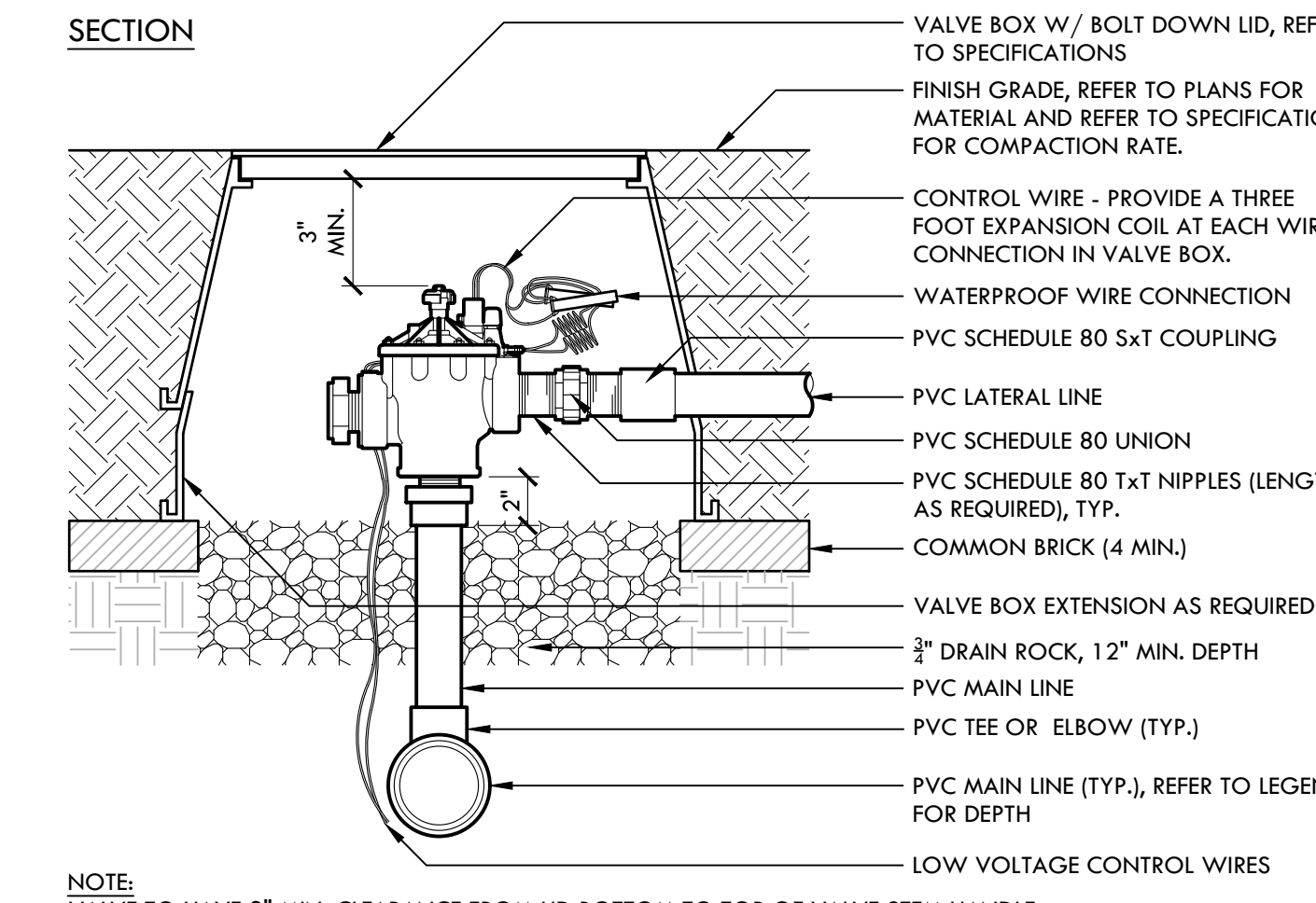
VALVE BOX LAYOUT WITH ANGLE VALVES

NTS

D

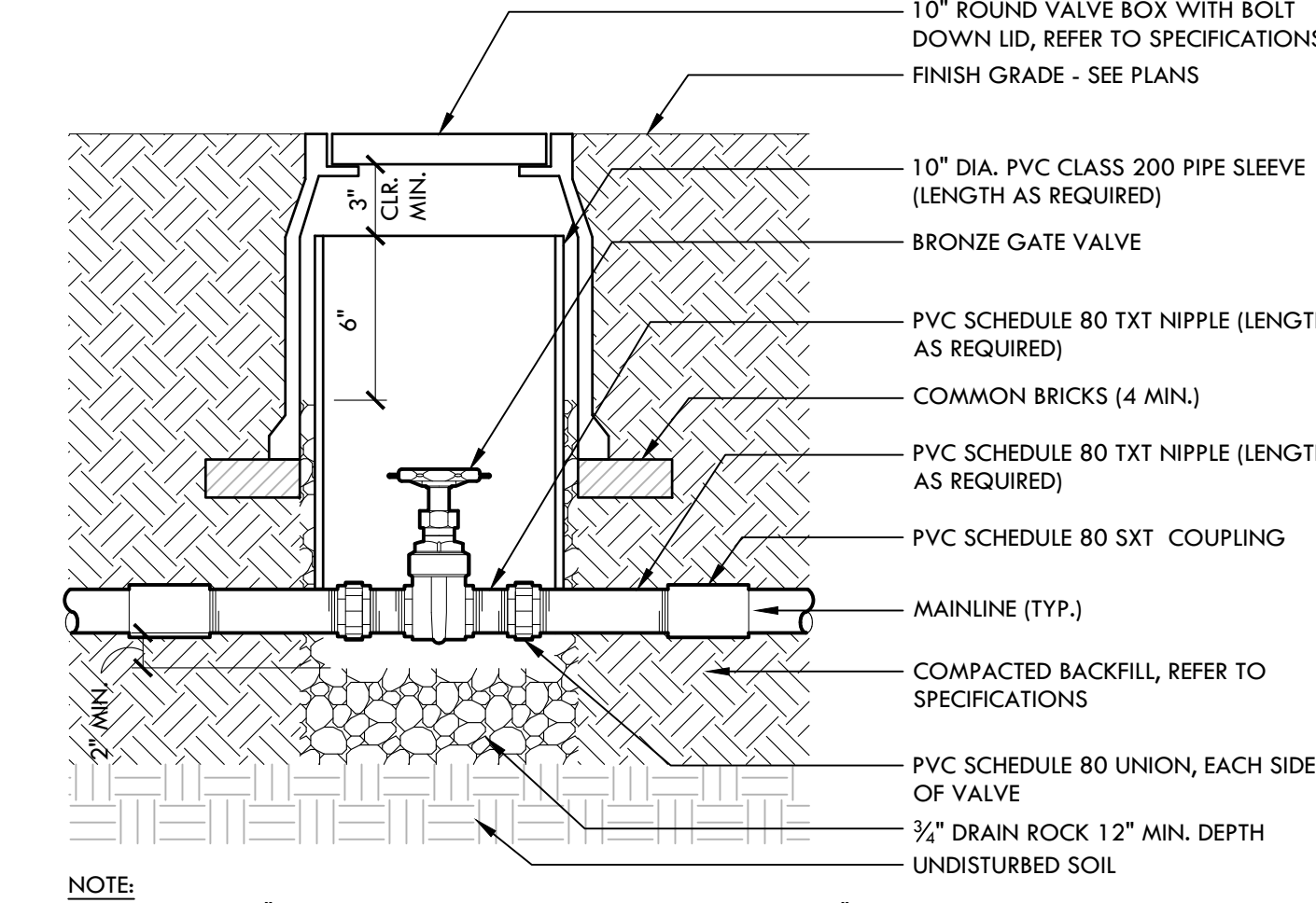
QUICK COUPLER VALVE

NTS



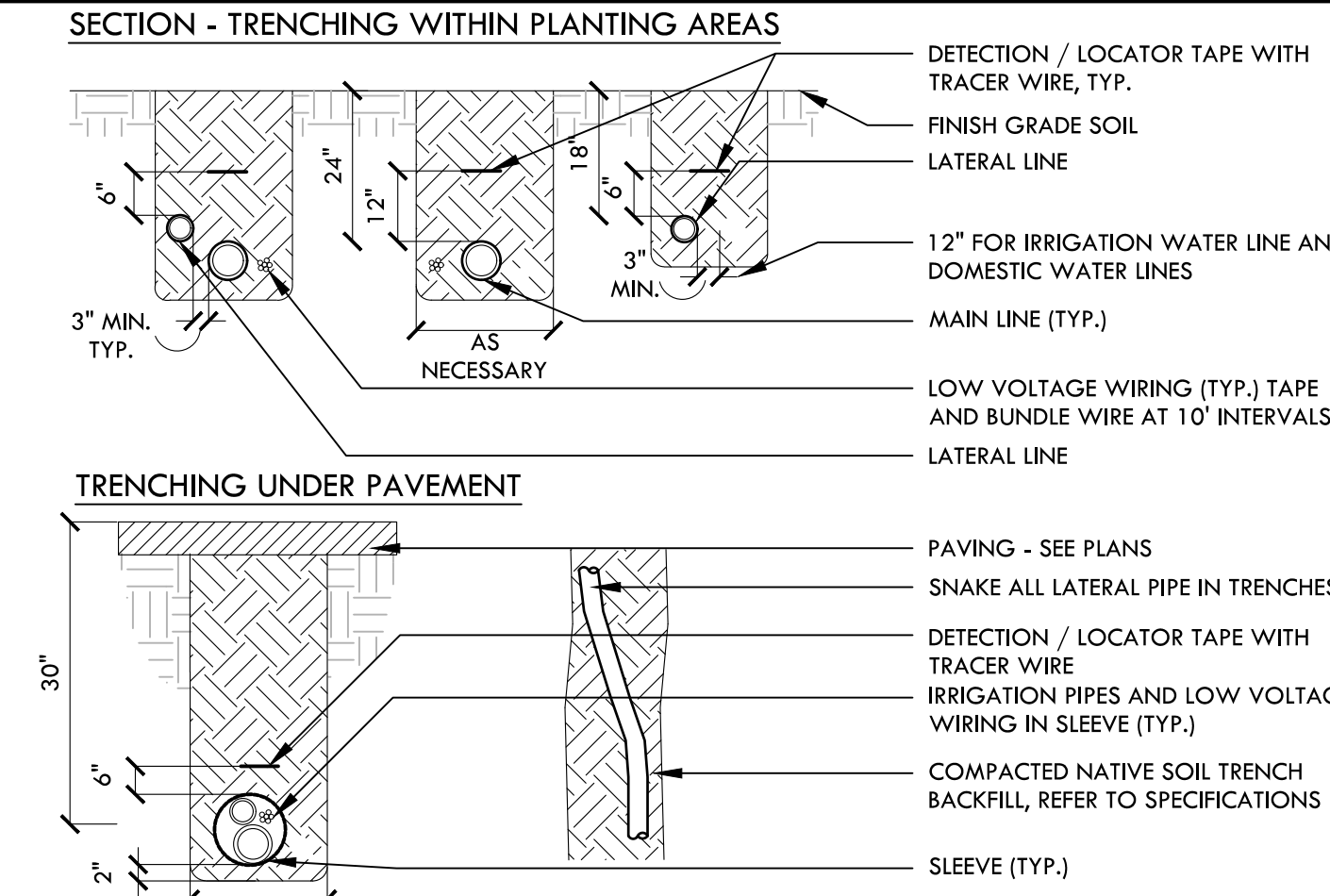
REMOTE CONTROL VALVE

NTS



GATE VALVE - 2" AND SMALLER IN SIZE

NTS



IRRIGATION PIPE TRENCHING

NTS

**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesignInc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER  
EXPIRATION DATE: June 30, 2025  
No. C-56494

KEY MAP

SHEET TITLE

PLANTING & IRRIGATION  
DETAILS

PROJECT NAME  
WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

SUBMITTAL

DATE

DSA SUBMITTAL

12/10/24

NO. REVISIONS DATE

|    |  |  |
|----|--|--|
| 1  |  |  |
| 2  |  |  |
| 3  |  |  |
| 4  |  |  |
| 5  |  |  |
| 6  |  |  |
| 7  |  |  |
| 8  |  |  |
| 9  |  |  |
| 10 |  |  |

DRAWN BY

CHECKED BY

DATE ISSUED

SCALE

VDI PROJ. NO.

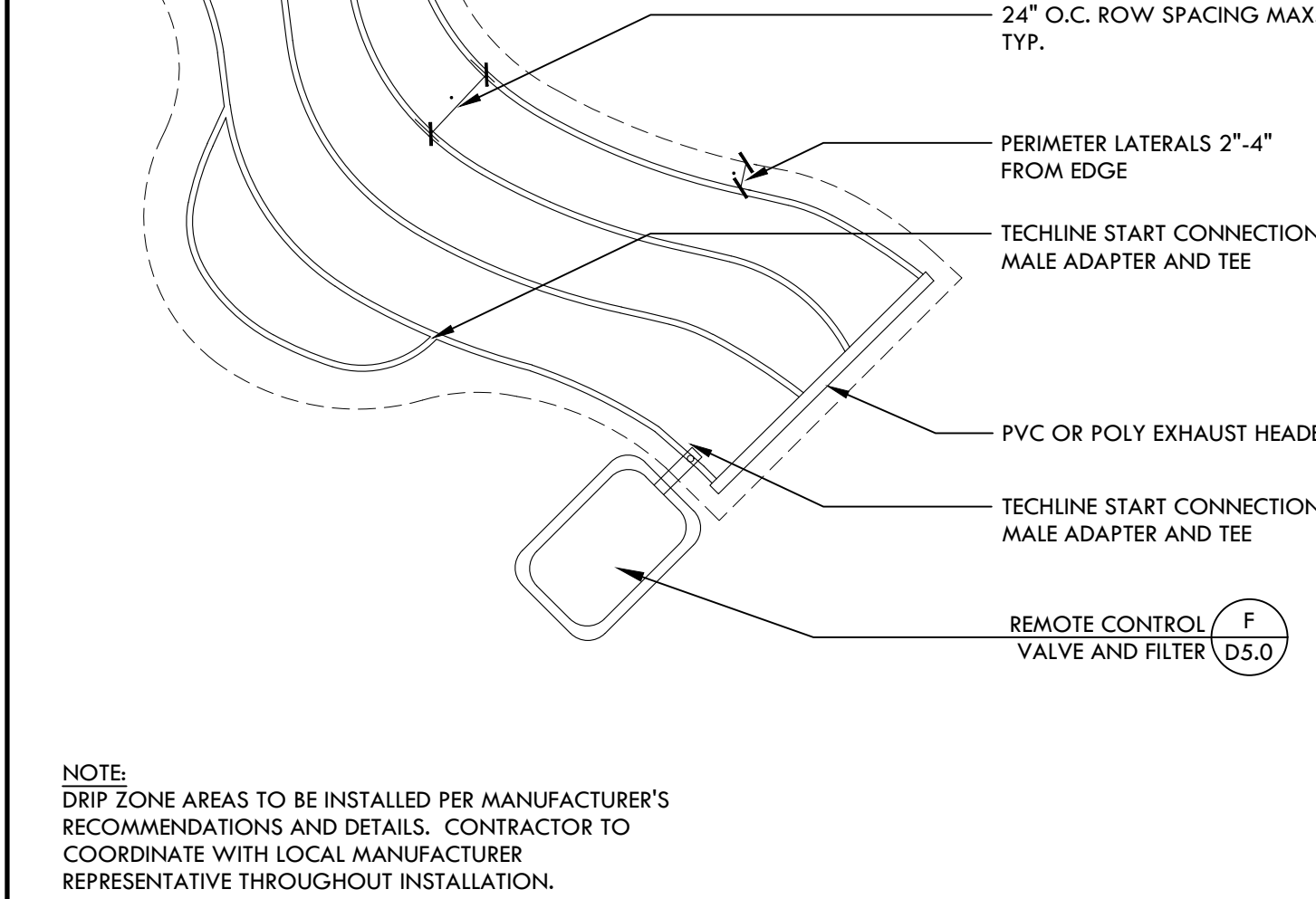
SSFUSD PROJ. NO.

