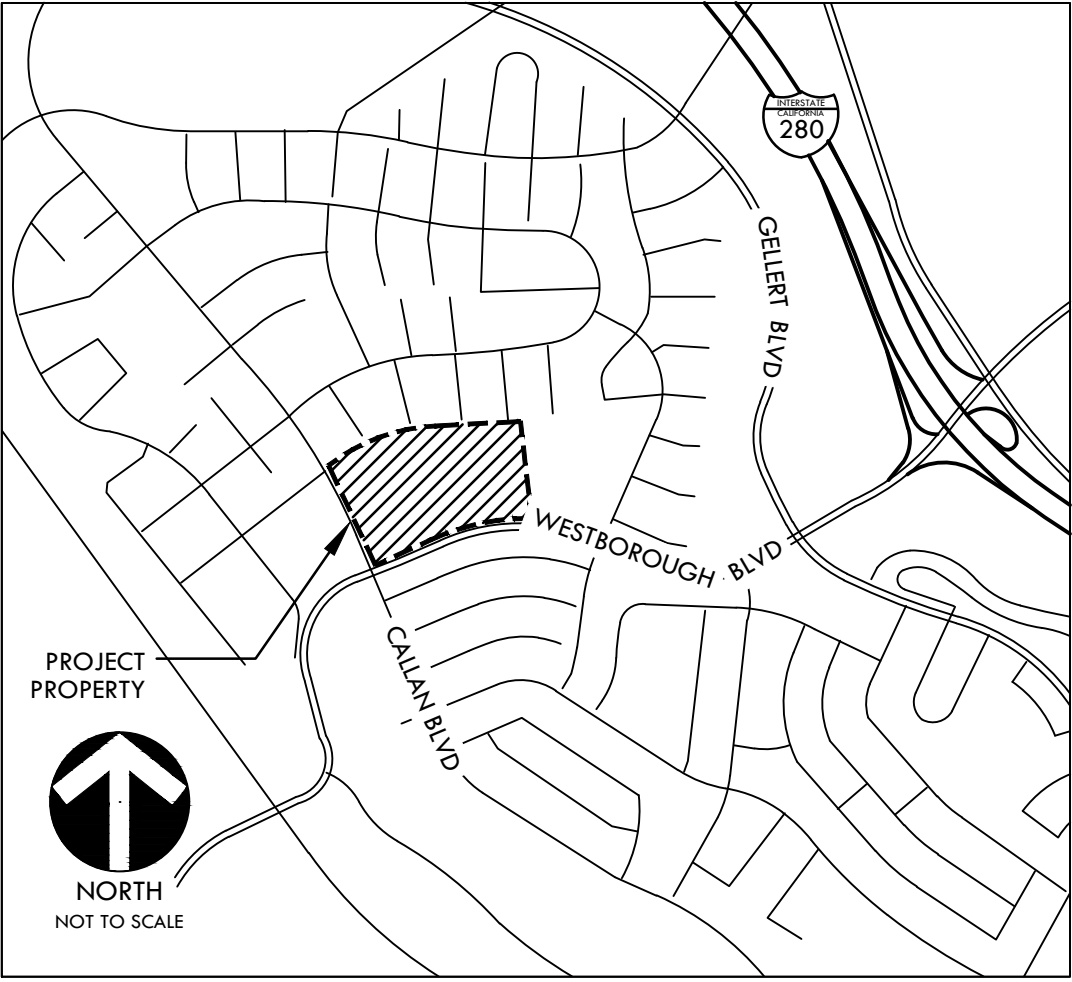
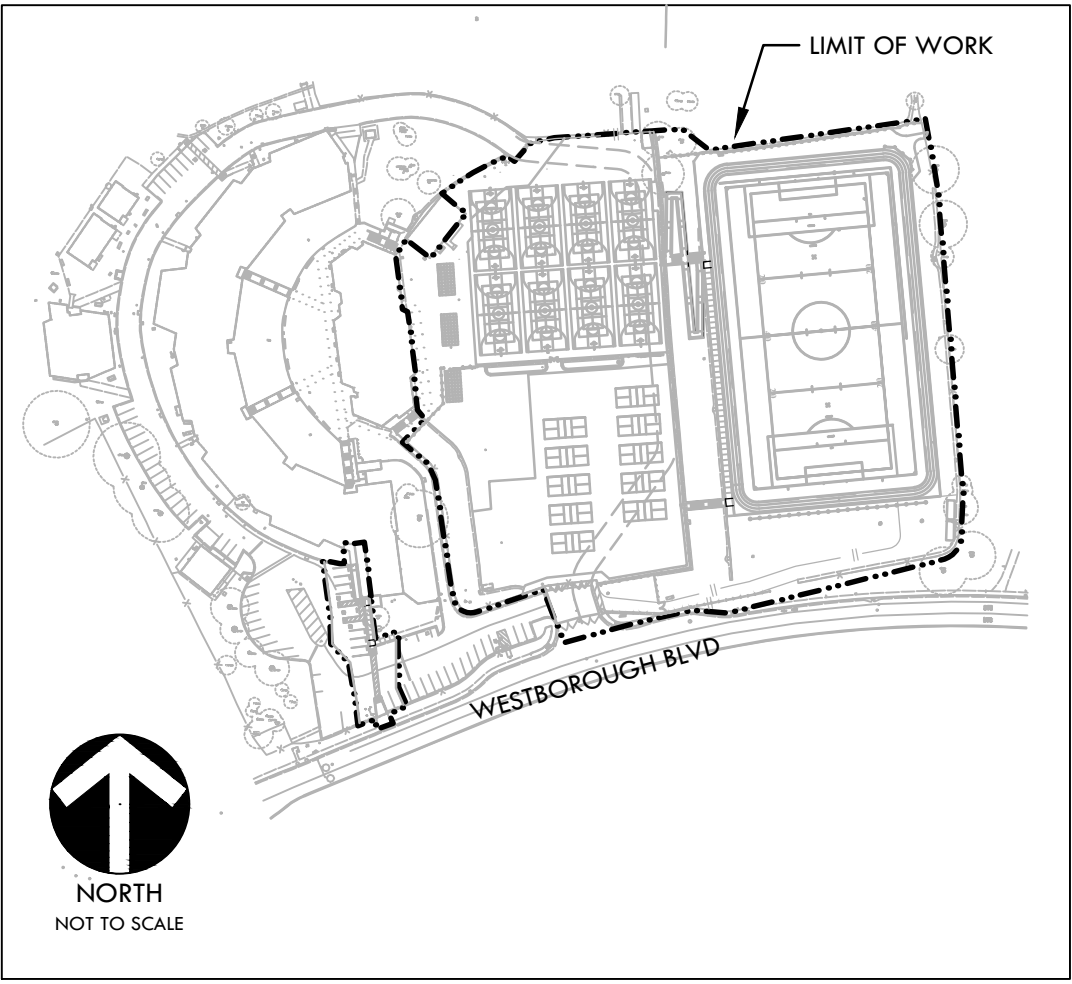




VICINITY MAP



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 OF 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)

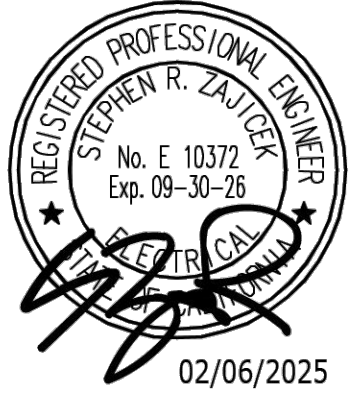
2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED 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).

ELECTRICAL SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO, INSTALLATION OF CONVENIENCE OUTLETS AT STORAGE CONTAINERS LOCATED AT THE NEW SYNTHETIC TURF PLAYING FIELD AND LIGHTING AT PREVIOUSLY NOTED STAIRS AND RAMPS.

DEFERRED SUBMITTALS: NONE

GENERAL NOTES

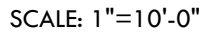
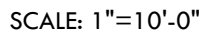
- PRIOR TO BIDDING, THE GENERAL CONTRACTOR SHALL VISIT & INSPECT THE SITE & FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AFFECTING THE NEW WORK. THE GENERAL CONTRACTOR SHALL NOT DISPUTE, COMPLAIN OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK 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 STEWING 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 SECTION 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 SOUTH SAN FRANCISCO UNIFIED SCHOOL DISTRICT	LORI SHELTON	(650) 246-5977
CONSTRUCTION MANAGER KITCHELL CM	ROBERT BEGONIA	(415) 385-5491
CIVIL ENGINEER/ LANDSCAPE ARCHITECT VERDE DESIGN INC.	DEVIN CONWAY JAMIE WALLIS	(408) 850-3420 (408) 850-3425
STRUCTURAL ENGINEER AKH STRUCTURAL ENGINEERS	TIM D HYDE	(408) 978-1970
ELECTRICAL ENGINEER FBA ENGINEERING	STEPHEN ZAJICEK	(949) 852-9995
GEOTECHNICAL ENGINEER ATLAS TECHNICAL CONSULTANTS	HISHAM NOFAL	(925) 314-7100

SHEET INDEX (49 Sheets)

SHEET NO.	SHEET DESCRIPTION	
CIVIL / LANDSCAPE		STRUCTURAL
C0.0	COVER SHEET	S1.1 S1.2 S1.3 STRUCTURAL GENERAL NOTES TYPICAL & SITE STRUCTURAL DETAILS RAMPS & STAIRS RETAINING WALLS STRUCTURAL DETAILS
L0.1	ACCESSIBILITY PLAN	ELECTRICAL
L0.2	ACCESSIBILITY PLAN - ADA PARKING IMPROVEMENTS	E0.1 E0.2 E1.0 E1.1 E1.2 E2.0 E2.1 GENERAL NOTES, SYMBOLS LIST AND FIXTURE SCHEDULE LIGHT FIXTURE SCHEDULE SITE ELECTRICAL PLAN SITE ELECTRICAL PLAN SITE ELECTRICAL PLAN ELECTRICAL SPECIFICATIONS ELECTRICAL SPECIFICATIONS
L0.3	ACCESSIBILITY IMPROVEMENT DETAILS	
L1.0	EXISTING CONDITIONS SURVEY PLAN	
L1.1	EXISTING CONDITIONS SURVEY PLAN	
L1.2	EXISTING CONDITIONS SURVEY PLAN	
L2.0	DEMOLITION PLAN	
L3.0	DEMOLITION PLAN	
L3.1	DEMOLITION PLAN	
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	
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	
D6.2	ENLARGEMENT	



NOTE: FOR LAYOUT, REFER TO SHEET L6.2



VERDE DESIGN

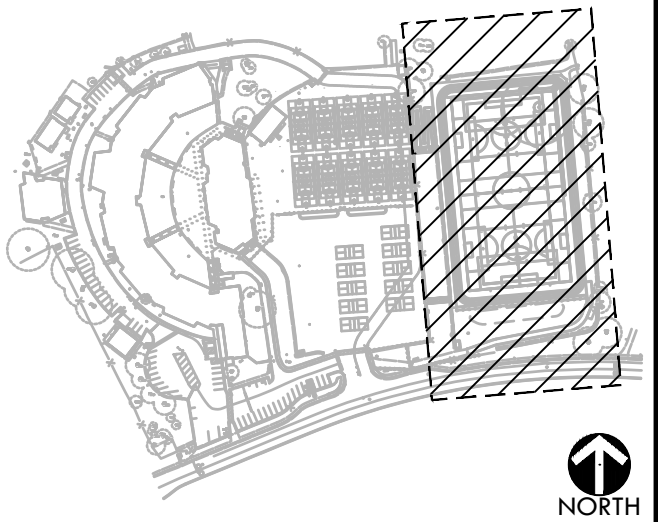
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

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

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

SUBMITTAL	DATE
BID SET	2/14/24
BID ADDENDUM	03/11/25

NO.	REVISIONS	DATE
1	BID ADDENDUM	03/11/25

DRAWN BY

C / KI

15

DATE ISSUED
12/10/2024

SCALE
1"=10'-0"

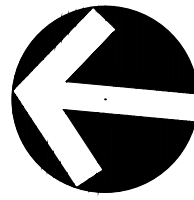
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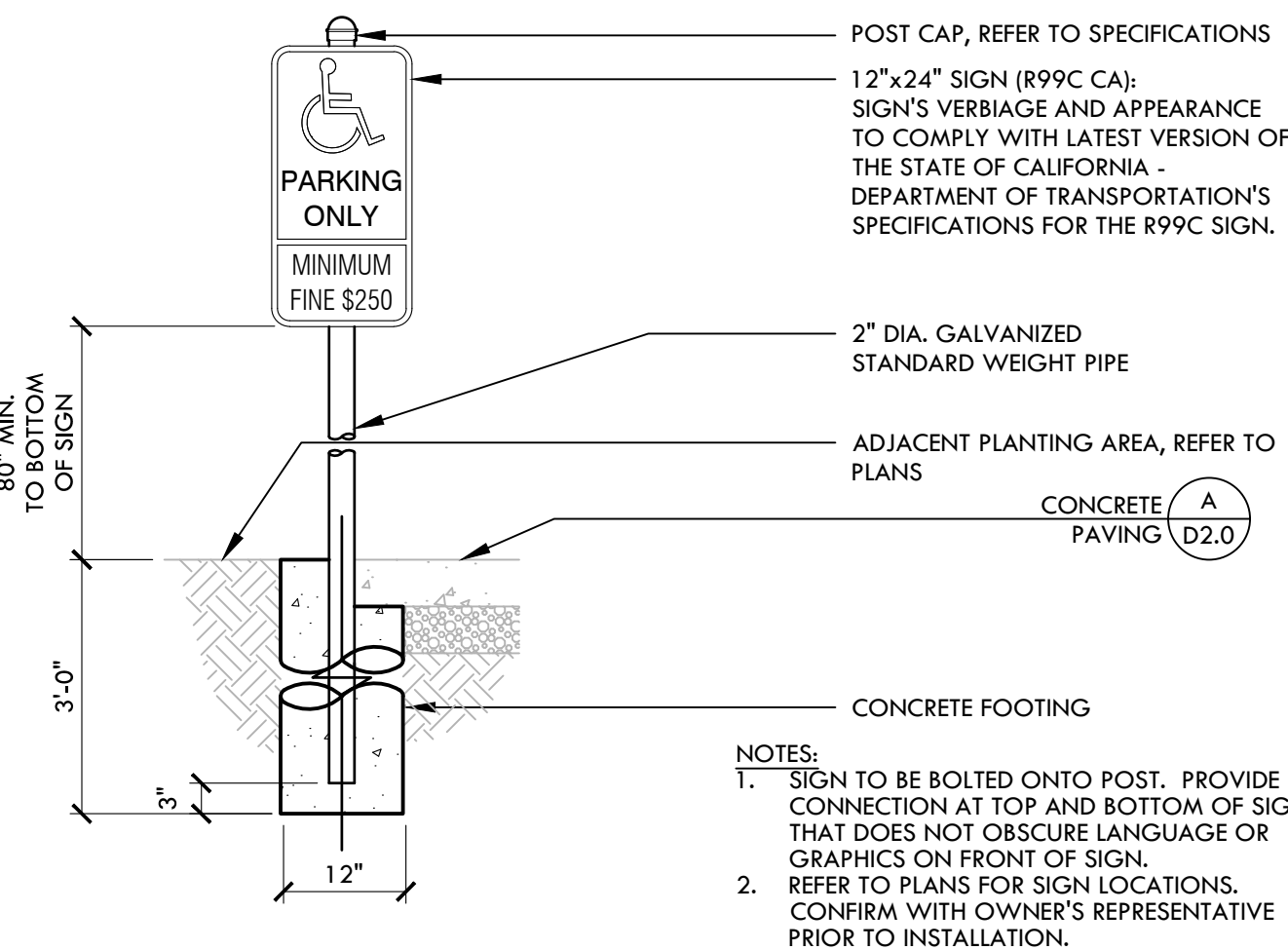
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SHEET NO.

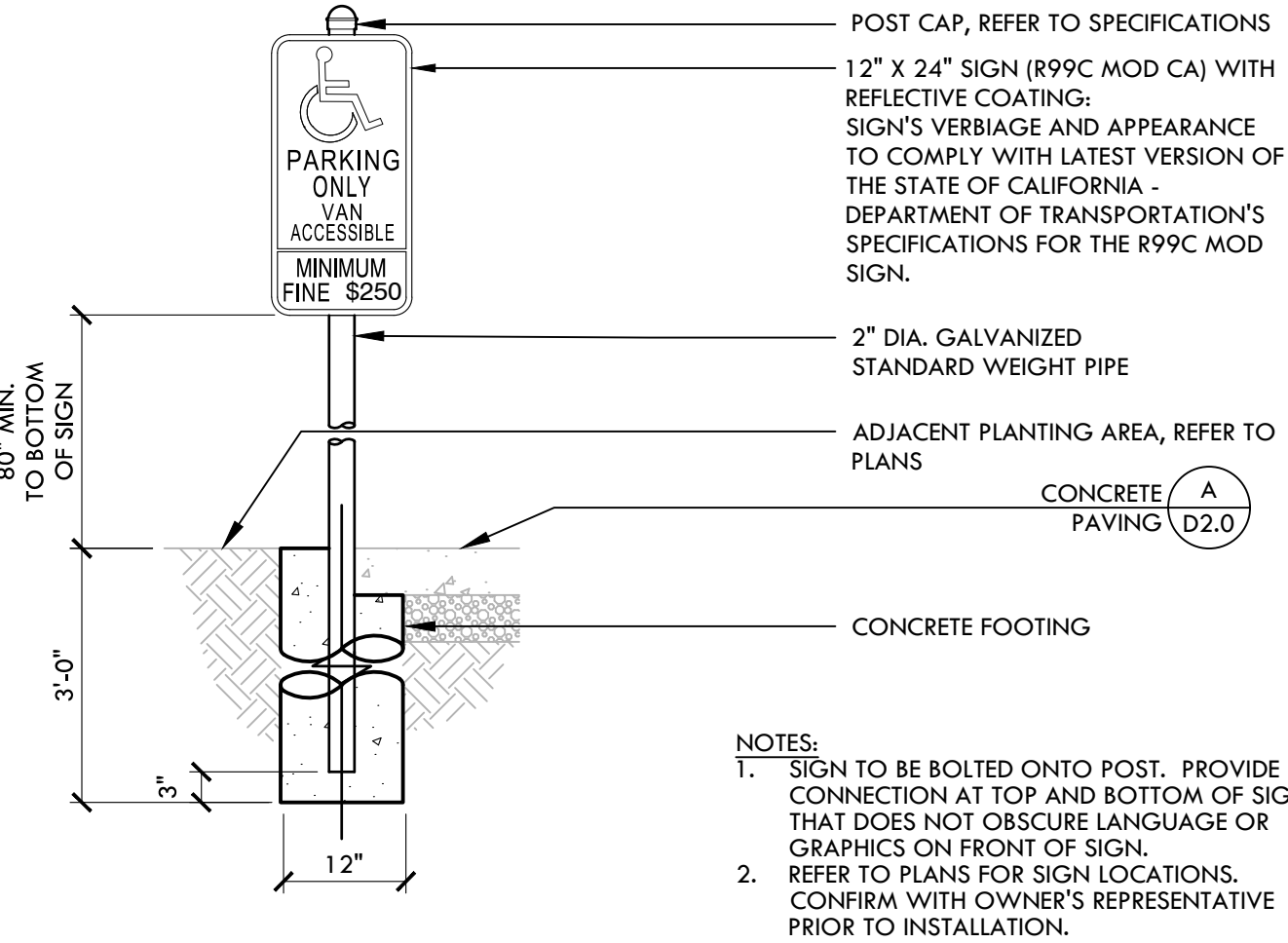
L0.2

ACCESSIBILITY - ENLARGEMENT PLAN

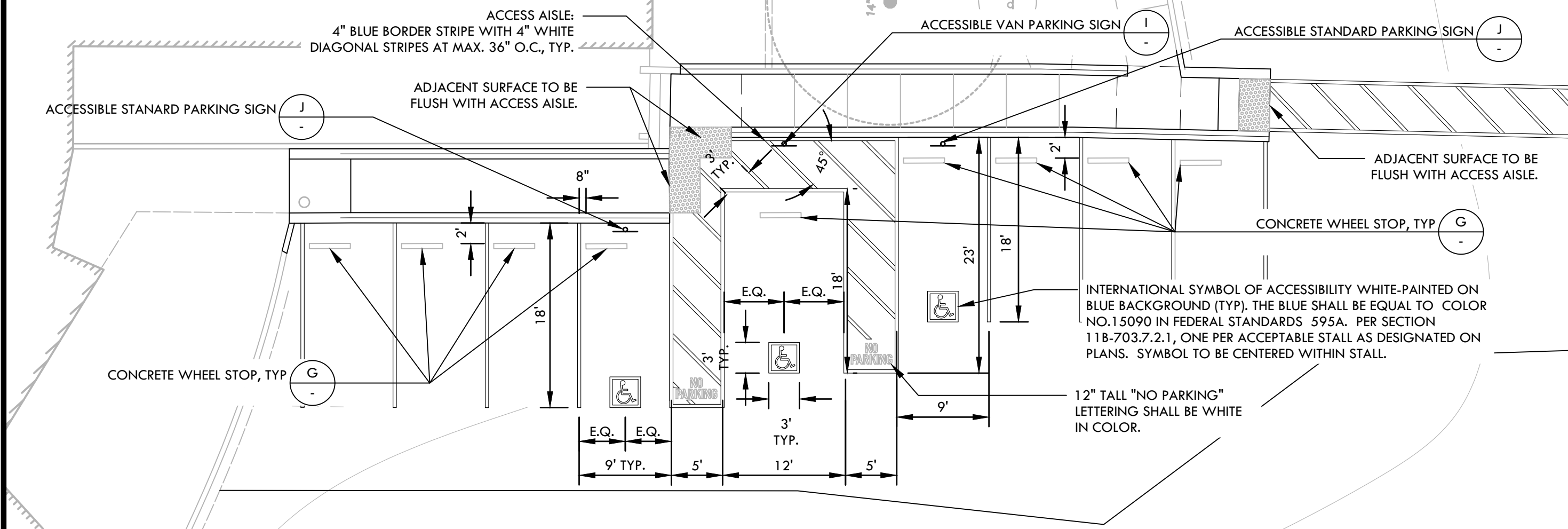




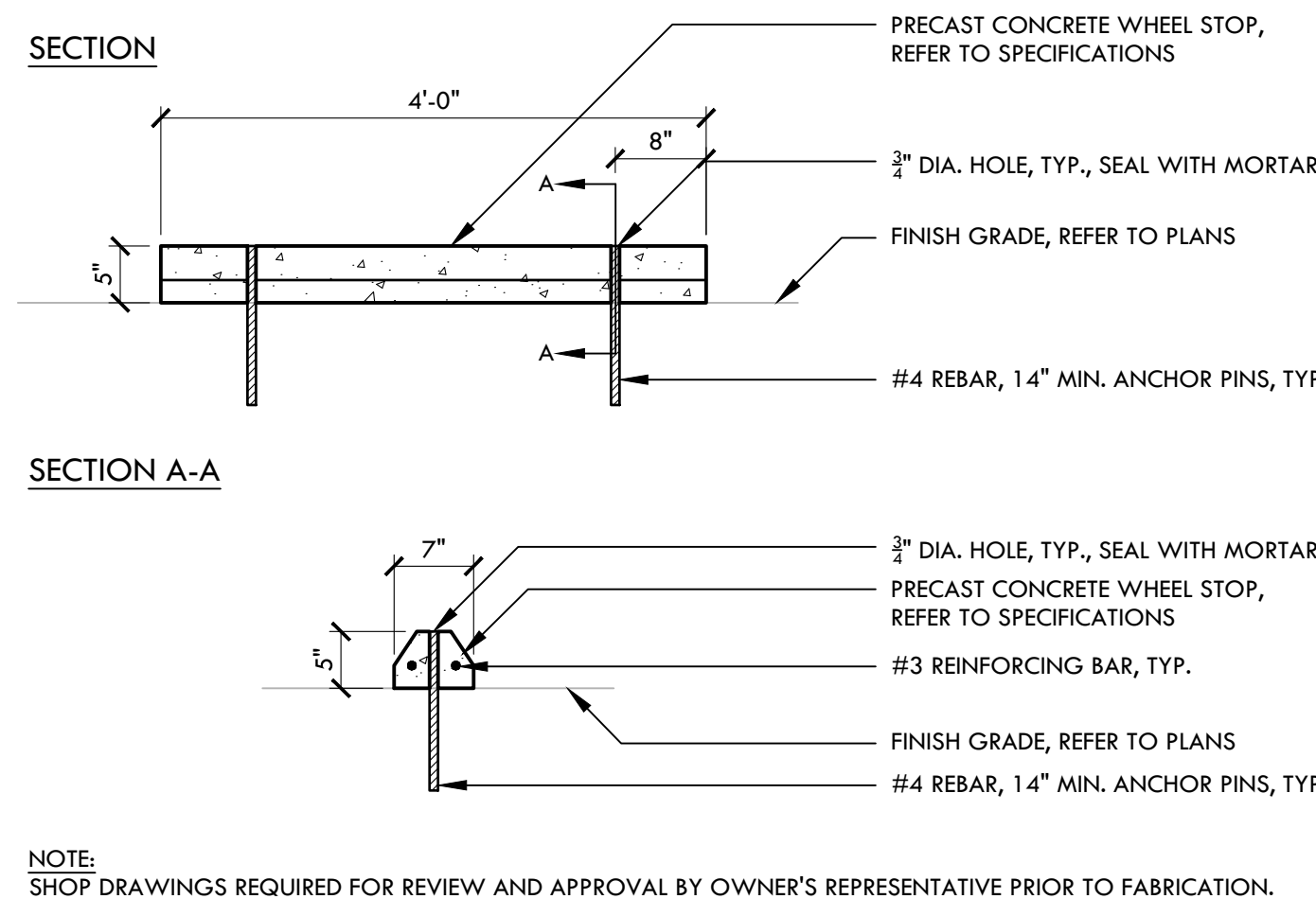
ACCESSIBLE PARKING SIGN



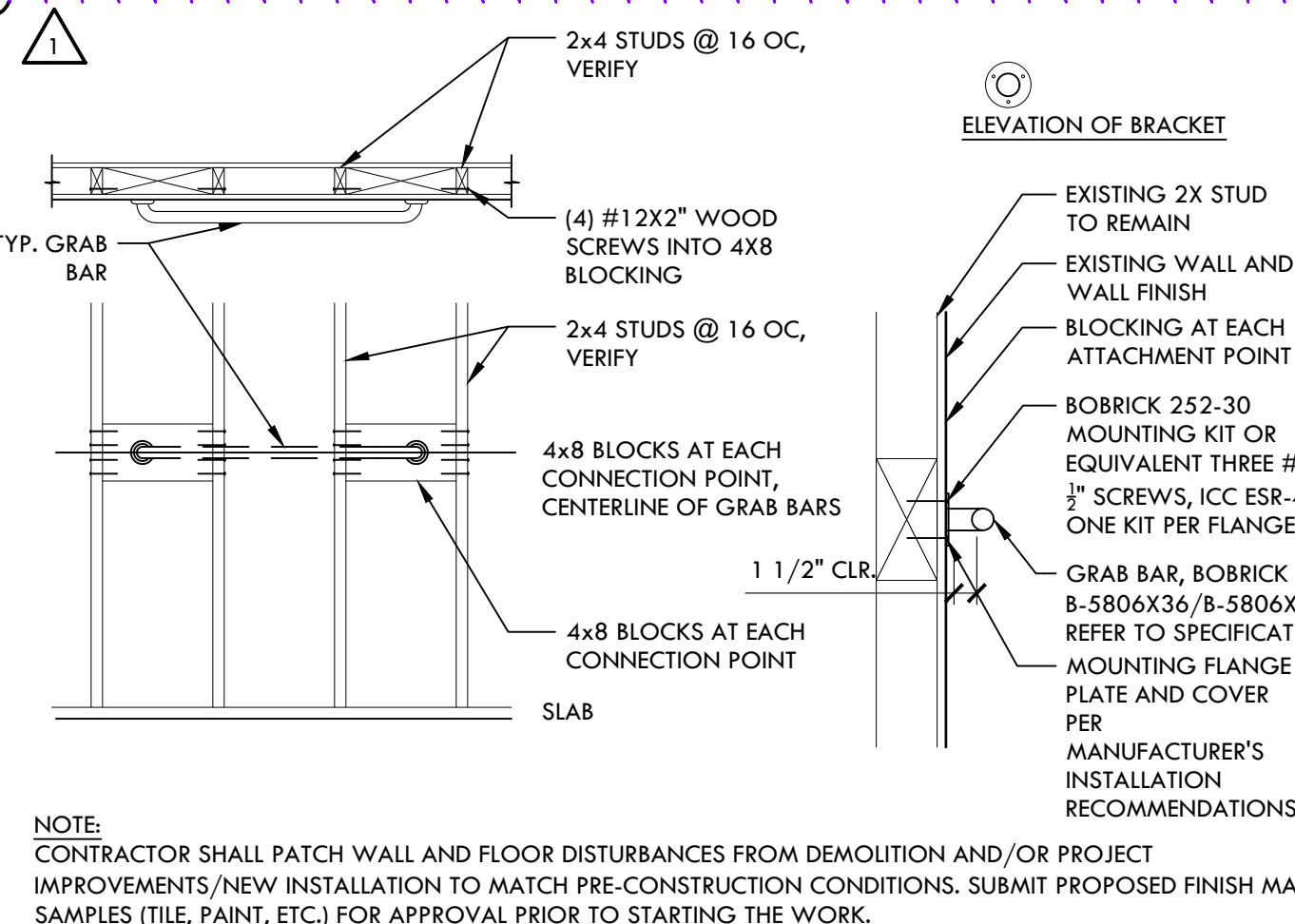
ACCESSIBLE PARKING SIGN - VAN NTS



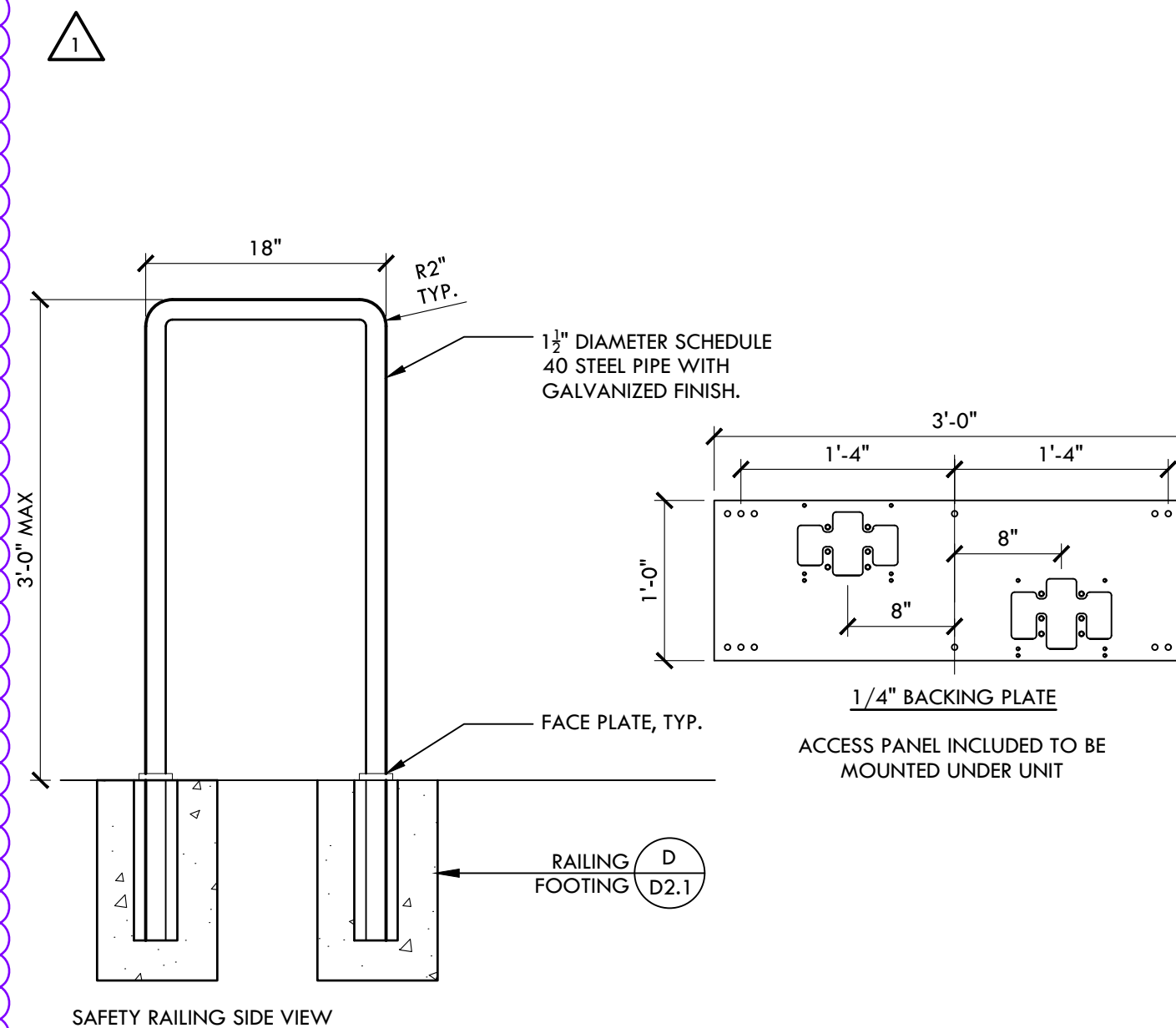
(H)	ADA PARKING STALL ENLARGEMENT	NTS
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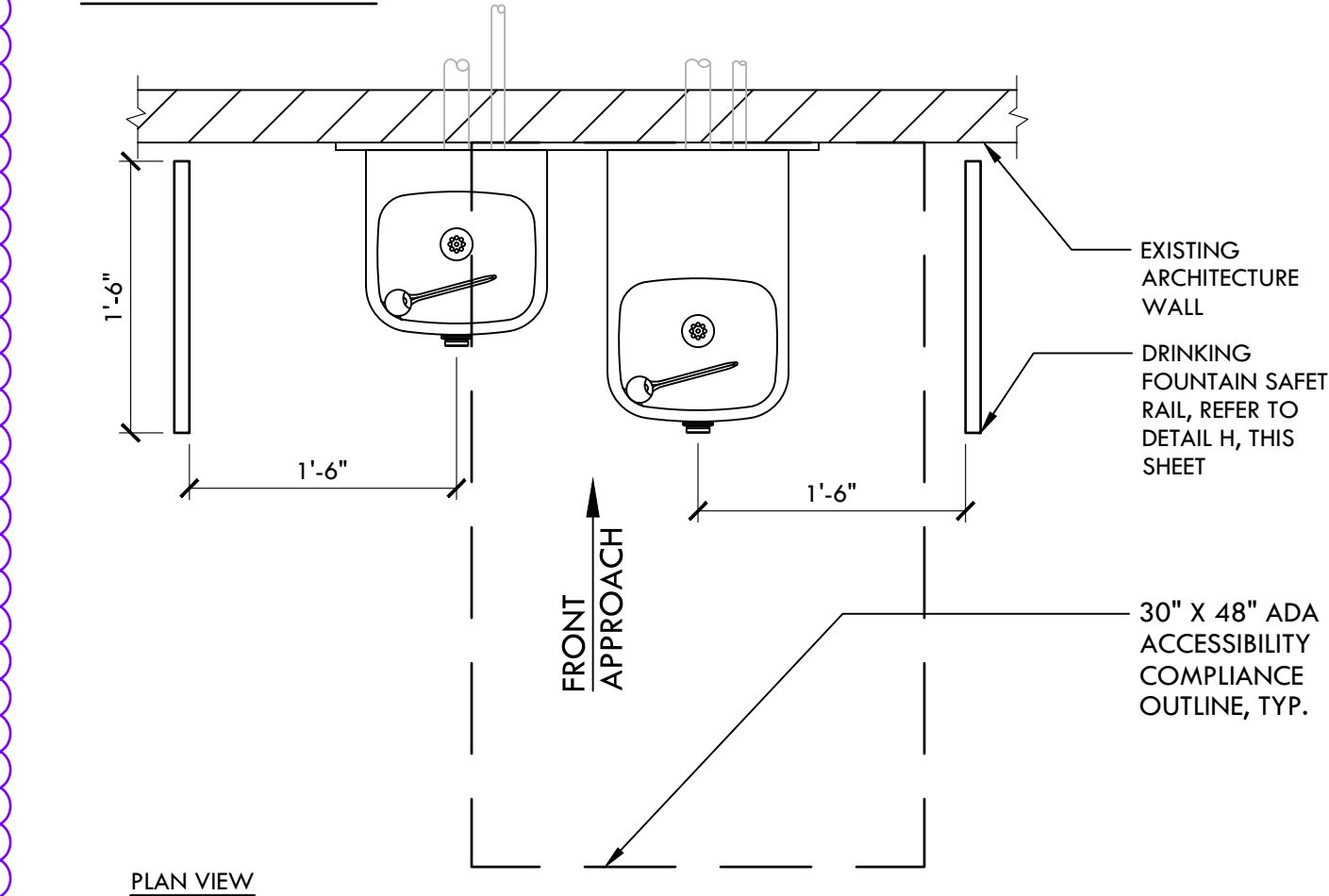
(G) PROPOSED WHEEL STOP **NTS (F)**