SHEET NO.

D5.0

PLANTING & IRRIGATION DETAILS





| STAMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------|------|---------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|--|--|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| KEY MAP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| <br>NORTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| SHEET TITLE<br><br><h2 style="text-align: center; margin: 0;">PLANTING &amp; IRRIGATION<br/>DETAILS</h2>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| PROJECT NAME<br><br><h3 style="text-align: center; margin: 0;">WESTBOROUGH<br/>MIDDLE SCHOOL<br/>FIELD AND PARKWAY<br/>IMPROVEMENTS</h3>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| PROJECT ADDRESS<br><br><h3 style="margin: 0;">2570 WESTBOROUGH BLVD<br/>SOUTH SAN FRANCISCO<br/>CA 94080</h3>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| SUBMITTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DATE                               |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| DSA SUBMITTAL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12/10/24                           |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"><tr><th style="width: 10%;">NO.</th><th style="width: 80%;">REVISIONS</th><th style="width: 10%;">DATE</th></tr><tr><td style="text-align: center;"></td><td></td><td></td></tr><tr><td style="text-align: center;"></td><td></td><td></td></tr><tr><td style="text-align: center;"></td><td></td><td></td></tr><tr><td style="text-align: center;"></td><td></td><td></td></tr><tr><td style="text-align: center;"></td><td></td><td></td></tr></table> | NO.                                | REVISIONS | DATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | REVISIONS                          | DATE      |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| DRAWN BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CHECKED BY<br><br><b>JW</b>        |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| DATE ISSUED<br><b>12/10/2024</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SCALE<br><br><b>NTS</b>            |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| VDI PROJ. NO.<br><b>2320400</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SSFUSD PROJ. NO.<br><b>025-960</b> |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |
| SHEET NO.<br><br><h1 style="text-align: center; margin: 0;">D5.1</h1>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |           |      |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |                                                                                       |  |  |  |



475.00  
474.00  
473.00  
472.00  
471.00  
470.00  
469.00  
468.00  
467.00  
466.00  
465.00  
464.00  
463.00  
462.00  
461.00  
460.00  
459.00  
458.00  
457.00

6°  
1'-0"

H D2.1 GUARDRAIL W/ HANDRAIL  
L D2.0 12" WIDE TALL CURB WITH RAILING

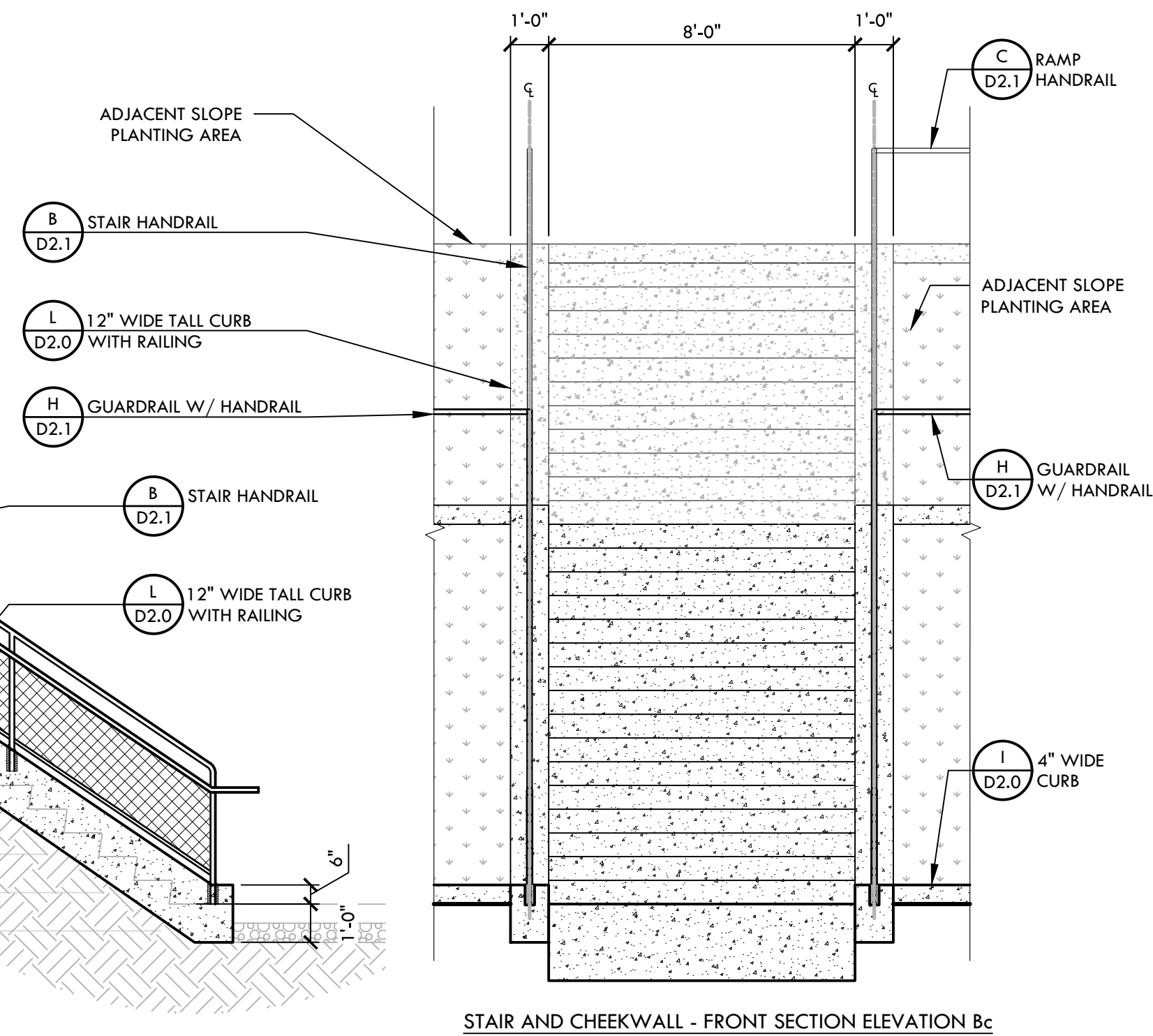
6°  
1'-0"

B D2.1 STAIR HANDRAIL  
L D2.0 12" WIDE TALL CURB WITH RAILING  
H D2.1 GUARDRAIL W/ HANDRAIL  
B D2.1 STAIR HANDRAIL  
L D2.0 12" WIDE TALL CURB WITH RAILING

6°  
1'-0"

CHEEKWALL - SECTION VIEW Bb

CHEEKWALL - SECTION VIEW B-B



STAIR AND CHEEKWALL - FRONT SECTION ELEVATION Bc



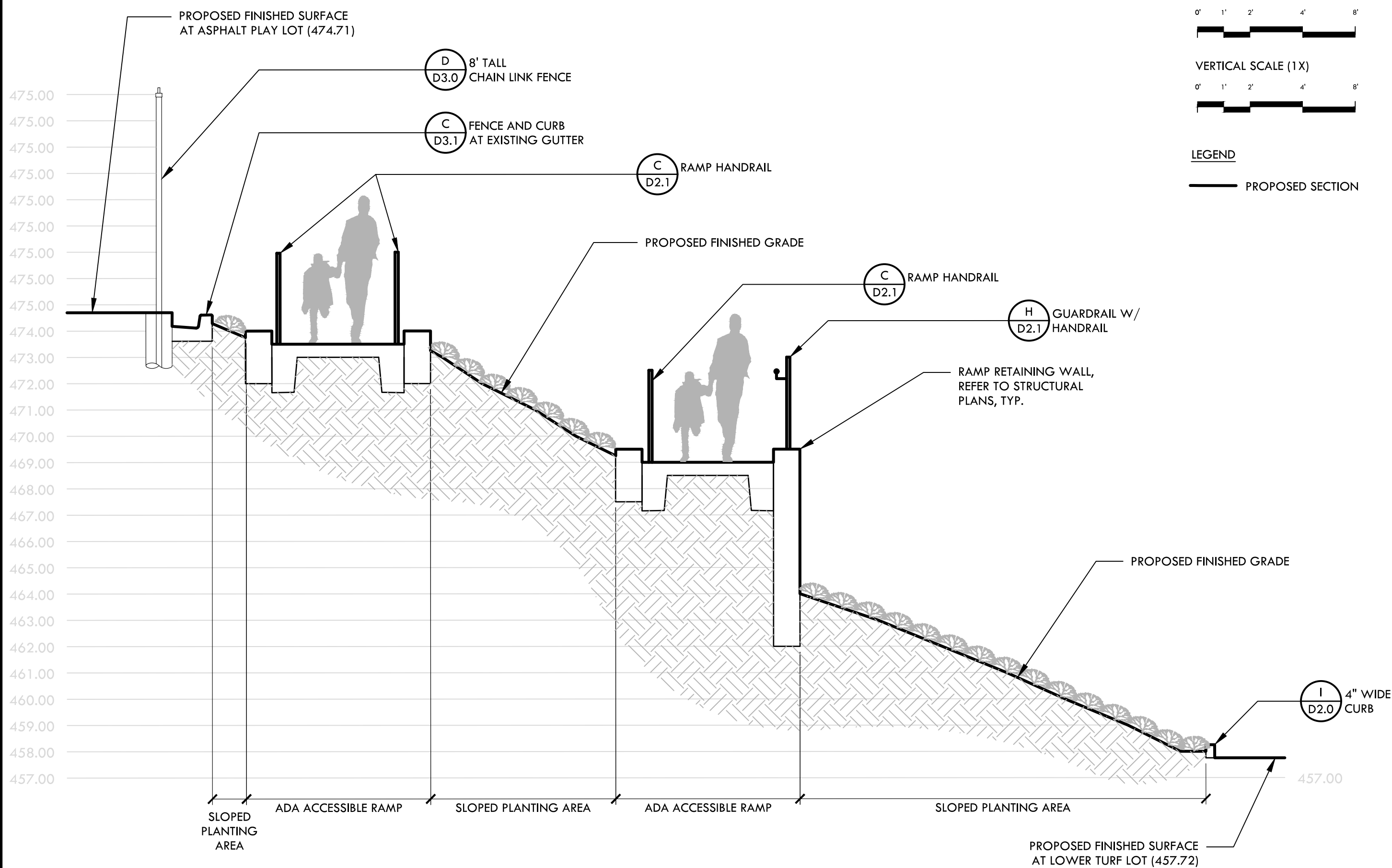
**2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
[www.VerdeDesignInc.com](http://www.VerdeDesignInc.com)**

REGISTERED PROFESSIONAL ENGINEER  
DEVIN CONWAY  
No. C-56494  
\_\_\_\_\_  
Signature  
EXPIRATION DATE: June 30, 2025  
STATE OF CALIFORNIA

Architectural drawing showing a building facade with a grid overlay. A North arrow is located in the bottom right corner.

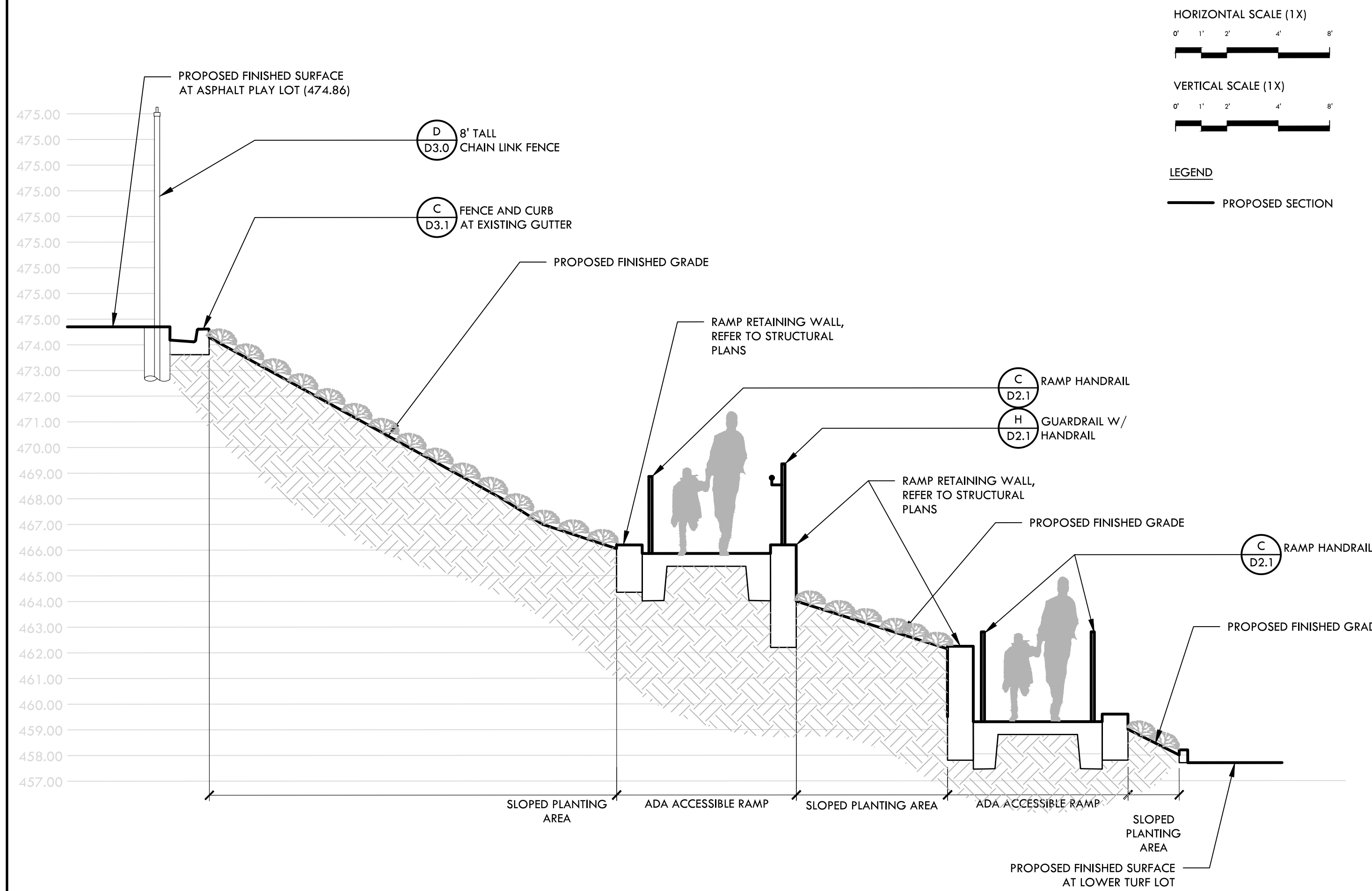


NTS



**C** SECTION C - ADA ACCESSIBLE RAMP

NTS



**A SECTION C - ADA ACCESSIBLE RAMP**

NTS

## SECTION DETAILS

# WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

|               |          |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |
|---------------|----------|

|  |  |
|--|--|
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|  |  |

|  |  |
|--|--|
|  |  |
|--|--|

|   |  |  |
|---|--|--|
| △ |  |  |
|---|--|--|

|                                                                                       |  |  |
|---------------------------------------------------------------------------------------|--|--|
|  |  |  |
|  |  |  |

|   |  |  |
|---|--|--|
|   |  |  |
| △ |  |  |

|                                                                                       |  |  |
|---------------------------------------------------------------------------------------|--|--|
|  |  |  |
|  |  |  |

|          |            |
|----------|------------|
| DRAWN BY | CHECKED BY |
|----------|------------|

|             |       |
|-------------|-------|
| DATE ISSUED | SCALE |
| 12/10/2024  | NITS  |

|               |                  |
|---------------|------------------|
| VDI PROJ. NO. | SSFUSD PROJ. NO. |
| 2320400       | 025-960          |