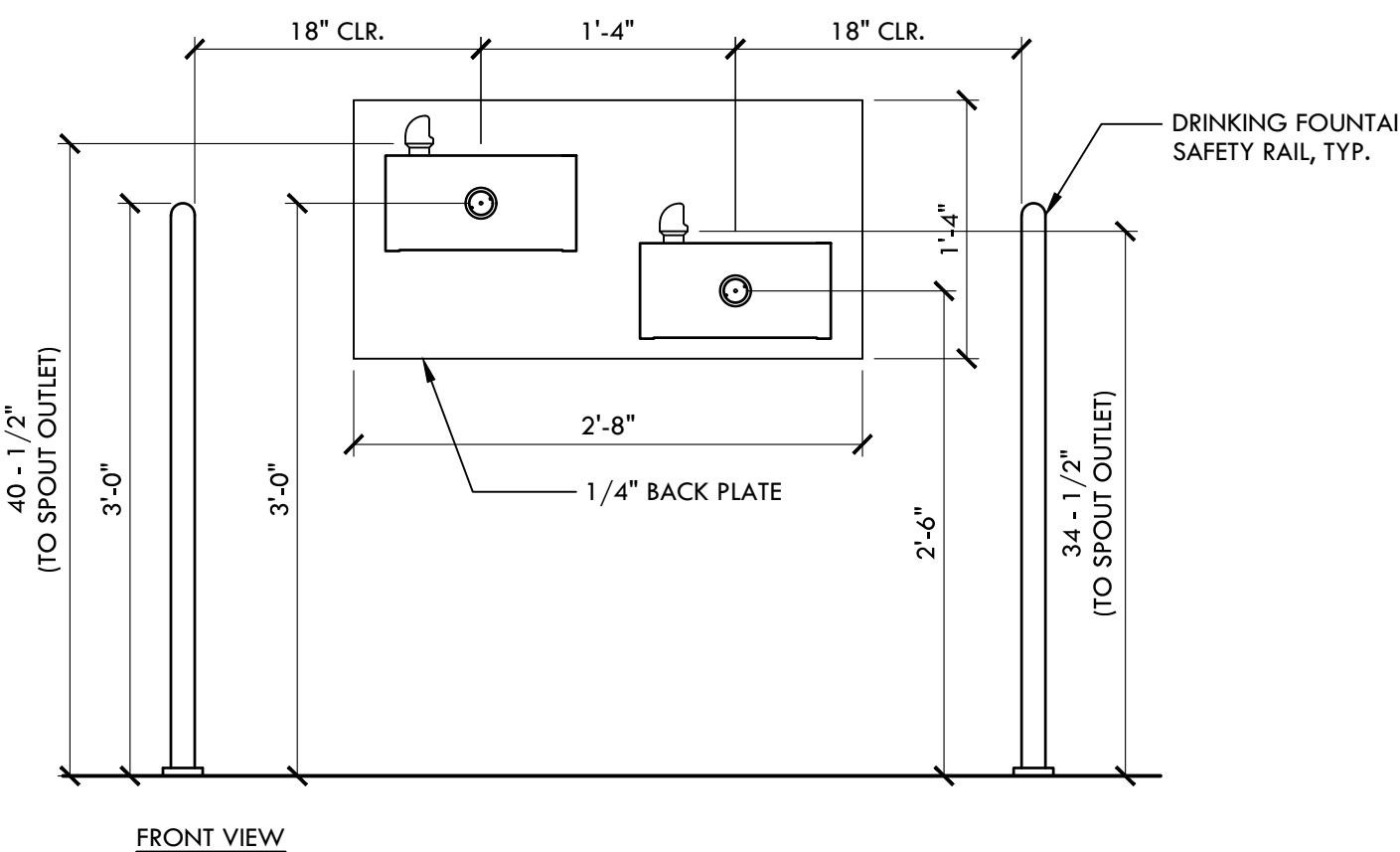
B) GRAB BAR CONNECTION



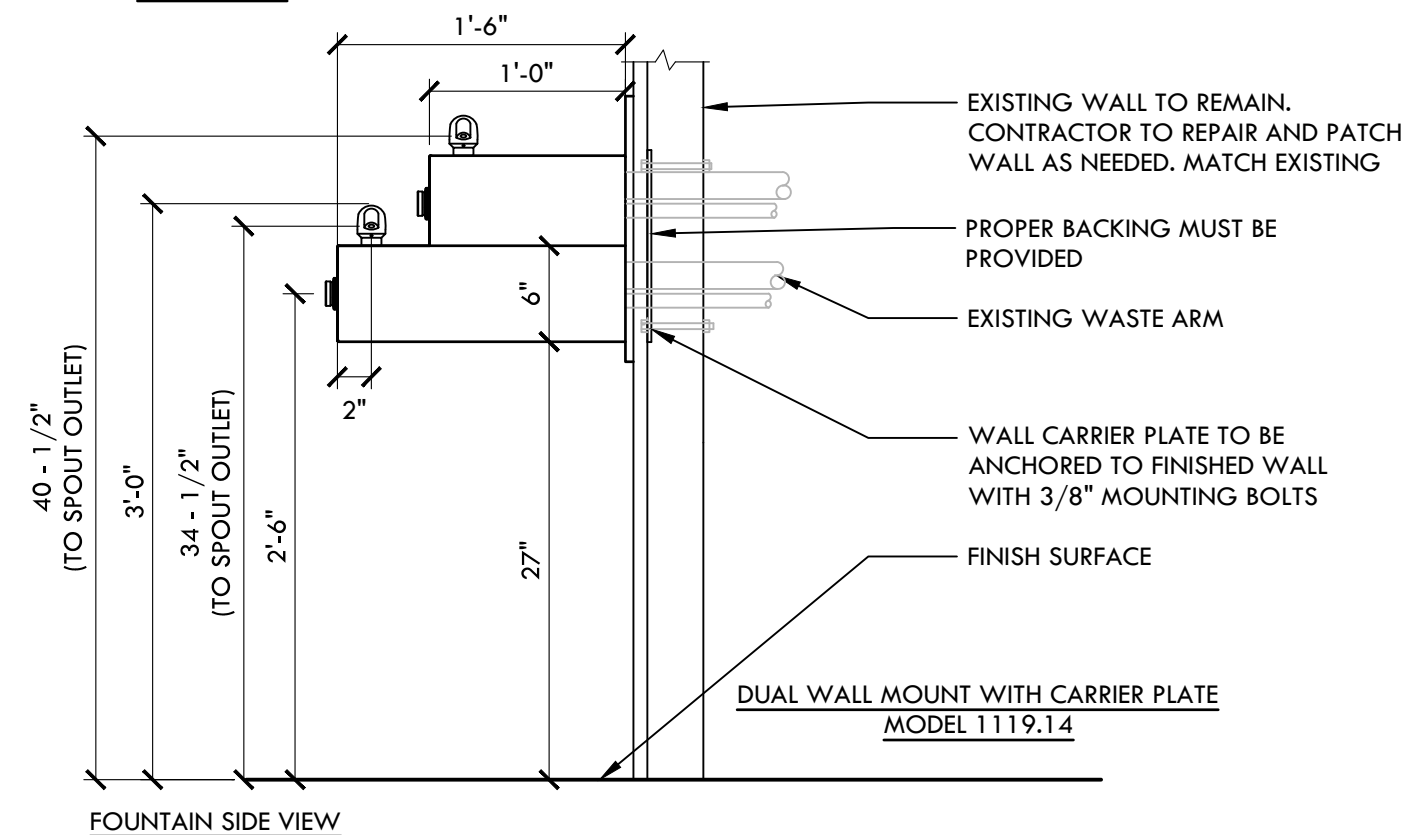
SAFETY RAILING SIDE VIEW



PLAN VIEW



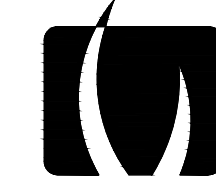
FRONT VIEW



FOUNTAIN SIDE VIEW

- NOTES:
1. THIS MODEL COMES WITH A CARRIER PLATE.
 2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 3. DO NOT SCALE DRAWING.
 4. THIS DRAWING IS NOTED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY.
 5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADDetails.com/info AND ENTER REFERENCE NUMBER 3354-17-11.
 7. CONTRACTOR IS TO UTILIZE EXISTING WATER & WASTE LINE. ADJUST AS NEEDED
 8. WATER FLOW SHALL COMPLY WITH CBC 11B-602.6.

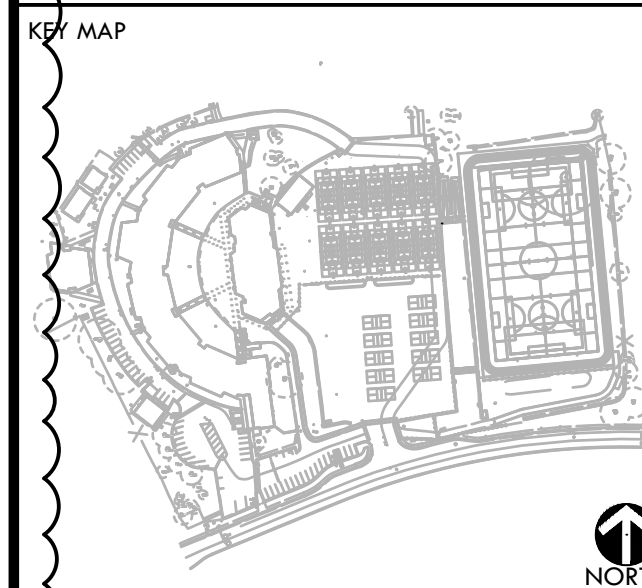
A	DUAL WALL MOUNT DRINKING FOUNTAN WITH CARRIER PLATE	NT
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**2455 The Alameda
Santa Clara, CA 95050
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www.VerdeDesignInc.com**



SHEET TITLE

ACCESSIBILITY IMPROVEMENT DETAILS

PROJECT NAME

WESTBOROUGH
MIDDLE SCHOOL
FIELD AND PAVEMENT
IMPROVEMENTS

PROJECT ADDRESS

2570 WESTBOROUGH BLVD
SOUTH SAN FRANCISCO
CA 94080

SUBMITTAL	DATE
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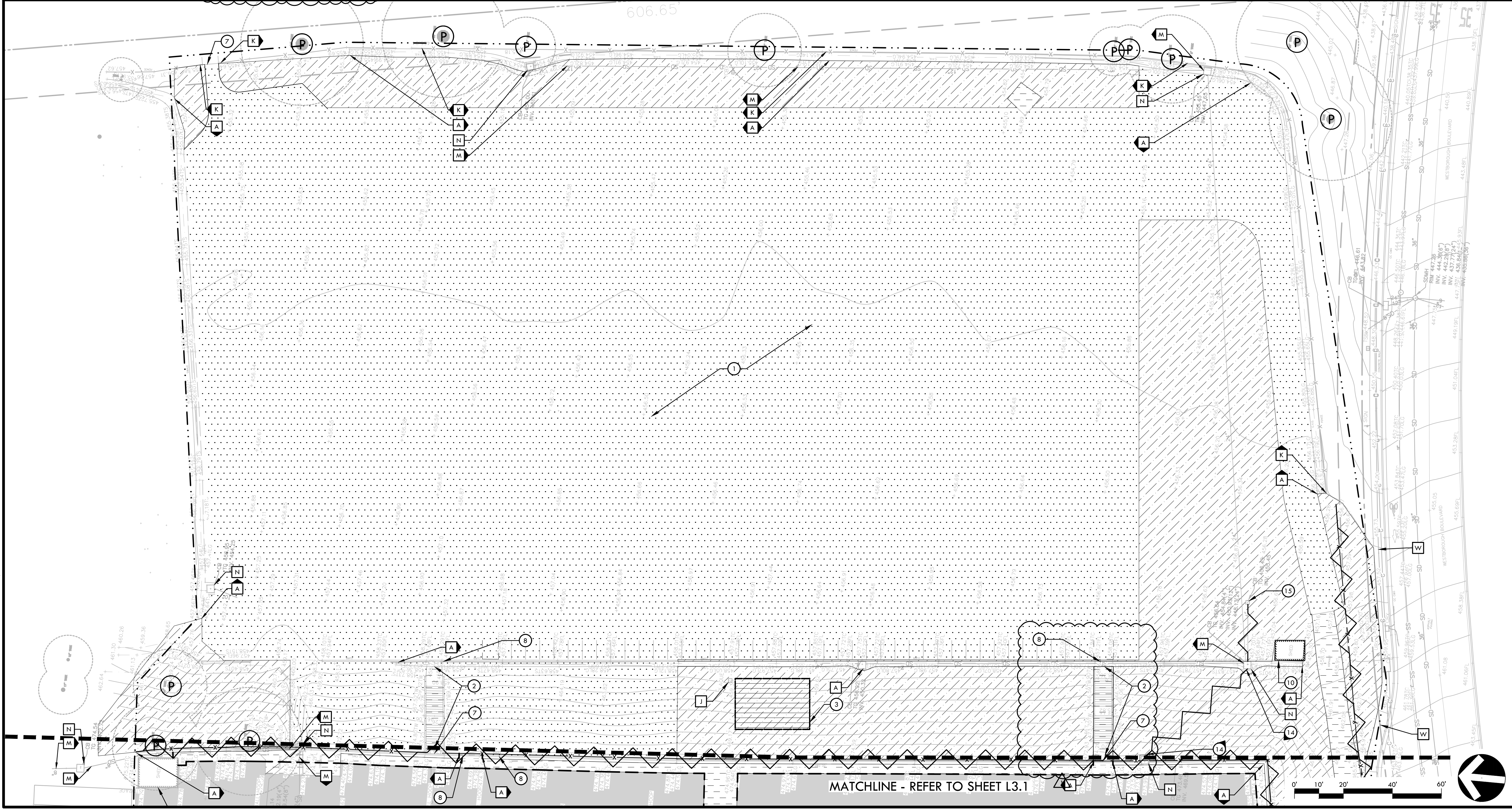
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DATE ISSUED 12/10/2024	SCALE 1"=10'-0"
VPI PROJ. NO. 2320400	SSFUSD PROJ. NO. 025-960

SHEET NO. **L0.4**

ACCESSIBILITY IMPROVEMENTS

DEMOLITION NOTES

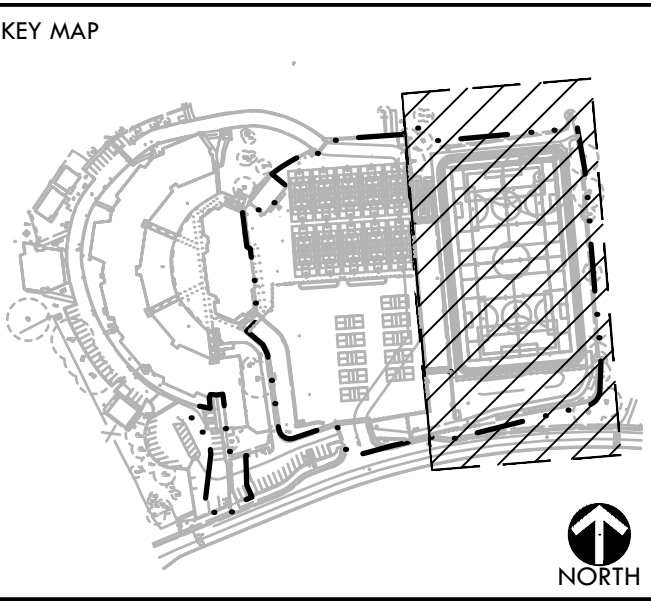
ITEMS TO BE PROTECTED OR RELOCATED				ITEMS TO BE DEMOLISHED AND/OR REMOVED				SYM	DESCRIPTION	
Y	EXISTING SPEED BUMP TO REMAIN AND BE PROTECTED	K	EXISTING SITE FENCING TO REMAIN AND BE PROTECTED	**SEE SHEET L3.2 FOR IMAGES OF SELECTED ITEMS					LIMIT OF WORK / CONSTRUCTION FENCING	5. ALL EXISTING ITEMS 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.
Z	EXISTING CURB TO REMAIN AND BE PROTECTED	L	EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED	A	EXISTING CONCRETE CURB AND GUTTER, INCLUDING DRAINAGE STRUCTURES TO REMAIN AND BE PROTECTED	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.		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.	
AA	EXISTING BOLLARDS AT ENTRY TO REMAIN AND BE PROTECTED. CONTRACTOR MAY DEMOLISH AND REPLACE IN KIND AS REQUIRED FOR CONSTRUCTION ACCESS (CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF SITE ACCESS AND MAINTAINING SITE SECURITY PER PROJECT MANUAL).	M	EXISTING STORM DRAIN LINE TO REMAIN AND BE PROTECTED	B	EXISTING SHED TO BE TEMPORARILY RELOCATED BY CONTRACTOR TO ALLOW FOR PAVING OPERATIONS, RELOCATED AND PLACED IN ORIGINAL LOCATION UPON COMPLETION OF PAVING WORK	2	EXISTING CONCRETE STAIRS AND HANDRAILS, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED.		EXISTING GRASS / VEGETATION TO BE STRIPPED AND REMOVED	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 SERVICE (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.
1		N	EXISTING STORM DRAIN INLET (CATCH BASIN TO REMAIN AND BE PROTECTED) CONTRACTOR SHALL RAISE DRAINS TO NEW FINISH GRADE ELEVATIONS (AS APPLICABLE)	C	EXISTING SIGN AND POST TO REMAIN AND BE PROTECTED	3	EXISTING BLEACHERS, ASSOCIATED STRUCTURES AND FOOTINGS TO BE DEMOLISHED AND REMOVED		EXISTING HARDSCAPE PAVING, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED	
		O	EXISTING COMMUNICATIONS BOX TO REMAIN AND BE PROTECTED	D	EXISTING "WESTBOROUGH MIDDLE SCHOOL" SIGN TO REMAIN AND BE PROTECTED	4	EXISTING LIGHT POSTS AND FOOTINGS TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.		P TREE TO REMAIN AND BE PROTECTED AND PRUNED, REFER TO SPECIFICATION SECTION 32 01 90 - EXISTING VEGETATION PROTECTION	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	EXISTING TRENCH DRAIN TO REMAIN AND BE PROTECTED	E	EXISTING SEWER STRUCTURE TO REMAIN AND BE PROTECTED. ADJUST RIM TO NEW FINISH GRADE AS NEEDED.	5	EXISTING ACCESSIBLE RAMP, HANDRAILS AND FOOTINGS TO BE DEMOLISHED AND REMOVED		DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, AND POSTS. ANY EXISTING SIGNAGE TO BE SALVAGED AND REINSTALLED.	
		Q	EXISTING GAS LINE TO REMAIN AND BE PROTECTED	F	EXISTING SEWER LINE TO REMAIN AND BE PROTECTED	6	EXISTING CURB AND GUTTER, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED		SAV CUT EXISTING CONCRETE / ASPHALT PAVING, REFER TO LAYOUT PLAN SHEETS 16.0-2	8. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.
		R	EXISTING ELECTRICAL LINE TO REMAIN AND BE PROTECTED	G	EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED	7	EXISTING GATE TO BE DEMOLISHED AND REMOVED		EXISTING HARDSCAPE AREAS TO REMAIN AND BE PROTECTED; SURFACE TO BE REPAIRED AND PREPARED FOR OVERLAY APPLICATION. REFER TO SPECIFICATIONS.	
		S	EXISTING WATER LINE TO REMAIN AND BE PROTECTED	H	*EXISTING PG&E TRANSFORMER PAD AND CHAIN LINK FENCE ENCLOSURE TO REMAIN AND BE PROTECTED	8	EXISTING CURB AND SWALE TO BE DEMOLISHED AND REMOVED AT LOCATION OF NEW RAMP AND DRIVE		DEMOLISH AND REMOVE EXISTING STORM DRAIN LINE.	
		T	EXISTING COMMUNICATIONS GAS LINE 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	9	EXISTING BASKETBALL GOAL, POST AND FOOTING TO BE DEMOLISHED AND REMOVED. HARDSCAPE TO BE FILLED AND PATCHED IN PLACE OF BASKETBALL GOAL POST AND FOOTING		EXISTING HARDSCAPE TO REMAIN AND BE PROTECTED	
		U	EXISTING BUILDING AND RAMPS TO REMAIN AND BE PROTECTED	J	*"deLARIO'S FIELD" PLAQUE TO REMAIN AND BE PROTECTED	10	EXISTING SHED TO BE DEMOLISHED AND REMOVED. DEMOLISH CONCRETE BASE AND FOUNDATION			
		V	*EXISTING BACKFLOW PREVENTER AT PARKING LOT (INCLUDING SURROUNDING BOLLARDS) AND WATER VAULT TO REMAIN AND BE PROTECTED			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.			
		W	EXISTING HARDSCAPE TO REMAIN AND BE PROTECTED			12	EXISTING BOLLARDS AND ASSOCIATED MATERIAL TO BE DEMOLISHED AND REMOVED.			
1		X	EXISTING STORAGE CONTAINER TO REMAIN AND BE PROTECTED.			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			



STAMP

REGISTERED PROFESSIONAL ENGINEER
DEVIN CONWAY
No. C-56494

Signature
EXPIRATION DATE:
June 30, 2025
STATE OF CALIFORNIA



DEMOLITION PLAN

PROJECT NAME

WESTBOROUGH
MIDDLE SCHOOL
FIELD AND PAVEMENT
IMPROVEMENTS

PROJECT ADDRESS

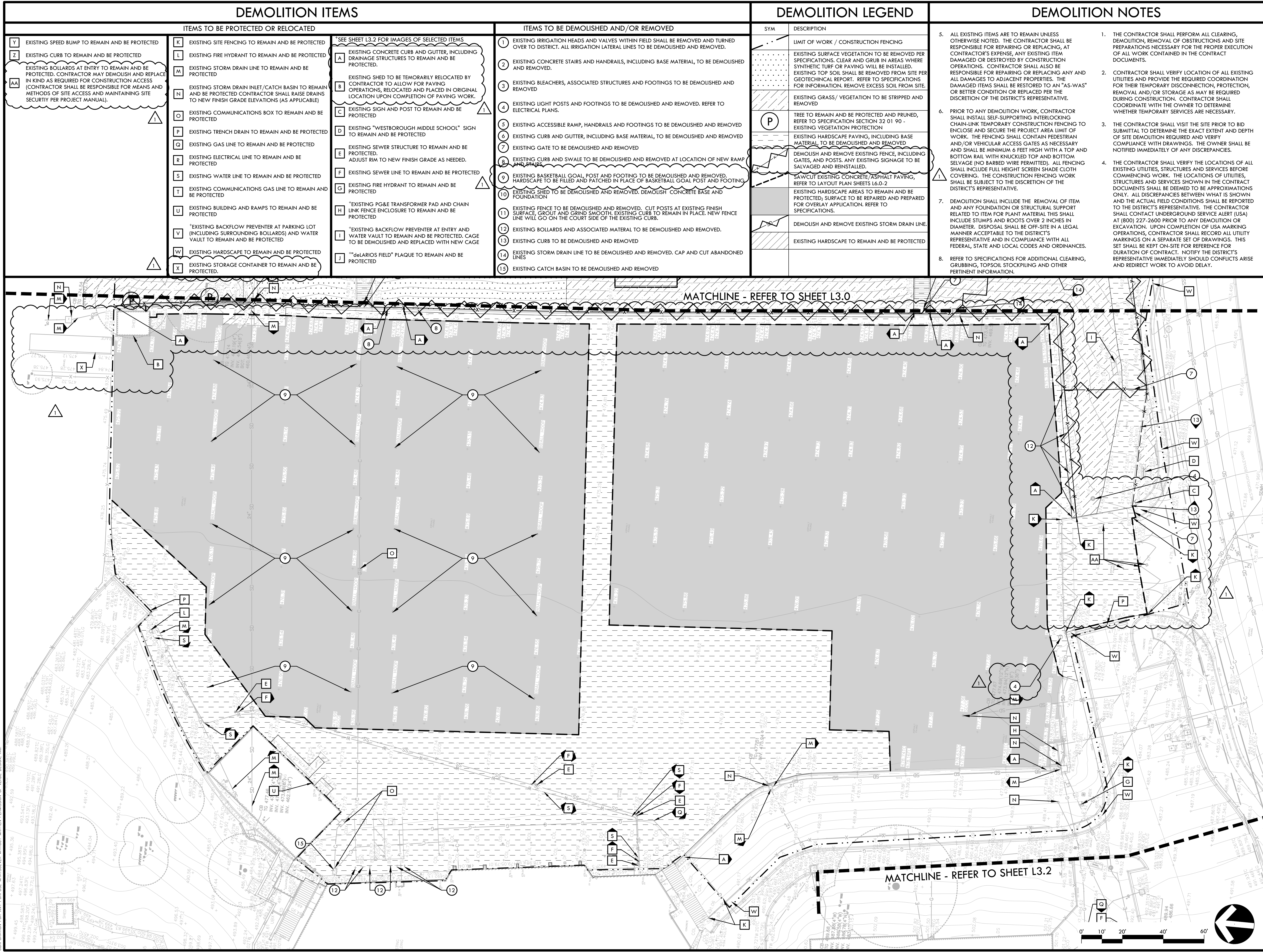
2570 WESTBOROUGH BLVD
SOUTH SAN FRANCISCO
CA 94080

SUBMITTAL	DATE
BID SET	2/14/24
BID ADDENDUM	03/11/25

NO.	REVISIONS	DATE
1	BID ADDENDUM	03/11/25

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. L3.0	

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DEMOLITION ITEMS

ITEMS TO BE PROTECTED OR RELOCATED

Y EXISTING SPEED BUMP TO REMAIN AND BE PROTECTED	K EXISTING SITE FENCING TO REMAIN AND BE PROTECTED
Z EXISTING CURB TO REMAIN AND BE PROTECTED	L EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED
EXISTING BOLLARDS AT ENTRY TO REMAIN AND BE PROTECTED. CONTRACTOR MAY DEMOLISH AND REPLACE IN KIND AS REQUIRED FOR CONSTRUCTION ACCESS (CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF SITE ACCESS AND MAINTAINING SITE SECURITY PER PROJECT MANUAL).	M EXISTING STORM DRAIN LINE TO REMAIN AND BE PROTECTED
AA	N EXISTING STORM DRAIN INLET/CATCH BASIN TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL RAISE DRAINS TO NEW FINISH GRADE ELEVATIONS (AS APPLICABLE)
1	O EXISTING COMMUNICATIONS BOX TO REMAIN AND BE PROTECTED
	P EXISTING TRENCH DRAIN TO REMAIN AND BE PROTECTED
	Q EXISTING GAS LINE TO REMAIN AND BE PROTECTED
	R EXISTING ELECTRICAL LINE TO REMAIN AND BE PROTECTED
	S EXISTING WATER LINE TO REMAIN AND BE PROTECTED
	T EXISTING COMMUNICATIONS GAS LINE TO REMAIN AND BE PROTECTED
	U EXISTING BUILDING AND RAMPS TO REMAIN AND BE PROTECTED
	V *EXISTING BACKFLOW PREVENTER AT PARKING LOT (INCLUDING SURROUNDING BOLLARDS) AND WATER VAULT TO REMAIN AND BE PROTECTED
	W EXISTING HARDSCAPE TO REMAIN AND BE PROTECTED
	X EXISTING STORAGE CONTAINER TO REMAIN AND BE PROTECTED.

*SEE SHEET L3.2 FOR IMAGES OF SELECTED ITEMS

A EXISTING CONCRETE CURB AND GUTTER, INCLUDING DRAINAGE STRUCTURES TO REMAIN AND BE PROTECTED.	B EXISTING SHED TO BE TEMPORARILY RELOCATED BY CONTRACTOR TO ALLOW FOR PAVING OPERATIONS, RELOCATED AND PLACED IN ORIGINAL LOCATION UPON COMPLETION OF PAVING WORK.
C EXISTING SIGN AND POST TO REMAIN AND BE PROTECTED	D EXISTING "WESTBOROUGH MIDDLE SCHOOL" SIGN TO REMAIN AND BE PROTECTED
E EXISTING SEWER STRUCTURE TO REMAIN AND BE PROTECTED. ADJUST RIM TO NEW FINISH GRADE AS NEEDED.	F EXISTING SEWER LINE TO REMAIN AND BE PROTECTED
G EXISTING FIRE HYDRANT TO REMAIN AND BE PROTECTED	H *EXISTING PG&E TRANSFORMER PAD AND CHAIN LINK FENCE ENCLOSURE TO REMAIN AND BE PROTECTED
I	J *EXISTING BACKFLOW PREVENTER AT ENTRY AND WATER VAULT TO REMAIN AND BE PROTECTED. CAGE TO BE DEMOLISHED AND REPLACED WITH NEW CAGE
	K **"delARLOS FIELD" PLAQUE TO REMAIN AND BE PROTECTED

ITEMS TO BE DEMOLISHED AND/OR REMOVED

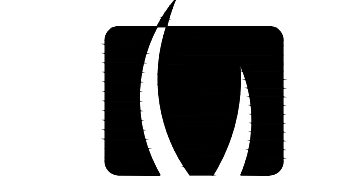
1 EXISTING IRRIGATION HEADS AND VALVES WITHIN FIELD SHALL BE REMOVED AND TURNED OVER TO DISTRICT. ALL IRRIGATION LATERAL LINES TO BE DEMOLISHED AND REMOVED.	2 EXISTING CONCRETE STAIRS AND HANDRAILS, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED.
3 EXISTING BLEACHERS, ASSOCIATED STRUCTURES AND FOOTINGS TO BE DEMOLISHED AND REMOVED	4 EXISTING LIGHT POSTS AND FOOTINGS TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
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. HARDSCAPE TO BE FILLED AND PATCHED IN PLACE OF BASKETBALL GOAL POST AND FOOTING.	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 GRIND SMOOTH. EXISTING CURB TO REMAIN IN PLACE. NEW FENCE LINE WILL GO ON THE COURT SIDE OF THE EXISTING CURB.	12 EXISTING BOLLARDS AND ASSOCIATED MATERIAL 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	

DEMOLITION LEGEND

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
P	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. ANY EXISTING SIGNAGE TO BE SALVAGED AND REINSTALLED.
	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

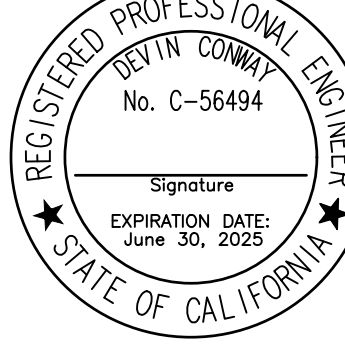
DEMOLITION NOTES

- 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.
- 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.
- 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.
- REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.
- 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.
- 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.
- 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.
- 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.



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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

BID SET

2/14/24

BID ADDENDUM

03/11/25

NO. REVISIONS

DATE

1 BID ADDENDUM

03/11/25

DRAWN BY

KL/RC

CHECKED BY

JW

DATE ISSUED

12/10/2024

SCALE

1"=20'-0"

VDI PROJ. NO.

2320400

SSFSUD PROJ. NO.

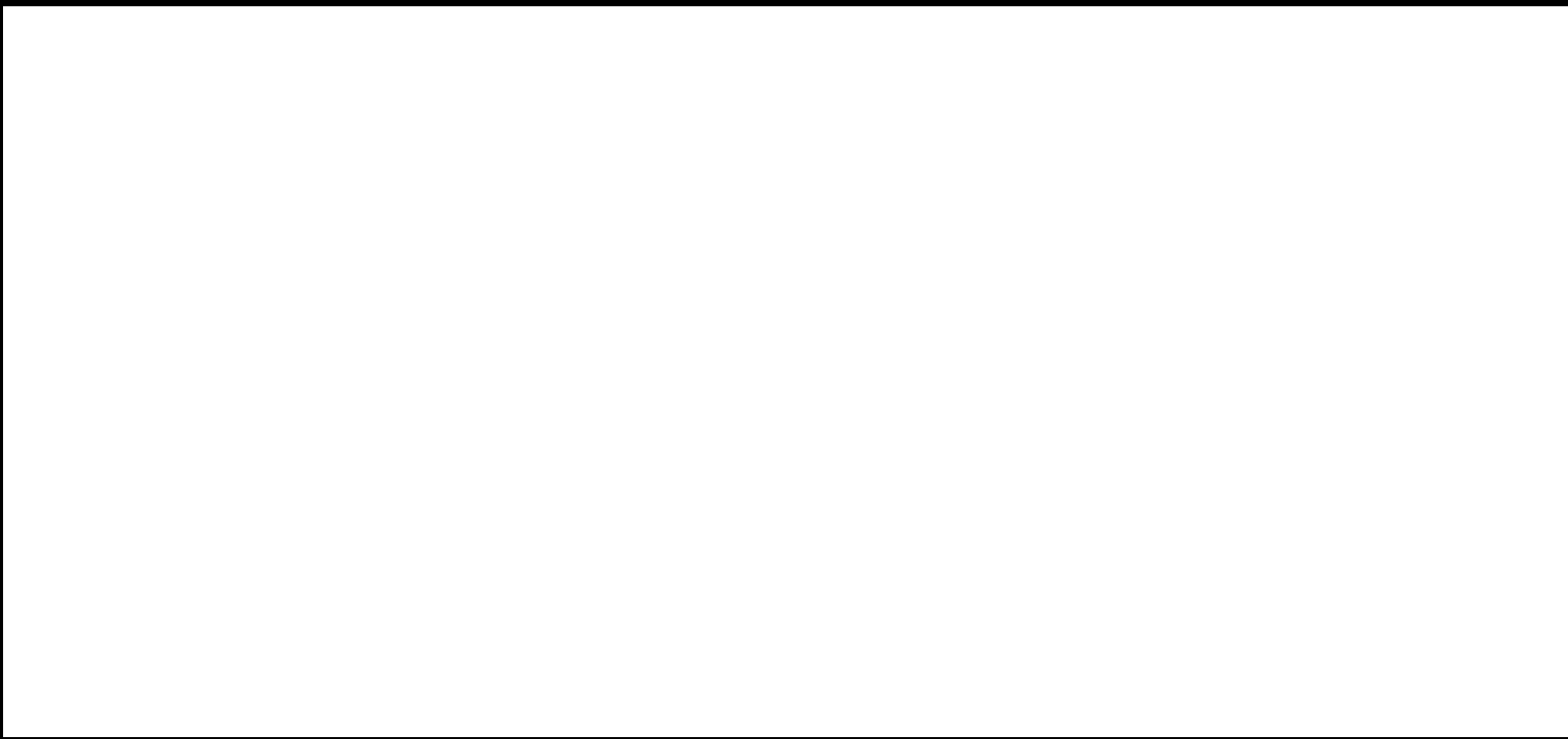
025-960

SHEET NO.

L3.1

DEMOLITION PLAN

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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.

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KEY MAP

SHEET TITLE

**GRADING
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PROJECT NAME

**WESTBOROUGH
MIDDLE SCHOOL
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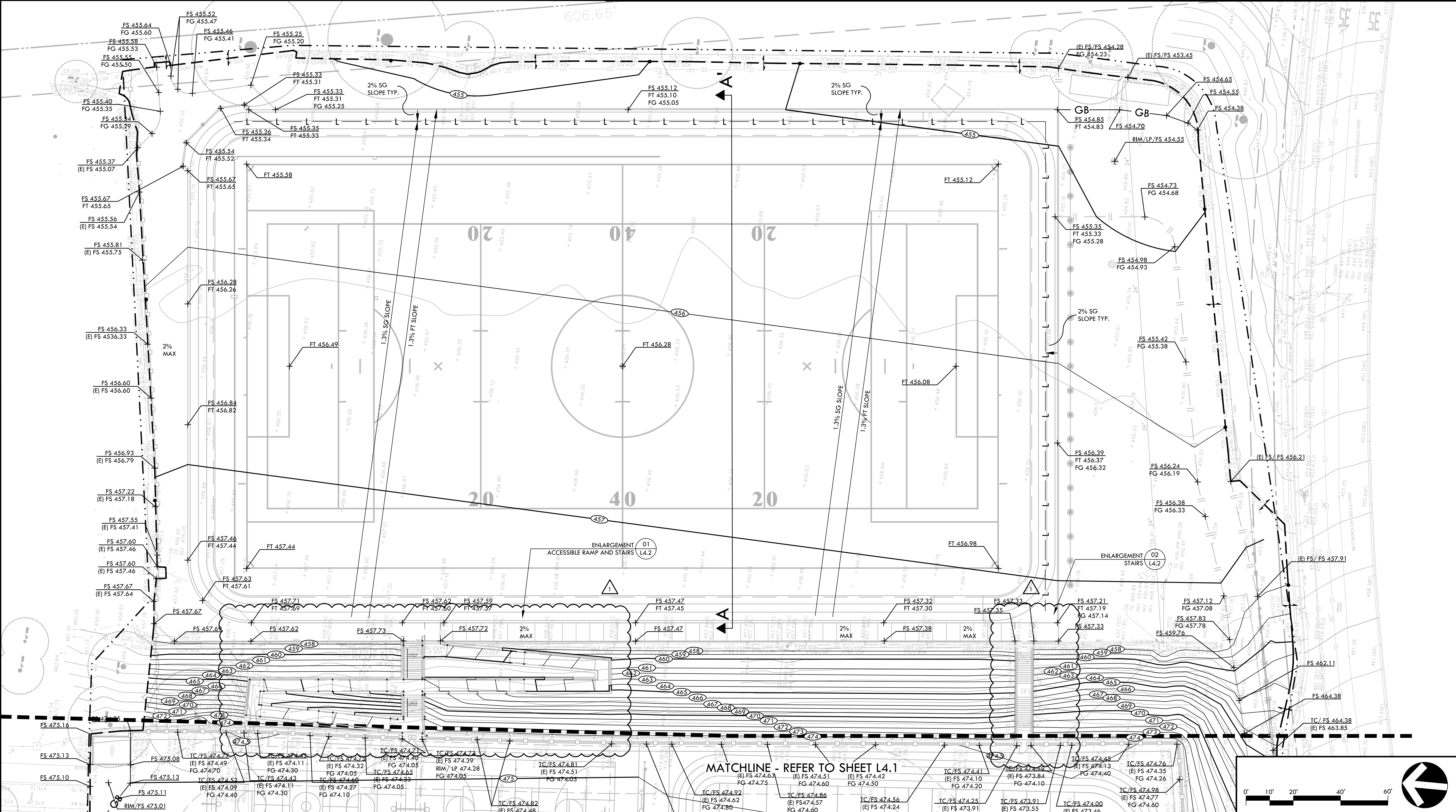
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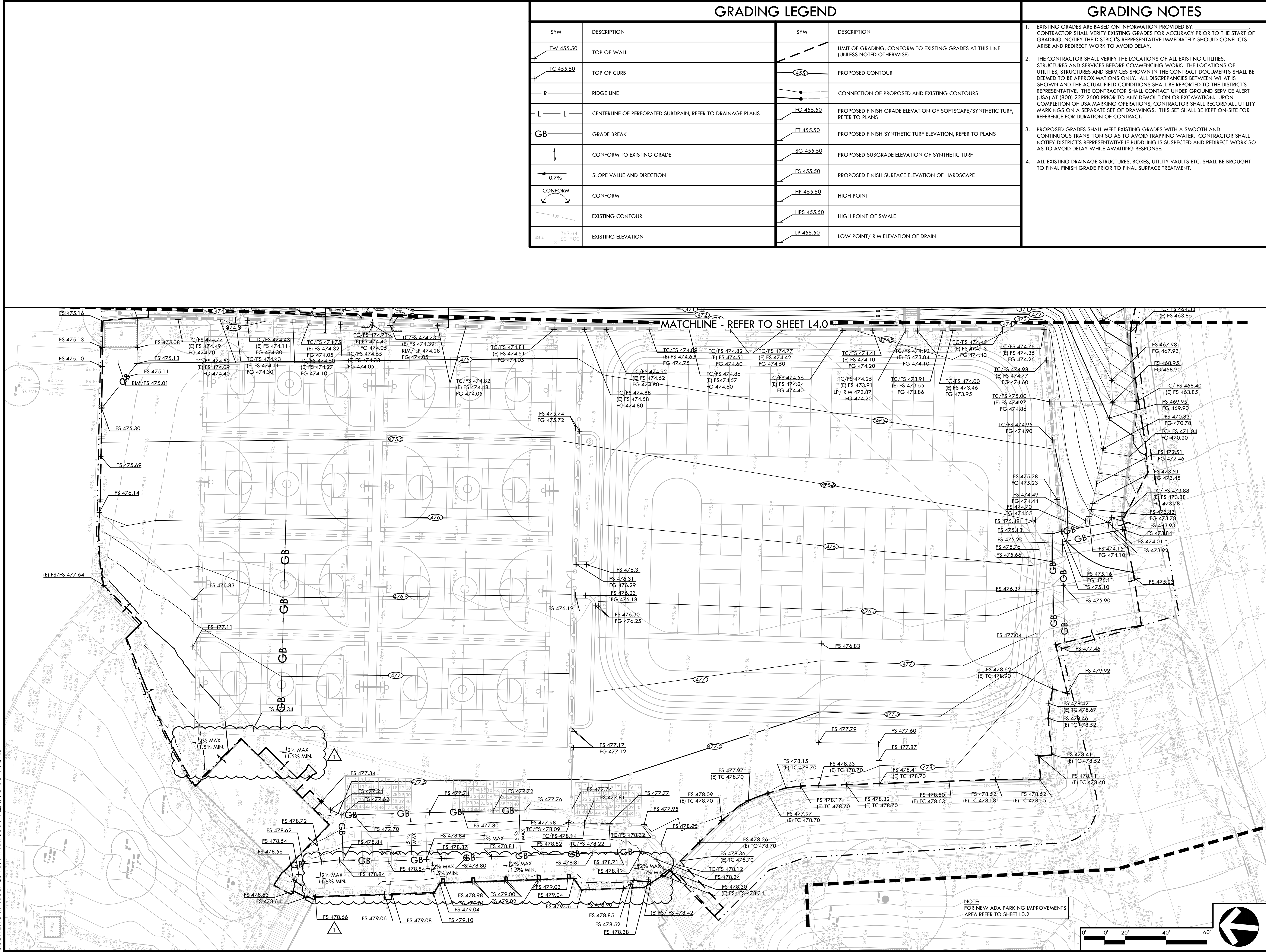
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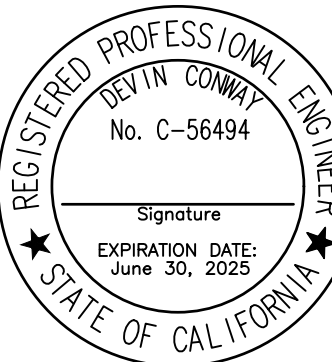
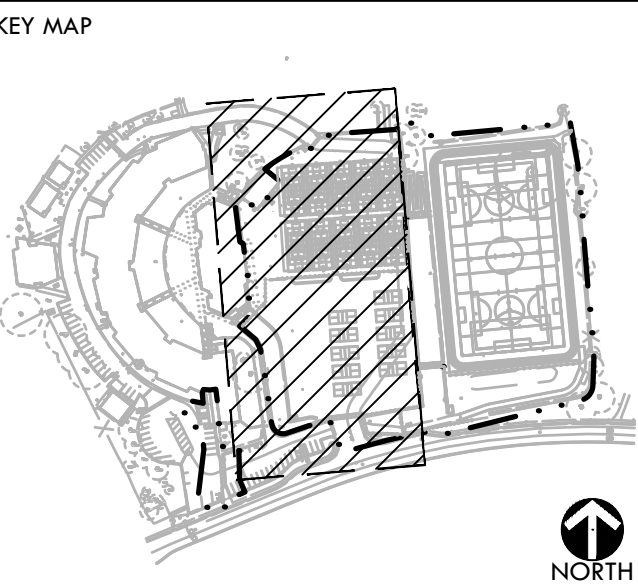
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GRADING
PLAN

WESTBOROUGH
MIDDLE SCHOOL
FIELD AND PAVEMENT
IMPROVEMENTS

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SHEET NO.: L4.1

GRADING PLAN

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DRAINAGE & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER SHEET NUMBER	SYM	DESCRIPTION	DETAIL NUMBER SHEET NUMBER
☉	AREA DRAIN AT RAMP	I D1.0	⊖	CATCH BASIN (CB), SIZE PER PLAN	A D1.0
⊖	CATCH BASIN AT EXISTING SWALE	J D1.0	⊖	CATCH BASIN IN HARDSCAPE (CBH), SIZE PER PLAN	A D1.0
→ WD	WALL DRAIN	H D1.0	●	JUNCTION BOX (JB), SIZE PER PLAN	B D1.0
			☉	CLEANOUT IN SYNTHETIC TURF (COIT)	C D1.0
			→ SD	SOLID WALL STORM DRAIN (SD)	E D1.0
			→ PERF	PERFORATED SUBDRAIN LINE (PERF)	F 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

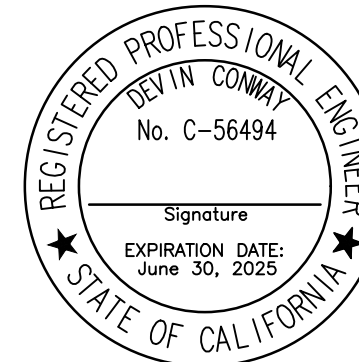
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- ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
- THE CONTRACTOR IS TO PROTECT DRAINAGE SYSTEM FROM DEBRIS, INCLUDING SOIL, ROCK MATERIAL, AND TRASH 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.



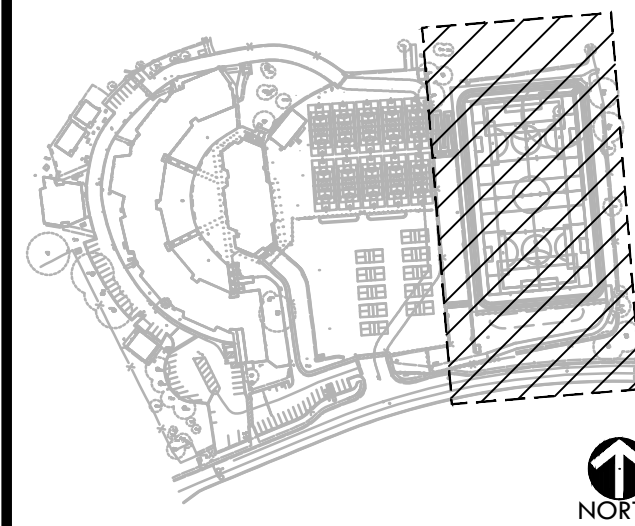
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KEY MAP



SHEET TITLE

DRAINAGE AND UTILITY PLAN

PROJECT NAME

**WESTBOROUGH
MIDDLE SCHOOL
FIELD AND PAVEMENT
IMPROVEMENTS**

PROJECT ADDRESS

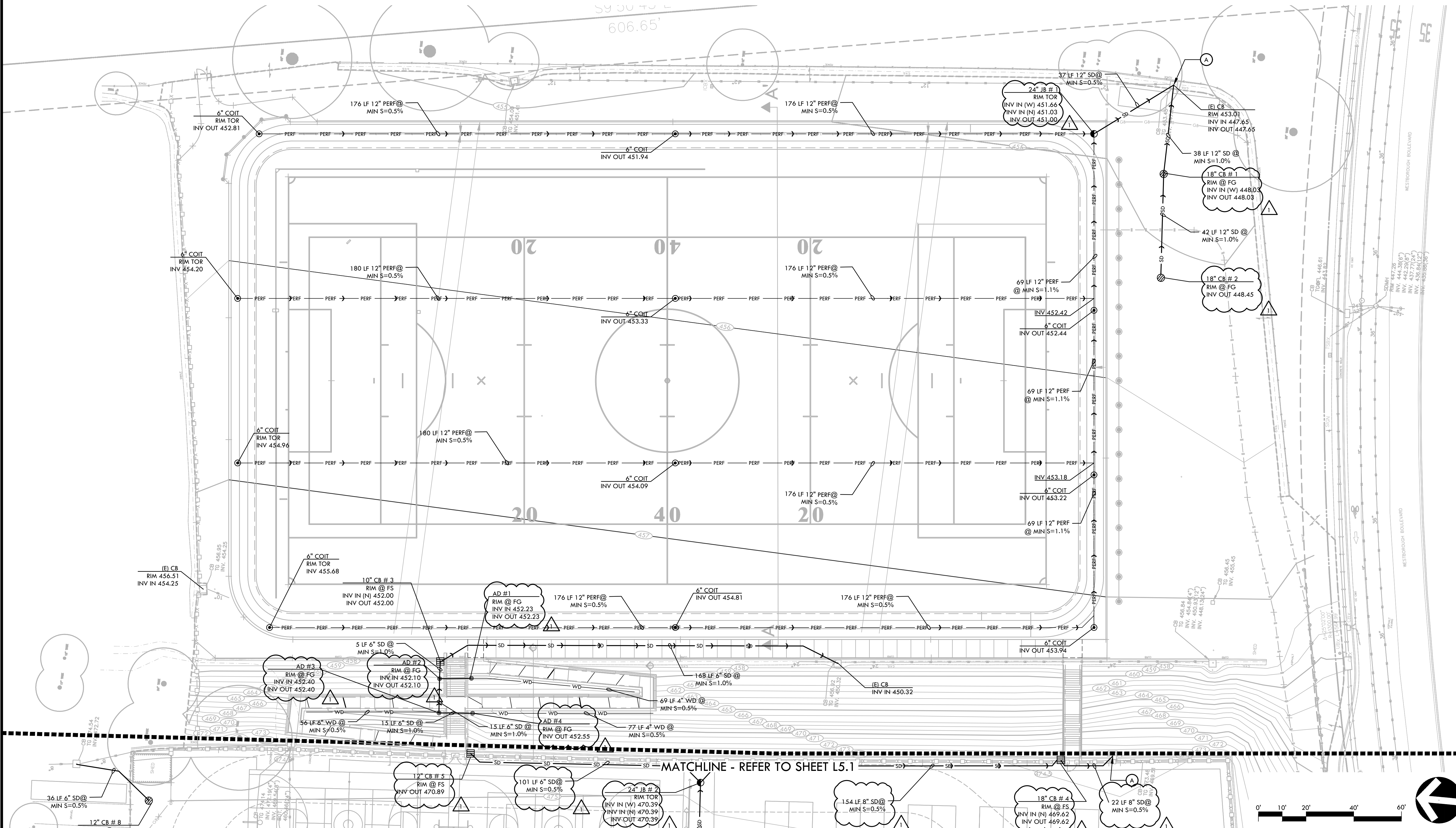
**2570 WESTBOROUGH BLVD
SOUTH SAN FRANCISCO
CA 94080**

SUBMITTAL	DATE
DSA SUBMITTAL	12/10/24
DSA BACKCHECK SUBMITTAL	03/12/25

NO.	REVISIONS	DATE
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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. L5.0	

DRAINAGE AND UTILITY PLAN



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			A	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

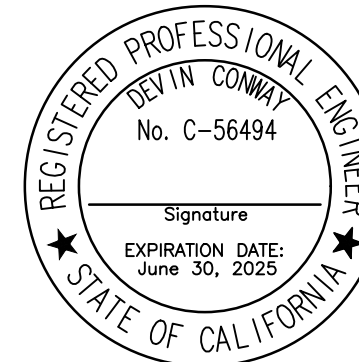
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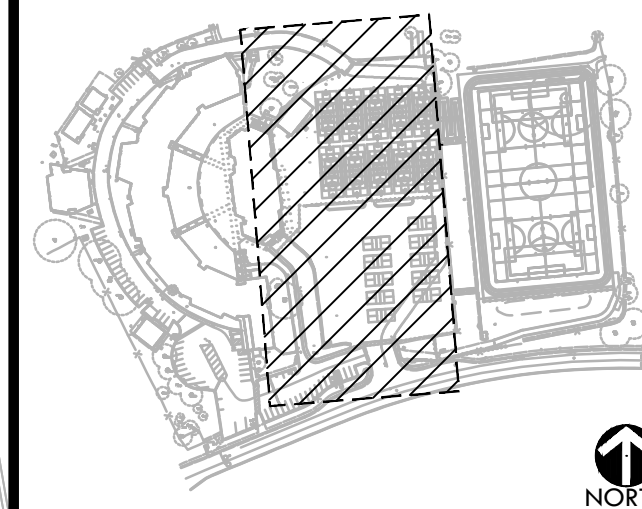
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KEY MAP



SHEET TITLE

**DRAINAGE AND
UTILITY PLAN**

PROJECT NAME

**WESTBOROUGH
MIDDLE SCHOOL
FIELD AND PAVEMENT
IMPROVEMENTS**

PROJECT ADDRESS

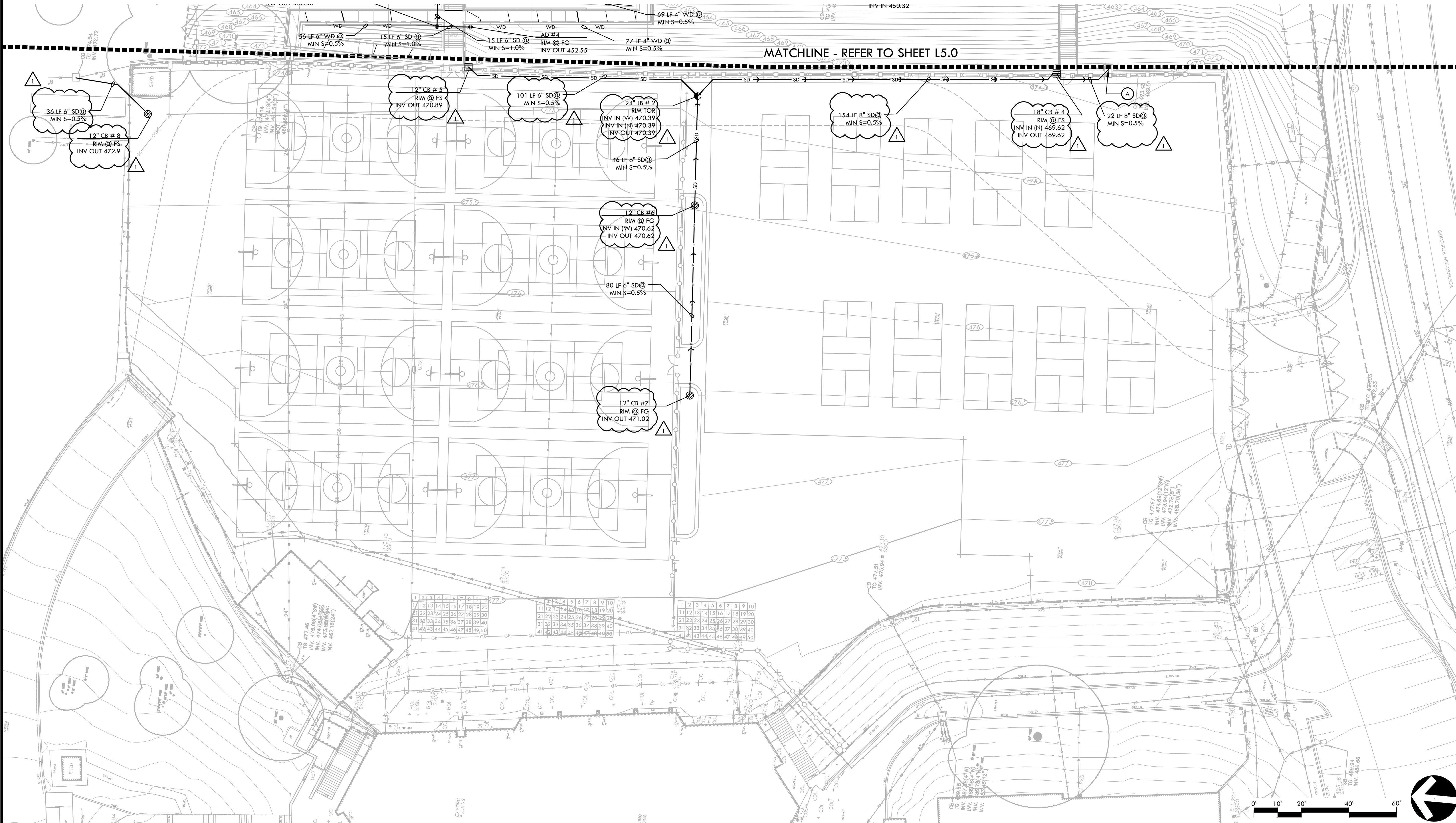
**2570 WESTBOROUGH BLVD
SOUTH SAN FRANCISCO
CA 94080**

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SHEET NO. L5.1	

DRAINAGE AND UTILITY PLAN



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

LAYOUT NOTES

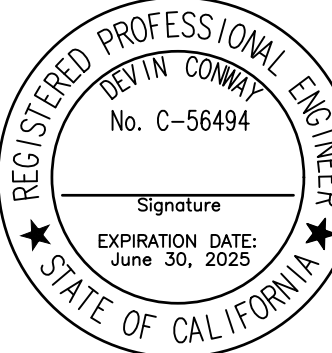
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2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.
3. LAYOUT IS 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.



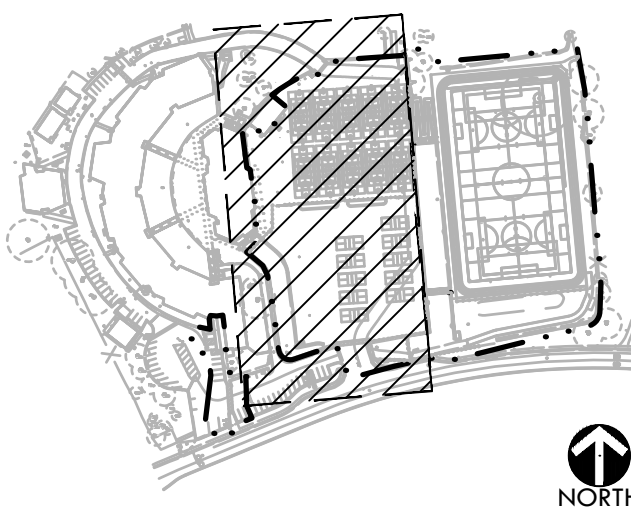
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KEY MAP



SHEET TITLE

LAYOUT
PLAN

PROJECT NAME

WESTBOROUGH
MIDDLE SCHOOL
FIELD AND PAVEMENT
IMPROVEMENTS

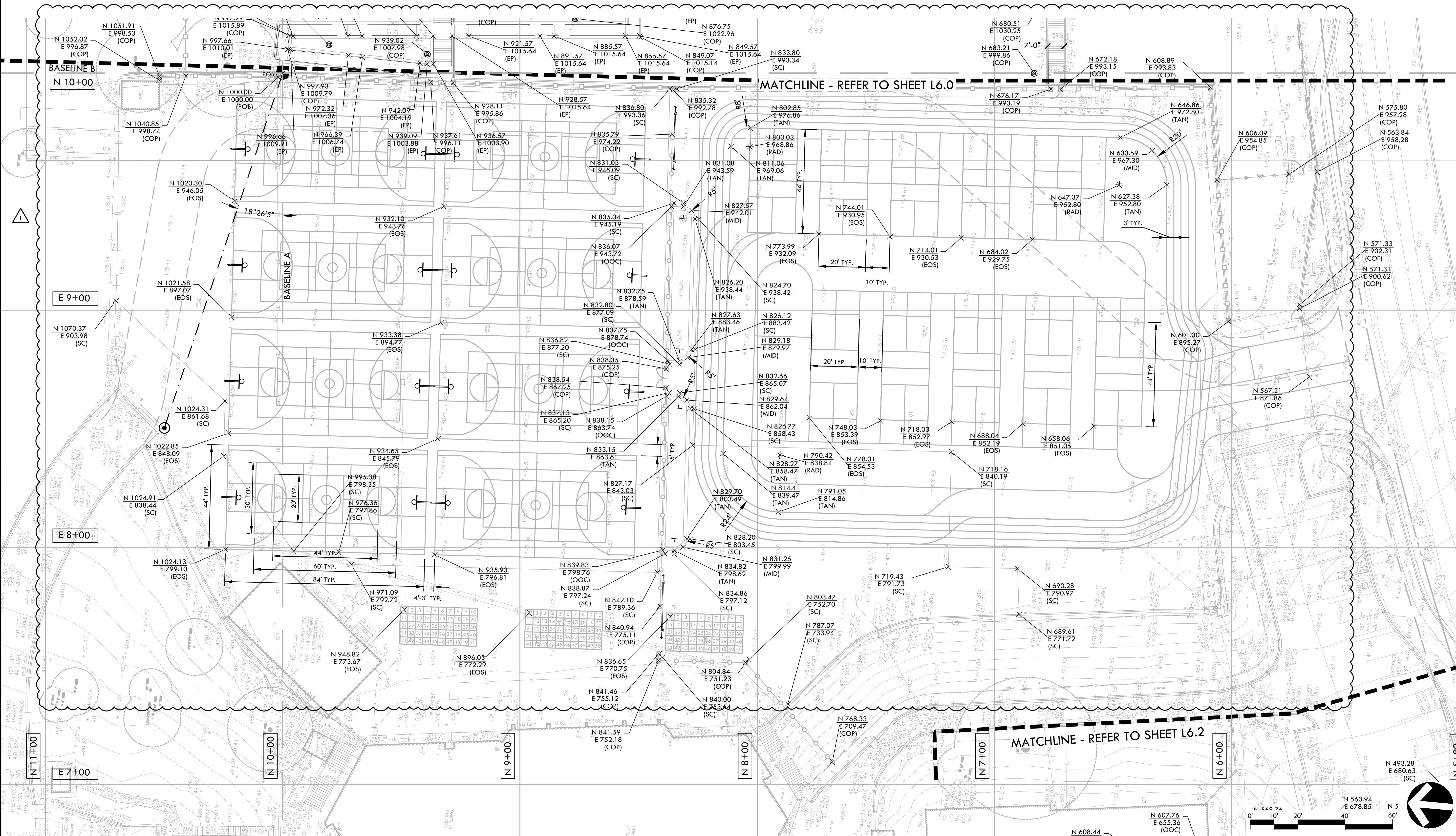
PROJECT ADDRESS

2570 WESTBOROUGH BLVD
SOUTH SAN FRANCISCO
CA 94080

SUBMITTAL	DATE
BID SET	2/14/24
BID ADDENDUM	03/11/25

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DRAWN BY KL	CHECKED BY JW
DATE ISSUED 12/10/2024	SCALE 1"=20'-0"
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SHEET NO. L6.1	



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MATERIAL LEGEND

SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL
(25)	GUARDRAIL ON WALL	G D2.2	(17)	CONCRETE RAMP	A,B,C D6.0	(7)	SOFTBALL FIELD STRIPING	F D4.0	(G5)	42" TALL X 20" WIDE CHAIN LINK SLIDING GATE	L D3.0	(F1)	42" TALL CHAIN LINK FENCE	E D3.0		LIMIT OF WORK	
(26)	NUMBER GRID	D D4.1	(18)	20" WIDE FIRE LANE	E D2.0	(8)	57 YD X 106 YD SOCCER FIELD STRIPING	A D4.0	(G6)	6' TALL X 12' WIDE CHAIN LINK DOUBLE SWING GATE	I D3.0	(F2)	6' TALL CHAIN LINK FENCE	E D3.0		SYNTHETIC TURF (COLOR: GREEN)	F D2.0
(27)	EASTERN COURTS - TRACK AND COURT STRIPING	H D6.2	(19)	CONCRETE THICKENED EDGE	F D2.1	(9)	NOT USED		(G7)	42" TALL X 4' WIDE CHAIN LINK PEDESTRIAN GATE	J D3.0	(F3)	8' TALL CHAIN LINK FENCE	D D3.0		SYNTHETIC TURF (COLOR: BLUE)	(D2.0)
			(20)	CONCRETE THICKENED EDGE AT SYNTHETIC TURF	B D2.0	(10)	FLAG FOOTBALL FIELD STRIPING	C D4.0	(G8)	NOT USED		(F4)	25' TALL NETTING SYSTEM	B D3.1		CONCRETE PAVING	A D2.0
			(21)	3 LANE 36" WIDE RUNNING TRACK STRIPING		(11)	VOLLEYBALL COURT STRIPING	B D4.1	(1)	HEADER BOARD	M D2.0	(F5)	PREFABRICATED BACKSTOP	A D3.1		ASPHALT PAVING - VEHICULAR/ FIRE	E D2.0
			(22)	CONEX CONTAINER, REFER TO SPECIFICATIONS		(12)	BASKETBALL COURT STRIPING	A D4.1	(2)	12" WIDE RETAINING WALL WITH FENCE	H D3.0	(F6)	8' TALL CHAIN LINK FENCE @ CURB AND GUTTER	C D3.1		ASPHALT PAVING - PEDESTRIAN	E D2.0
			(23)	BASKETBALL HOOP @ 10' TALL	J D4.1	(13)	PICKLEBALL COURT STRIPING	C D4.1	(3)	4" WIDE CURB	I D2.0	(G1)	8' TALL X 4' WIDE CHAIN LINK SWING GATE	F D3.0		ASPHALT OVERLAY - REFER TO SPECIFICATIONS	
			(23a)	BASKETBALL GOAL @ 8' TALL	I D4.1	(14)	STAIRS HANDRAIL	B D2.1	(4)	6" WIDE SYNTHETIC TURF EDGEBAND	H D2.0	(G2)	8' TALL X 4' WIDE CHAIN LINK SWING GATE WITH PANIC HARDWARE	G D3.0		MULCH AREA	
			(23b)	BASKETBALL GOAL BACK-TO-BACK @ 10' AND 8' TALL	H D4.1	(15)	CONCRETE STAIRS	7 S1.3	(5)	CURB AND GUTTER (24" GUTTER PAN)	E D2.1	(G3)	8' TALL X 8' WIDE ACCESSIBLE CHAIN LINK DOUBLE SWING GATE	K D3.0		PLANTING AREA - REFER TO PLANTING PLAN	
			(24)	NEW BACKFLOW PREVENTOR CAGE	H D5.0	(16)	RAMP HANDRAIL	H D2.1	(6)	12" WIDE CONCRETE EDGEBAND	K D2.0	(G4)	42" TALL X 8' WIDE CHAIN LINK PEDESTRIAN DOUBLE SWING GATE	D D3.1		SCORE JOINT	C D2.0
																EXPANSION JOINT	
																STREETBOND COATING AND COURT STRIPING	

MATERIAL NOTES

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- 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.



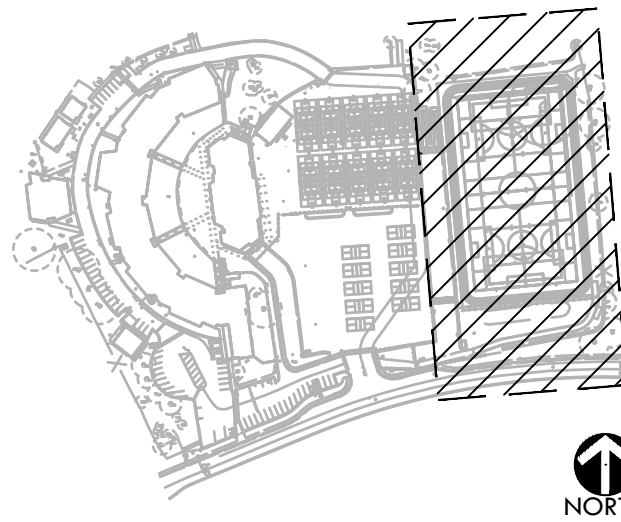
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KEY MAP



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MATERIAL AND
DETAIL REFERENCE
PLAN

PROJECT NAME

WESTBOROUGH
MIDDLE SCHOOL
FIELD AND PAVEMENT
IMPROVEMENTS

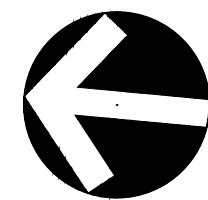
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SHEET NO. L7.0	



0' 10' 20' 40' 60'

MATCHLINE - REFER TO SHEET L7.1

MATERIAL AND DETAIL REFERENCE PLAN

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MATERIAL LEGEND

SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL	SYM	DESCRIPTION	DTL
(25)	GUARDRAIL ON WALL	G D2.1	(17)	CONCRETE RAMP	A,B,C D6.0 E,F D6.1 G D6.2	(7)	SOFTBALL FIELD STRIPING	F D4.0	(G5)	42" TALL X 20" WIDE CHAIN LINK SLIDING GATE	L D3.0	(F1)	42" TALL CHAIN LINK FENCE	E D3.0			
(26)	NUMBER GRID	D D4.1	(18)	20" WIDE FIRE LANE	E D2.0	(8)	57 YD X 106 YD SOCCER FIELD STRIPING	A D4.0	(G6)	6' TALL X 12' WIDE CHAIN LINK DOUBLE SWING GATE	L D3.0	(F2)	6' TALL CHAIN LINK FENCE	E D3.0			
(27)	EASTERN COURTS - TRACK AND COURT STRIPING	H D6.2	(19)	CONCRETE THICKENED EDGE	F D2.1	(9)	NOT USED		(G7)	42" TALL X 4' WIDE CHAIN LINK PEDESTRIAN GATE	J D3.0	(F3)	8' TALL CHAIN LINK FENCE	D D3.0			
			(20)	CONCRETE THICKENED EDGE AT SYNTHETIC TURF	B D2.0	(10)	FLAG FOOTBALL FIELD STRIPING	C D4.0	(G8)	NOT USED		(F4)	25' TALL NETTING SYSTEM	B D3.1			
			(21)	3 LANE 36" WIDE RUNNING TRACK STRIPING		(11)	VOLLEYBALL COURT STRIPING	B D4.1	(1)	HEADER BOARD	M D2.0	(F5)	PREFABRICATED BACKSTOP	A D3.1			
			(22)	CONEX CONTAINER, REFER TO SPECIFICATIONS		(12)	BASKETBALL COURT STRIPING	A D4.1	(2)	12" WIDE RETAINING WALL WITH FENCE	H D3.0	(F6)	8' TALL CHAIN LINK FENCE @ CURB AND GUTTER	C D3.1			
			(23c)	BASKETBALL HOOP @ 10' TALL	J D4.1	(13)	PICKLEBALL COURT STRIPING	C D4.1	(3)	4" WIDE CURB	I D2.0	(G1)	8' TALL X 4' WIDE CHAIN LINK SWING GATE	F D3.0			
			(23a)	BASKETBALL GOAL @ 8' TALL	I D4.1	(14)	STAIRS HANDRAIL	B D2.1	(4)	6" WIDE SYNTHETIC TURF EDGE BAND	H D2.0	(G2)	8' TALL X 4' WIDE CHAIN LINK SWING GATE WITH PANIC HARDWARE	G D3.0			
			(23b)	BASKETBALL GOAL BACK-TO-BACK @ 10' AND 8' TALL	H D4.1	(15)	CONCRETE STAIRS	7 S1.3 A D2.1	(5)	CURB AND GUTTER (24" GUTTER PAN)	E D2.1	(G3)	8' TALL X 8' WIDE ACCESSIBLE CHAIN LINK DOUBLE SWING GATE	K D3.0			
			(24)	NEW BACKFLOW PREVENTOR CAGE	H D5.0	(16)	RAMP HANDRAIL	H D2.1 C D2.1	(6)	12" WIDE CONCRETE EDGE BAND	K D2.0	(G4)	42" TALL X 8' WIDE CHAIN LINK PEDESTRIAN DOUBLE SWING GATE	D D3.1			

MATERIAL NOTES

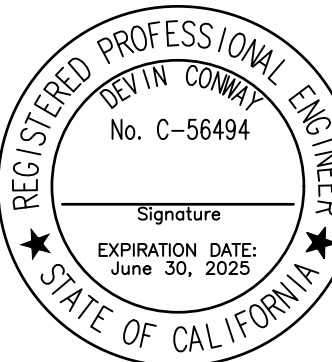
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET 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.