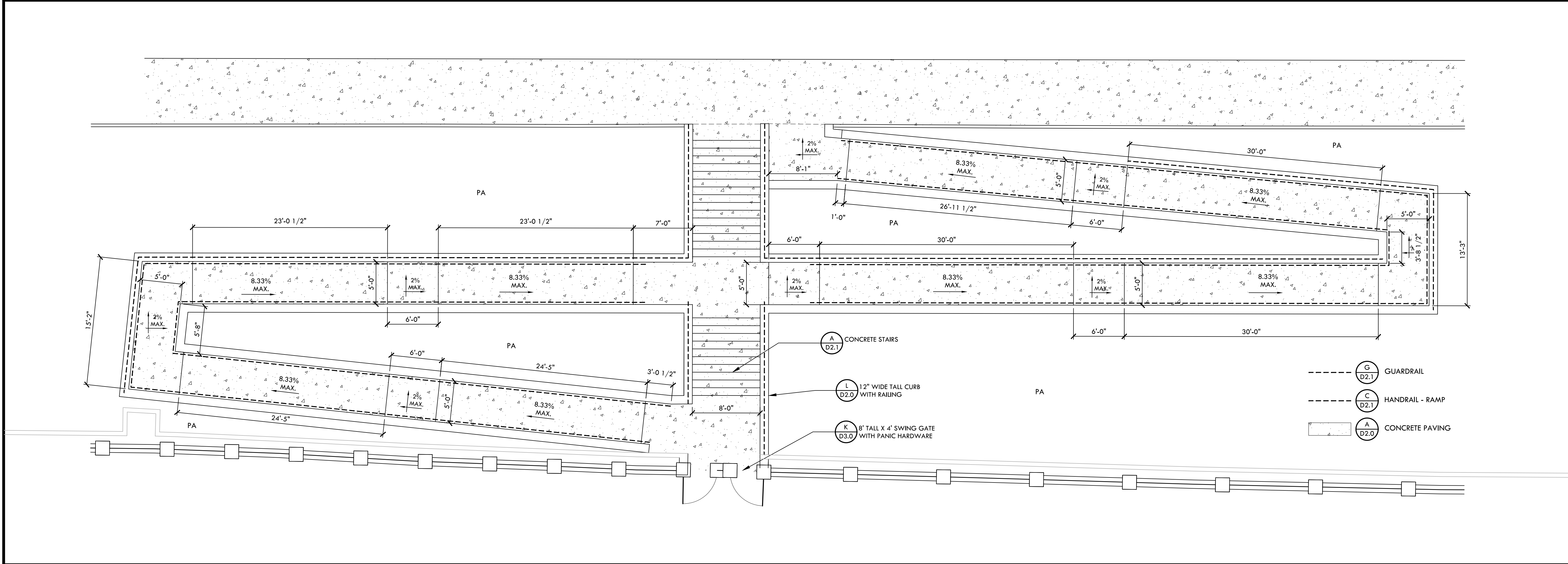
SHEET NO

D6.0

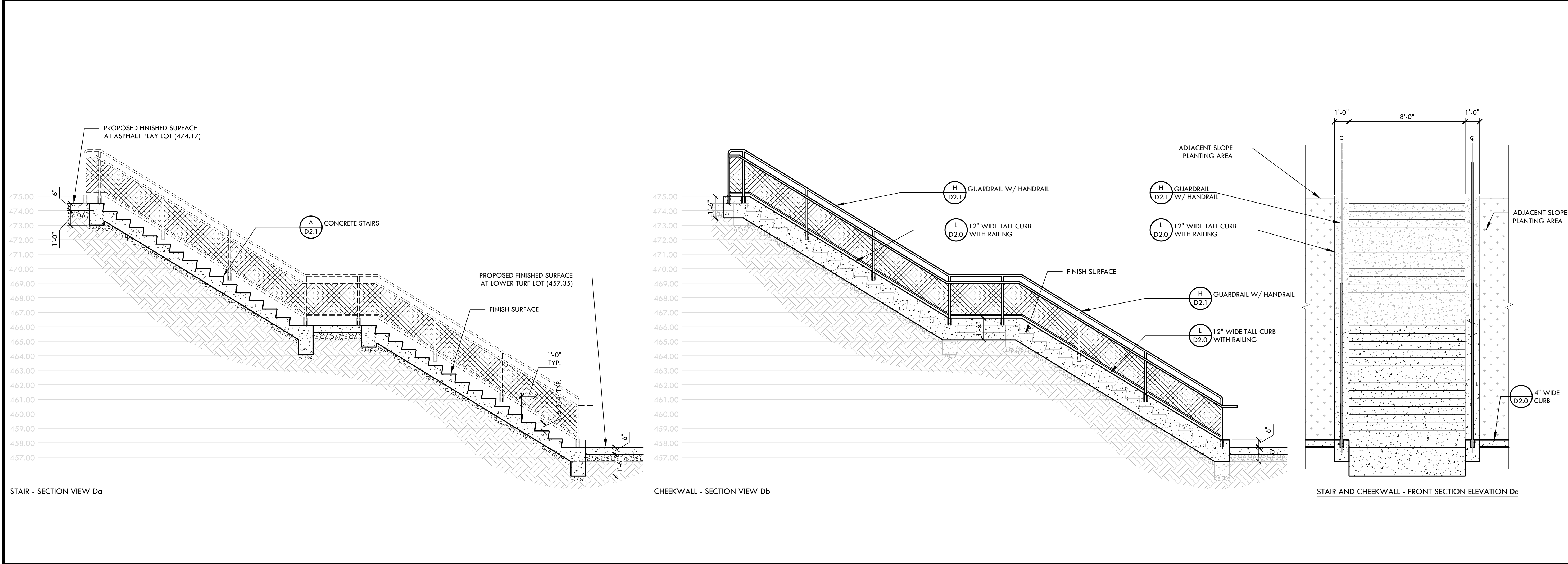
SECTION/ENLARGEMENT DETAILS



ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE, WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.



**B** SECTION D - CONCRETE STAIRS RAMP NTS

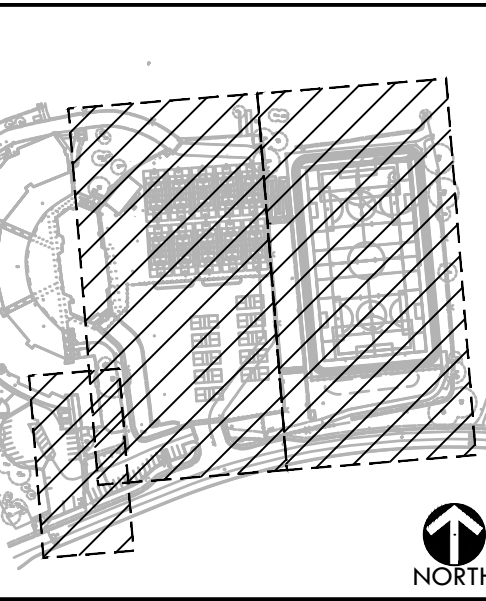


**A** SECTION D - CONCRETE STAIRS RAMP NTS

DRAWING NAME: Y:\Projects-SC\2023\2320400 - Westborough MS Campus Improvements\CAD\D6.0 SECTIONS.dwg  
PLOT DATE: 02-14-25 PLOTTED BY: station12

**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN  
2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com

STAMP  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL ENGINE  
No. C-56494  
Signature  
EXPIRATION DATE: June 30, 2025  
STATE OF CALIFORNIA



SHEET TITLE  
**SECTION  
DETAILS**

PROJECT NAME  
**WESTBOROUGH  
MIDDLE SCHOOL  
FIELD AND PAVEMENT  
IMPROVEMENTS**

PROJECT ADDRESS  
**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
| 1   |           |      |
| 2   |           |      |
| 3   |           |      |
| 4   |           |      |
| 5   |           |      |
| 6   |           |      |
| 7   |           |      |
| 8   |           |      |
| 9   |           |      |
| 10  |           |      |

|                           |                             |
|---------------------------|-----------------------------|
| DRAWN BY                  | CHECKED BY<br>JW            |
| DATE ISSUED<br>12/10/2024 | SCALE<br>NTS                |
| VDI PROJ. NO.<br>2320400  | SSFUSD PROJ. NO.<br>025-960 |
| SHEET NO.                 |                             |

**D6.1**  
SECTION/ENLARGEMENT DETAILS

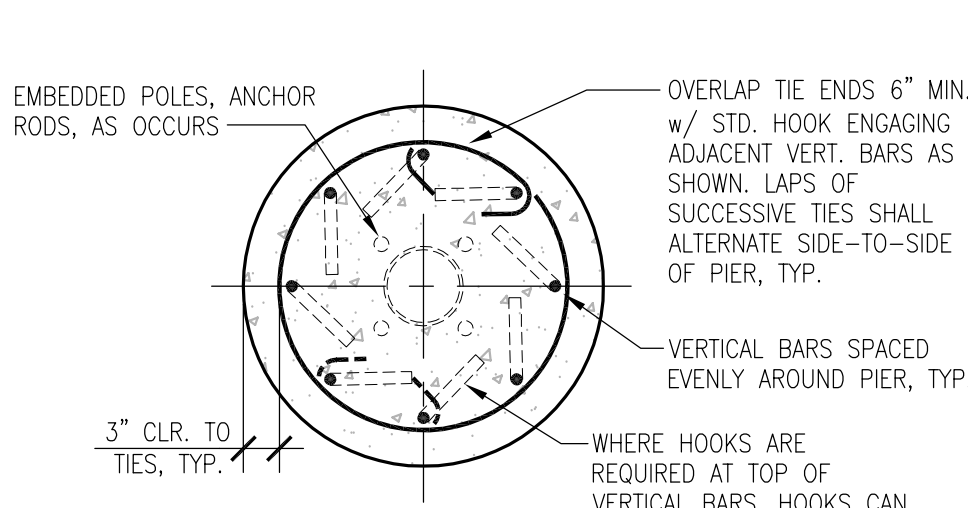


## STRUCTURAL GENERAL NOTES

- PROVIDE SHOP DRAWINGS FOR THE FOLLOWING MATERIALS/PRODUCTS:
- A) CONCRETE MIX DESIGNS (SUBMIT TO TESTING/INSPECTION AGENCY)
  - B) CONCRETE REINFORCING
  - C) STRUCTURAL STEEL AND MISC. METALS
- SEE SPECIFICATIONS FOR OTHER SUBMITTALS AND SUBMITTAL PROCEDURES

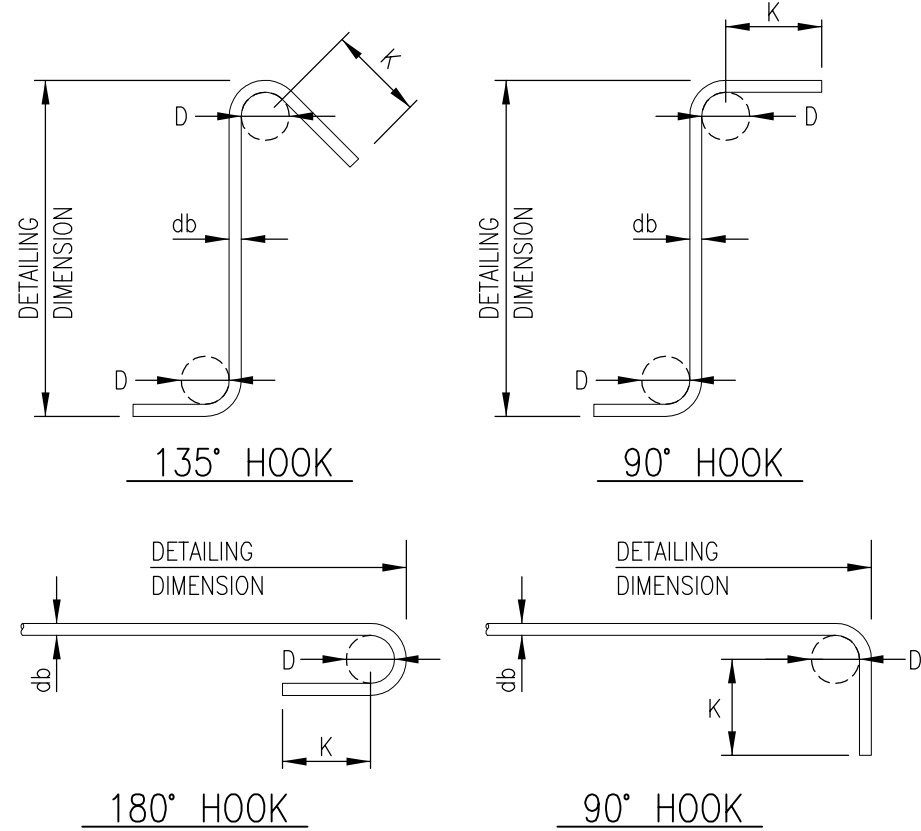


ALL IDEAS, DESIGNS, ARRANGEMENTS, AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



1 TYPICAL PIER REINFORCING REQUIREMENTS

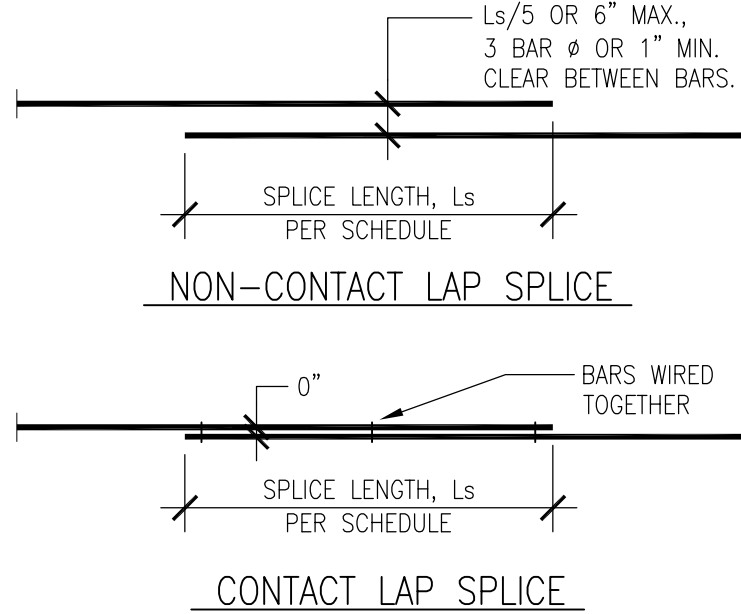
3/4"=1'-0"



2 TYPICAL REBAR BENDS AND HOOKS

| STANDARD HOOKS |        |                |               |
|----------------|--------|----------------|---------------|
| BAR SIZE       | "D" IN | 180° HOOKS "K" | 90° HOOKS "K" |
| #3             | 2-1/4" | 2-1/2"         | 4-1/2"        |
| #4             | 3"     | 2-1/2"         | 6"            |
| #5             | 3-3/4" | 2-1/2"         | 7-1/2"        |
| #6             | 4-1/2" | 3"             | 9"            |
| #7             | 5-1/4" | 3-1/2"         | 10-1/2"       |
| #8             | 6"     | 4"             | 12"           |

| STIRRUP AND TIE HOOKS |        |                |                |               |
|-----------------------|--------|----------------|----------------|---------------|
| BAR SIZE              | "D" IN | 180° HOOKS "K" | 135° HOOKS "K" | 90° HOOKS "K" |
| #3                    | 1-1/2" | 2-1/2"         | 3"             | 3"            |
| #4                    | 2"     | 2-1/2"         | 3"             | 3"            |
| #5                    | 2-1/2" | 2-1/2"         | 3-3/4"         | 3-3/4"        |
| #6                    | 4-1/2" | 3"             | 4-1/2"         | 9"            |



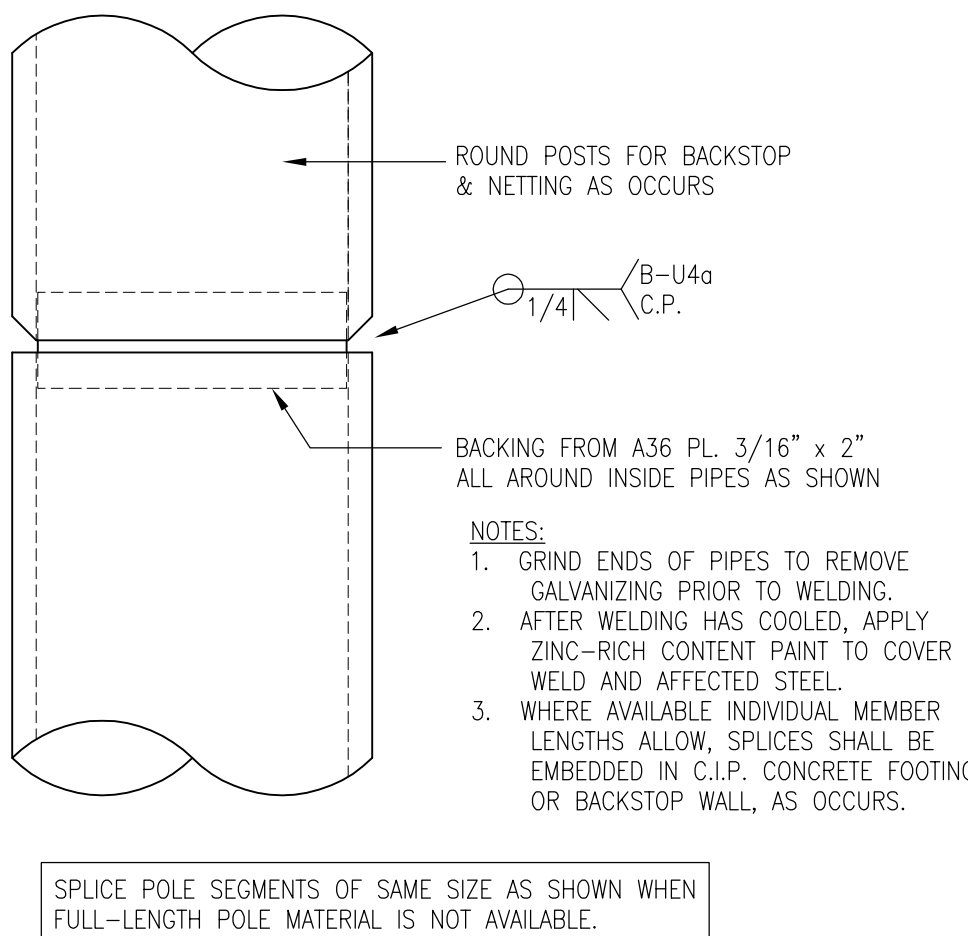
4 TYPICAL REBAR BENDING SPLICES

| REBAR LAP SPlice LENGTHS (Ls) |                                                           |                                     |                       |
|-------------------------------|-----------------------------------------------------------|-------------------------------------|-----------------------|
| BAR SIZE                      | HARD ROCK (REG. WT.) CONCRETE CLASS B SPlice TYP., U.N.O. | TOP BARS (SEE NOTE 1) MASONRY (CMU) | GROUTED MASONRY (CMU) |
| #3                            | 16"                                                       | 19"                                 | 27"                   |
| #4                            | 19"                                                       | 25"                                 | 36"                   |
| #5                            | 36"                                                       | 47"                                 | 45"                   |
| #6                            | 43"                                                       | 56"                                 | 54"                   |
| #7                            | 63"                                                       | 81"                                 | 63"                   |
| #8                            | 72"                                                       | 93"                                 | 72"                   |
| #9                            | 81"                                                       | 105"                                | -                     |
| #10                           | 90"                                                       | 116"                                | -                     |
| #11                           | 98"                                                       | 128"                                | -                     |

- NOTES:
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS, IN SAME POUR AS BARS (AS IN DEEP BEAM OR FOOTING POURS, ETC.).
  - STAGGER LAPS IN SUCCESSIVE PARALLEL BARS IN SLABS AND WALLS A DISTANCE EQUAL TO THE REQUIRED LAP SPlice LENGTH, BUT NOT LESS THAN 24" (ALONG LENGTH OF BARS).
  - ALL LAP SPlices SHALL BE CONTACT OR NON-CONTACT TYPE, AS SHOWN.
  - INCREASE SCHEDULED LAP LENGTHS BY 30% WHEN IN LIGHT WEIGHT CONCRETE.

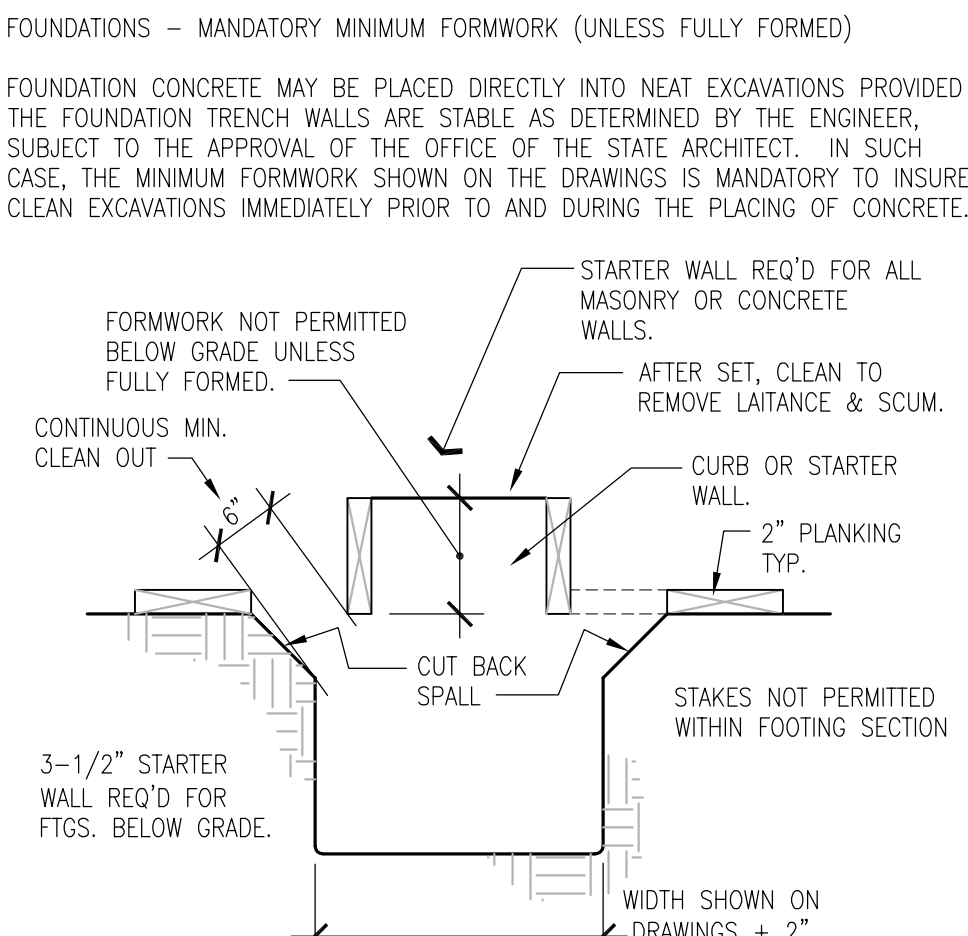
NO SCALE

NO SCALE



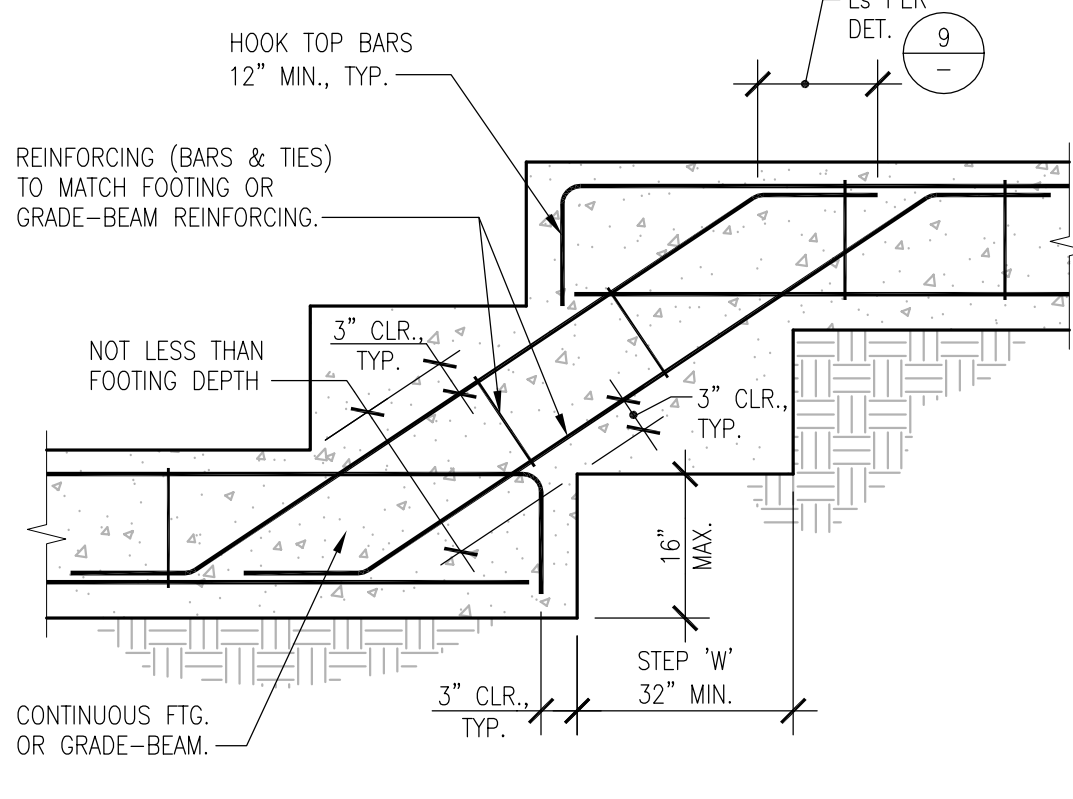
6 TYP. POLE SPlice WHERE REQUIRED

3/4"=1'-0"



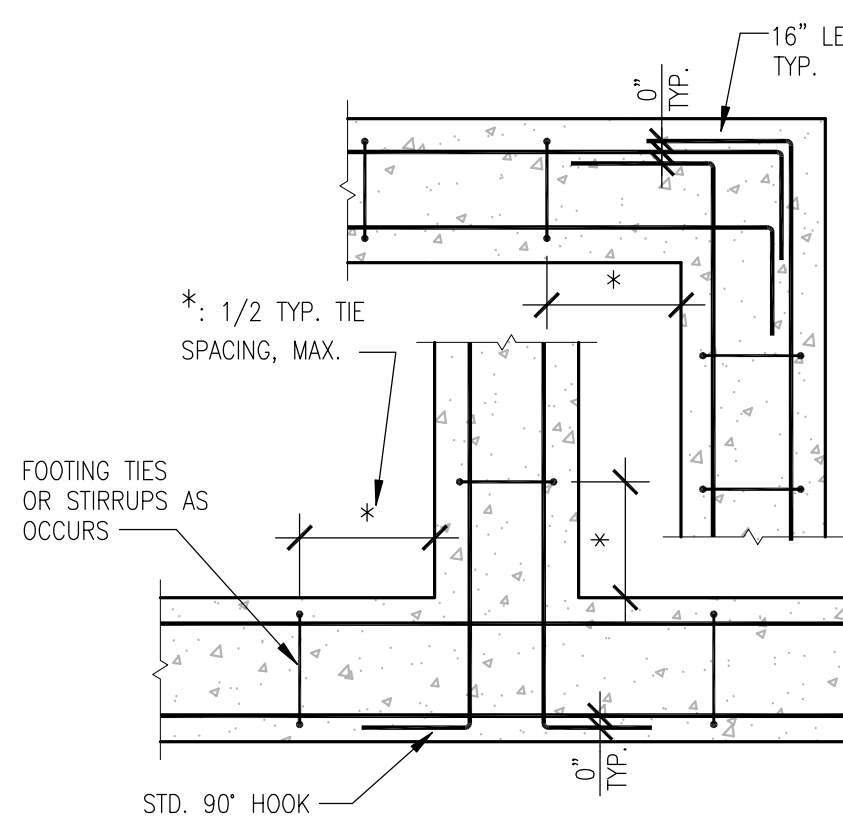
7 TYPICAL FOOTING TRENCHING

NO SCALE



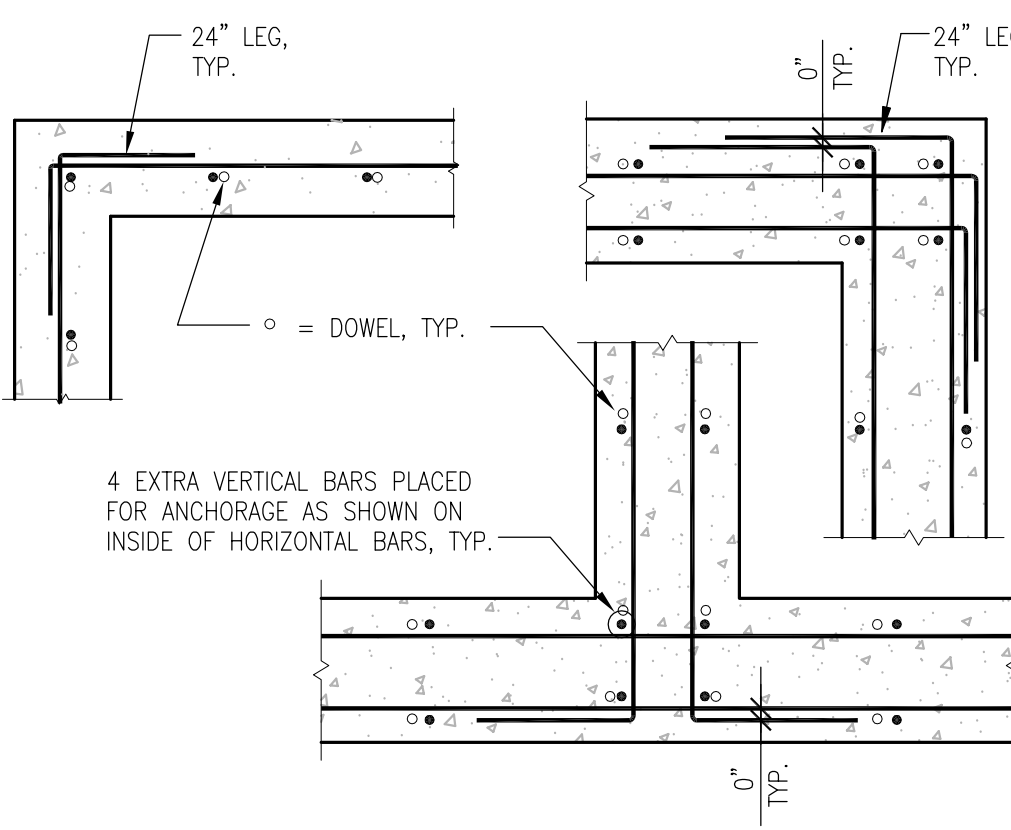
8 TYPICAL FOOTING STEPS

1"=1'-0"



9 TYP. FOOTING INTERSECTION REBAR

3/4"=1'-0"