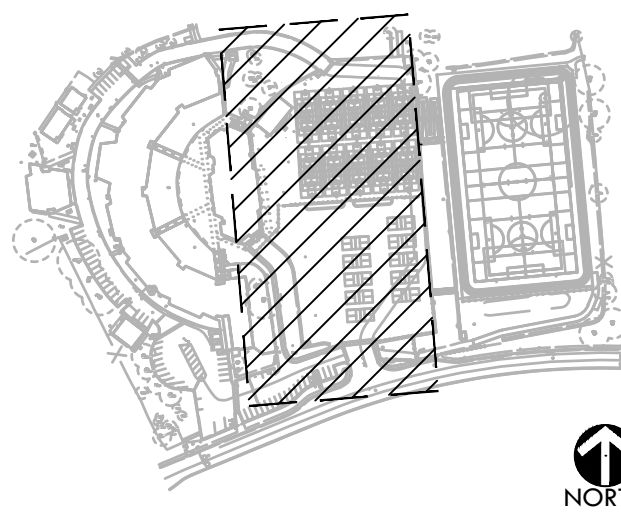
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STAMP



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
BID SET	2/14/24
BID ADDENDUM	03/11/25

NO.	REVISIONS	DATE
1	BID ADDENDUM	03/11/25
2		
3		
4		
5		

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. L7.1	

MATERIAL AND DETAIL REFERENCE PLAN

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P

L

H

WALL DRAIN

NTS

D

STORM DRAIN CLEANOUT

NTS

O

K

G

CLEANOUT BOX

NTS

C

CLEANOUT IN SYNTHETIC TURF - ACCESSIBLE

NTS

N

J

CATCH BASIN AT EXISTING SWALE

NTS

F

PERFORATED SUBDRAIN

NTS

B

JUNCTION BOX - SYNTHETIC TURF

NTS

M

I

AREA DRAIN IN PLANTER

NTS

E

TRENCH BACKFILL - SOLID WALL STORM/SEWER

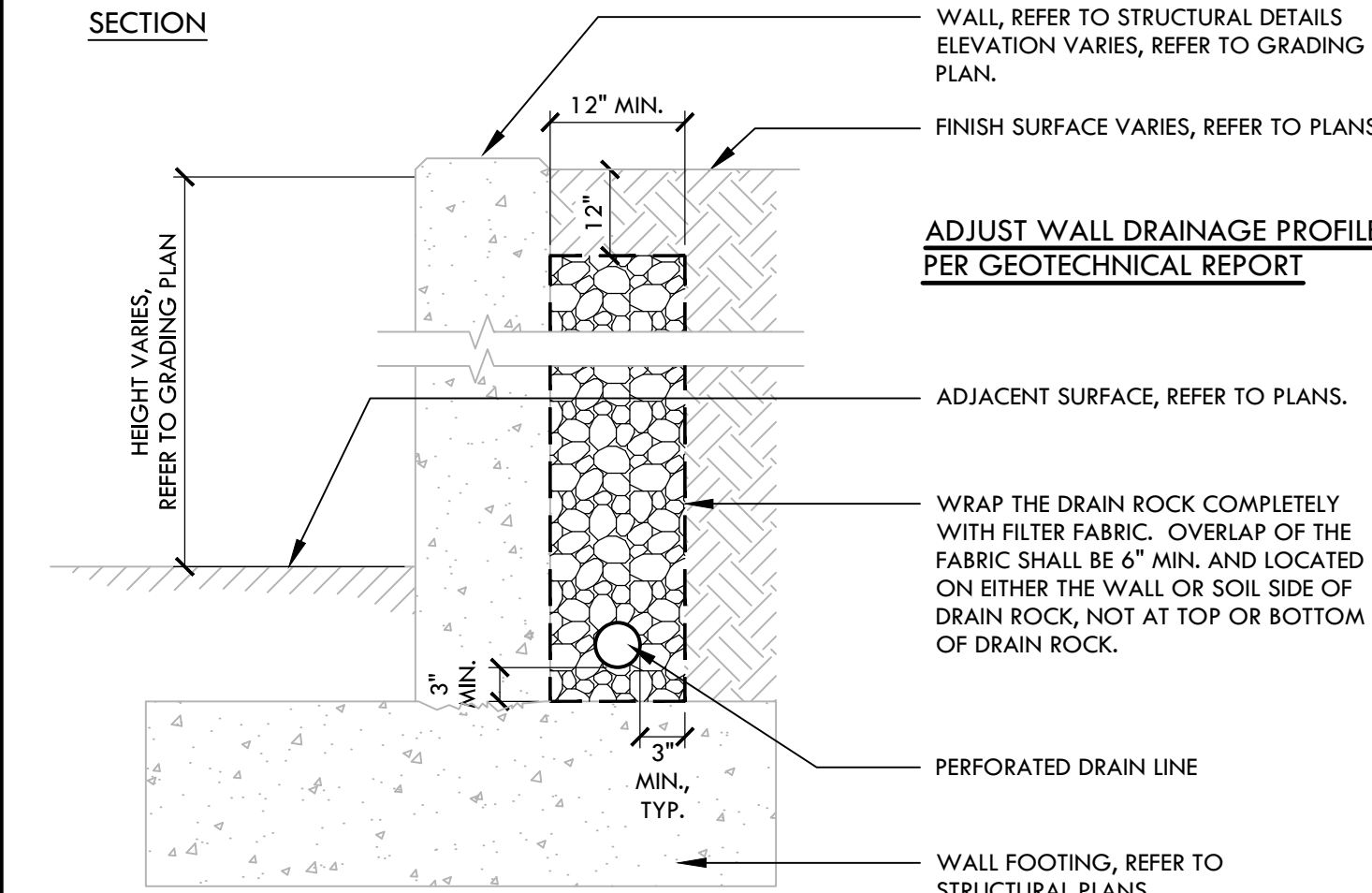
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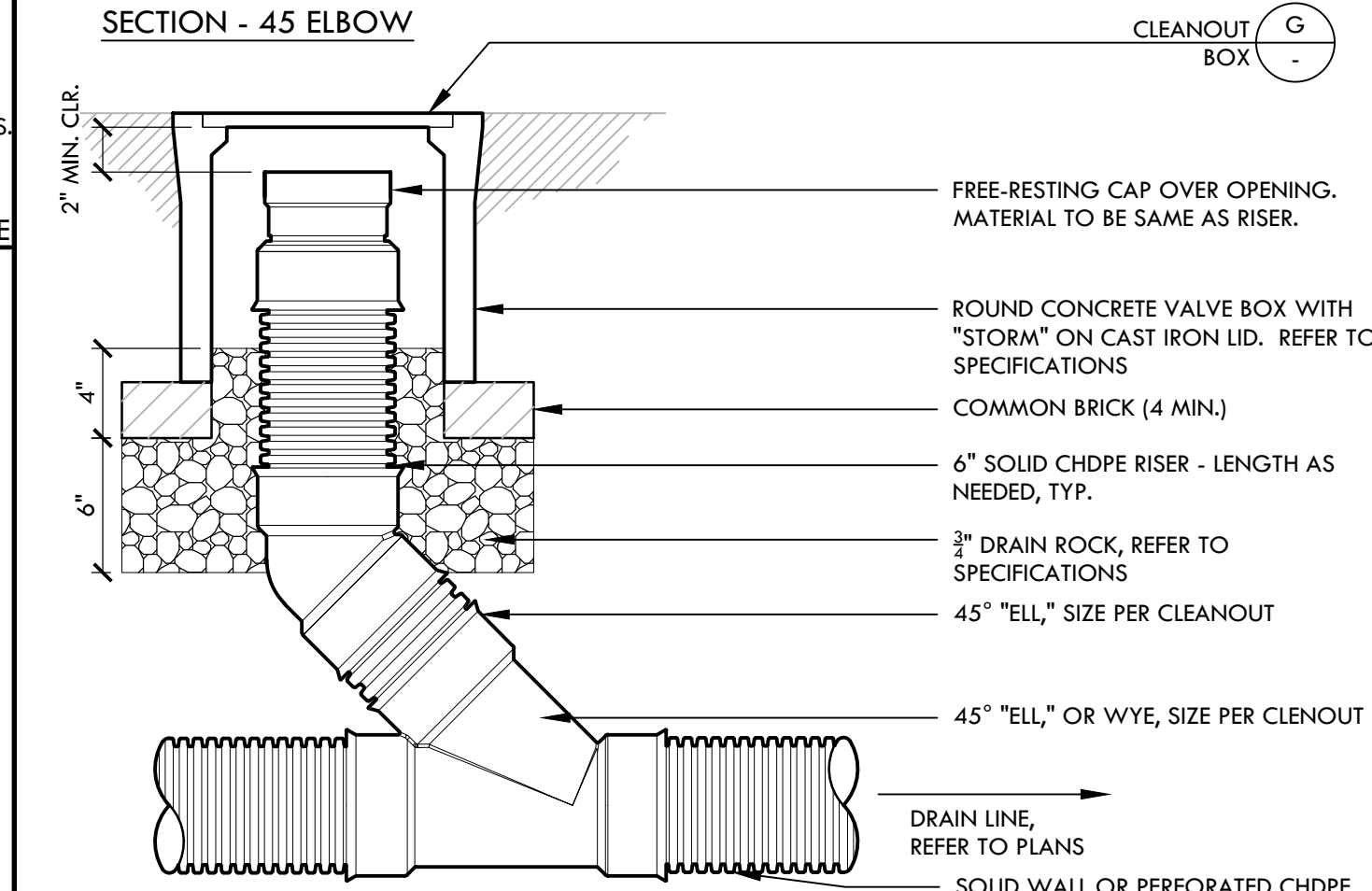
CATCH BASIN

NTS

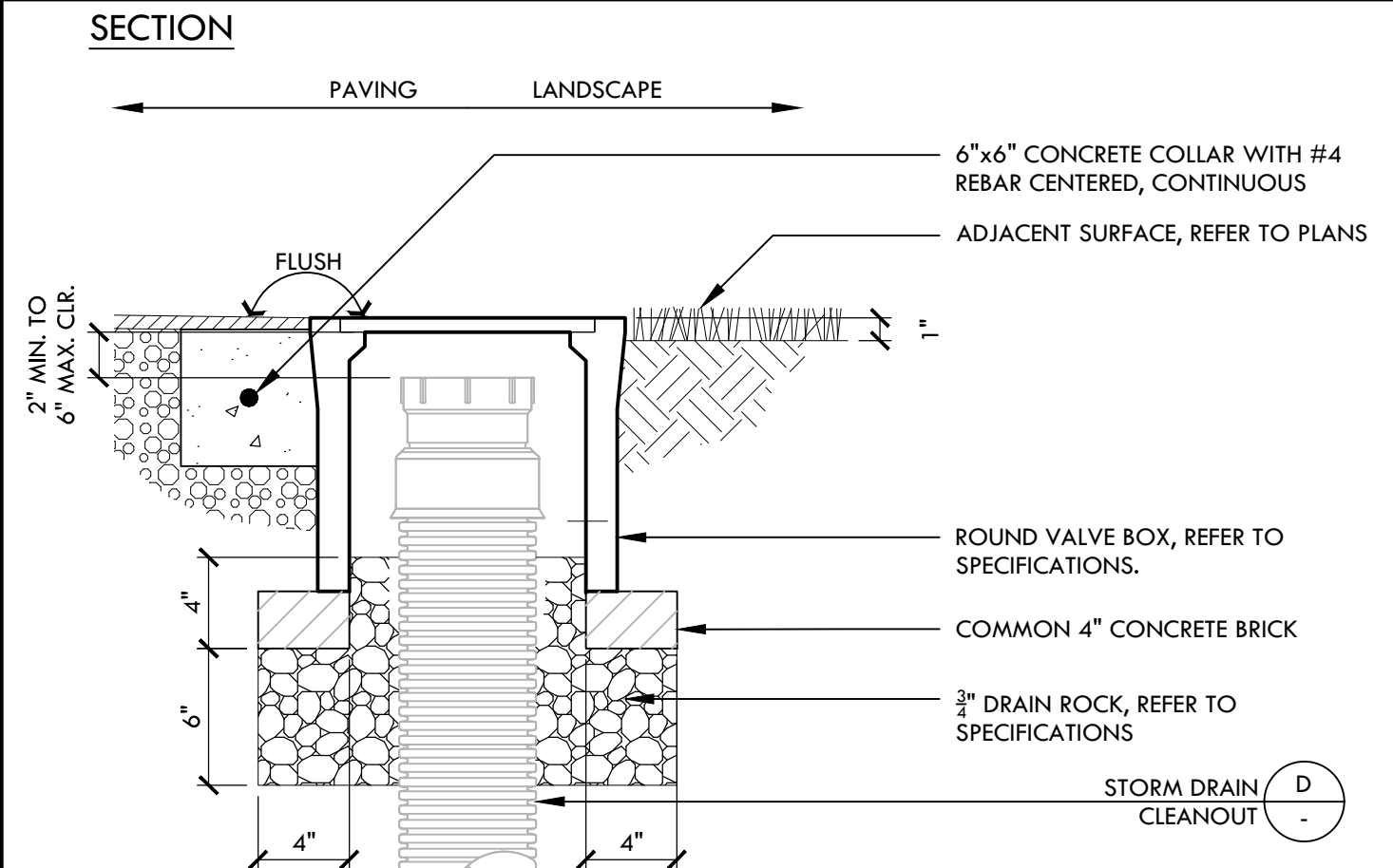
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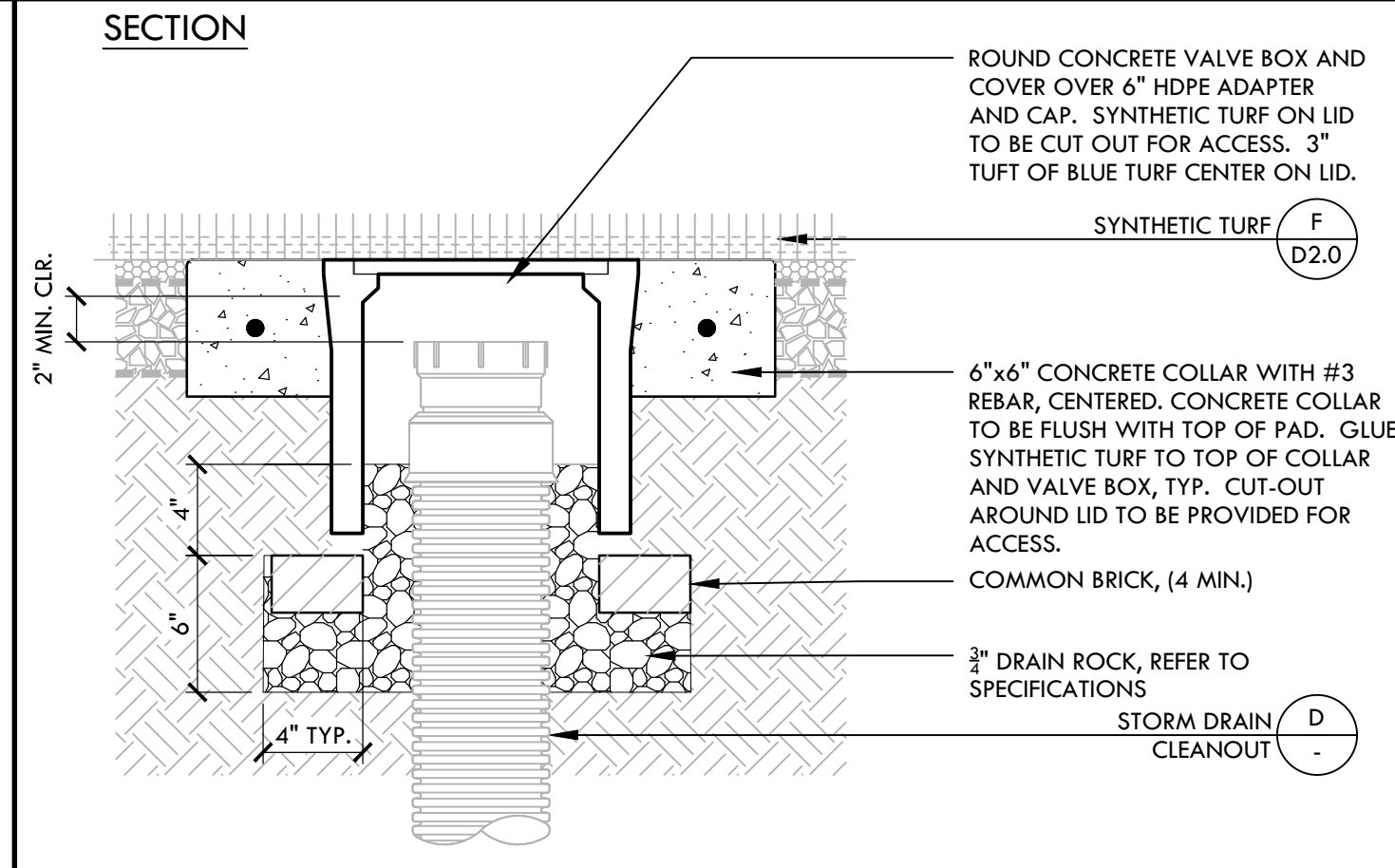
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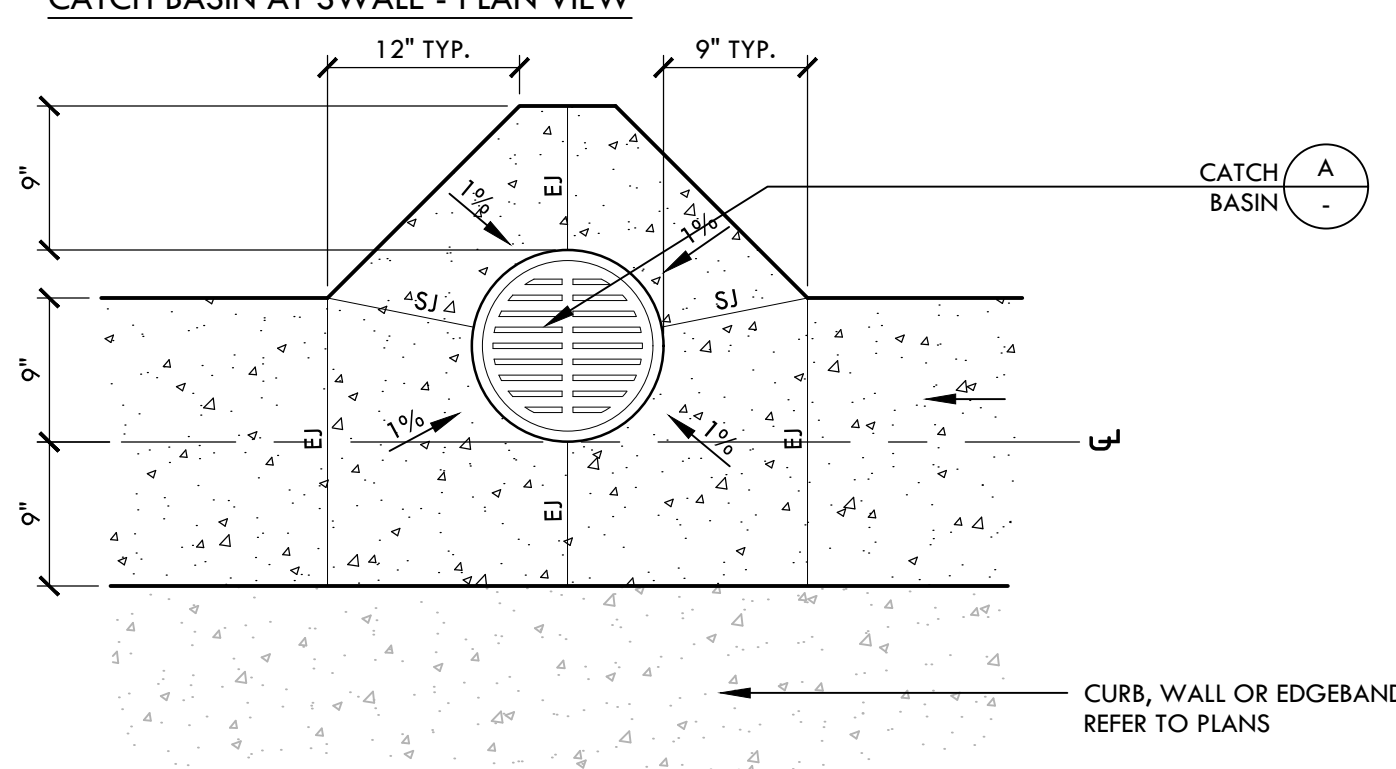
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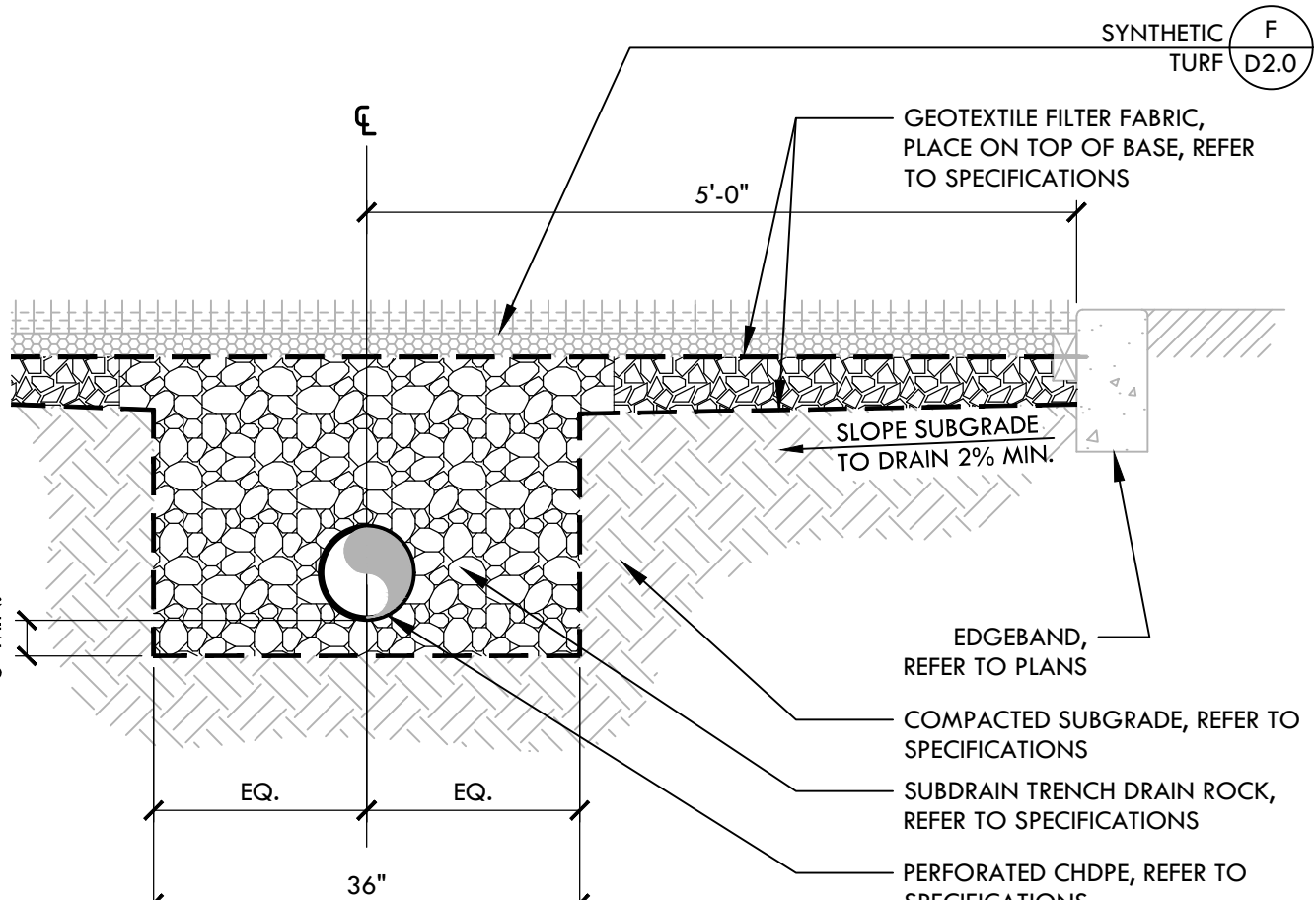
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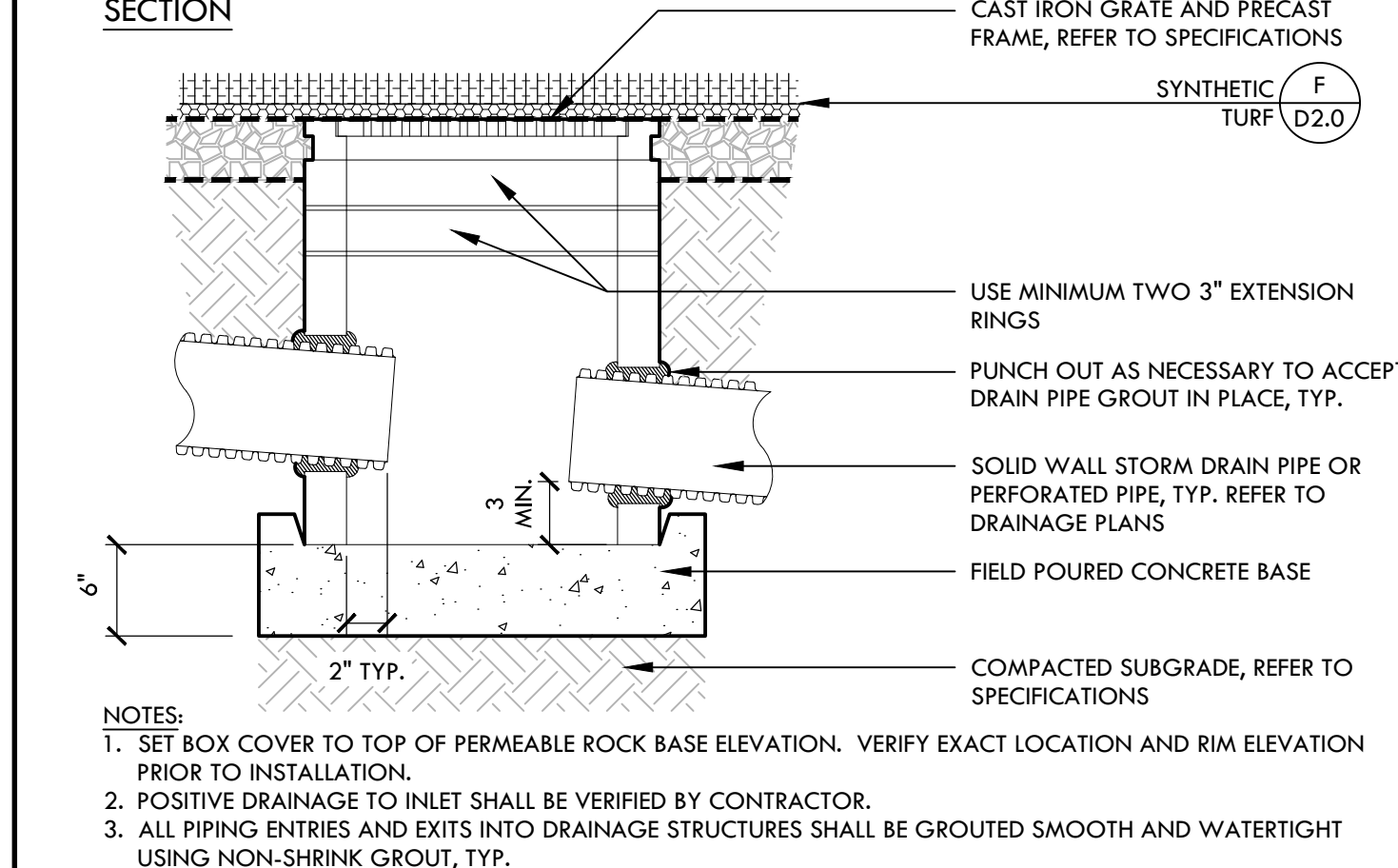
CATCH BASIN AT SWALE - PLAN VIEW



- NOTES:
1. PROVIDE SCORE JOINTS 8" ON CENTER AND ALIGN WITH FENCE POSTS.
 2. SJ = SAWCUT JOINT
EJ = EXPANSION JOINT
REFER TO DETAIL C, SHEET D2.0

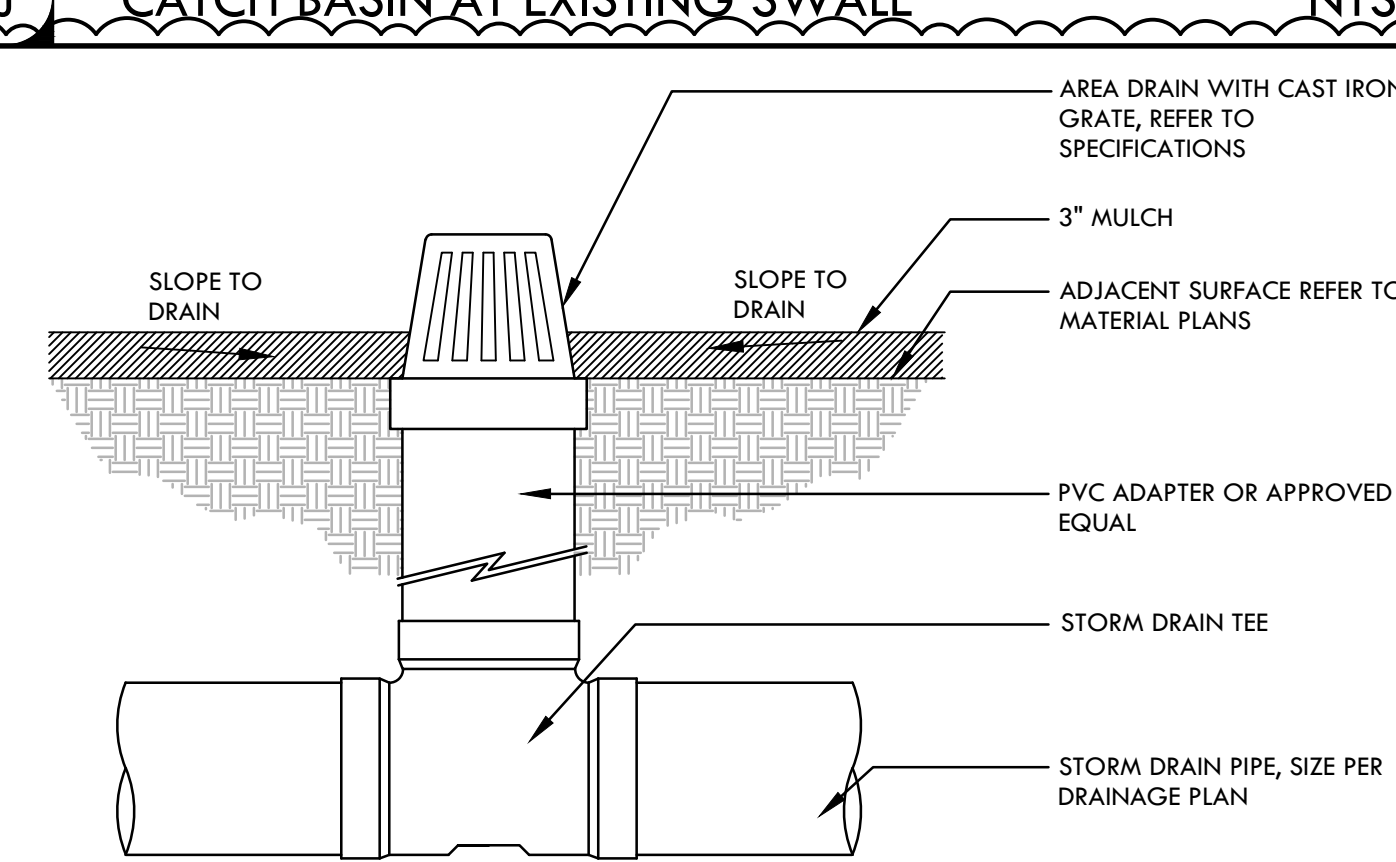


SECTION



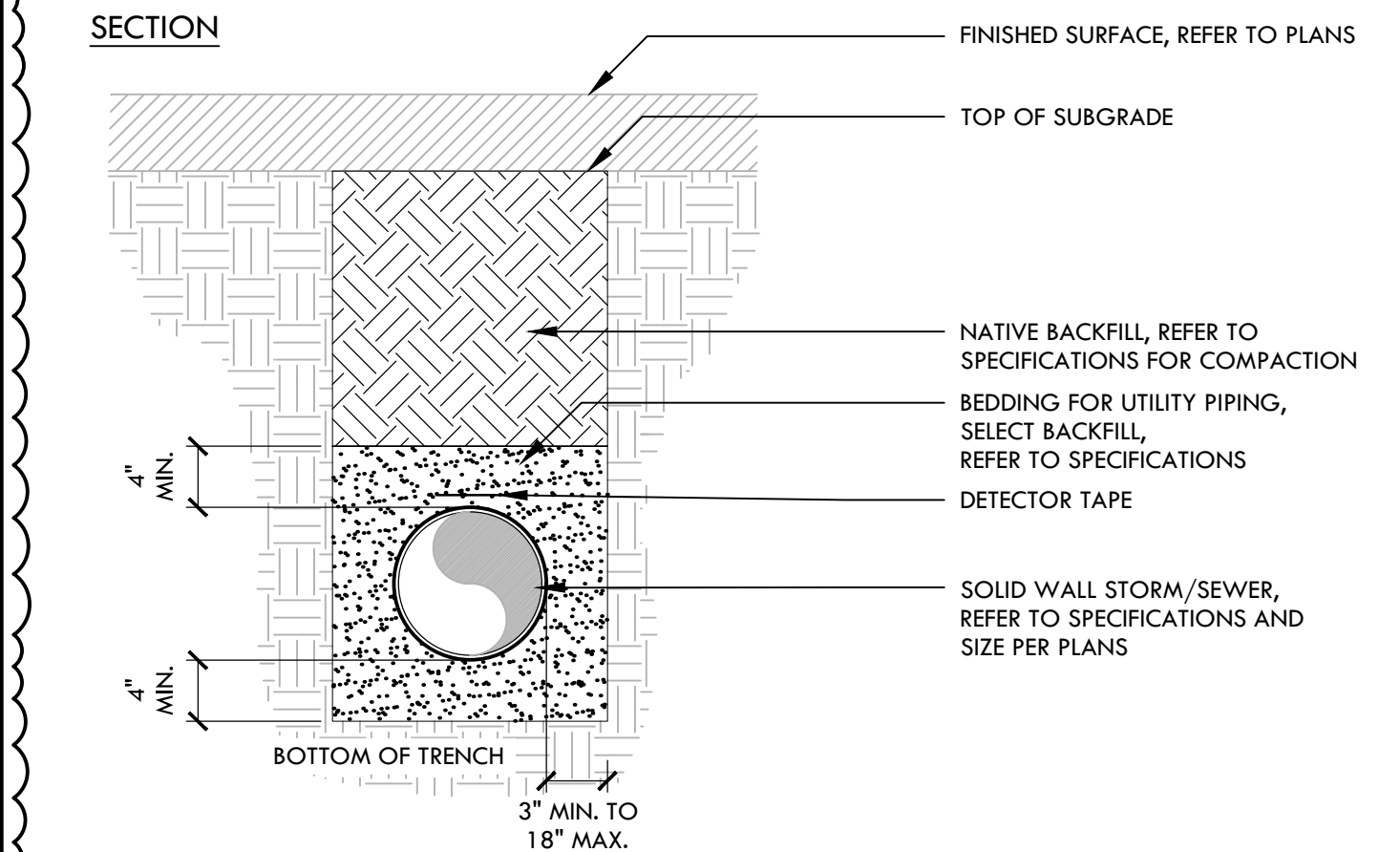
- NOTES:
1. SET BOX COVER TO TOP OF PERMEABLE ROCK BASE ELEVATION. VERIFY EXACT LOCATION AND RIM ELEVATION PRIOR TO INSTALLATION.
 2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
 3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
 4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT, REFER TO SPECIFICATIONS.
 5. DO NOT CUT A HOLE IN TURF FOR JUNCTION BOX.

CATCH BASIN AT EXISTING SWALE



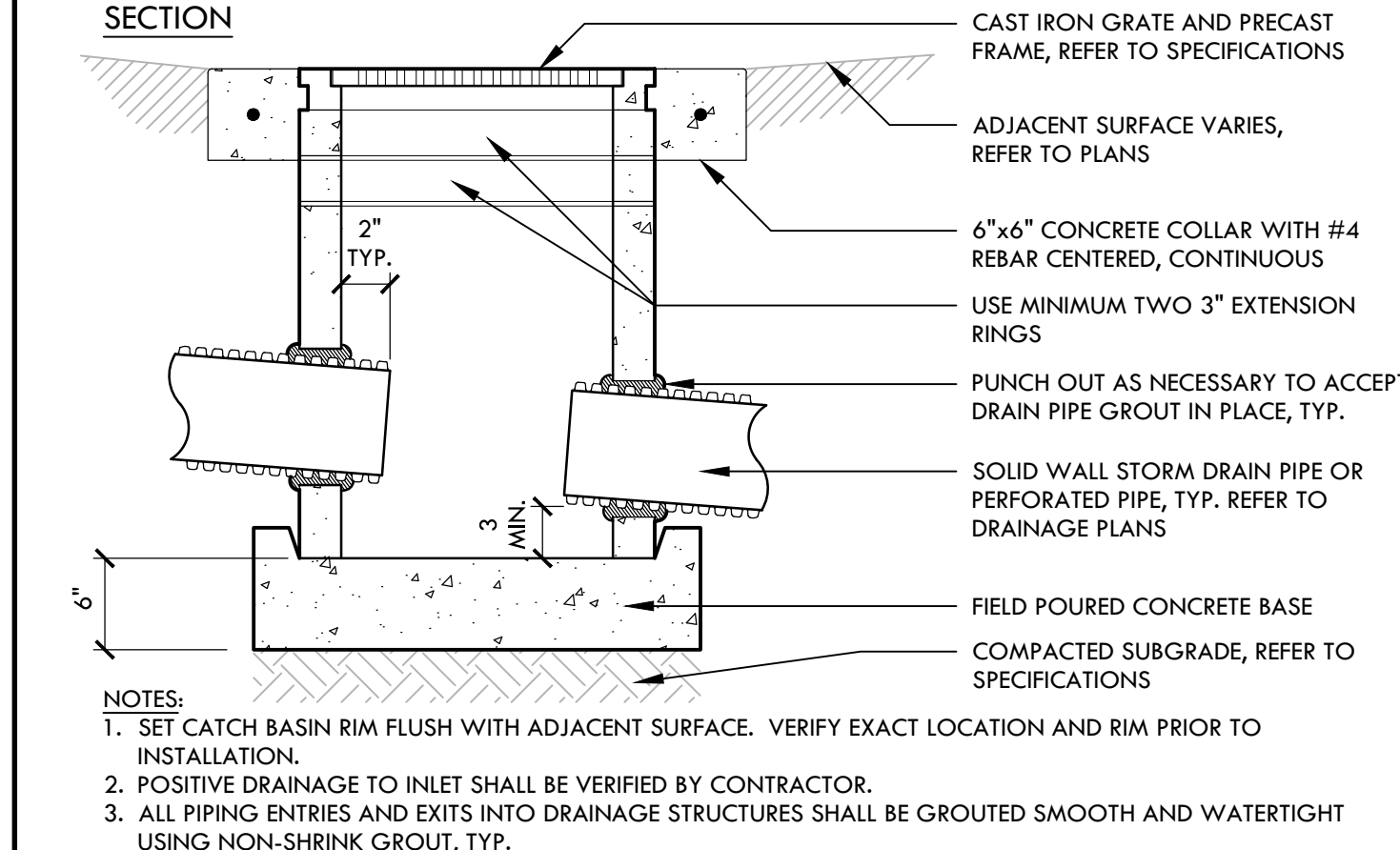
NOTE: CONTRACTOR TO PROVIDE NECESSARY PIPE REDUCER IF REQUIRED DUE TO STORM LINE SIZES INDICATED ON DRAINAGE PLAN.

SECTION



NOTE: CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS. SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL FOR STORM DRAINS.

SECTION



- NOTES:
1. SET CATCH BASIN RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
 2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
 3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
 4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT, REFER TO SPECIFICATIONS.
 5. ALL GRATES SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.
 6. FOR BASIN SIZE, RIM AND INVERT ELEVATIONS, REFER TO DRAINAGE PLAN.

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STAMP

REGISTERED PROFESSIONAL ENGINEER
KRYN CONWAY
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

BID SET

BID ADDENDUM

DATE

2/14/24

03/11/25

NO.

REVISIONS

DATE

03/11/25

DRAWN BY

CHECKED BY

VERDE

JWV

DATE ISSUED

SCALE

12/10/2024

NTS

VDI PROJ. NO.

SSFUSD PROJ. NO.

2320400

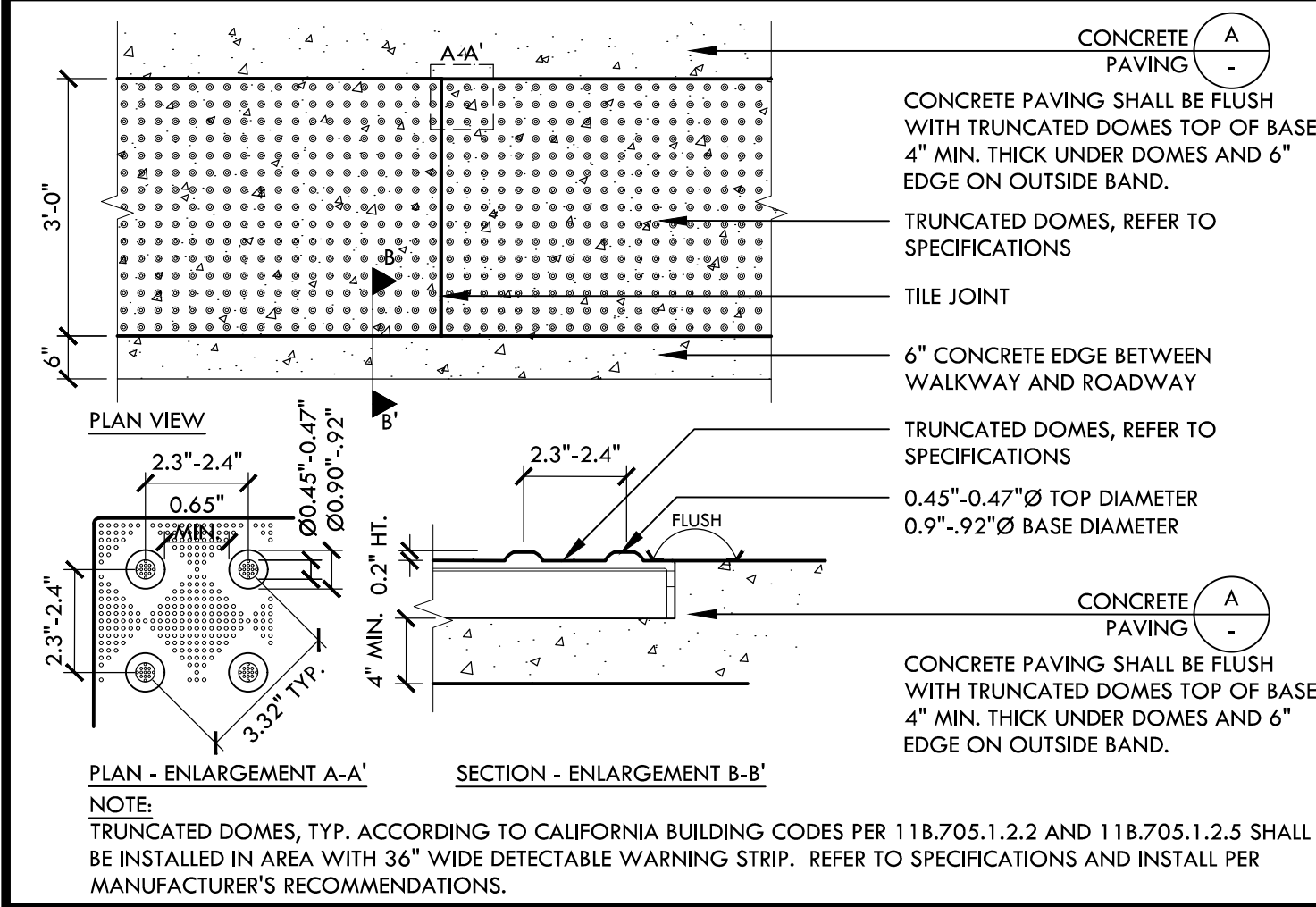
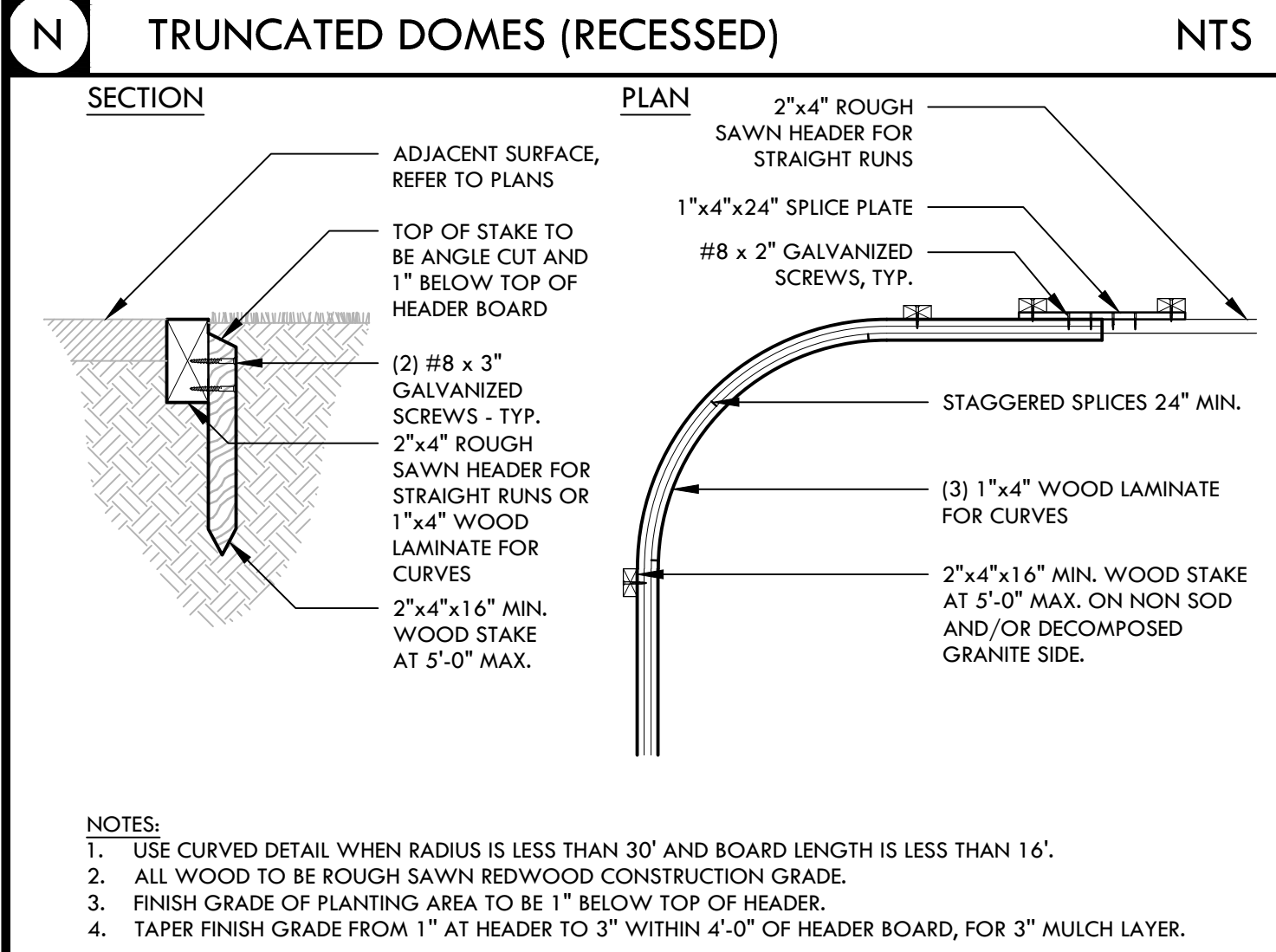
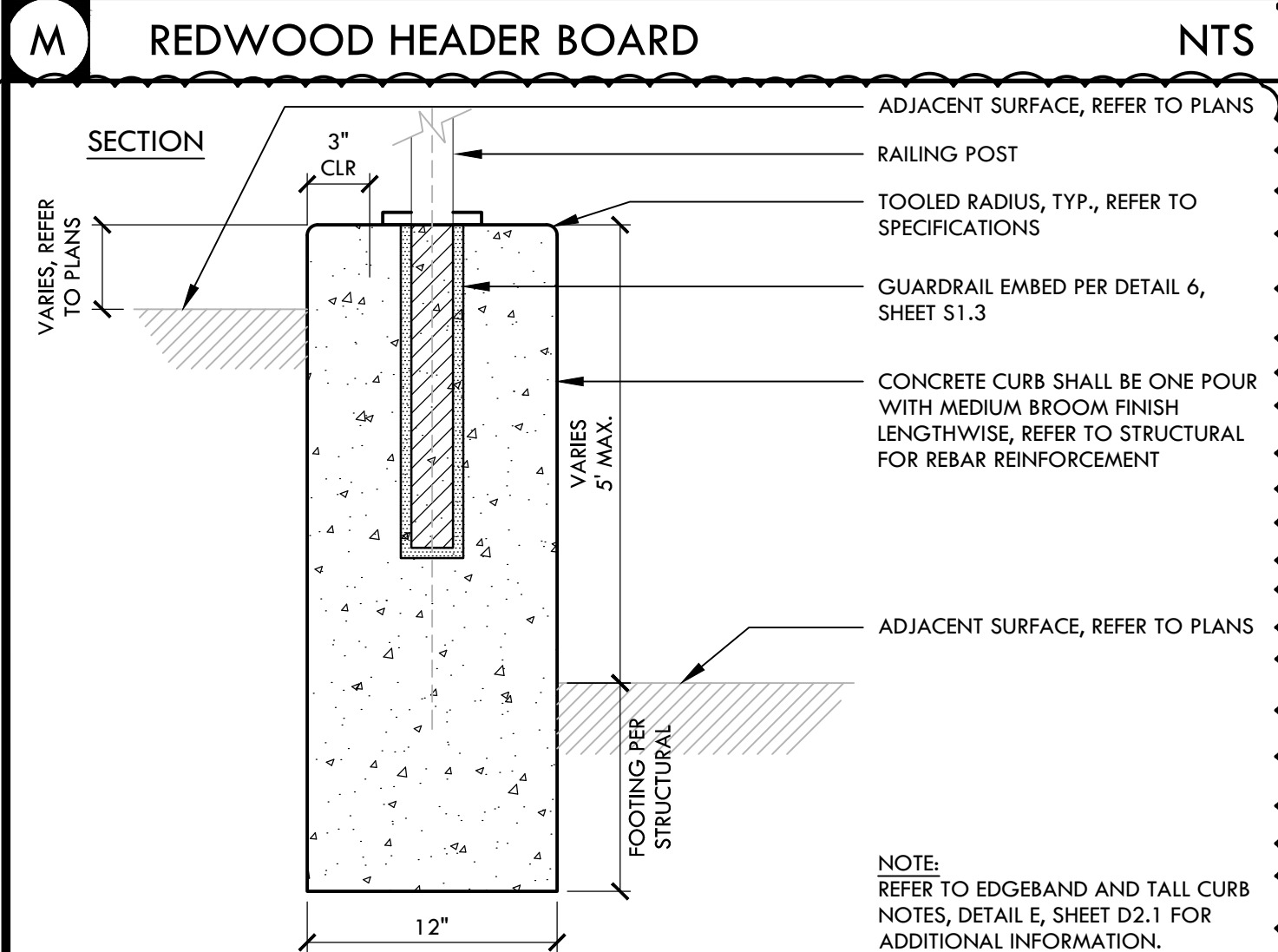
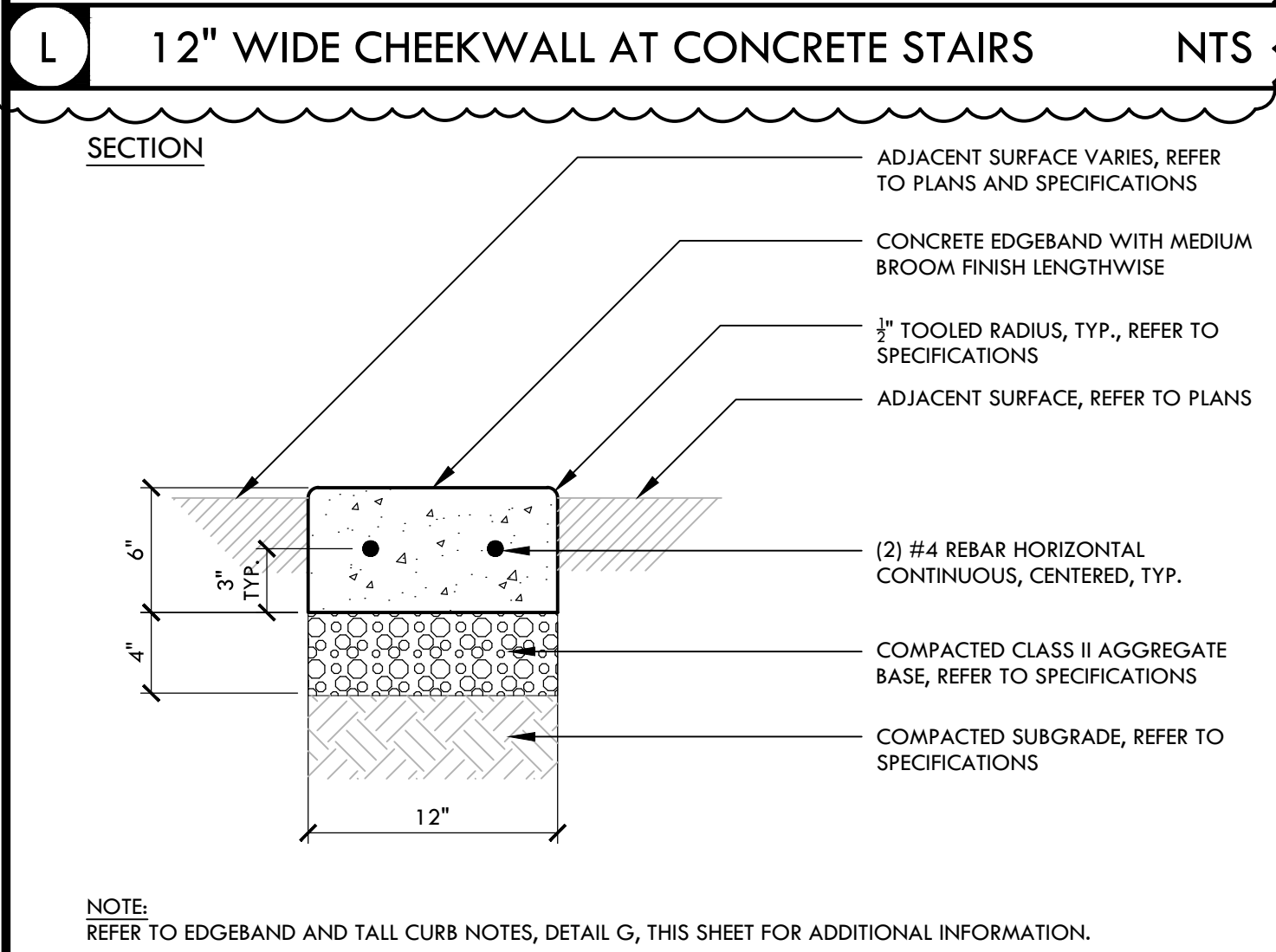
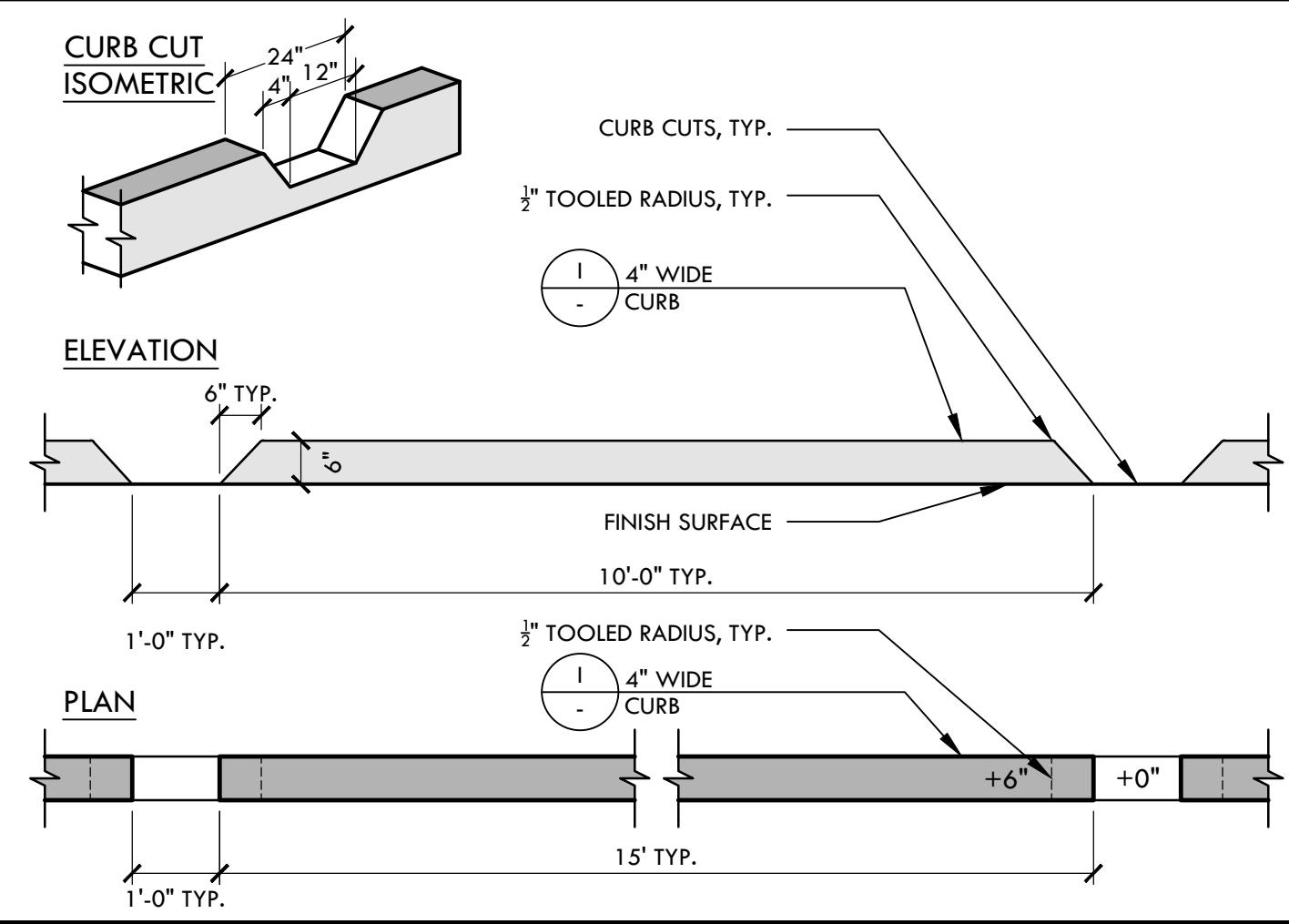
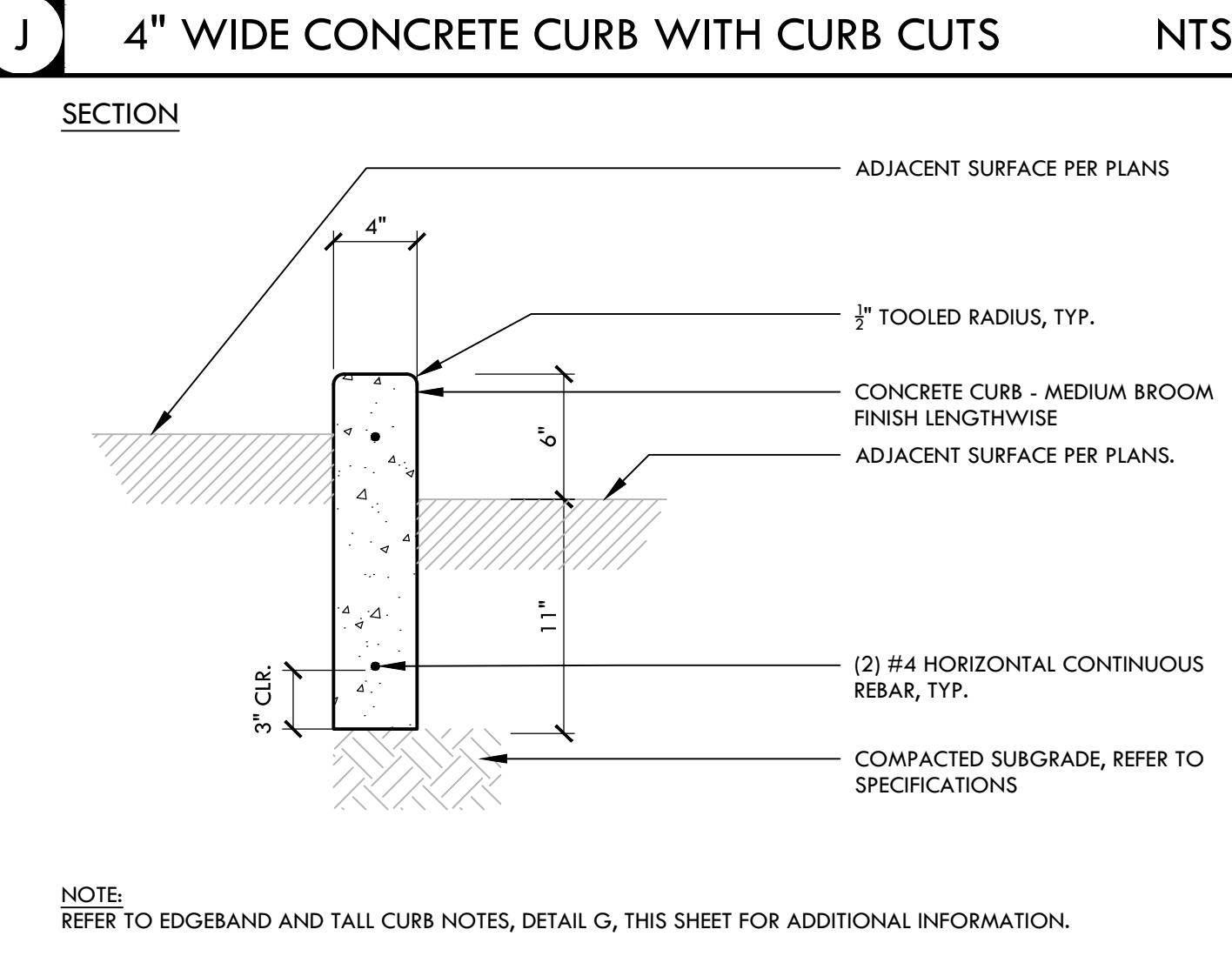
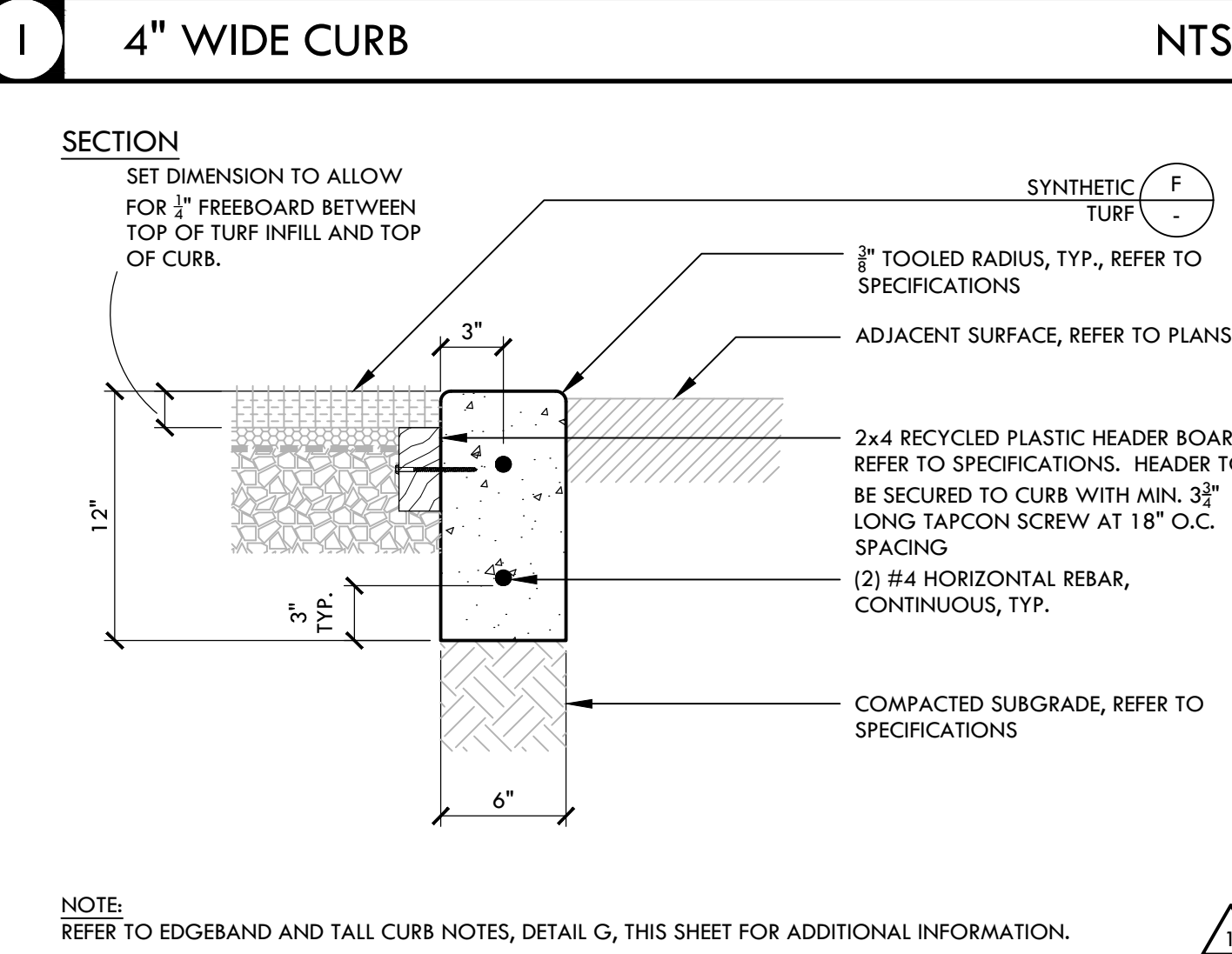
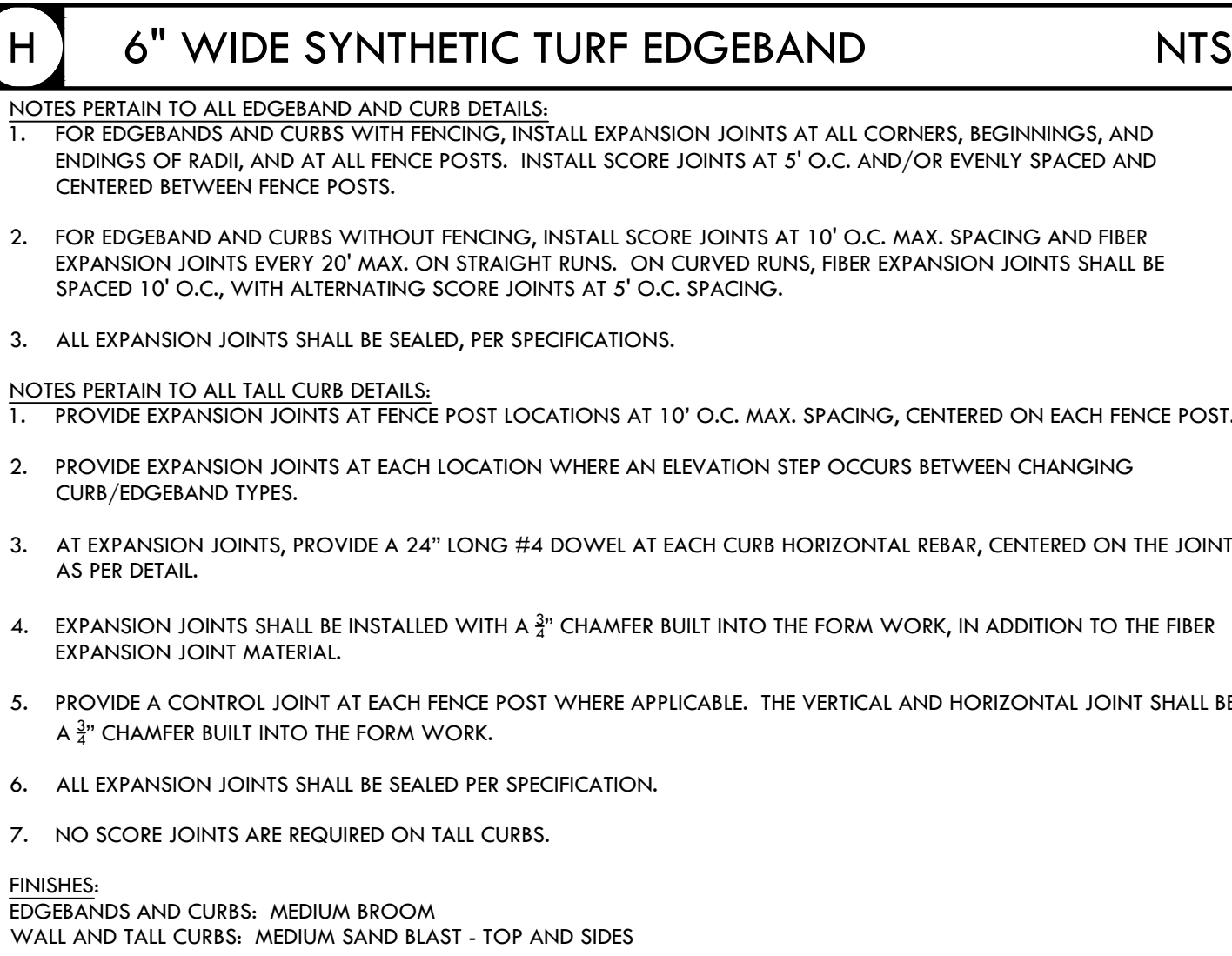
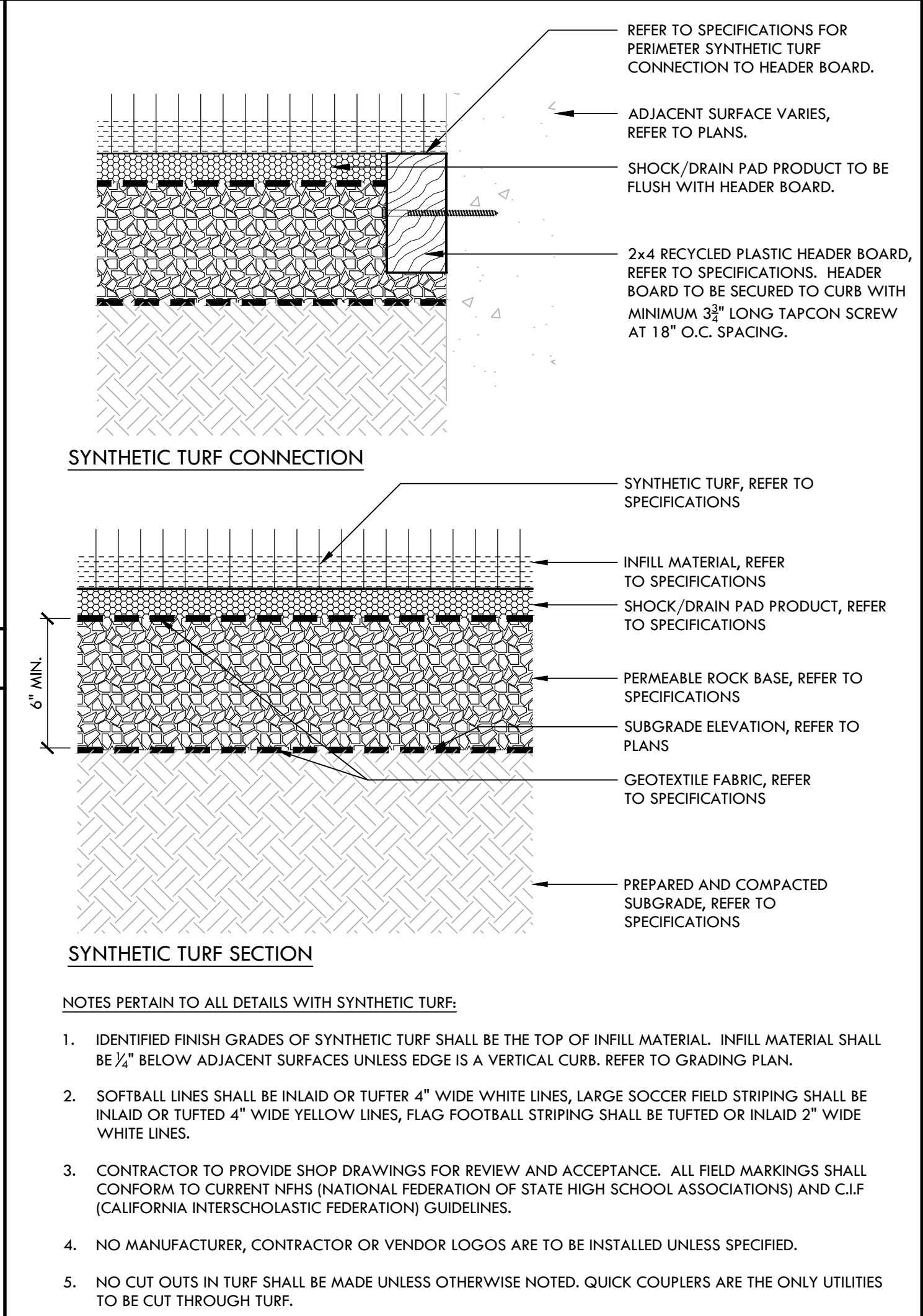
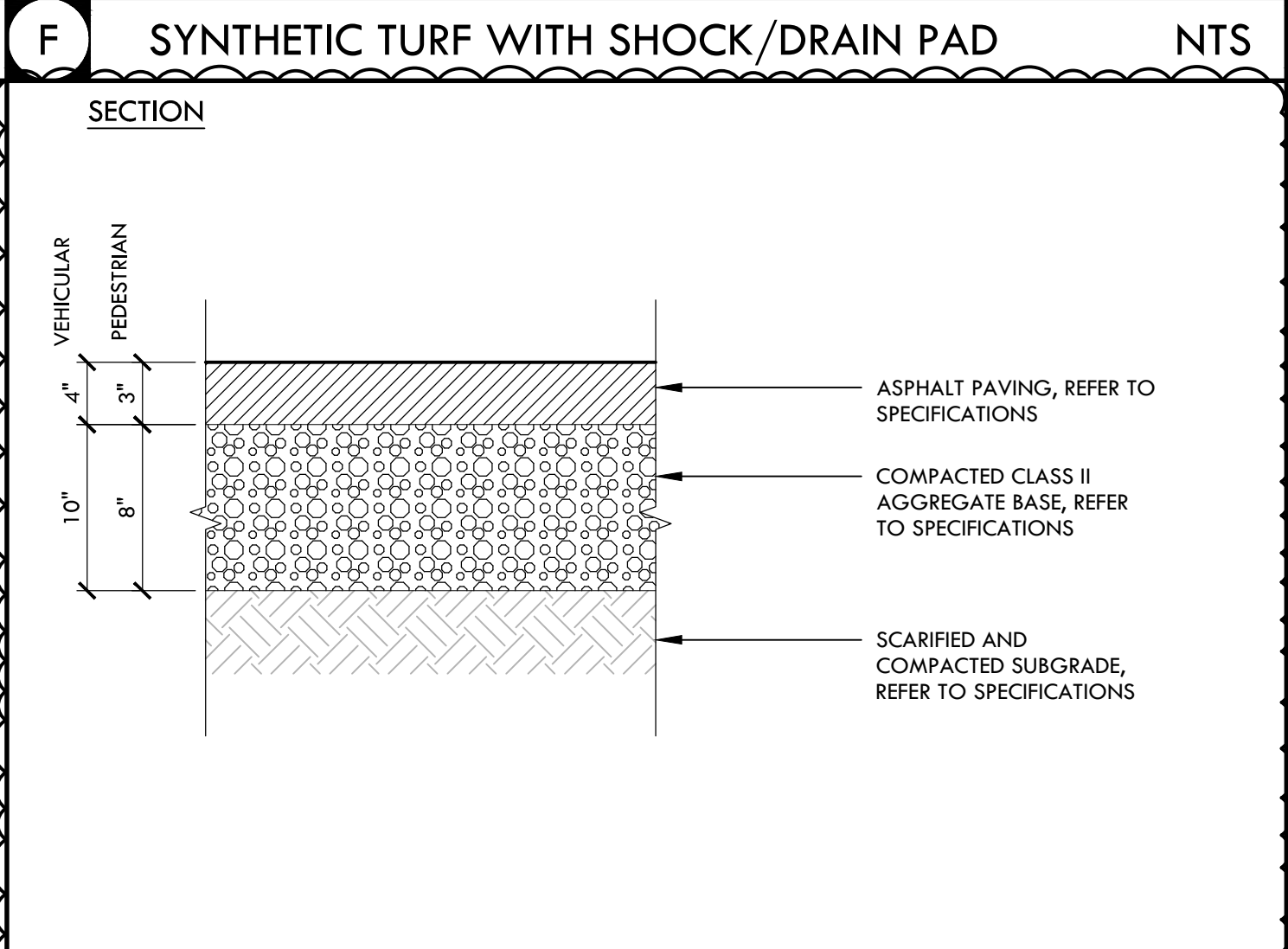
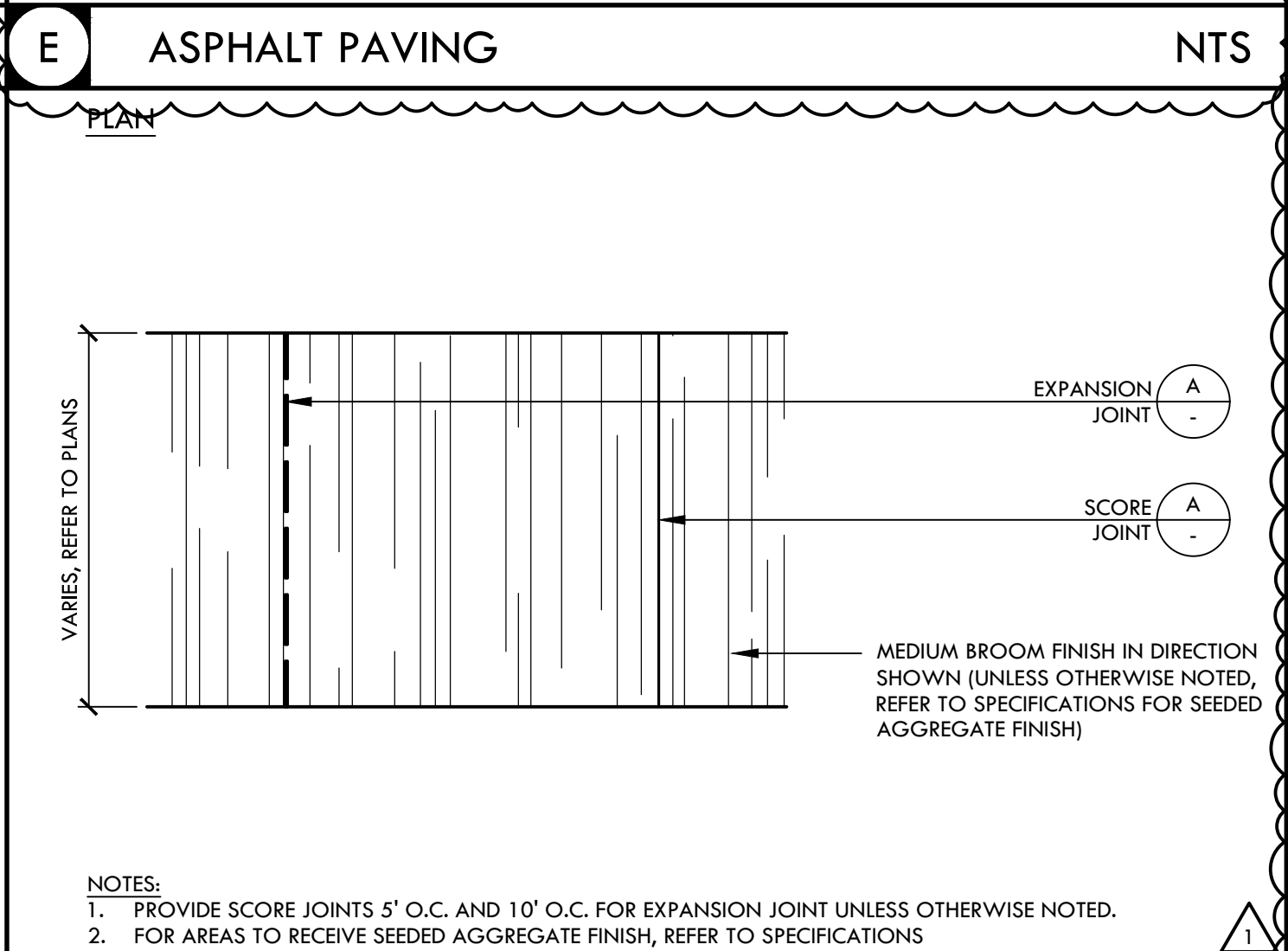
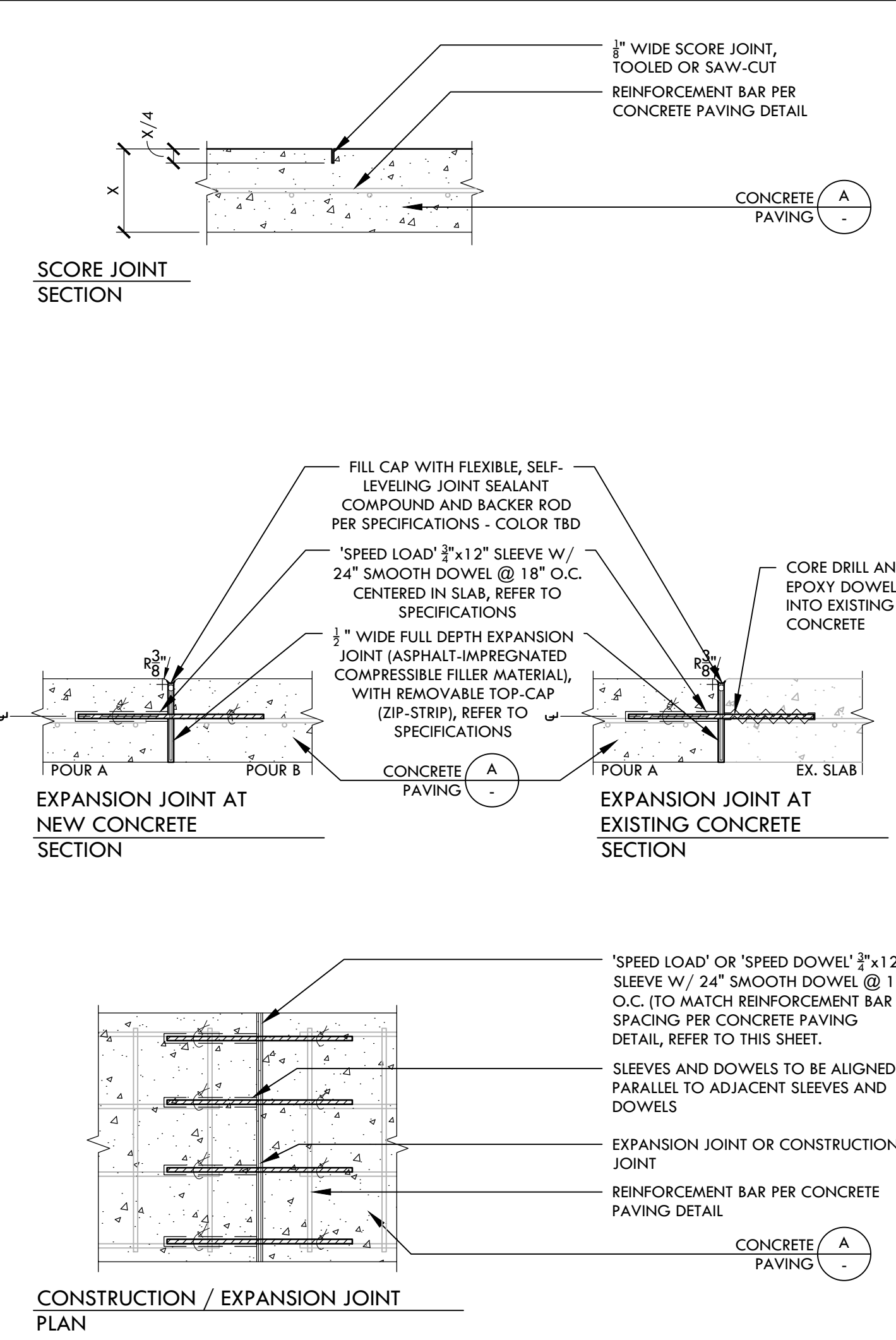
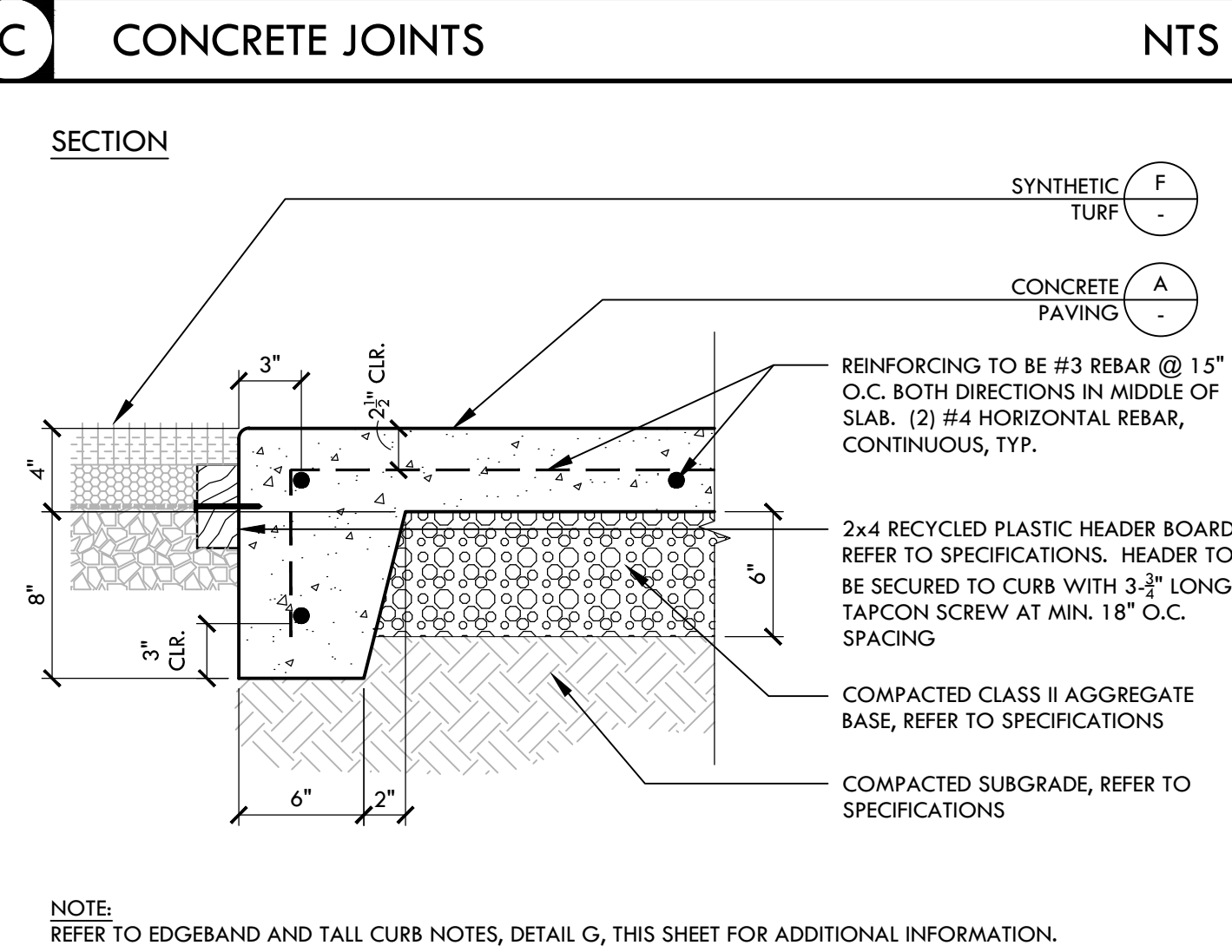
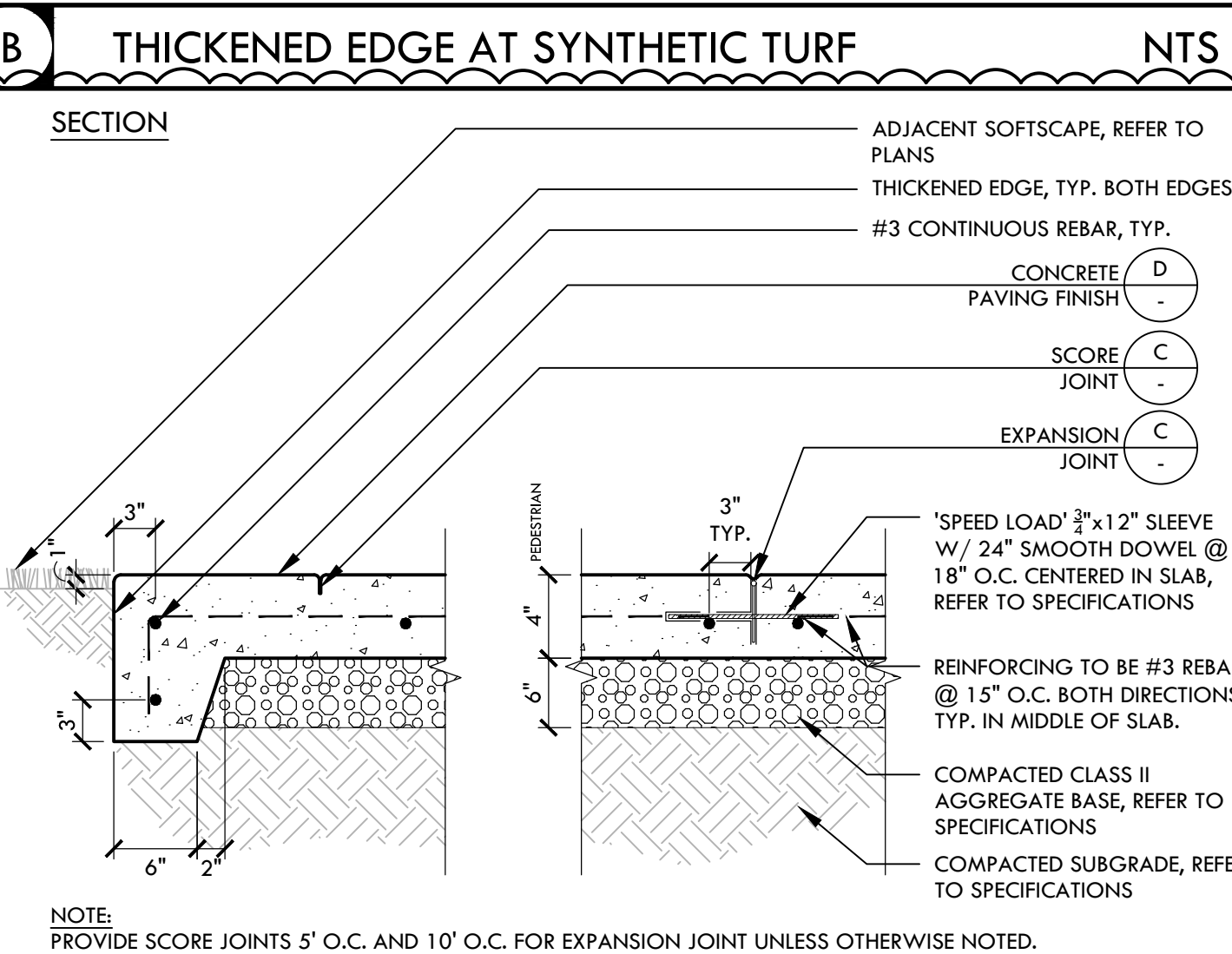
025-960