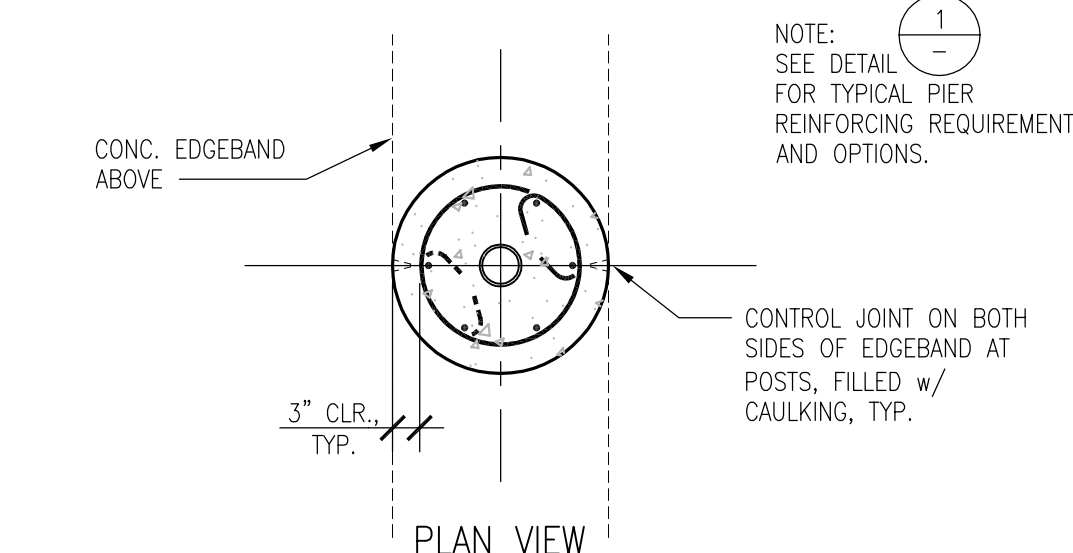
10 TYP. WALL INTERSECTION REBAR

3/4"=1'-0"

| POLE TYPE                | PIER DIAMETER, "DIA" | MIN. PIER DEPTH, "D" | PIER REINFORCING | COMMENTS                                                                                                                                                         |
|--------------------------|----------------------|----------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13.5' BASKETBALL HOOP    | 18"                  | 5'-6"                | SEE DETAIL 18    | STEEL POLES BY OTHERS; STEEL POLE SHALL BE MIN. ASTM A53, GRADE B OR ASTM A36 OR ASTM A500 w/ MIN. Fy=35 ksi.                                                    |
| 20' HIGH PREFAB BACKSTOP | 18"                  | 6'-0"                | SEE DETAIL 19    | STEEL POLES BY OTHERS; MAX. POST SPACING = 10'-0" o.c. PER MFR.'s RECOMMENDATIONS.                                                                               |
| 25' HIGH NETTING         | 30"                  | 6'-0"                | SEE DETAIL 20    | 8" STD. PIPE POSTS (SCHED. 40, 8.625" O.D. x 0.322" WALL, ASTM A53, OR: B, Fy=35 ksi). MAX. POST SPACING = 24'-0" o.c. SPlice POSTS WHERE REQD. PER DET. 6/54.1. |

11 POLE/POST & C.I.D.H. PIER SCEDULE

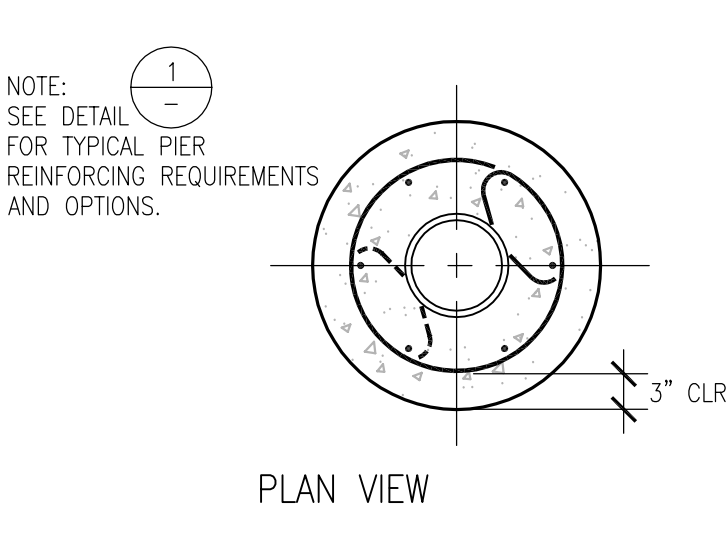
NO SCALE



18 BACKSTOP POLE FOOTING

PREFAB MFR. POLE - AT SOFTBALL

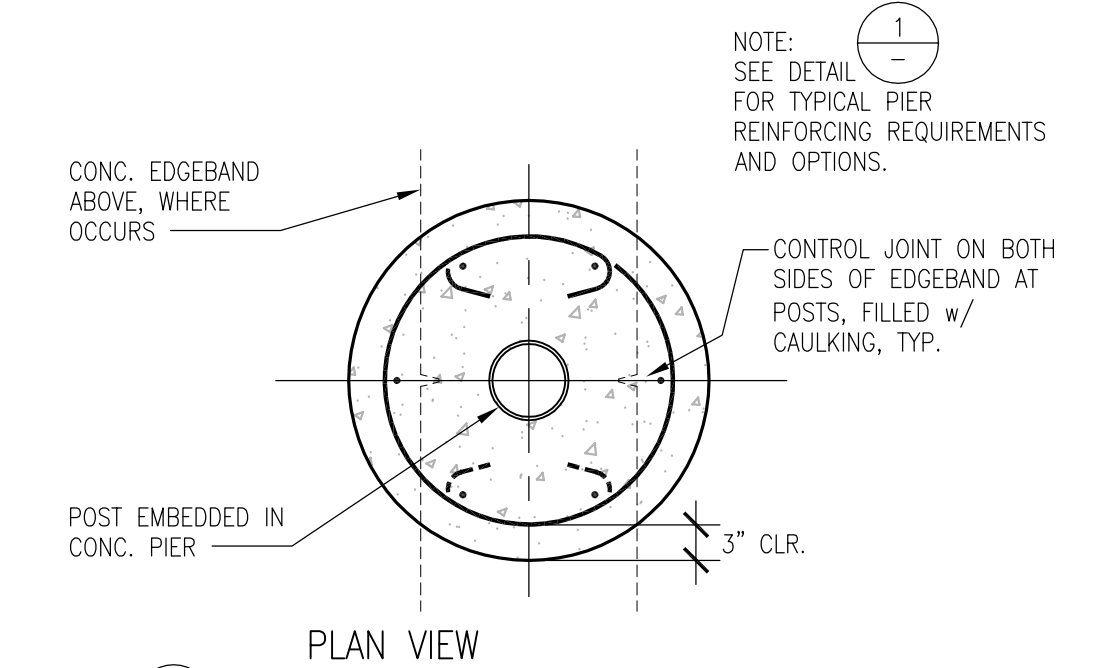
3/4"=1'-0"



19 BASKETBALL HOOP POST FOOTING

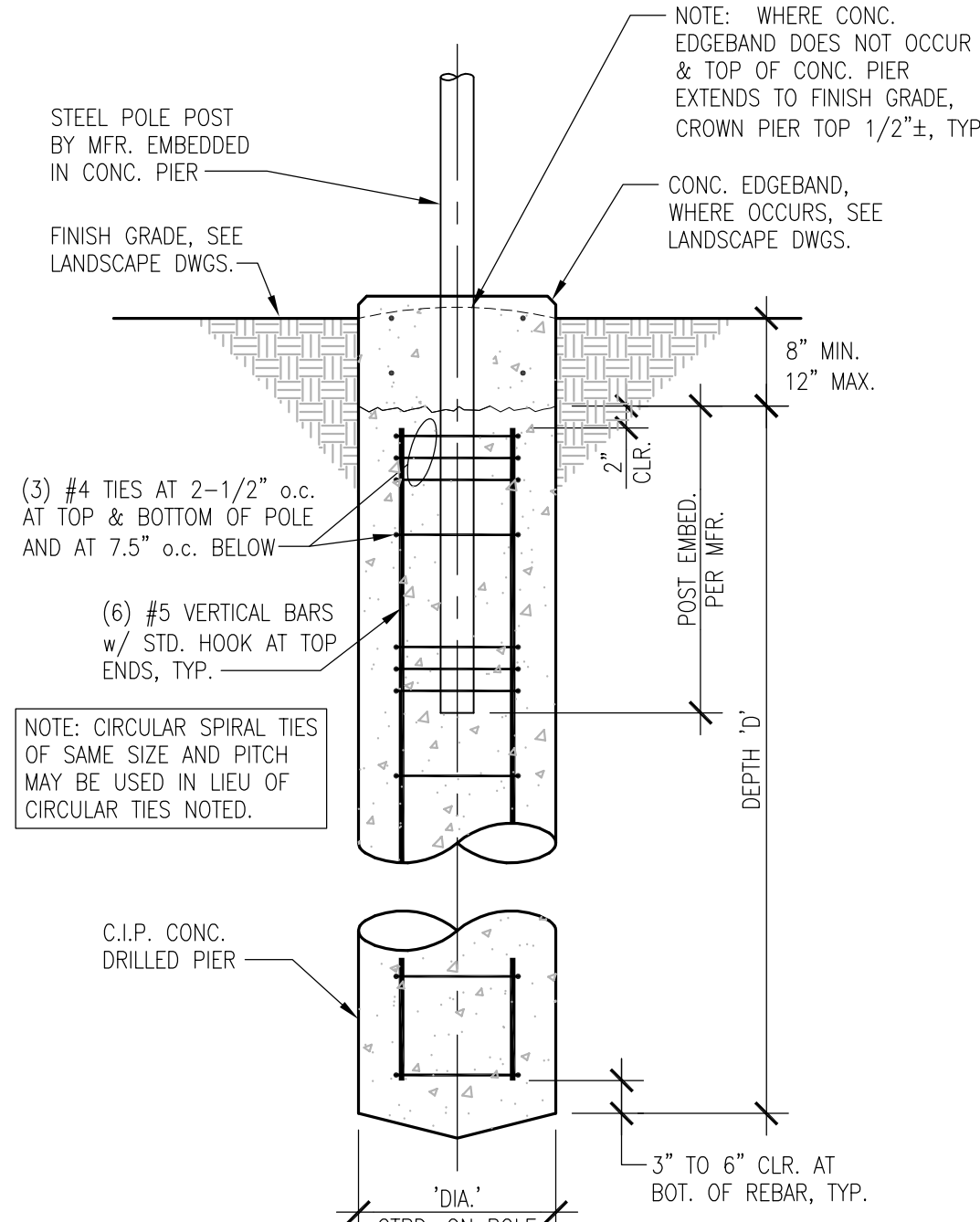
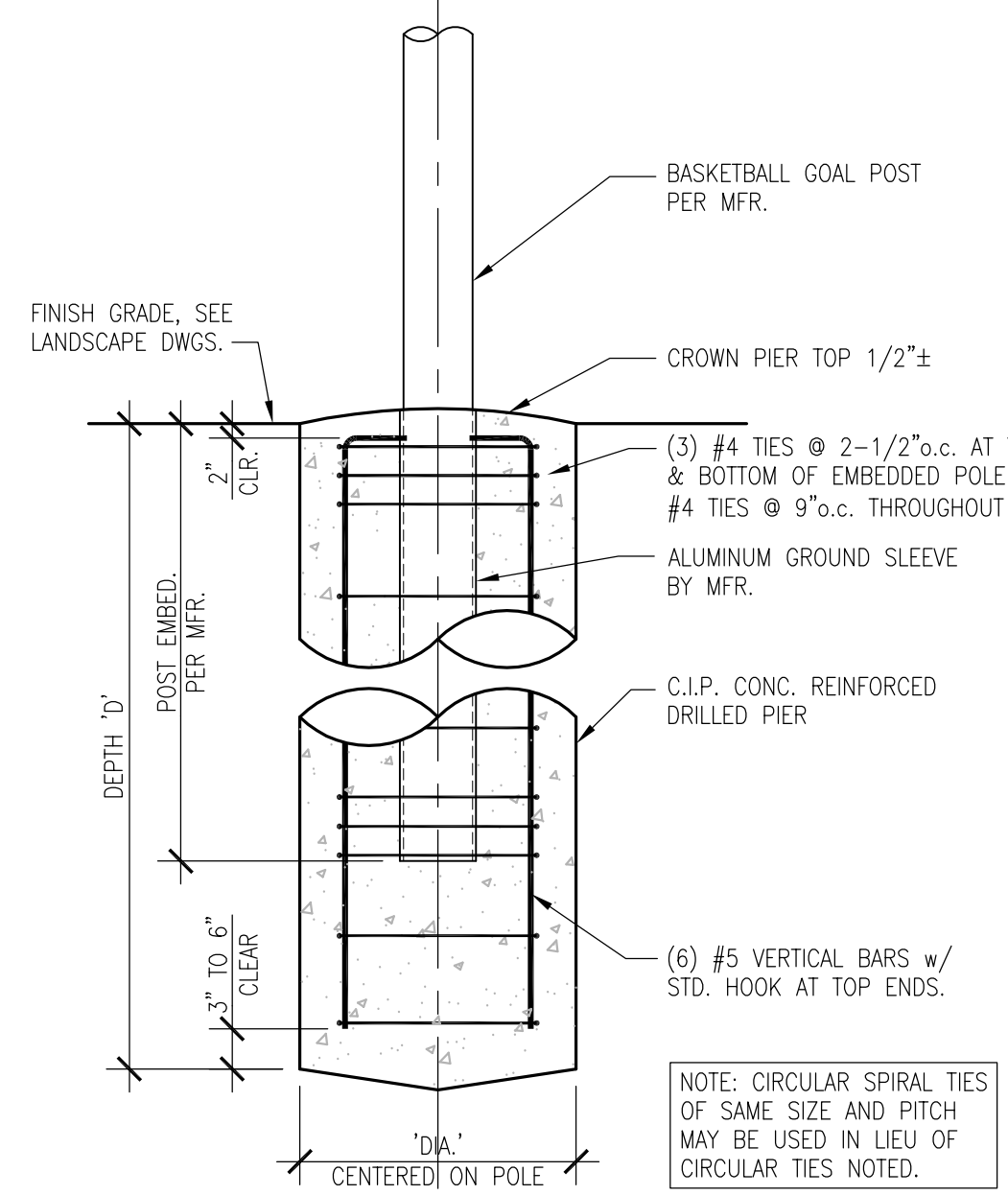
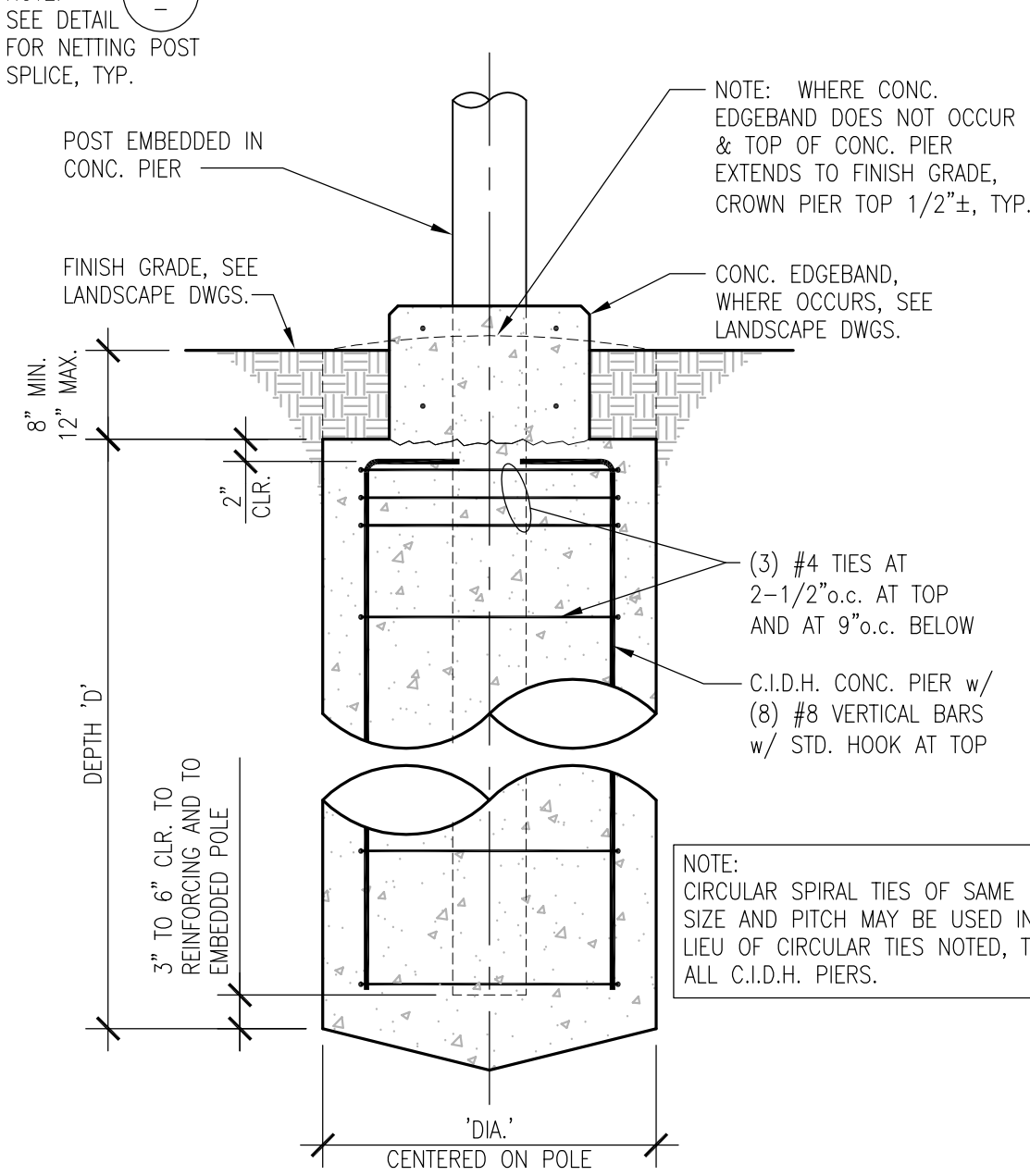
MFR. POLE

3/4"=1'-0"



20 NETTING POST FOOTING

3/4"=1'-0"

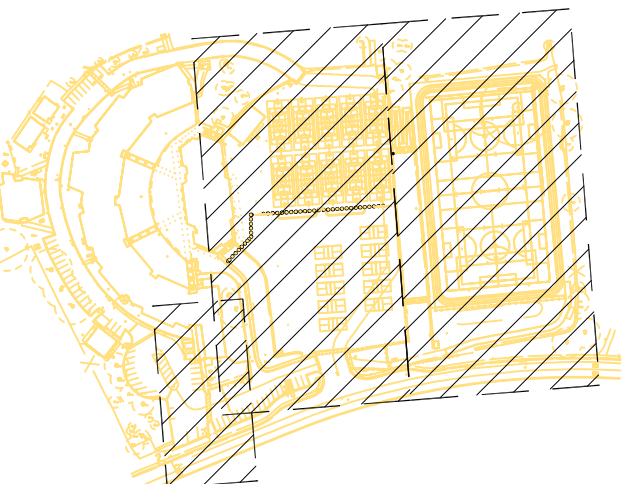


VERDE DESIGN  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com



KEY MAP



SHEET TITLE

TYPICAL & SITE  
STRUCTURES  
STRUCTURAL  
DETAILS

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
CAMPUS IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

| SUBMITTAL | DATE |
|-----------|------|
|-----------|------|

DSA SUBMITTAL 12/10/24

| NO. | REVISIONS | DATE |
|-----|-----------|------|
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |
|     |           |      |

DRAWN BY JJQ CHECKED BY TDH

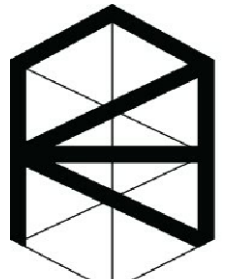
DATE ISSUED 12/10/2024 SCALE AS NOTED

PROJ. NO. 2320400

SHEET NO.

S1.2

TYPICAL & SITE STRUCTURES STRUCTURAL DETAILS



AKH

Structural Engineers, Inc

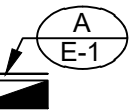
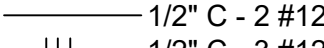
275 Tennant Avenue, Ste. 204 ph: 408.978.1970  
Morgan Hill, CA 95037 AKHSE.com Job M23-081

DRAWING NAME: P:\Verde Design\M23-081 Westborough MS Fields, So San Francisco\Draws\Structural\S1.2.dwg  
PLOT DATE: 12-09-24 PLOTTED BY: jose

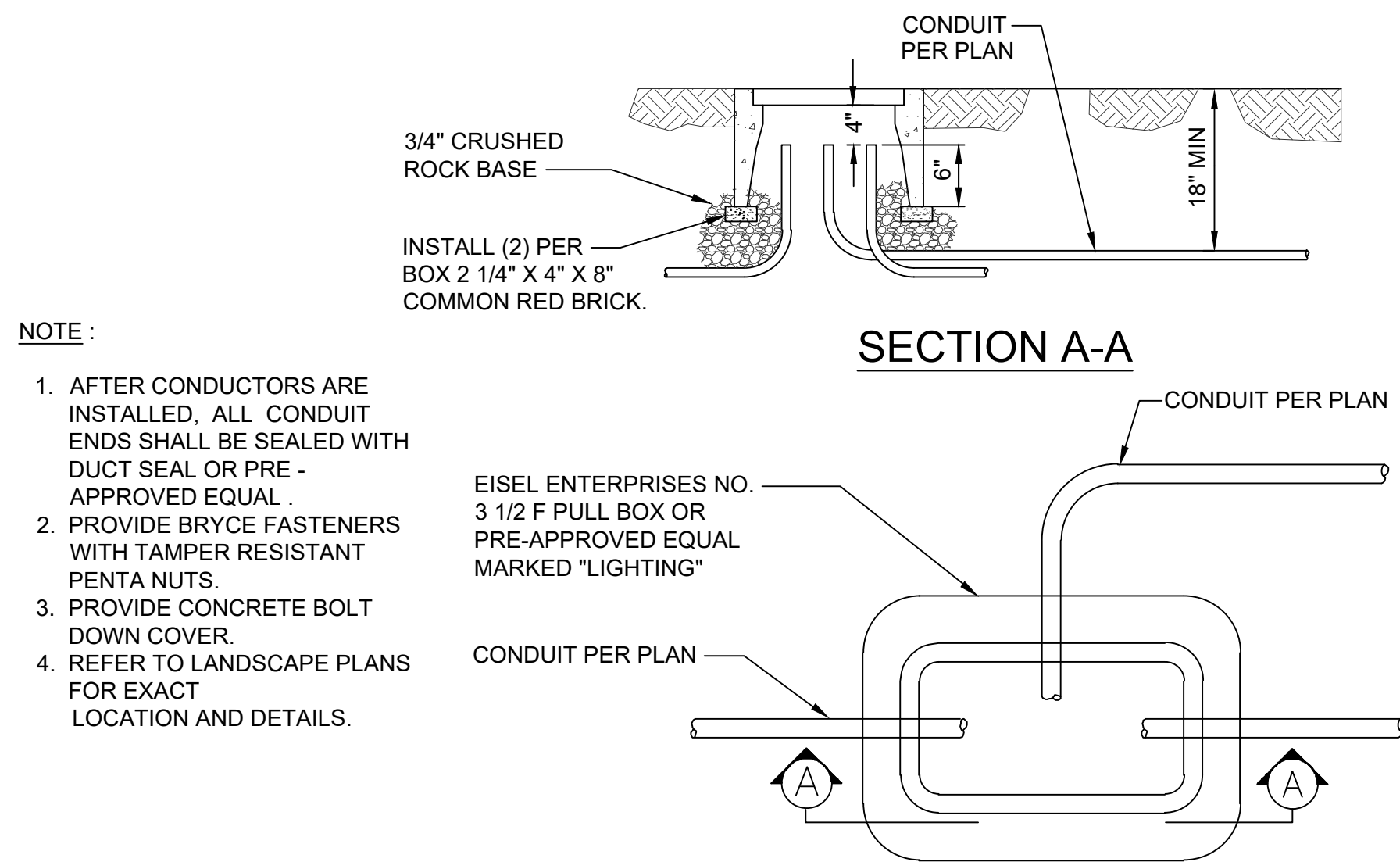






| DEMOLITION NOTES |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GENERAL NOTES |                                                                                                                                                                                                                                                                                                                                                                 | SYMBOL LIST |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ABBREVIATIONS LIST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.               | REFER TO LANDSCAPE AND CIVIL DEMOLITION DRAWINGS FOR DEMOLITION AREAS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF ALL EXISTING ELECTRICAL REQUIRED TO CLEAR NEW CONSTRUCTION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:<br><br>A. ALL EXISTING WIRE SHALL BE REMOVED FROM CONDUIT.<br><br>B. ALL EXISTING CONDUIT, THAT INTERFERES WITH ANY NEW CONSTRUCTION SHALL BE CUT BACK AS REQUIRED TO CLEAR NEW CONSTRUCTION.<br><br>C. FOR EXISTING CONSTRUCTION THAT IS TO BE REMOVED REMOVE ALL EXISTING EXPOSED, SURFACE, AND CONCEALED CONDUIT AND RACEWAYS. RECONNECT OUTLETS AND LIGHTING FIXTURES THAT REMAIN AND WHICH ARE NOW FED THROUGH THE OUTLETS TO BE REMOVED.<br><br>D. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE SALVAGEABLE, SHALL REMAIN THE PROPERTY OF OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE.<br><br>E. DO NOT REUSE SALVAGED MATERIALS AND EQUIPMENT UNLESS SPECIFICALLY INDICATED ON PLANS OR SPECIFIED. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY ARCHITECT TO BE SCRAP. | 1.            | THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OR EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIALS REQUIRED FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.<br><br>2. | 2.          | COPIES OF THE THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF ELECTRICAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.<br><br>3. | (ALL SYMBOLS NOT NECESSARILY USED ON THESE DRAWINGS)<br>ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION AS NOTED ON THE DRAWINGS. VERIFY EXACT LOCATIONS AND HEIGHTS OF OUTLETS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.<br><br> PEDESTRIAN LIGHTING POLE<br><br> DUPLEX CONVENIENCE RECEPTACLE VERTICAL ON FLUSH WALL MOUNTED OUTLET BOX, +18".<br><br> JUNCTION BOX INDICATES CONNECTION TO EQUIPMENT AS REQUIRED, TYPICAL.<br><br> PANELBOARD; ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLOON INDICATES PANEL DESIGNATION "A", SEE DRAWING E-3 FOR PANEL SCHEDULE.<br><br> CIRCUIT BREAKER STATIONARY (NON-DRAWOUT), SECONDARY VOLTAGE.<br><br> FUSED SAFETY SWITCH (DISCONNECT), HORSE POWER RATED. MOUNT ON WALL +45", OR ON EQUIPMENT +36". PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.<br><br> MOTOR CONNECTION. PROVIDE FUSED SAFETY SWITCH (DISCONNECT), HORSE POWER RATED, WALL MOUNTED, +45" OR EQUIPMENT MOUNTED, +36". PROVIDE SWITCH AND FUSES SIZED PER EQUIPMENT MANUFACTURER REQUIREMENTS.<br><br>CONDUIT, INSTALLED CONCEALED IN WALL OR IN CEILING SPACE.<br><br> 1/2" C - 2 #12<br>1/2" C - 3 #12<br>3/4" C - 4 #12<br>3/4" C - 5 #12<br>3/4" C - 6 #12<br>1" C - 7 #12<br>1" C - 8 #12<br>1 1/4" C - 9 #12<br><br>CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE, 3/4" CONDUIT MINIMUM.<br><br>EXISTING RACEWAY<br><br>HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH SEPARATE NEUTRALS. | 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LOCATIONS OF EXISTING UTILITIES ARE NOT SHOWN AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING OR CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.<br><br>10. | 5.                                                                                                                                                                                                                                                                                                    | REFER TO THE DRAWINGS AND SHOP DRAWINGS OF OTHER TRADES FOR ADDITIONAL DETAILS WHICH AFFECT THE PROPER INSTALLATION OF THIS WORK.<br><br>11. | 6.                                                                                                                                                                                                      | THE DRAWINGS INDICATE, IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS AND ARRANGEMENT OF THE COMPONENTS OF ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS AND UNDEFINED CONSTRUCTION DETAILS AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF CONDITIONS ENCOUNTERED.<br><br>12. | 7. | IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO DEVELOPED CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.<br><br>13. | 8. | PROVIDE ALL EQUIPMENT WITH ENCLOSURES LISTED OR LABELED FOR USE AND LOCATION WHERE SUCH EQUIPMENT IS INSTALLED.<br><br>14. | 9. | GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, BOTH OF THE STATE OF CALIFORNIA AND LOCAL AUTHORITIES HAVING JURISDICTION.<br><br>15. | 10. | PROVIDE GROUND WIRE IN EACH CONDUIT CONTAINING CIRCUITS FEEDING RECEPTACLES. THE CONDUIT SHALL NOT BE PERMITTED TO SERVE AS THE ONLY ELECTRICAL GROUND RETURN PATH.<br><br>16. | 11. | PROVIDE HANDLE TIES AT CIRCUIT BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS OF MULTI-WIRE BRANCH CIRCUITS WITH A SHARED NEUTRAL.<br><br>17. | 12. | UNLESS NOTED OTHERWISE ALL 120 VOLT HOMERUNS OVER 100 FEET SHALL BE #10 AWG MINIMUM, OVER 175 FEET SHALL BE #8 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.<br><br>18. | 13. | NOTIFY THE ARCHITECT IN WRITING WHEN INSTALLATION IS COMPLETE AND THAT A FINAL INSPECTION OF THIS WORK CAN BE PERFORMED. IN THE EVENT DEFECTS OR DEFICIENCIES ARE FOUND DURING THIS FINAL INSPECTION, THEY SHALL BE CORRECTED TO THE SATISFACTION OF THE ARCHITECT BEFORE FINAL ACCEPTANCE CAN BE ISSUED.<br><br>19. | 14. | PANELBOARDS ARE EXISTING UNLESS NOTED OTHERWISE. NEW CIRCUIT BREAKERS SHALL BE THE SAME TYPE AND INTERRUPTING RATING AS EXISTING BREAKERS IN PANEL.<br><br>20. | 15. | WHERE CIRCUIT CHANGES OR ADDITIONS OCCUR IN PANELBOARDS UPDATE PANEL DIRECTORY CARDS WITH NEW TYPE WRITTEN CARDS INDICATION DESCRIPTION OF ALL CIRCUITS. |
| 2.               | ELECTRICAL DEMOLITION DRAWINGS DO NOT SHOW ALL ELECTRICAL WORK THAT IS TO BE REMOVED. REFER TO ALL DEMOLITION DRAWINGS OF OTHER TRADES/DISCIPLINES FOR WORK THAT AFFECTS ELECTRICAL DEMOLITION WORK.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 3.            | THE PLANS REPRESENT ONLY THE FINISHED ELECTRICAL, FIRE ALARM AND LOW VOLTAGE SYSTEMS, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.                                                                                                                                                    | 4.          | IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE ELECTRICAL WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | IN INTERPRETATING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:<br><br>a. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.<br><br>b. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE, FIELD VERIFY DIMENSIONS PRIOR TO BID.<br><br>c. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AND ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.<br><br>d. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION, AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES. | 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL. | 7.                                                                                                                                           | IN NO EVENT WILL ANY SITE VISITS BY THE ELECTRICAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
| 3.               | THE EXISTING CONDITIONS SHOWN ON THESE PLANS HAVE BEEN TAKEN FROM AVAILABLE RECORD DRAWINGS AND ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING A BID ALL DEMOLITION, ALTERATIONS, RELOCATIONS AND RENOVATION WORK SHALL BE INCLUDED IN THE CONTRACT. NO ADDITIONAL CHANGE ORDERS OR ALLOWANCES WILL BE ACCEPTED.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
| 4.               | CONTRACTOR SHALL INCLUDE ALL WORK NECESSARY TO KEEP EXISTING ELECTRICAL, SIGNAL AND FIRE ALARM SYSTEMS IN ALL AREAS ADJACENT TO DEMOLITION / RECONSTRUCTION AREAS IN SERVICE CONTINUOUSLY UNTIL WORK IN THAT AREA IS COMPLETE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
| 5.               | EQUIPMENT AND MATERIALS TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN THE ORIGINAL LOCATIONS. REPLACE EQUIPMENT OR MATERIALS THAT MAY BE DAMAGED WITH NEW EQUIPMENT AND MATERIALS OF LIKE KIND AND QUALITY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
| 6.               | DISPOSAL OF HAZARDOUS MATERIALS SUCH AS LAMPS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL STATE AND FEDERAL REQUIREMENTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |
|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                       |                                                                                                                                              |                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                                                            |    |                                                                                                                                                                            |     |                                                                                                                                                                                |     |                                                                                                                                                                |     |                                                                                                                                                                         |     |                                                                                                                                                                                                                                                                                                                      |     |                                                                                                                                                                |     |                                                                                                                                                          |