SHEET NO.

D1.0

CONSTRUCTION DETAILS

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www.VerdeDesigninc.com

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

STAMP

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
BID SET	2/14/24
BID ADDENDUM	03/11/25

NO.	REVISIONS	DATE
1	BID ADDENDUM	03/11/25

DATE ISSUED	SCALE
12/10/2024	NTS

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

SHEET NO.

D2.0

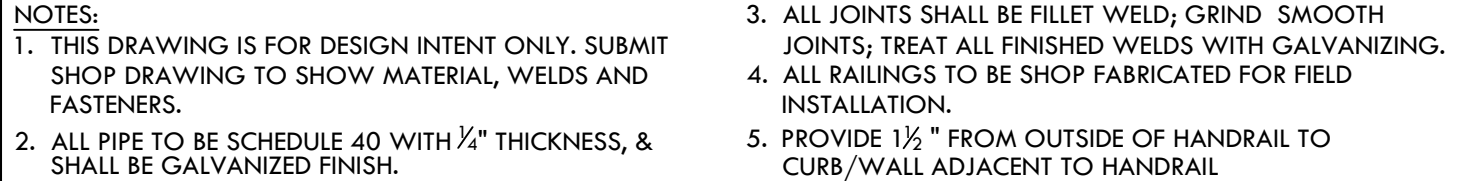
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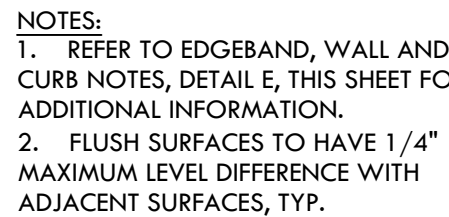
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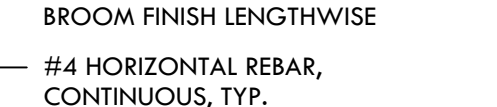
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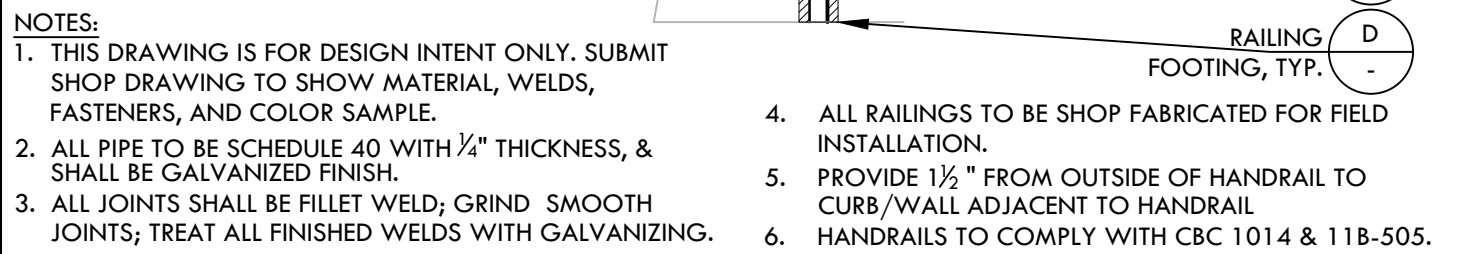
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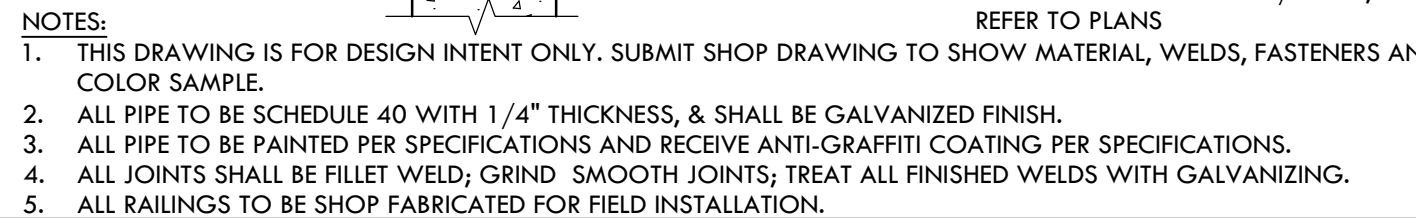
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NTS



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PROJECT NAME

PROJECT ADDRESS

2570 WESTBOROUGH BLVD
SOUTH SAN FRANCISCO
CA 94080

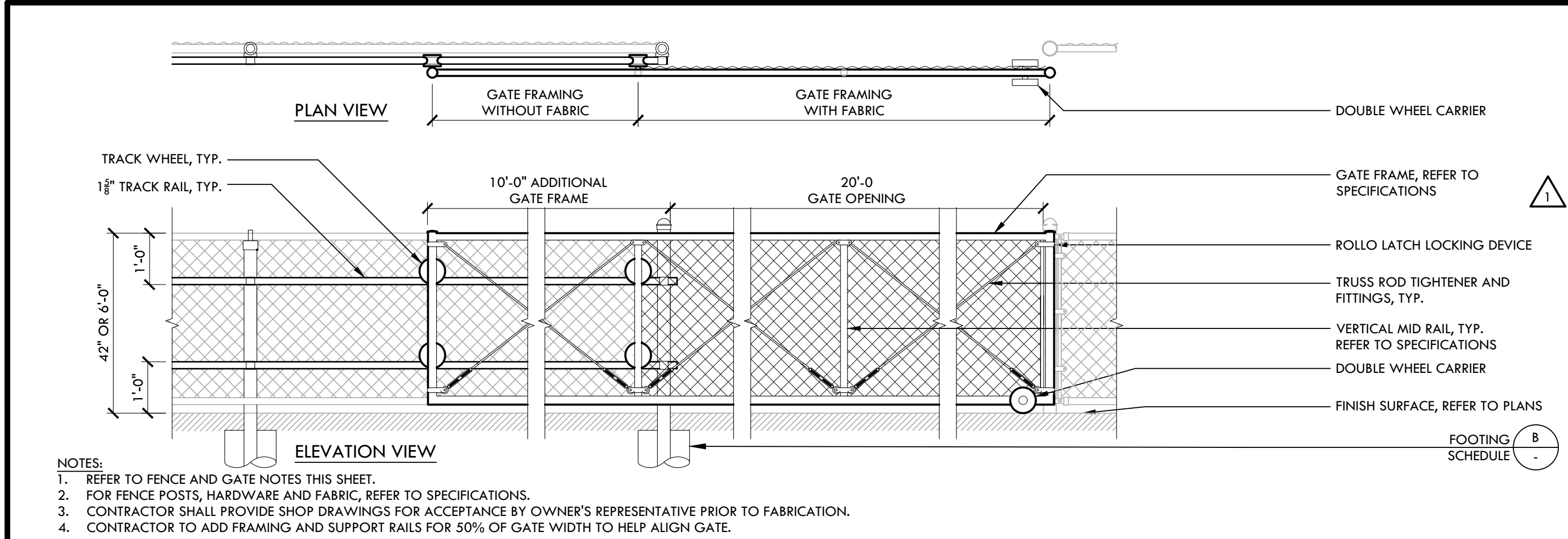
NO.	REVISIONS	DATE
1	BID ADDENDUM	03/11/20

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

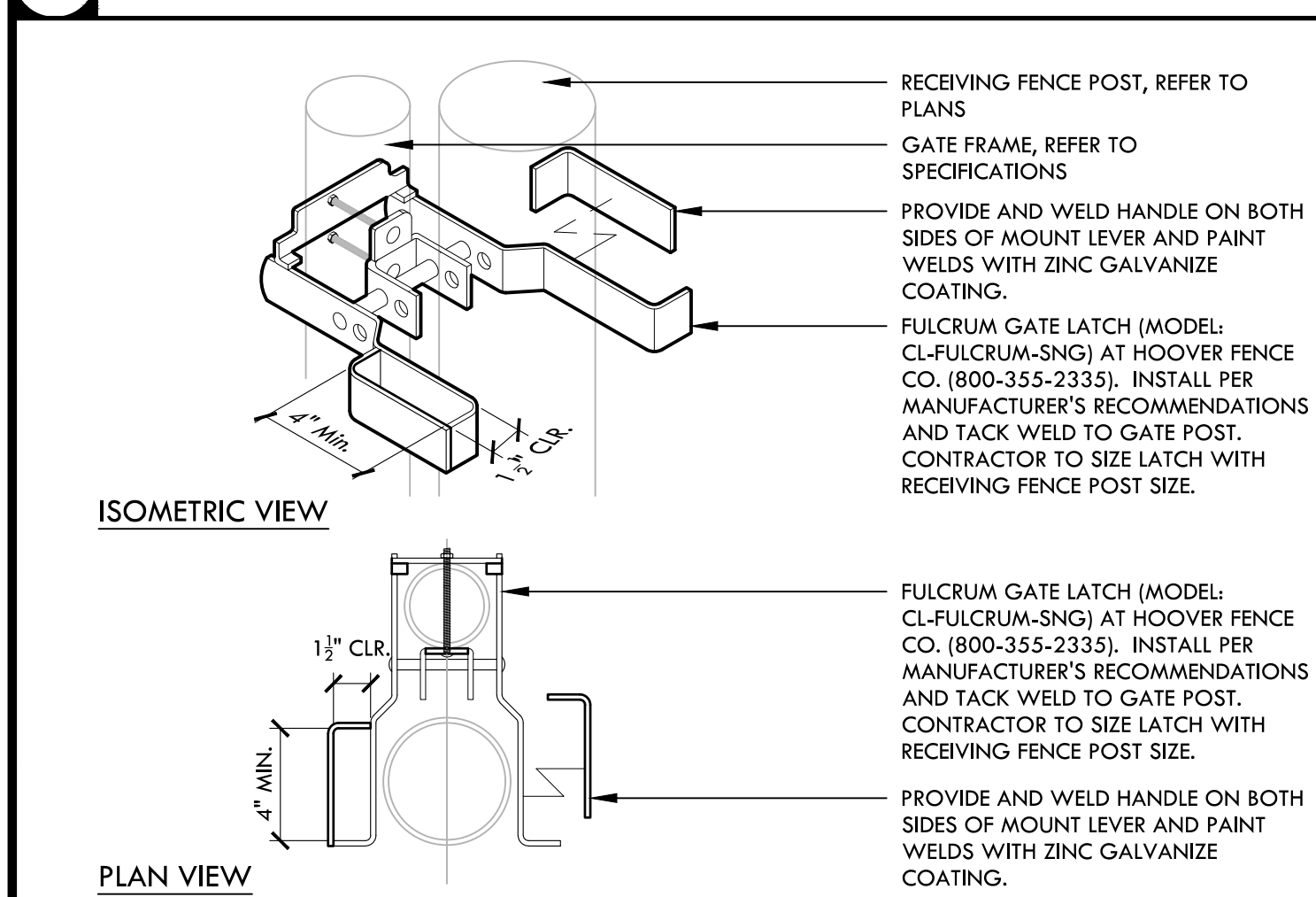
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CONSTRUCTION DETAILS

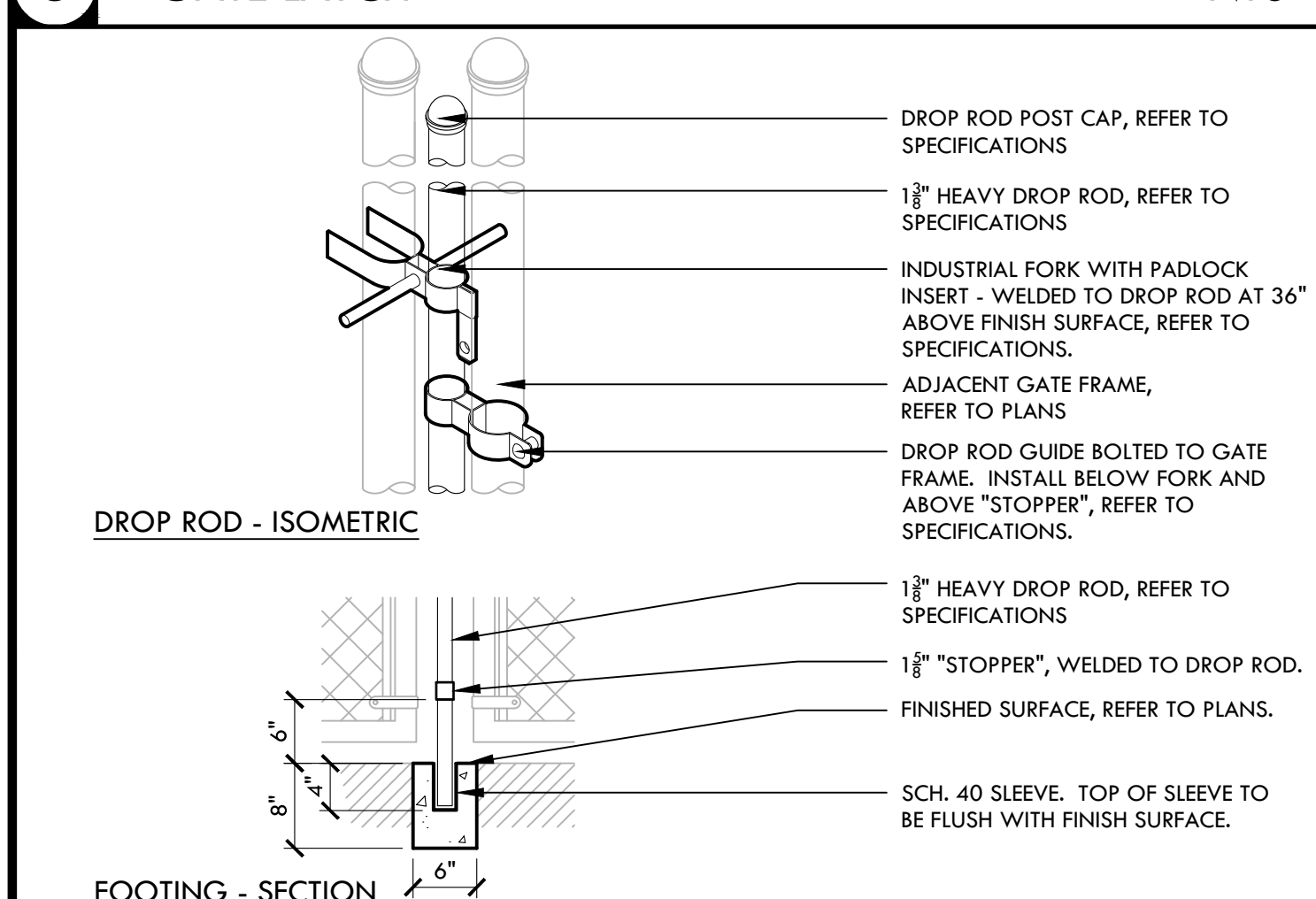
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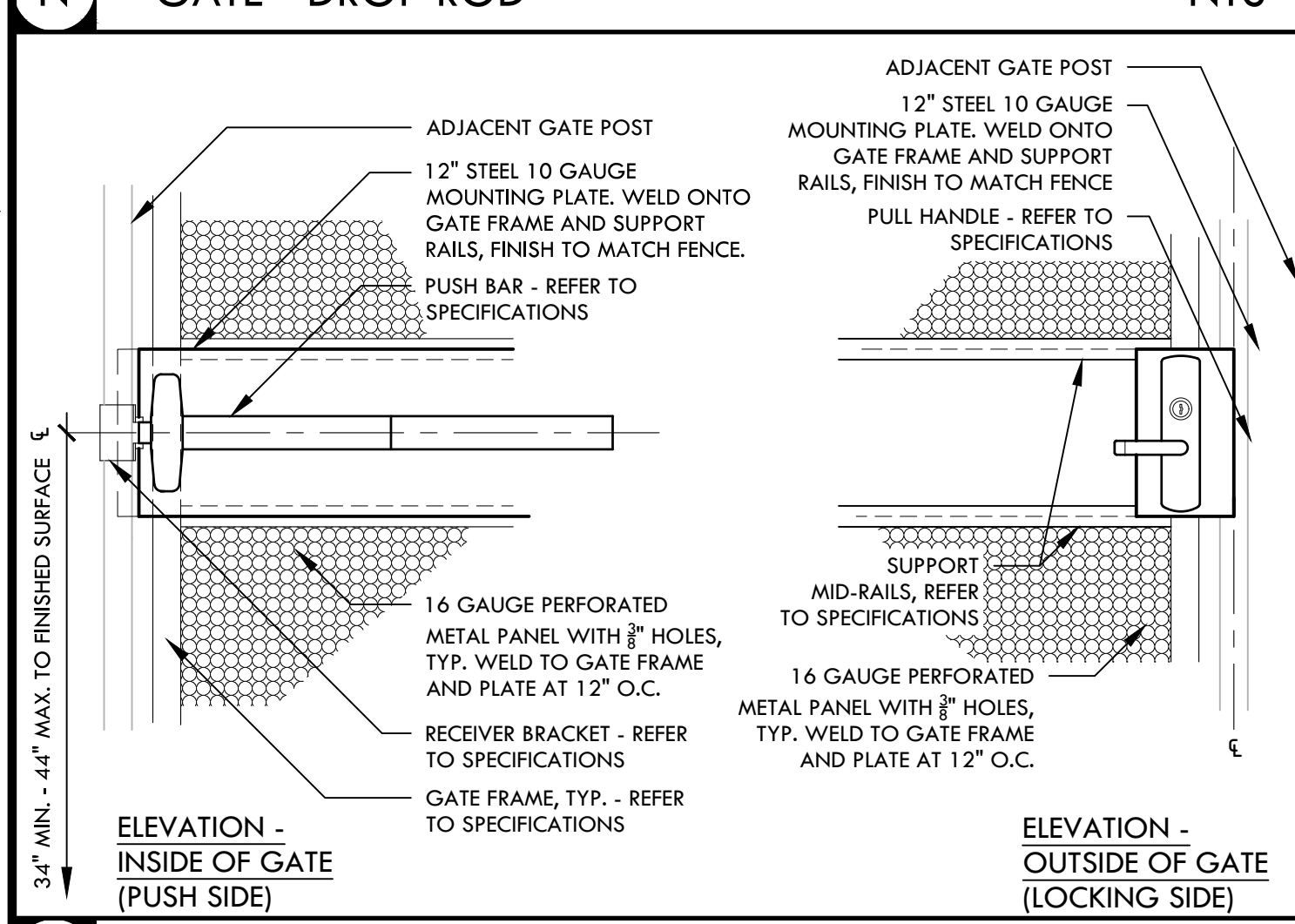
L 42" TALL X 20' WIDE CHAIN LINK SLIDING GATE NTS



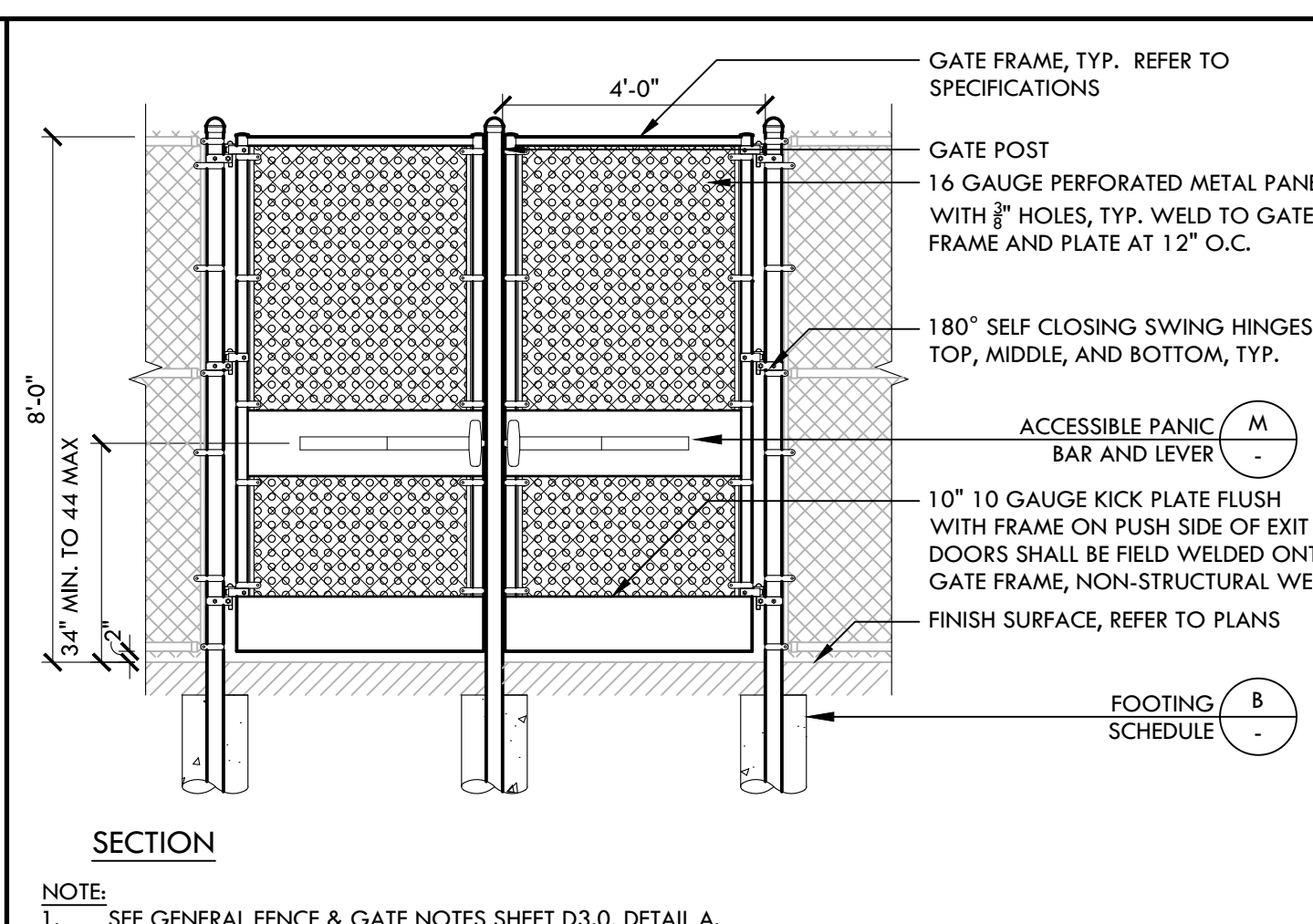
O GATE LATCH NTS



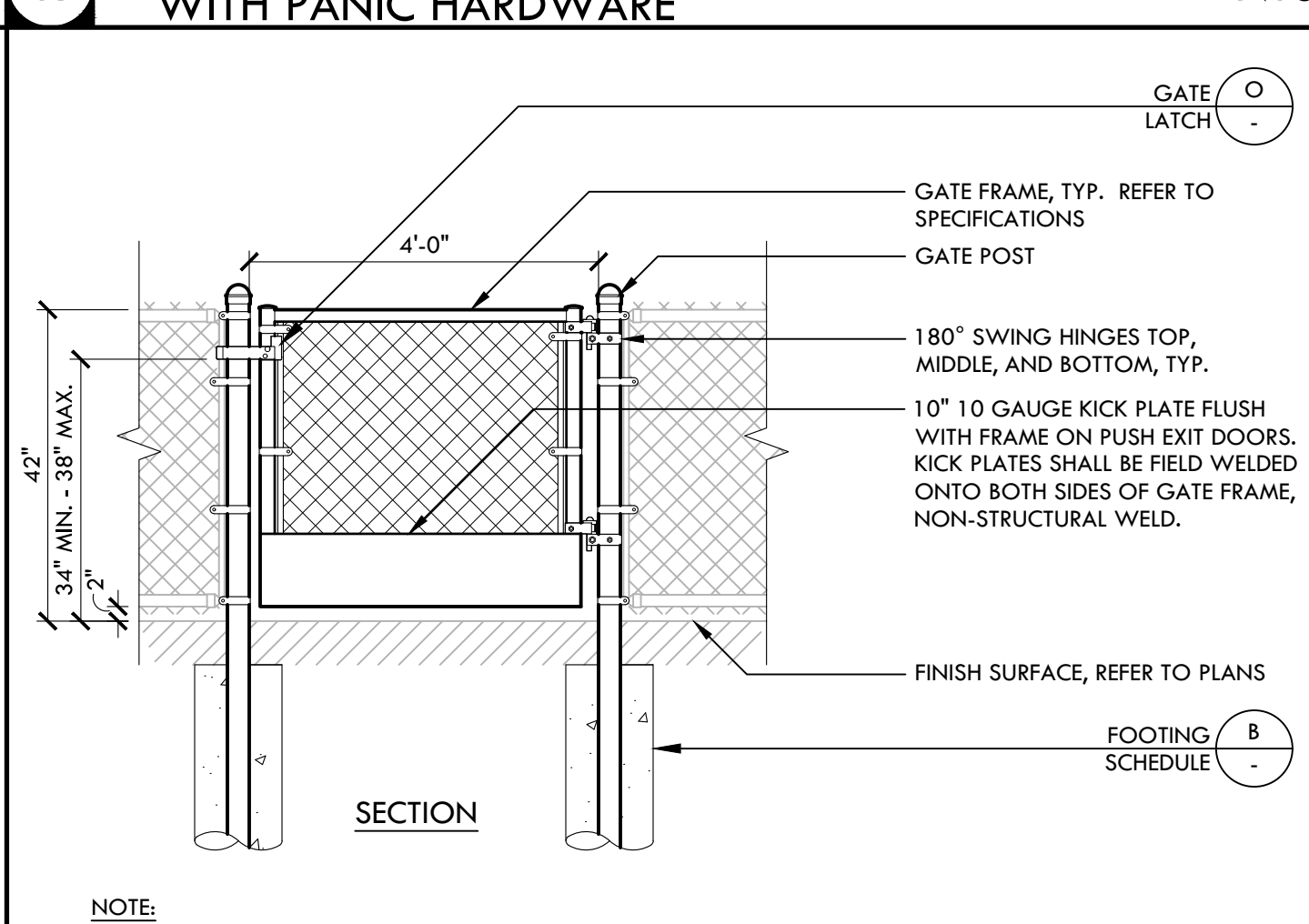
N GATE - DROP ROD NTS



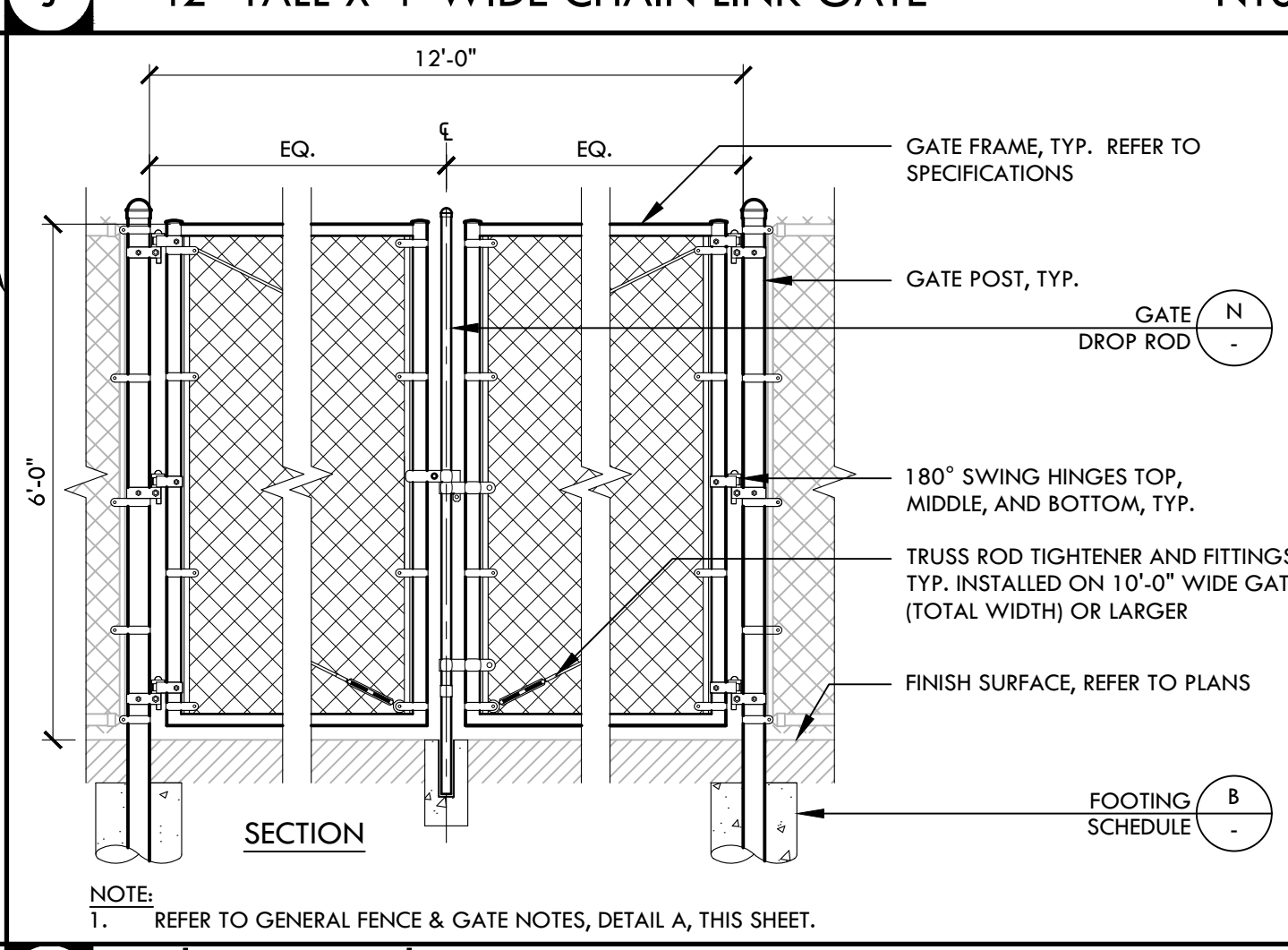
M ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE NTS



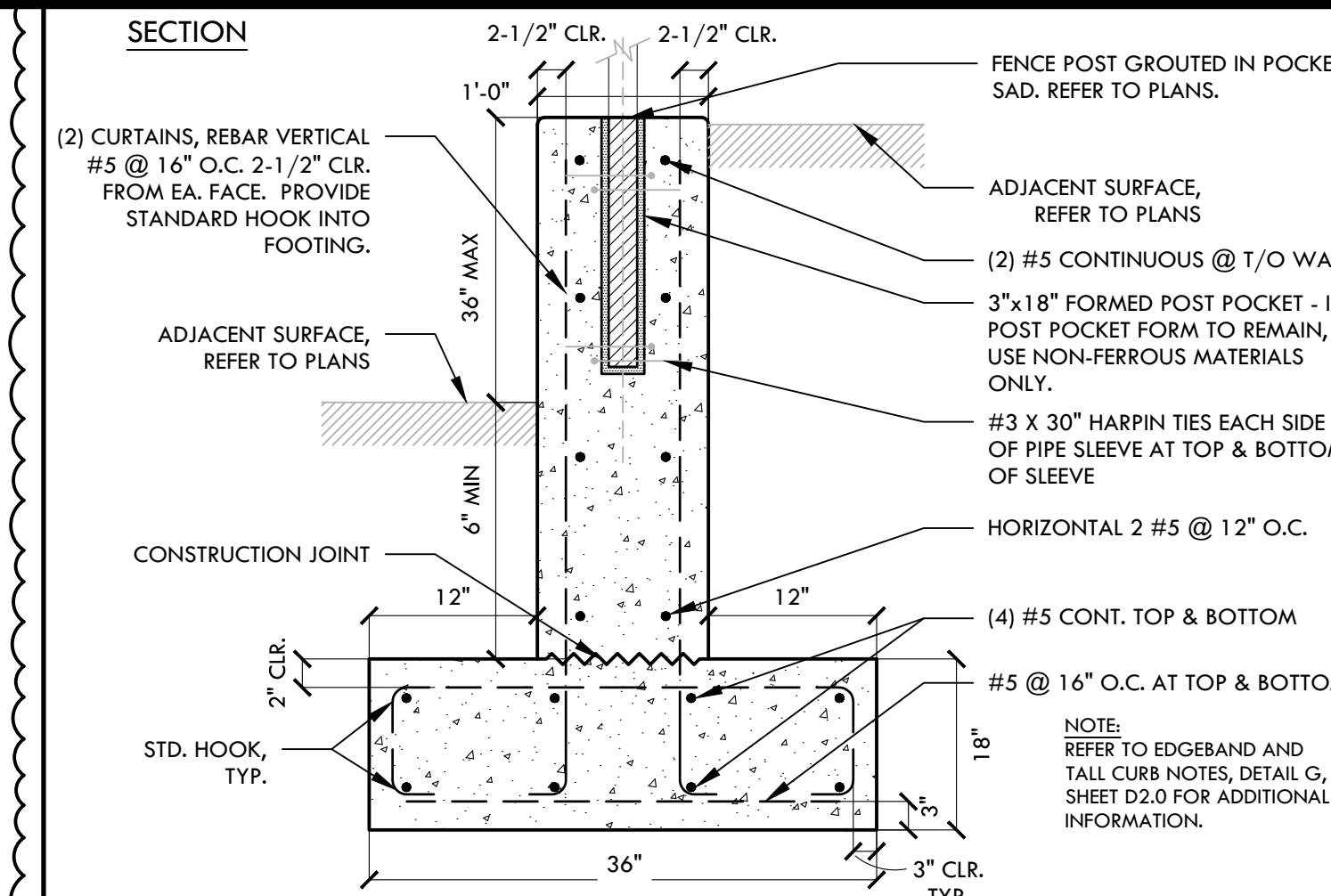
K 8' TALL X 4' DOUBLE SWING GATE WITH PANIC HARDWARE NTS



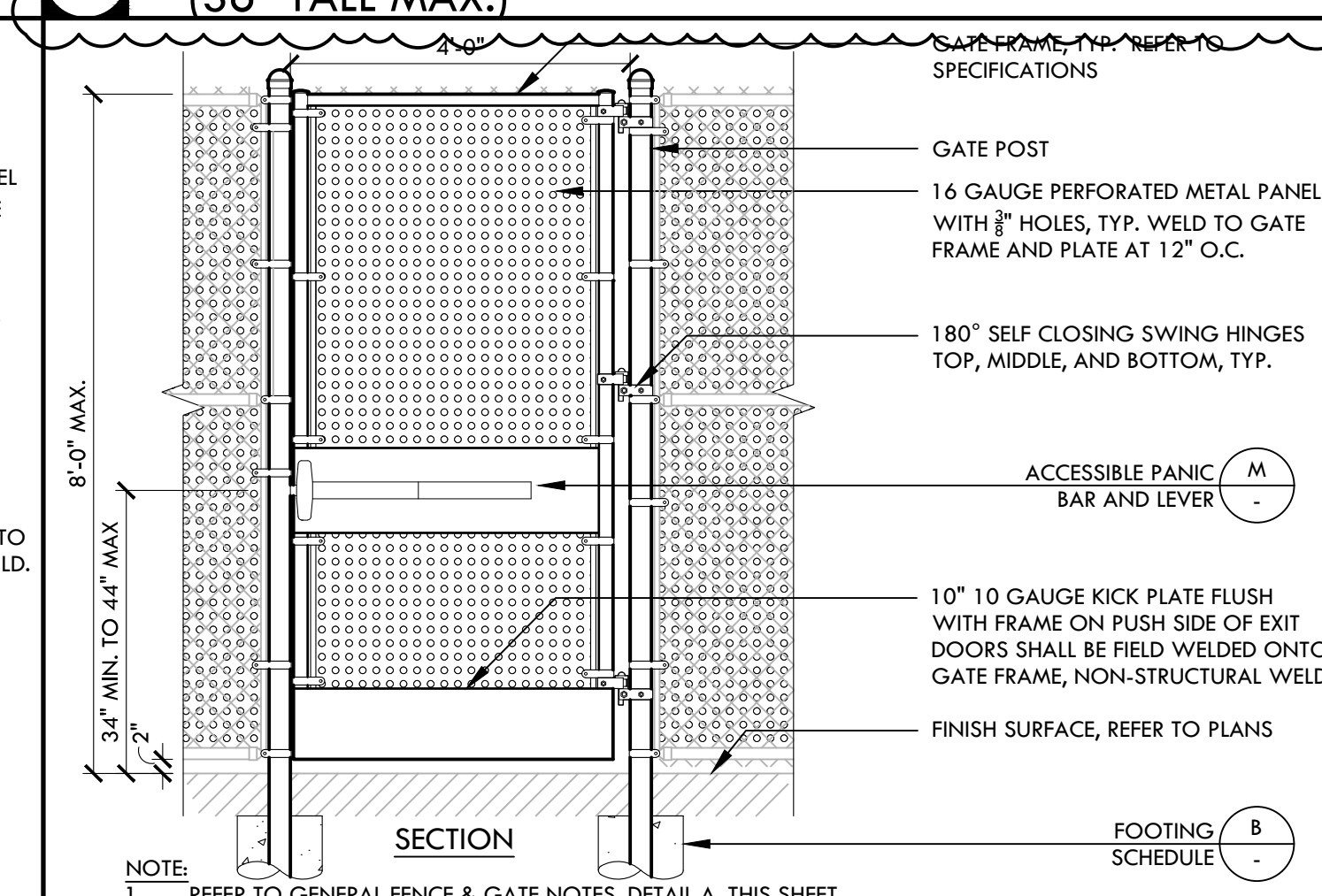
J 42" TALL X 4' WIDE CHAIN LINK GATE NTS



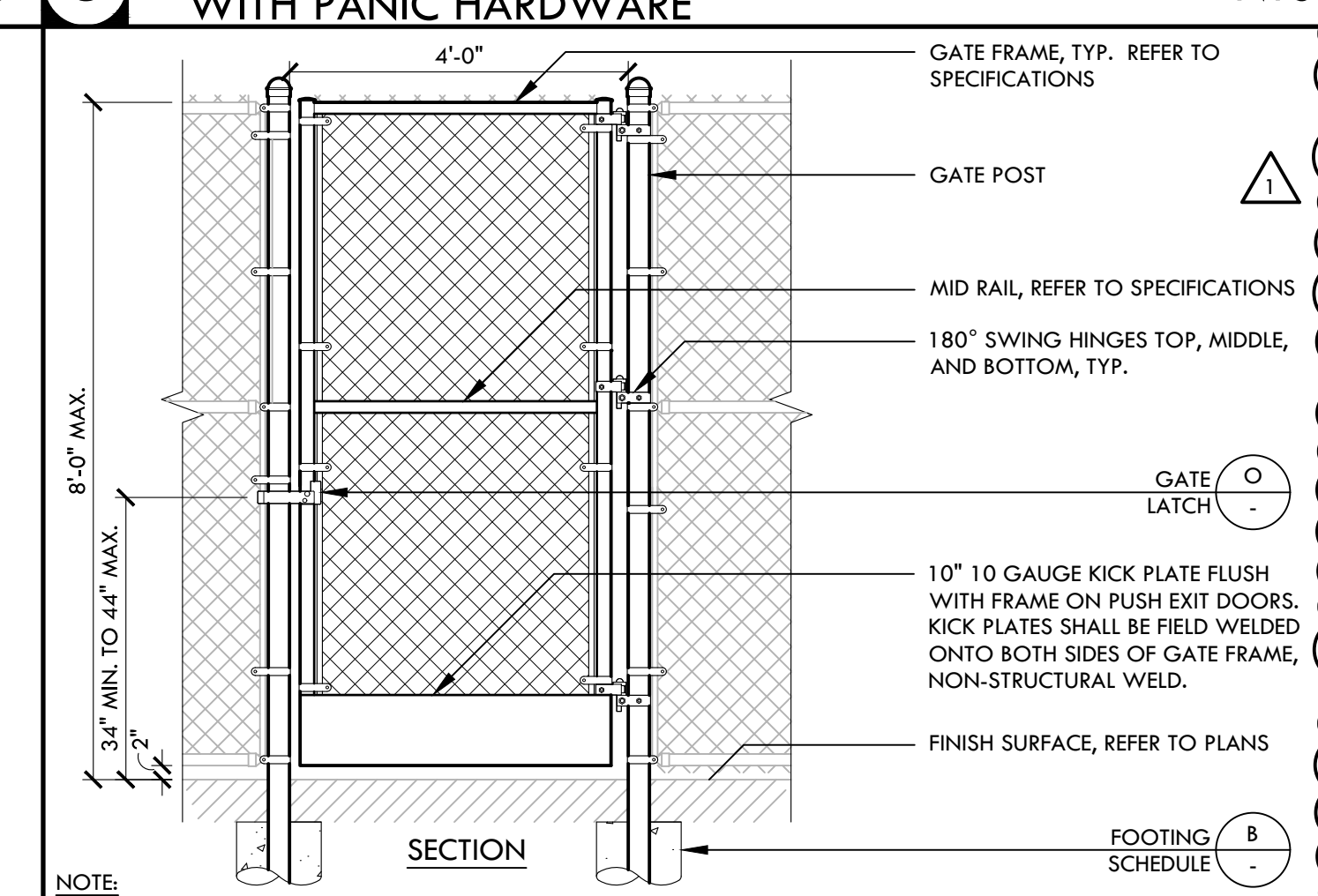
I 6' TALL X 12' WIDE CHAIN LINK DOUBLE SWING GATE NTS



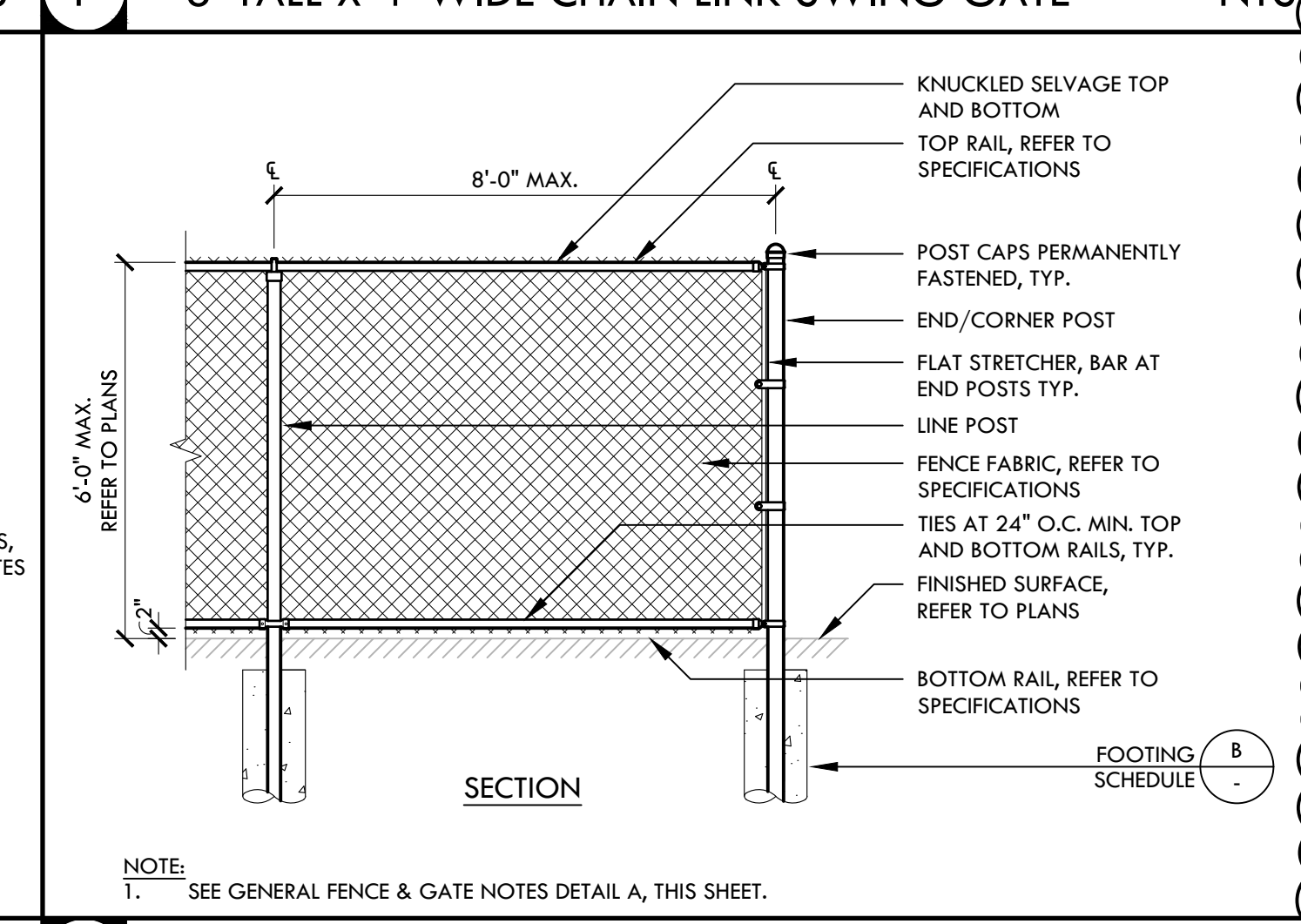
H 12" WIDE TALL CURB WITH FENCE (36" TALL MAX.) NTS



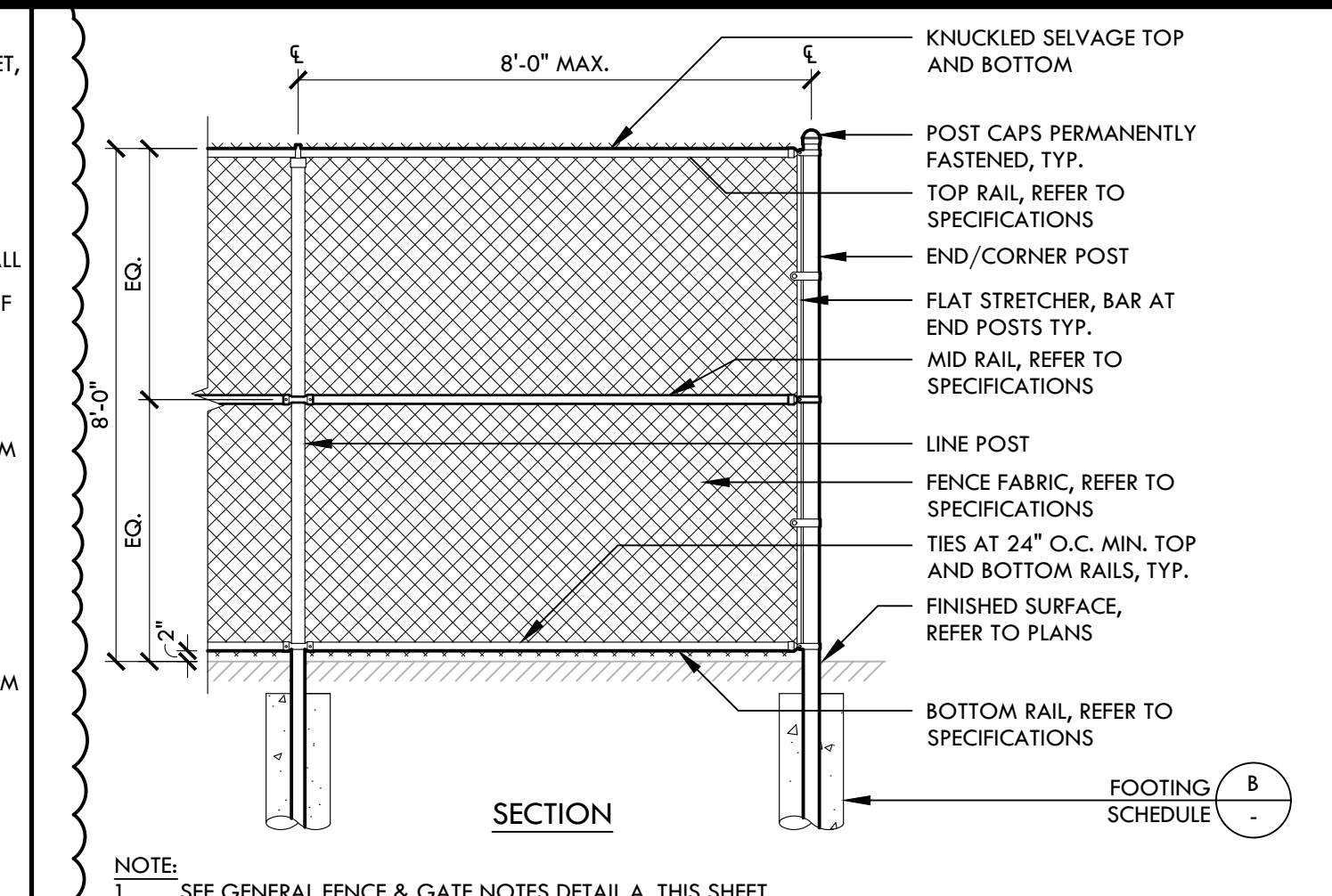
G 8' TALL X 4' WIDE CHAIN LINK SWING GATE WITH PANIC HARDWARE NTS



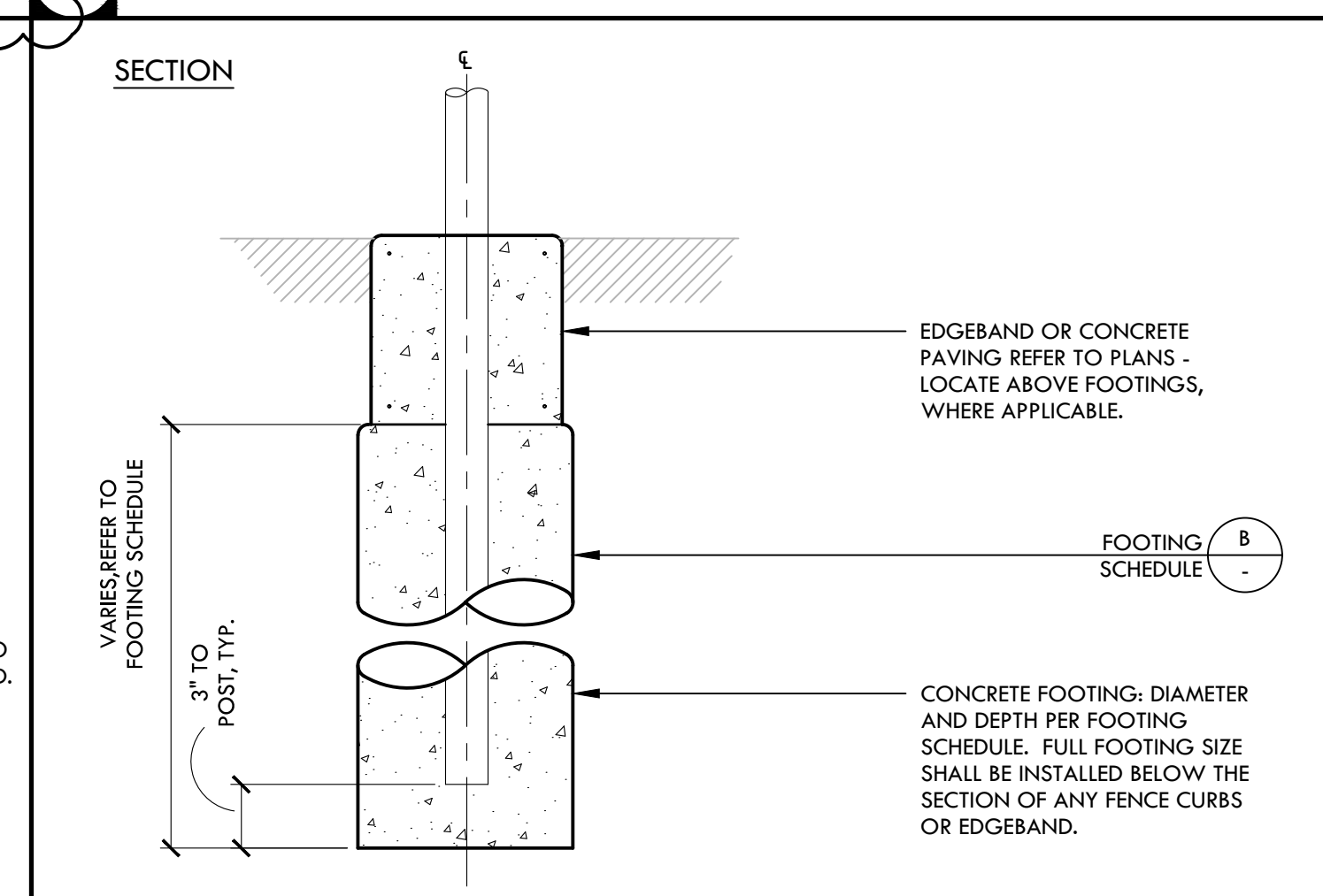
F 8' TALL X 4' WIDE CHAIN LINK SWING GATE NTS



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 3'-0" DEEP
CHAIN LINK FENCE	6'	2-1/2" DIA. STD.	3" DIA. STD.	16" DIA. X 3'-0" DEEP
CHAIN LINK FENCE	8'	2-1/2" DIA. STD.	3" DIA. STD.	16" DIA. X 3'-0" DEEP
BACKSTOP	10'	MANUFACTURED PRODUCT		REFER TO STRUCTURAL
SAFETY NET SYSTEM	25'	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	42" x 24'	3" DIA. STD.	16" 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

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 EDGEBAND 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 INLINE 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.
 - REFER TO 32 31 13 - 2.04 FOR CHAIN LINK FENCING FABRICATION SPECIFICATIONS.

A GATE AND FENCE NOTES NTS

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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
BID SET	2/14/24
BID ADDENDUM	03/11/25
NO.	REVISIONS
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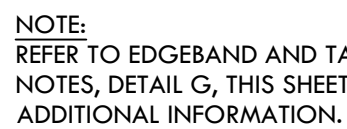
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JW	JW
DATE ISSUED	SCALE
12/10/2024	NTS
VD PROJ. NO.	SSFSUD PROJ. NO.
2320400	025-960
SHEET NO.	

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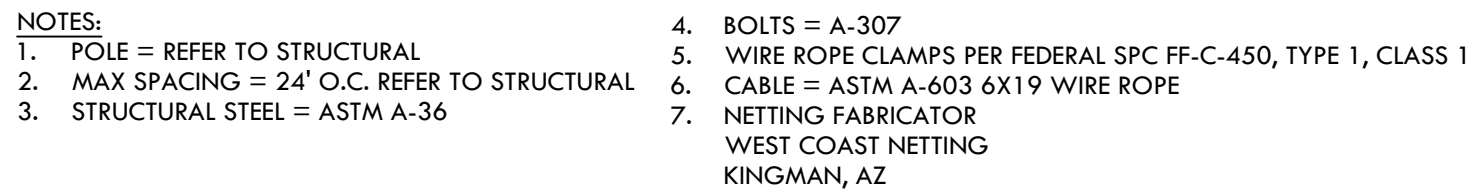
CONSTRUCTION DETAILS