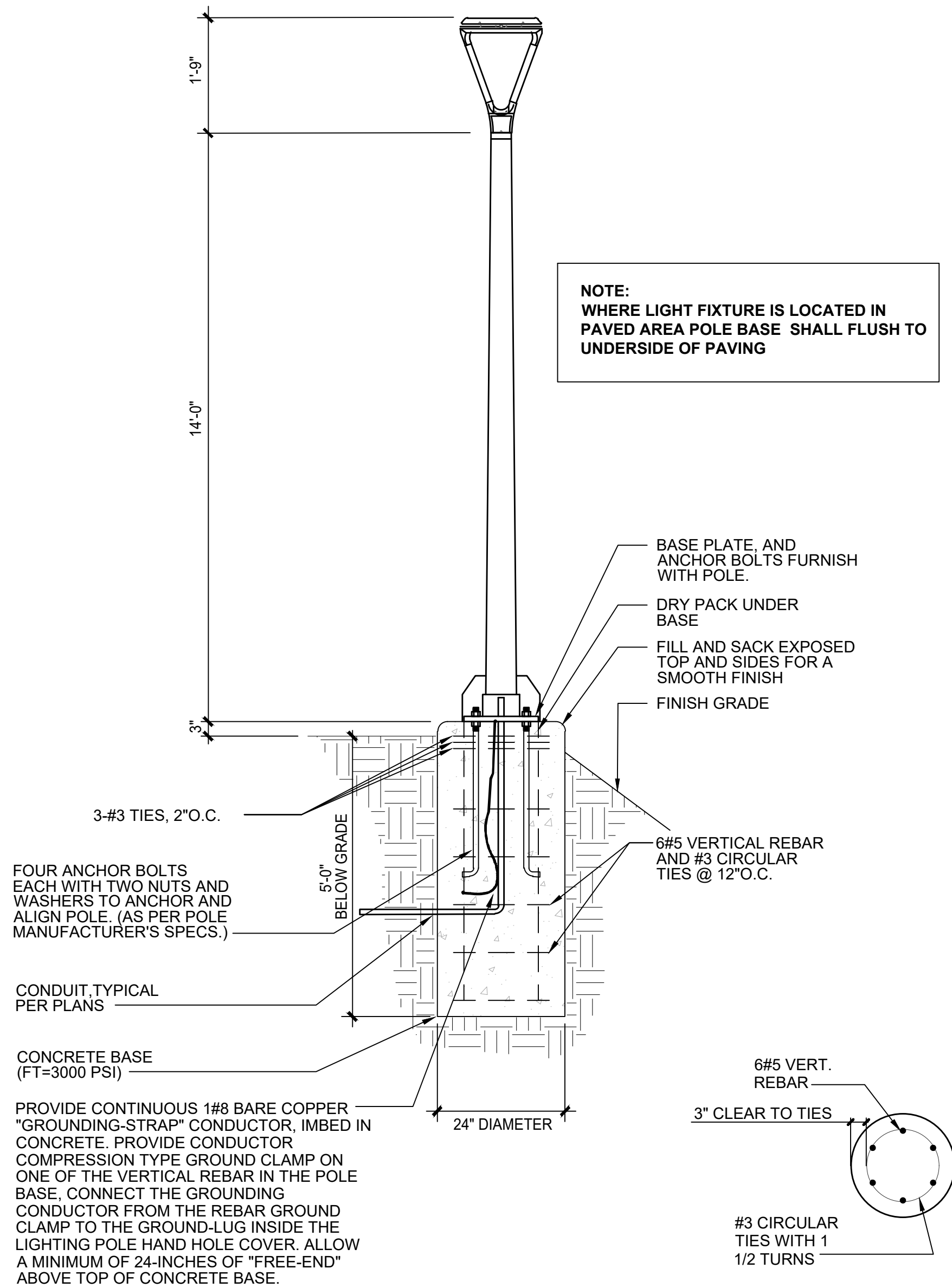


## PULL BOX DETAIL

SCALE:  
NO SCA

## LIGHTING FIXTURE SCHEDULE

| IMAGE                                                                             | TYPE | DESCRIPTION                                                                                                                                     | MANUFACTURER        |                                 | LAMP |        |     |           | POWER   |               |     |                                | HOUSING     | NOTES   |     |
|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------|------|--------|-----|-----------|---------|---------------|-----|--------------------------------|-------------|---------|-----|
|                                                                                   |      |                                                                                                                                                 | NAME                | CATALOG NO.                     | TYPE | LUMENS | CCT | CRI (MIN) | VOLTAGE | INPUT WATTAGE | NO. | BALLAST                        | TYPE        |         |     |
|  | 51   | LED PEDESTAL/PAW POLE MOUNTED FIXTURE ON ROUND STEEL 14" POLE, WITH PHOTOCELL AND MOTION SENSOR, TYPE 5 DISTRIBUTION                            | VISIONAIRE LIGHTING | PRE-2M-T5-16LC-7-4K-UNV-PT-PC-X | LED  | 8981   | 4K  | 80        | 120/277 | 73            |     | INTERNAL DRIVER / POWER SUPPLY | NON-DIMMING | POLE    | N/A |
|  | 52   | #100 LED LED STRIP LIGHT FIXTURE WITH GOLD-COLORED STEEL HOUSING, BAKED WHITE ENAMEL FINISH AND SNAP ON/OFF WHITE DIFFUSER LENS WITH WIRE GUARD | LITHONIA LIGHTING   | ZLD SERIES OF EQUAL             | LED  | 5000   | 4K  | 80        | 120/277 | 41            |     | INTERNAL DRIVER / POWER SUPPLY | NON-DIMMING | SURFACE | N/A |

[illegible]

## FIXTURE TYPE "S1" POLE BASE DETAIL

|       |
|-------|
| SCALE |
| NONE  |

1

**FBA Engineering**

**Consulting Electrical Engineers**  
150 Poularino Avenue Suite A120  
Costa Mesa, CA 92626  
949.852.9995 • 949.852.1657 (fax)  
fbaengr.com

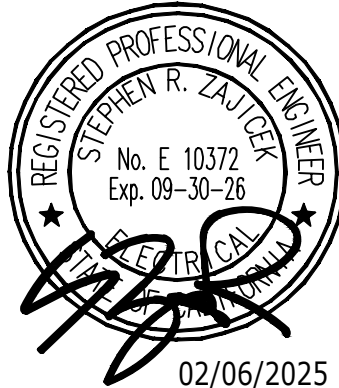
FBA Job Number: 1175-028



**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
[www.VerdeDesignInc.com](http://www.VerdeDesignInc.com)

STAMP



## KEY MAP

SHEET TITLE

## LIGHT FIXTURE SCHEDULE

PROJECT NAME

# WESTBOROUGH MIDDLE SCHOOL CAMPUS IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |

[illegible]

DRAWN BY

FBA

DATE ISSUED

PROJ. NO.

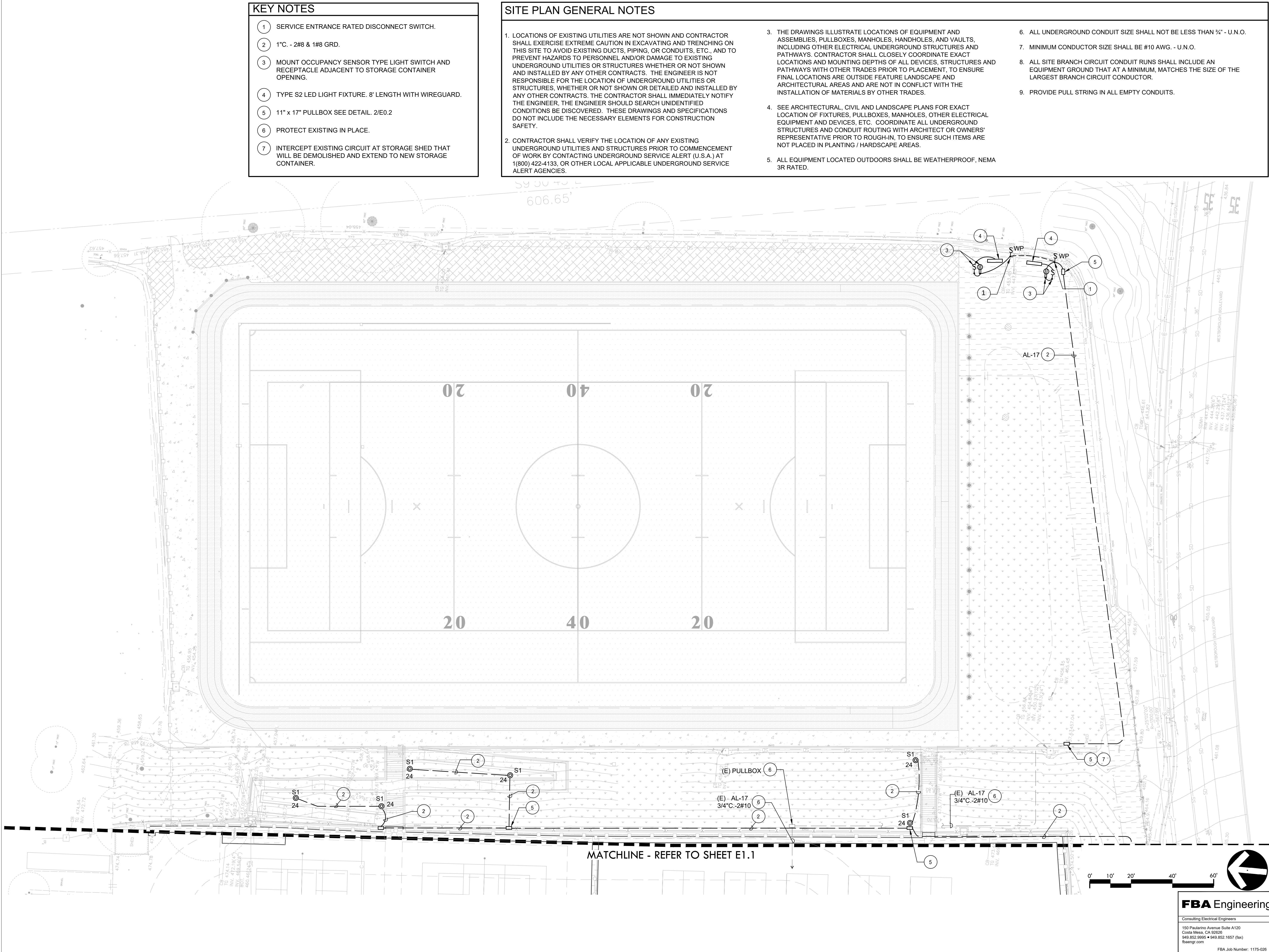
2320400

SHEET NO.

## E0.2



FBA Engineering / Plot Date: 2/6/2025 2:22 PM / Plotted by: Blake Meech / Drawing Location: I:\1175026\E1.0\E1.2\_1175026.dwg  
THIS DOCUMENT IS THE PROPERTY OF VERDE DESIGN, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.





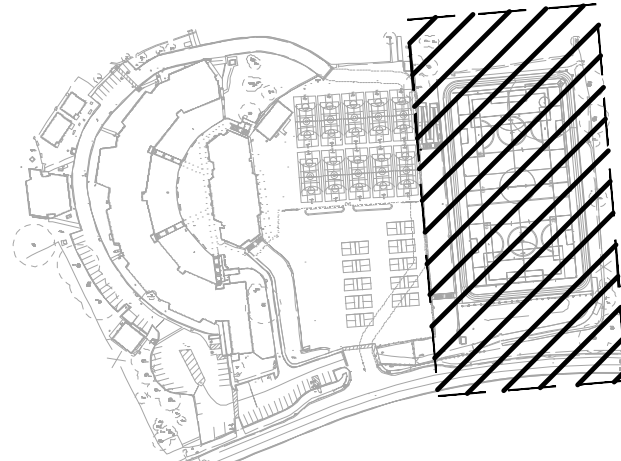
**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN  
2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com

STAMP



02/06/2025

KEY MAP



SHEET TITLE

**SITE  
ELECTRICAL  
PLAN**

PROJECT NAME

**WESTBOROUGH  
MIDDLE SCHOOL  
CAMPUS IMPROVEMENTS**

PROJECT ADDRESS

**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |
|               |          |
|               |          |
|               |          |
|               |          |
|               |          |
|               |          |
|               |          |
|               |          |
|               |          |

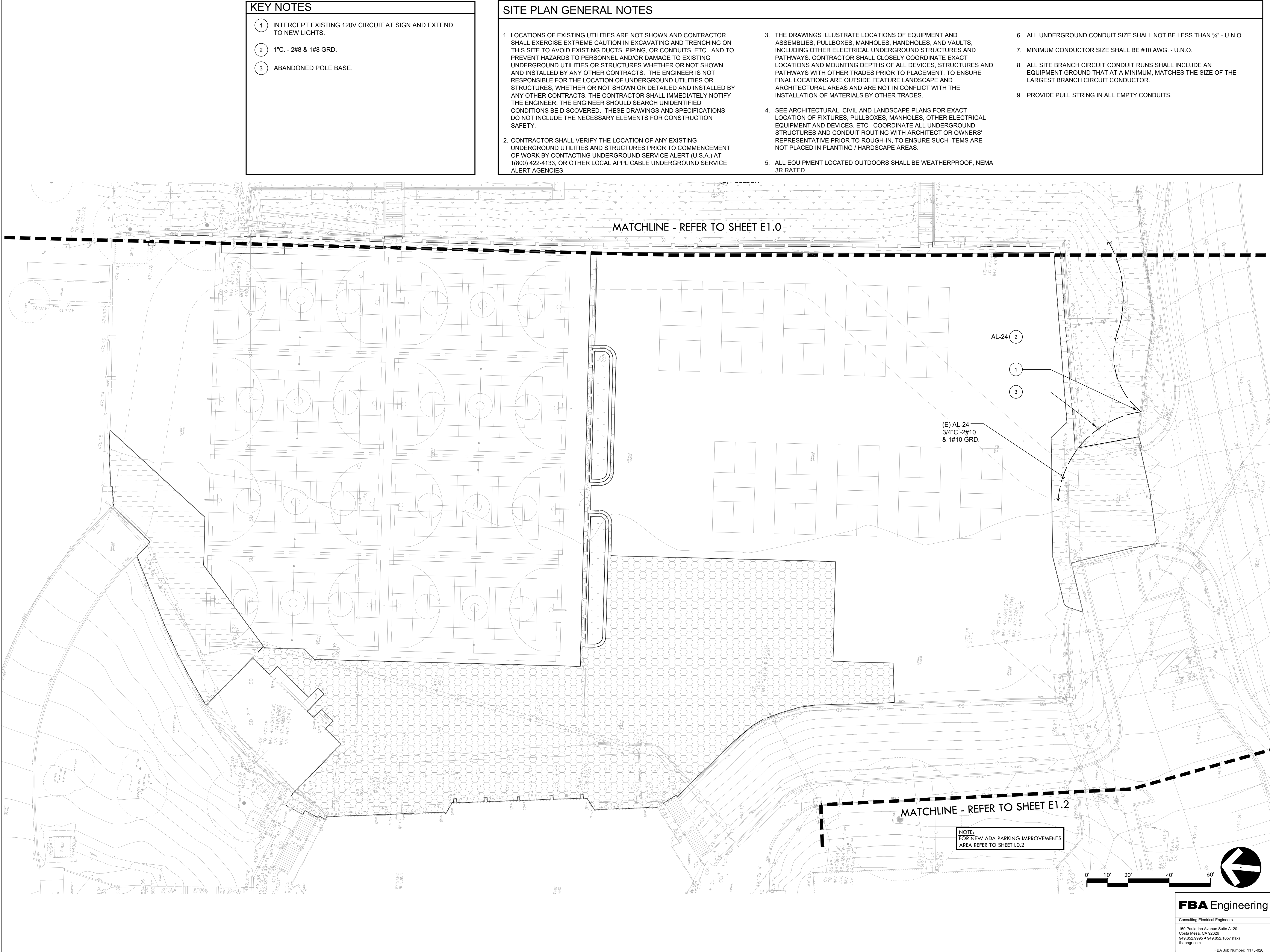
| NO. | REVISIONS | DATE |
|-----|-----------|------|
| 1   |           |      |
| 2   |           |      |
| 3   |           |      |
| 4   |           |      |
| 5   |           |      |
| 6   |           |      |
| 7   |           |      |
| 8   |           |      |
| 9   |           |      |
| 10  |           |      |

|                                  |                           |
|----------------------------------|---------------------------|
| DRAWN BY<br><b>FBA</b>           | CHECKED BY<br><b>BZ</b>   |
| DATE ISSUED<br><b>12/10/2024</b> | SCALE<br><b>1"=20'-0"</b> |
| PROJ. NO.<br><b>2320400</b>      |                           |
| SHEET NO.<br><b>E1.0</b>         |                           |

**FBA Engineering**  
Consulting Electrical Engineers  
150 Paularino Avenue Suite A120  
Costa Mesa, CA 92626  
949.552.9925 • 949.552.1657 (fax)  
fbaengr.com  
FBA Job Number: 1175-026



FBA Engineering / Plot Date: 2/6/2025 2:22 PM / Plotted by: Blake Meech / Drawing Location: I:\11750208\E1.0\E1.2\_11750208.dwg  
THIS DRAWING IS THE PROPERTY OF VERDE DESIGN, INC. AND IS LOANED TO YOU BY VERDE DESIGN, INC. FOR YOUR USE ONLY. IT IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO ANY OTHER PERSON OR ENTITY WITHOUT THE WRITTEN PERMISSION OF VERDE DESIGN, INC.



- KEY NOTES
- 1

INTERCEPT EXISTING 120V CIRCUIT AT SIGN AND EXTEND TO NEW LIGHTS.
- 2

1" C. - 2#8 & 1#8 GRD.
- 3

ABANDONED POLE BASE.

- SITE PLAN GENERAL NOTES
1.

LOCATIONS OF EXISTING UTILITIES ARE NOT SHOWN AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, THE ENGINEER SHOULD SEARCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
2.

CONTRACTOR SHALL VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK BY CONTACTING UNDERGROUND SERVICE ALERT (U.S.A.) AT 1(800) 422-4133, OR OTHER LOCAL APPLICABLE UNDERGROUND SERVICE ALERT AGENCIES.
3.

THE DRAWINGS ILLUSTRATE LOCATIONS OF EQUIPMENT AND ASSEMBLIES, PULLBOXES, MANHOLES, HANDHOLES, AND VAULTS, INCLUDING OTHER ELECTRICAL UNDERGROUND STRUCTURES AND PATHWAYS. CONTRACTOR SHALL CLOSELY COORDINATE EXACT LOCATIONS AND MOUNTING DEPTHS OF ALL DEVICES, STRUCTURES AND PATHWAYS WITH OTHER TRADES PRIOR TO PLACEMENT, TO ENSURE FINAL LOCATIONS ARE OUTSIDE FEATURE LANDSCAPE AND ARCHITECTURAL AREAS AND ARE NOT IN CONFLICT WITH THE INSTALLATION OF MATERIALS BY OTHER TRADES.
4.

SEE ARCHITECTURAL, CIVIL AND LANDSCAPE PLANS FOR EXACT LOCATION OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL EQUIPMENT AND DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH ARCHITECT OR OWNERS' REPRESENTATIVE PRIOR TO ROUGH-IN, TO ENSURE SUCH ITEMS ARE NOT PLACED IN PLANTING / HARDSCAPE AREAS.
5.

ALL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF, NEMA 3R RATED.
6.

ALL UNDERGROUND CONDUIT SIZE SHALL NOT BE LESS THAN 3/4" - U.N.O.
7.

MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.N.O.
8.

ALL SITE BRANCH CIRCUIT CONDUIT RUNS SHALL INCLUDE AN EQUIPMENT GROUND THAT AT A MINIMUM, MATCHES THE SIZE OF THE LARGEST BRANCH CIRCUIT CONDUCTOR.
9.

PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

VERDE DESIGN

LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN

2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesign.com

REGISTERED PROFESSIONAL ENGINEER

STEPHEN R. ZAJTZEK

No. E 103372  
Exp. 09-30-26

02/06/2025

STAMP

KEY MAP

SHEET TITLE

SITE  
ELECTRICAL  
PLAN

PROJECT NAME

WESTBOROUGH  
MIDDLE SCHOOL  
CAMPUS IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080

SUBMITTAL

DATE

DSA SUBMITTAL

12/10/24

NO.

REVISIONS

DATE

DRAWN BY

FBA

CHECKED BY

BZ

DATE ISSUED

12/10/2024

SCALE

1"=20'-0"

PROJ. NO.

2320400

SHEET NO.

E1.1

FBA Engineering

Consulting Electrical Engineers

150 Paulmarino Avenue Suite A120  
Costa Mesa, CA 92626  
949.852.9995 • 949.852.1657 (fax)  
fbaeng.com

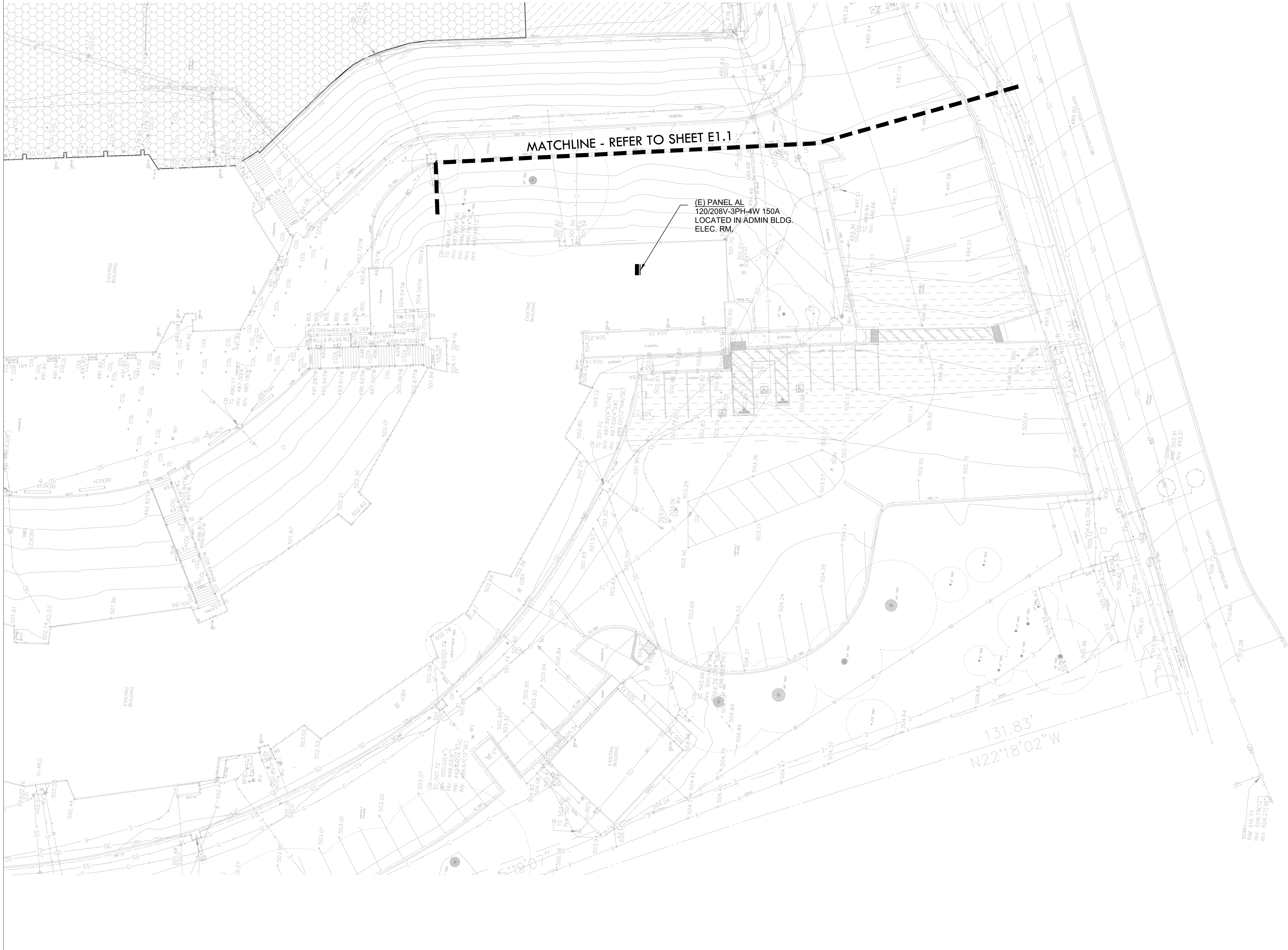
FBA Job Number: 1175-028



FBA Engineering / Plot Date: 2/6/2025 2:22 PM / Plotted by: Blake Meach / Drawing Location: I:\1175028\E1.0-E1.2\_1175028.dwg  
THIS DRAWING IS THE PROPERTY OF VERDE DESIGN, INC. AND IS NOT TO BE REPRODUCED, COPIED, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.

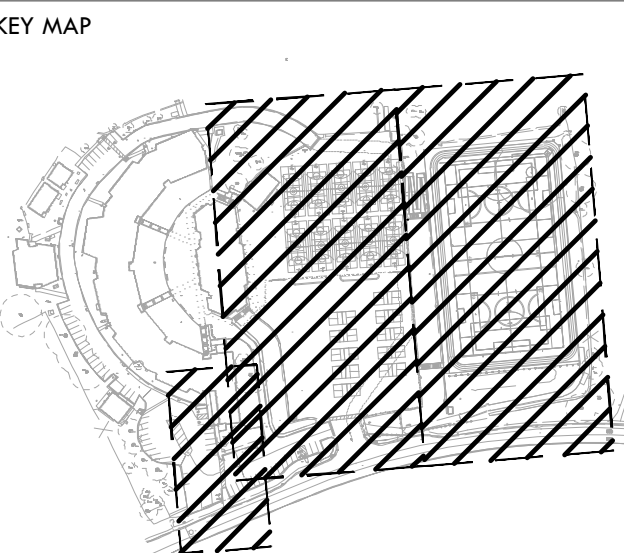
SITE PLAN GENERAL NOTES

1. LOCATIONS OF EXISTING UTILITIES ARE NOT SHOWN AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, THE ENGINEER SHOULD SEARCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK BY CONTACTING UNDERGROUND SERVICE ALERT (U.S.A.) AT 1(800) 422-4133, OR OTHER LOCAL APPLICABLE UNDERGROUND SERVICE ALERT AGENCIES.
3. THE DRAWINGS ILLUSTRATE LOCATIONS OF EQUIPMENT AND ASSEMBLIES, PULLBOXES, MANHOLES, HANDHOLES, AND VAULTS, INCLUDING OTHER ELECTRICAL UNDERGROUND STRUCTURES AND PATHWAYS. CONTRACTOR SHALL CLOSELY COORDINATE EXACT LOCATIONS AND MOUNTING DEPTHS OF ALL DEVICES, STRUCTURES AND PATHWAYS WITH OTHER TRADES PRIOR TO PLACEMENT, TO ENSURE FINAL LOCATIONS ARE OUTSIDE FEATURE LANDSCAPE AND ARCHITECTURAL AREAS AND ARE NOT IN CONFLICT WITH THE INSTALLATION OF MATERIALS BY OTHER TRADES.
4. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE PLANS FOR EXACT LOCATION OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL EQUIPMENT AND DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH ARCHITECT OR OWNERS' REPRESENTATIVE PRIOR TO ROUGH-IN, TO ENSURE SUCH ITEMS ARE NOT PLACED IN PLANTING / HARDSCAPE AREAS.
5. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF, NEMA 3R RATED.
6. ALL UNDERGROUND CONDUIT SIZE SHALL NOT BE LESS THAN ¾" - U.N.O.
7. MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.N.O.
8. ALL SITE BRANCH CIRCUIT CONDUIT RUNS SHALL INCLUDE AN EQUIPMENT GROUND THAT AT A MINIMUM, MATCHES THE SIZE OF THE LARGEST BRANCH CIRCUIT CONDUCTOR.
9. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.



**VERDE DESIGN**  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING  
SPORT PLANNING & DESIGN  
2455 The Alameda  
Santa Clara, CA 95050  
tel: 408.985.7200  
fax: 408.985.7260  
www.VerdeDesigninc.com

STAMP  
REGISTERED PROFESSIONAL ENGINEER  
STEPHEN R. ZAJICEK  
No. E 10372  
Exp. 09-30-26  
02/06/2025



SHEET TITLE  
**SITE  
ELECTRICAL  
PLAN**

PROJECT NAME  
**WESTBOROUGH  
MIDDLE SCHOOL  
CAMPUS IMPROVEMENTS**

PROJECT ADDRESS  
**2570 WESTBOROUGH BLVD  
SOUTH SAN FRANCISCO  
CA 94080**

| SUBMITTAL     | DATE     |
|---------------|----------|
| DSA SUBMITTAL | 12/10/24 |

| NO. | REVISIONS | DATE |
|-----|-----------|------|
| 1   |           |      |
| 2   |           |      |
| 3   |           |      |
| 4   |           |      |
| 5   |           |      |
| 6   |           |      |

|                        |                         |
|------------------------|-------------------------|
| DRAWN BY<br><b>FBA</b> | CHECKED BY<br><b>BZ</b> |
|------------------------|-------------------------|

|                                  |                           |
|----------------------------------|---------------------------|
| DATE ISSUED<br><b>12/10/2024</b> | SCALE<br><b>1"=20'-0"</b> |
|----------------------------------|---------------------------|

|                             |
|-----------------------------|
| PROJ. NO.<br><b>2320400</b> |
|-----------------------------|

SHEET NO.  
**E1.2**

**FBA Engineering**  
Consulting Electrical Engineers  
150 Paulmar Avenue Suite A120  
Costa Mesa, CA 92626  
949.852.9995 • 949.852.1657 (fax)  
fbaengr.com  
FBA Job Number: 1175-028







FBA Job Number: 1175-028