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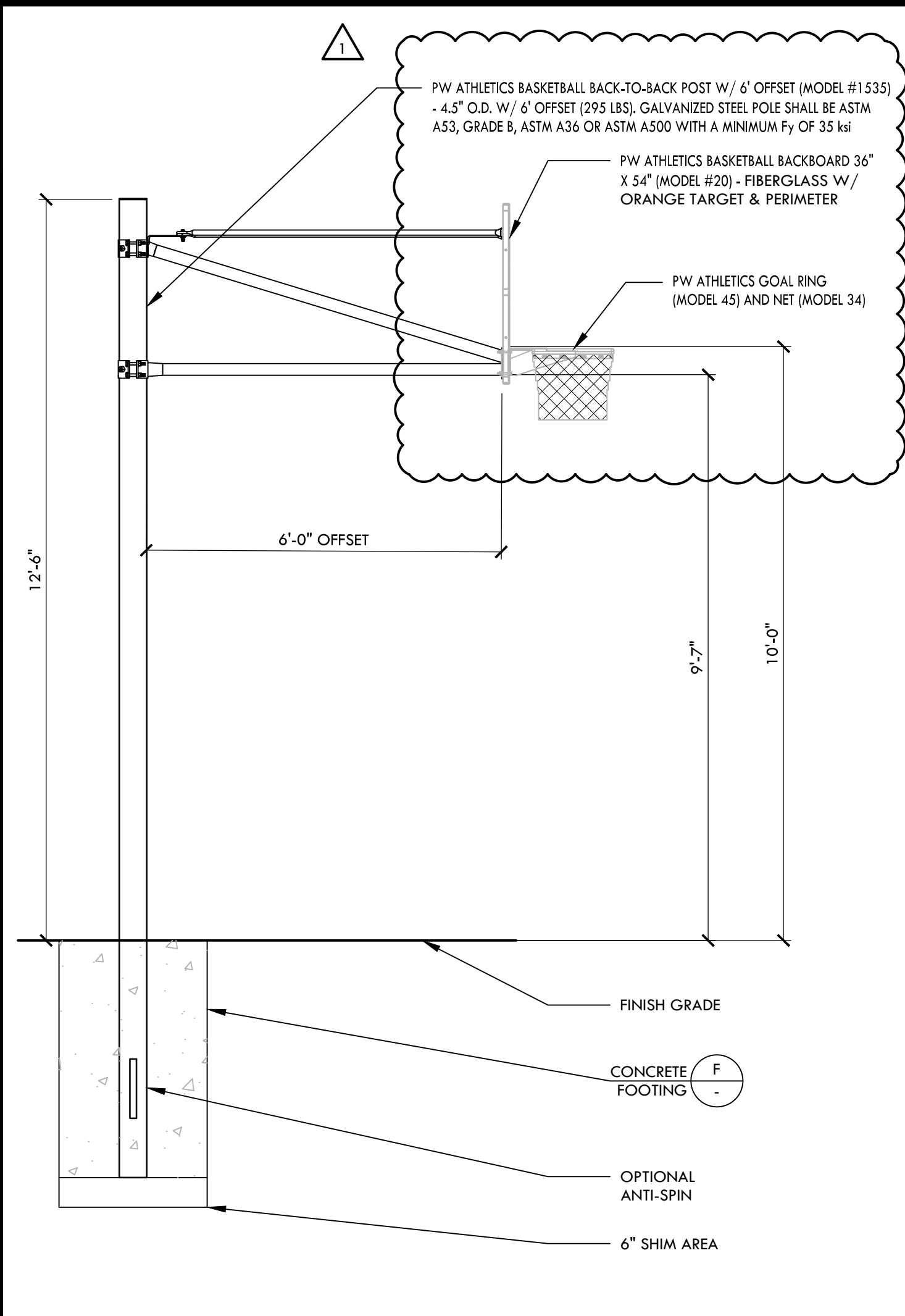
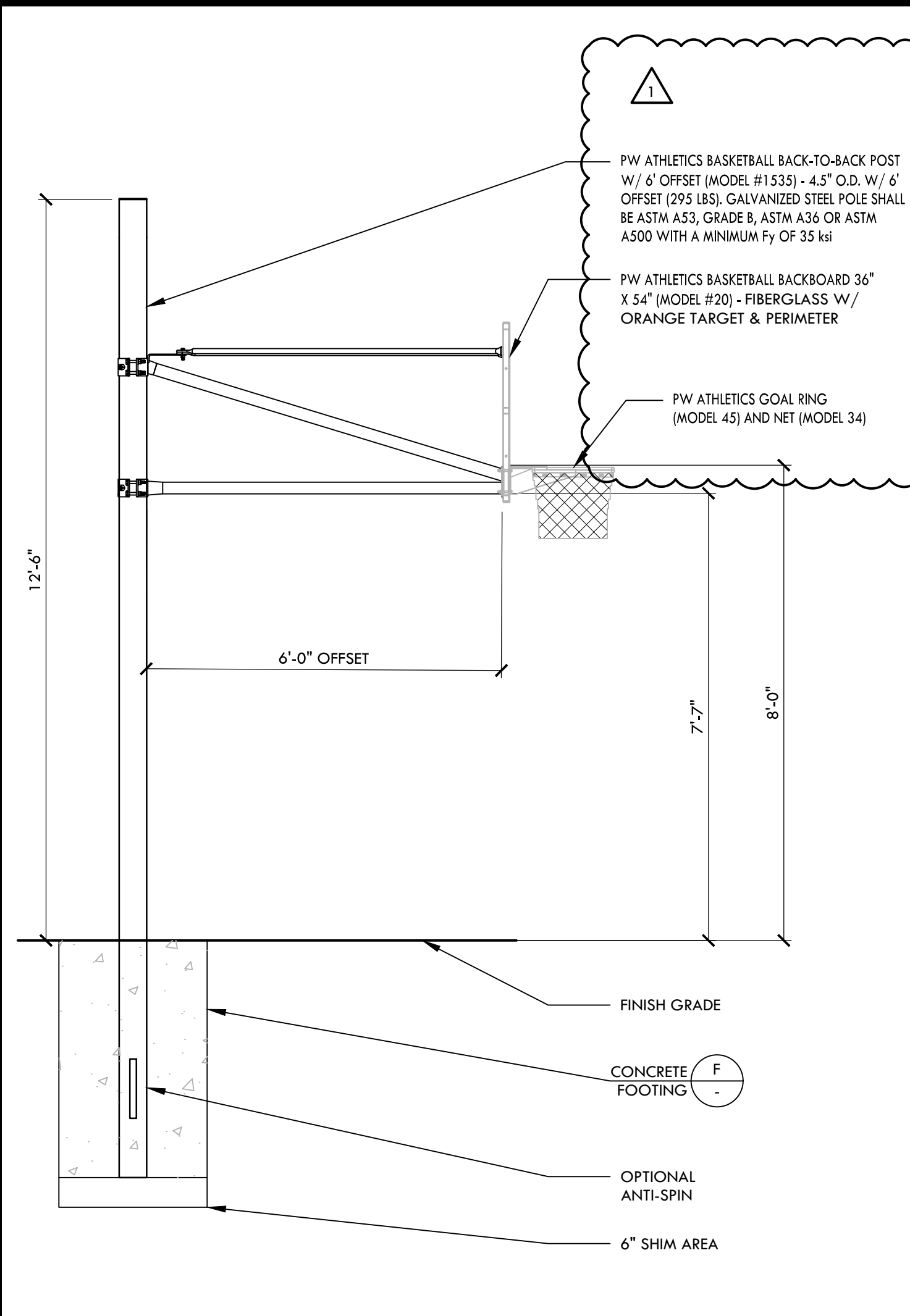
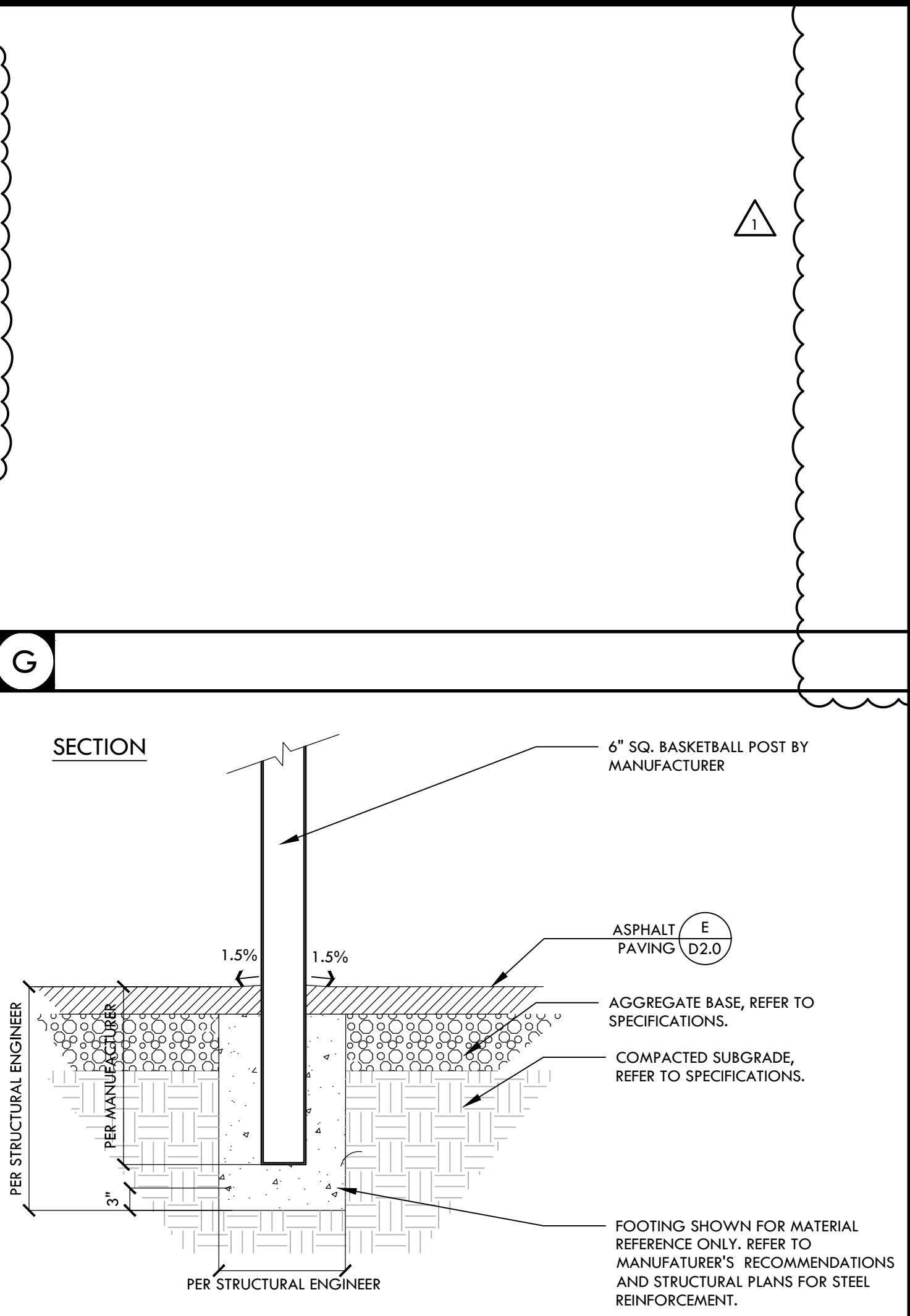
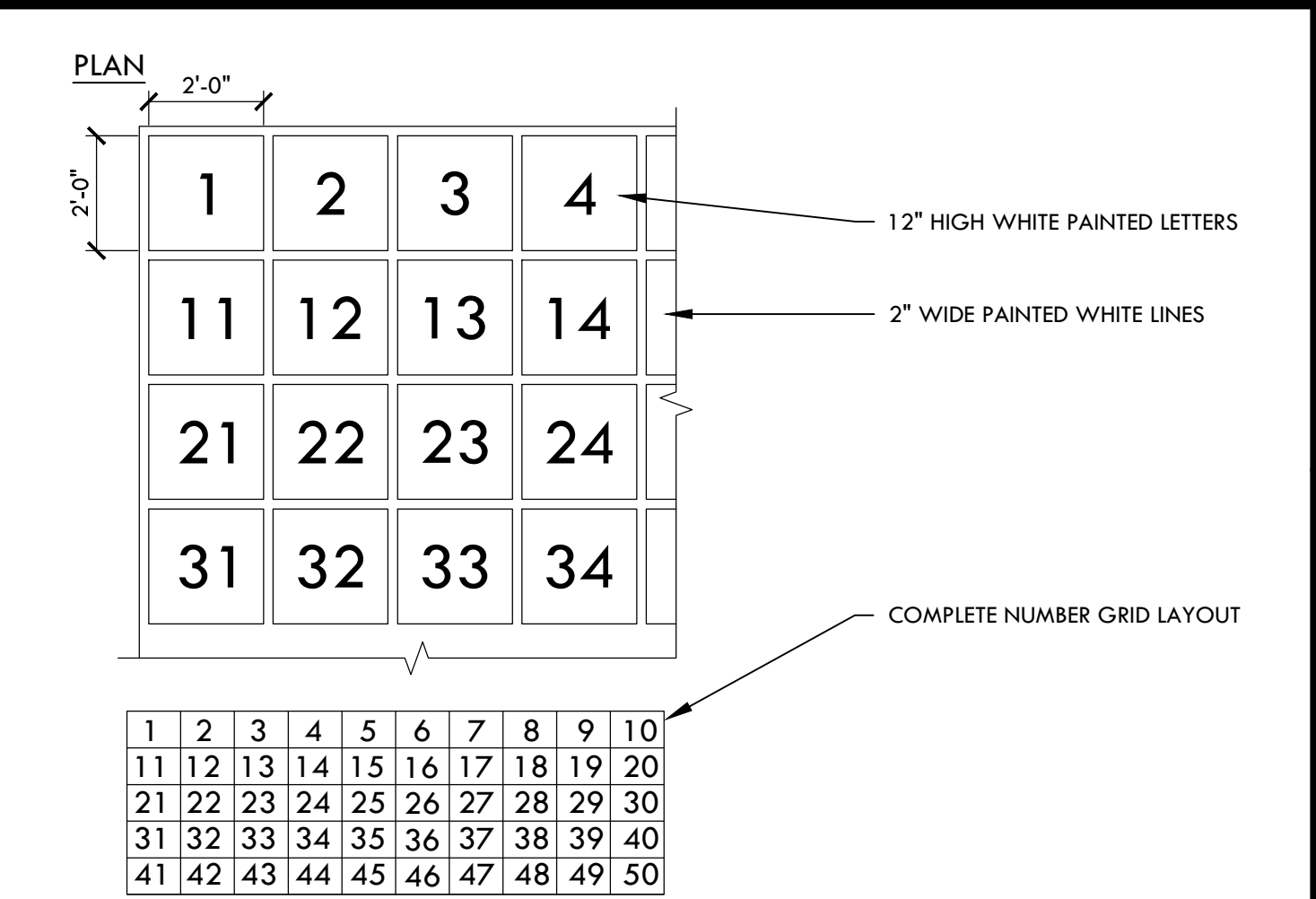
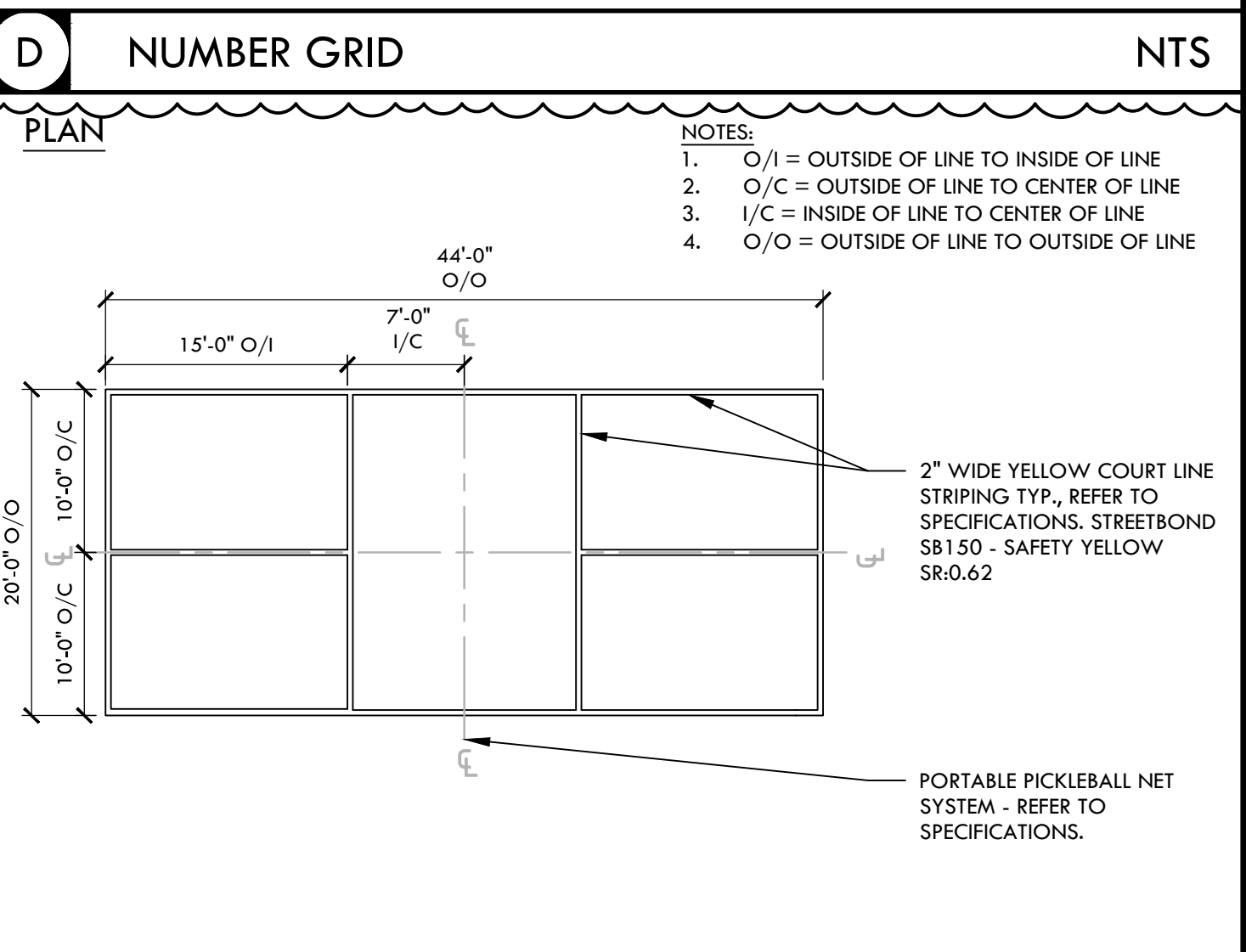
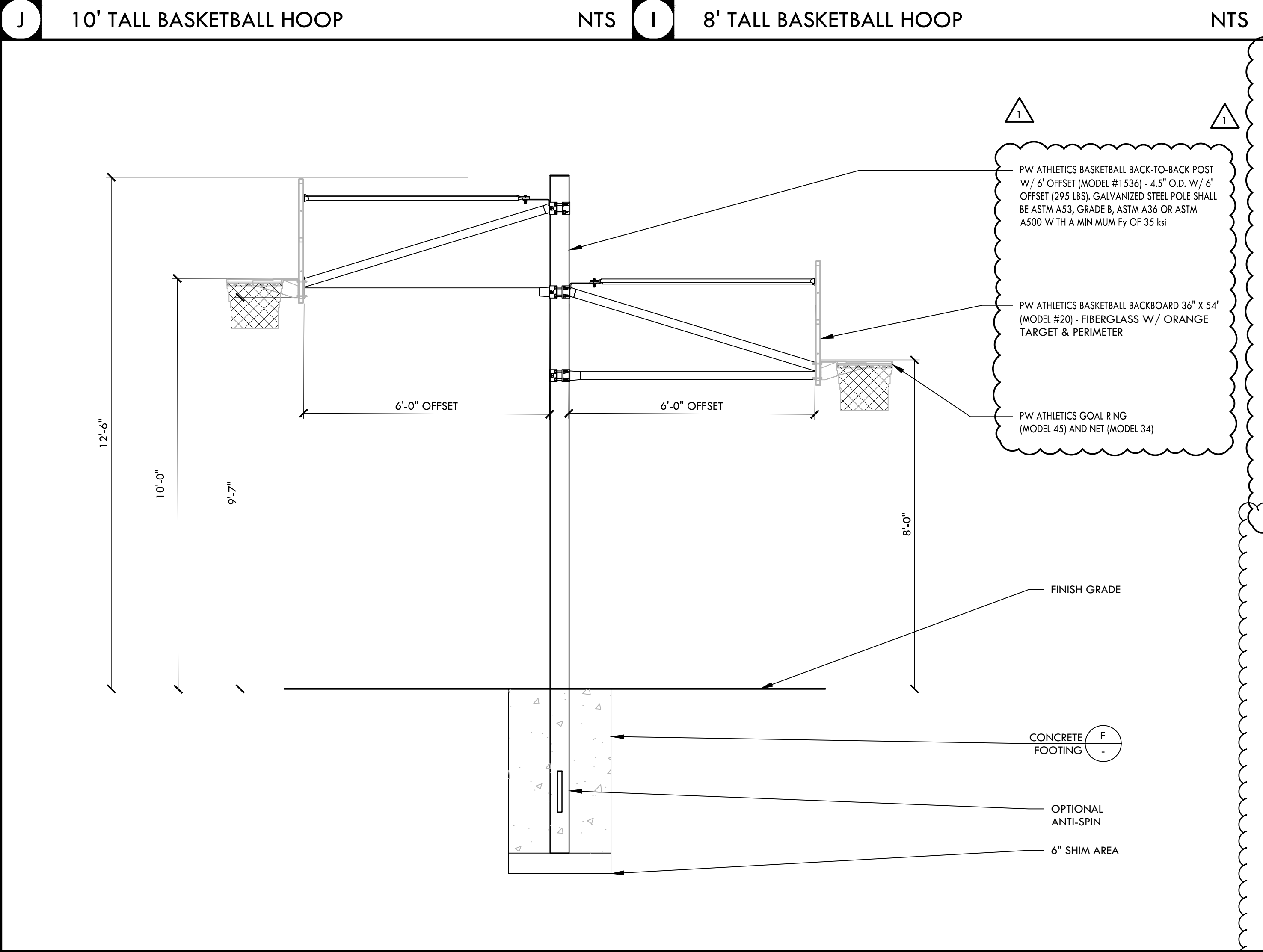
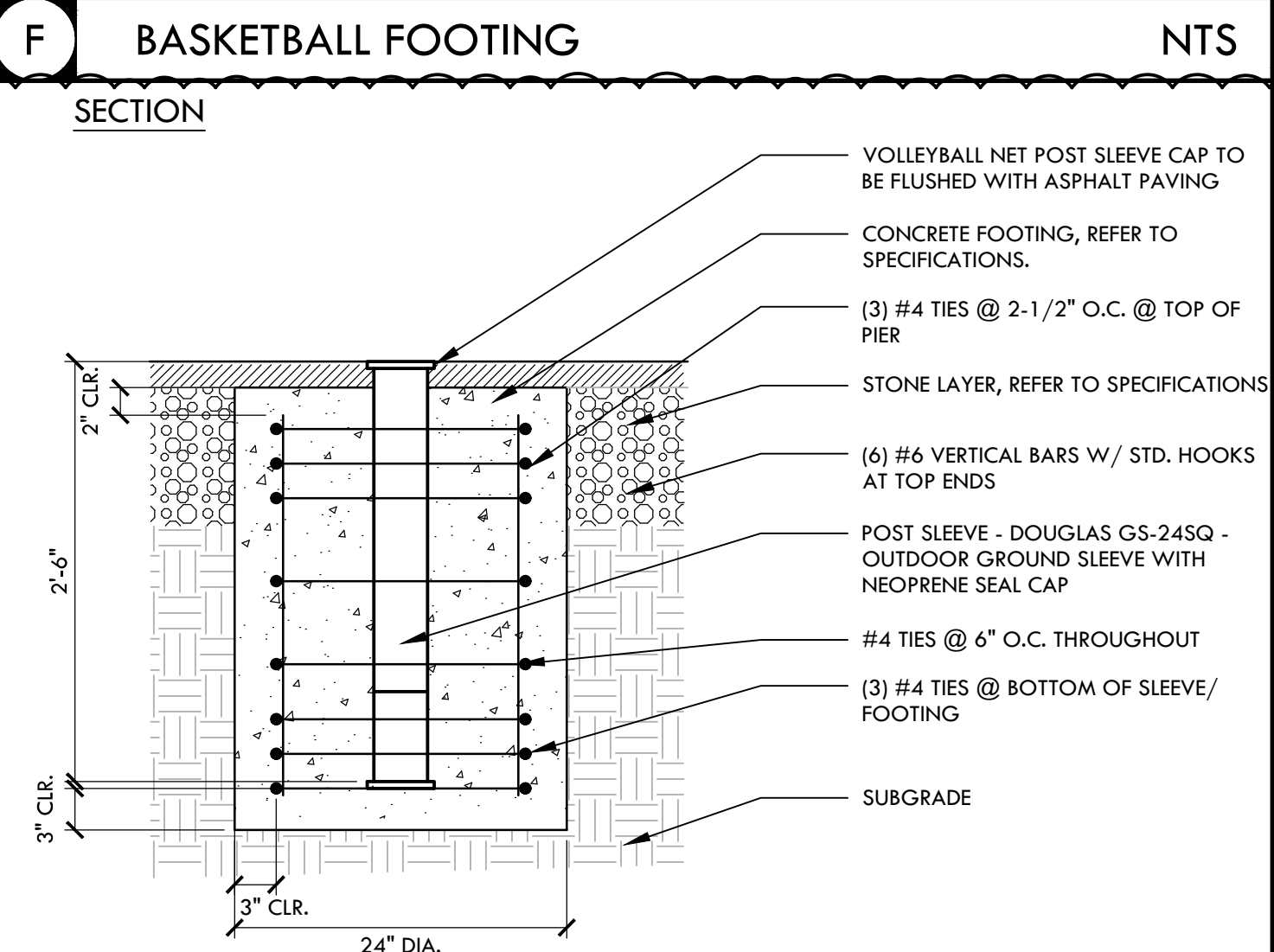
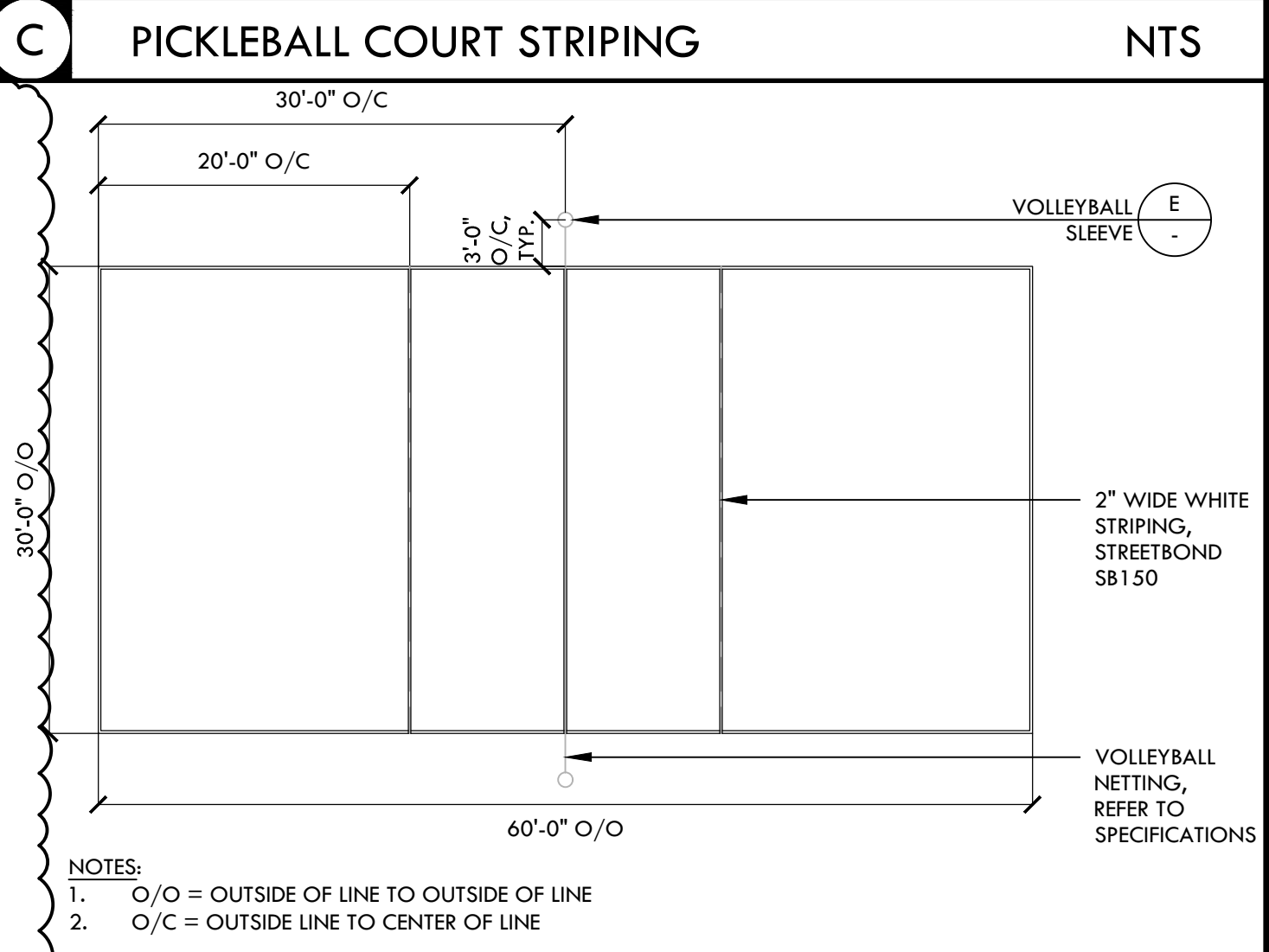
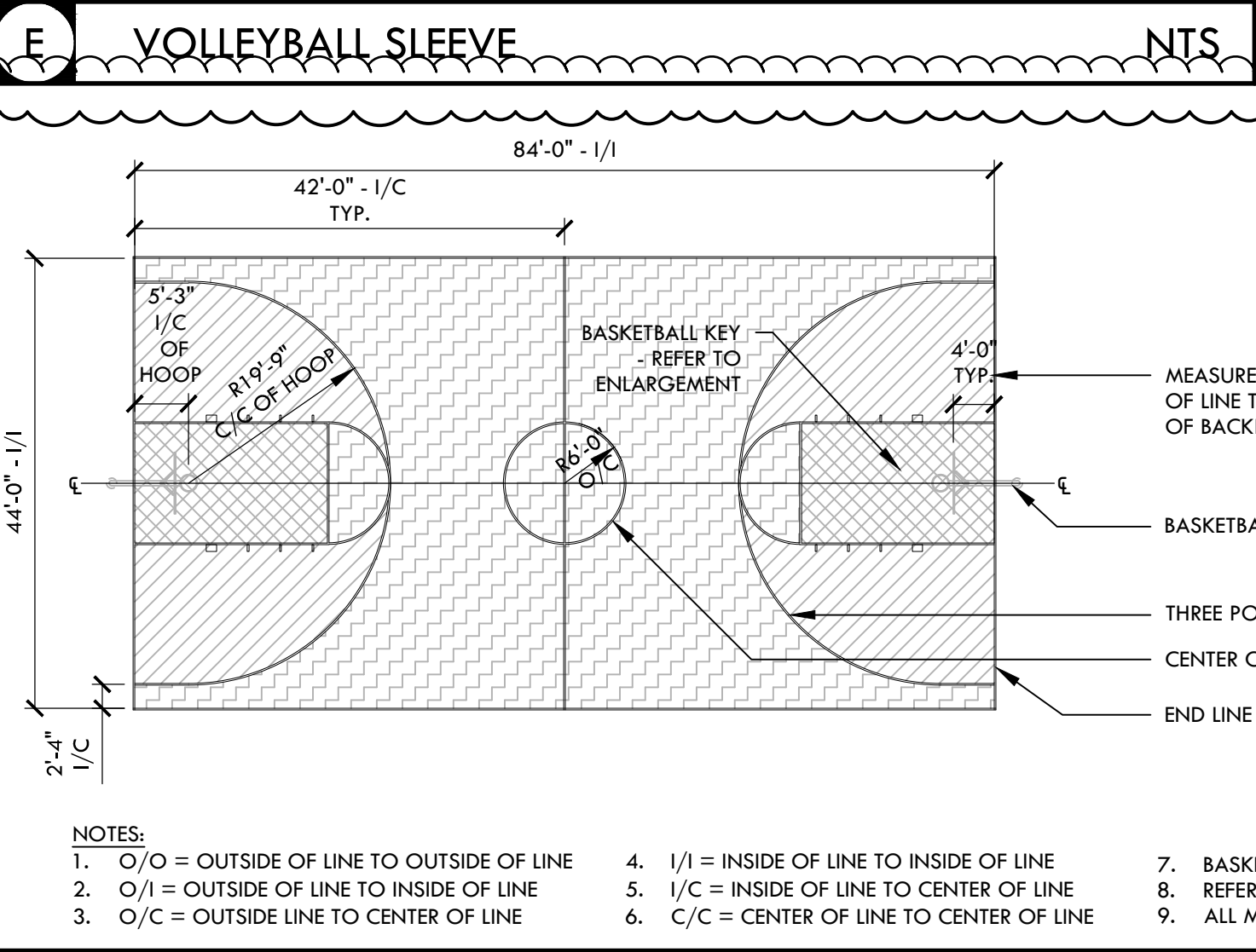
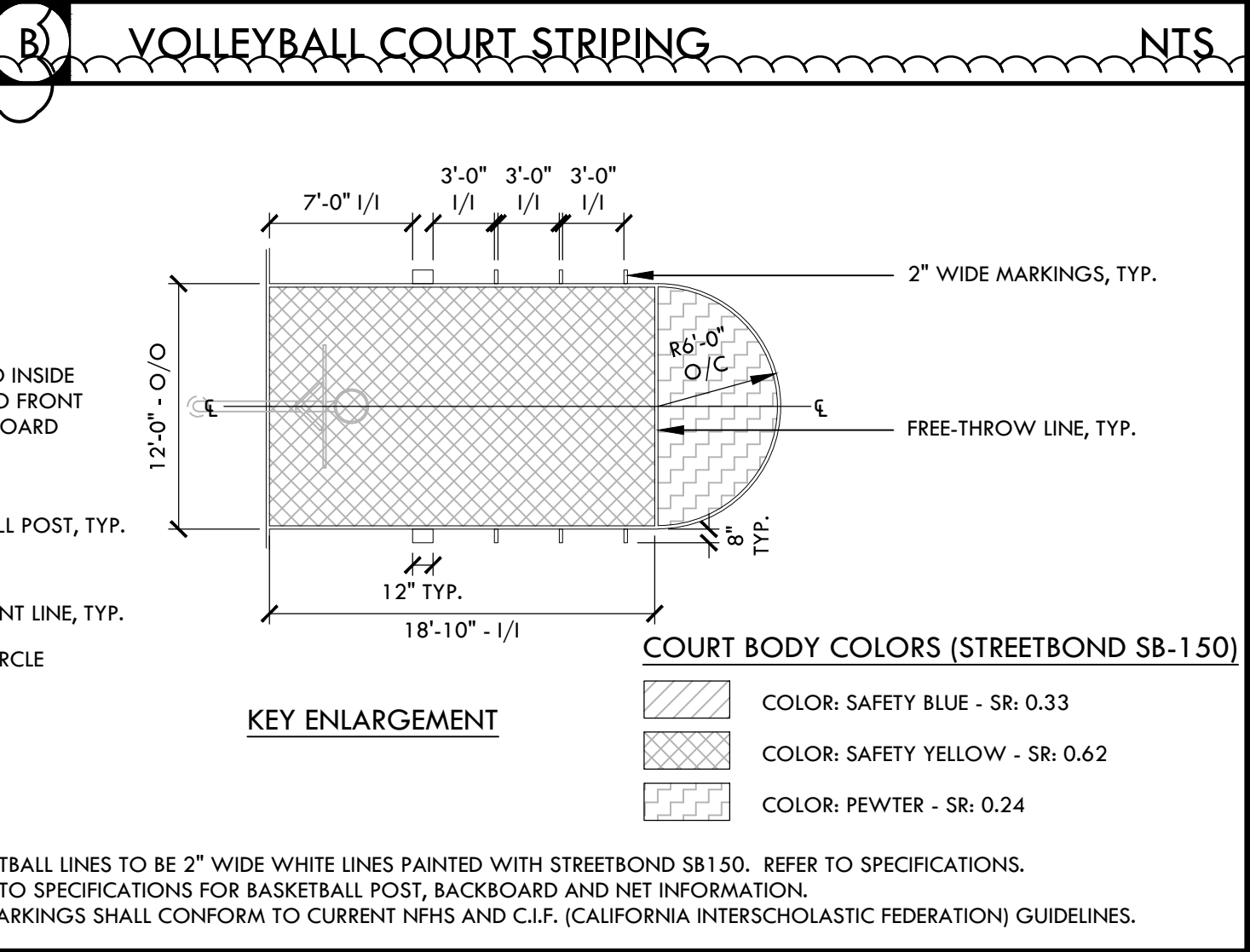
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1	BID ADDENDUM	03/11/25

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DATE ISSUED 12/10/2024	SCALE NTS
VDI PROJ. NO. 2320400	SSFUSD PROJ. NO. 025-960
SHEET NO.	

D3.1

CONSTRUCTION DETAILS

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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

BID SET

BID ADDENDUM

NO. REVISIONS

BID ADDENDUM

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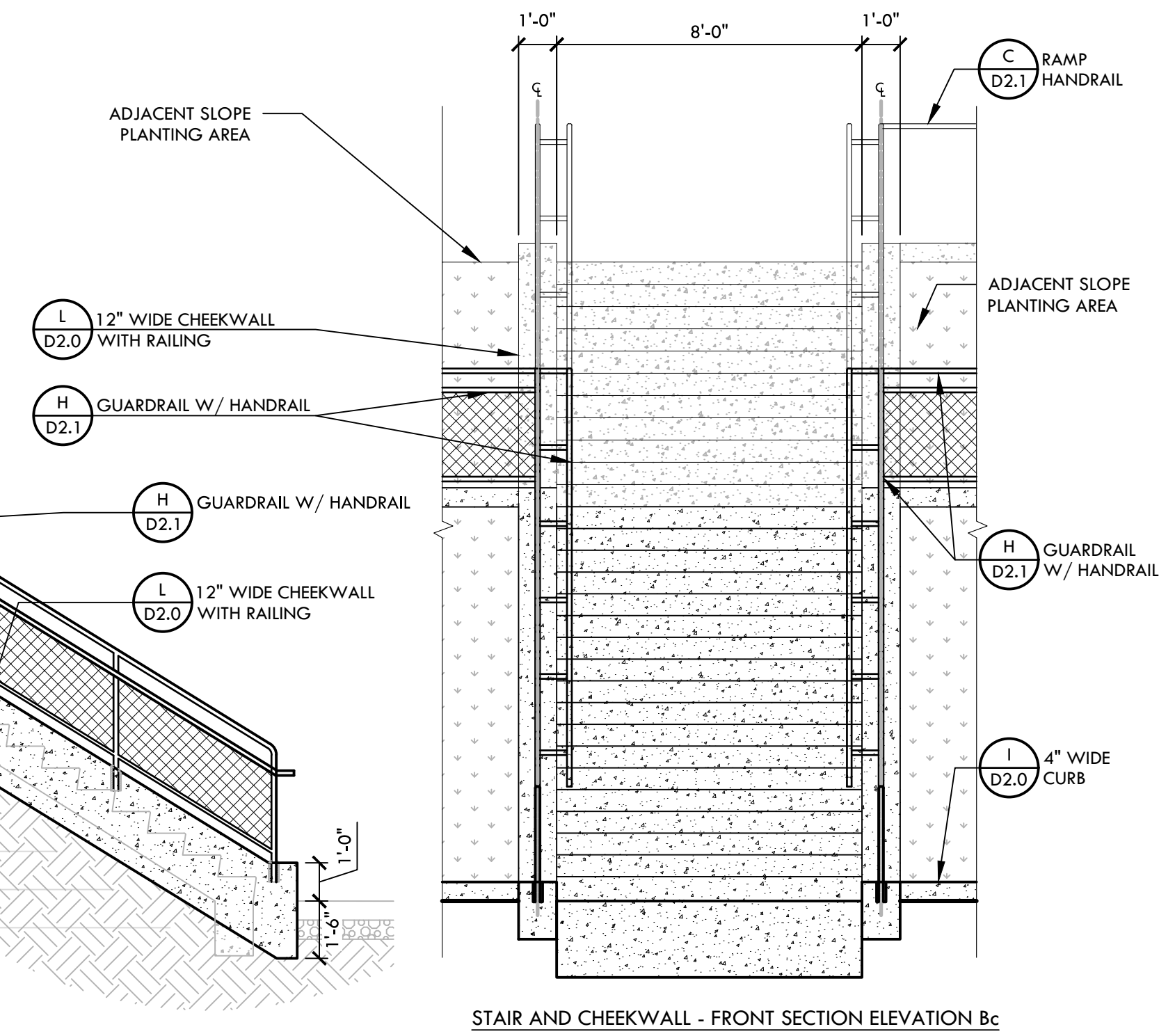
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CHEEKWALL - SECTION VIEW B-B

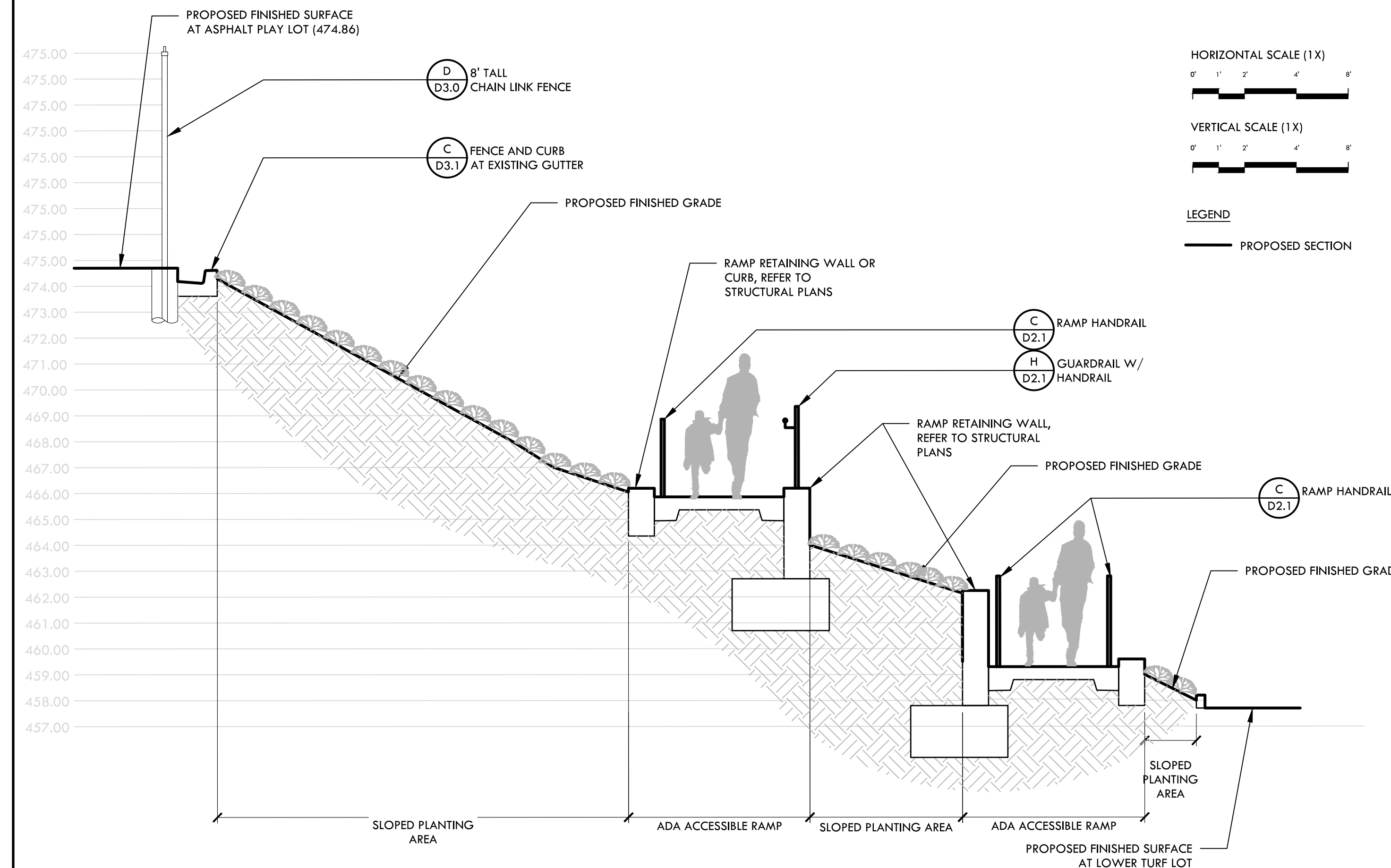
ADA ACCESSIBLE RAMP

STAIR AND CHEEKWALL - FRONT SECTION ELEVATION Bc



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

NTS }



NTS

NTS <

SECTION DETAILS

WESTBOROUGH MIDDLE SCHOOL FIELD AND PAVEMENT IMPROVEMENTS

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D6.0

SECTION/ENLARGEMENT DETAILS

PROPOSED FINISHED SURFACE AT ASPHALT PLAY LOT (474.5)

D 8' TALL CHAIN LINK FENCE D3.0

C FENCE AND CURB AT EXISTING GUTTER D3.1

PROPOSED FINISHED GRADE

C RAMP HANDRAIL D2.1

RAMP RETAINING WALL, REFER TO STRUCTURAL PLANS, TYP.

H GUARDRAIL W/ HANDRAIL D2.1

RAMP RETAINING WALL, REFER TO STRUCTURAL PLANS, TYP.

PROPOSED FINISHED GRADE

I 4" WIDE CURB D2.0

457.00

PROPOSED FINISHED SURFACE AT LOWER TURF LOT (457.62)

SLOPED PLANTING AREA

ADA ACCESSIBLE RAMP

SLOPED PLANTING AREA

HORIZONTAL SCALE (1X)

0' 1' 2' 4' 8'

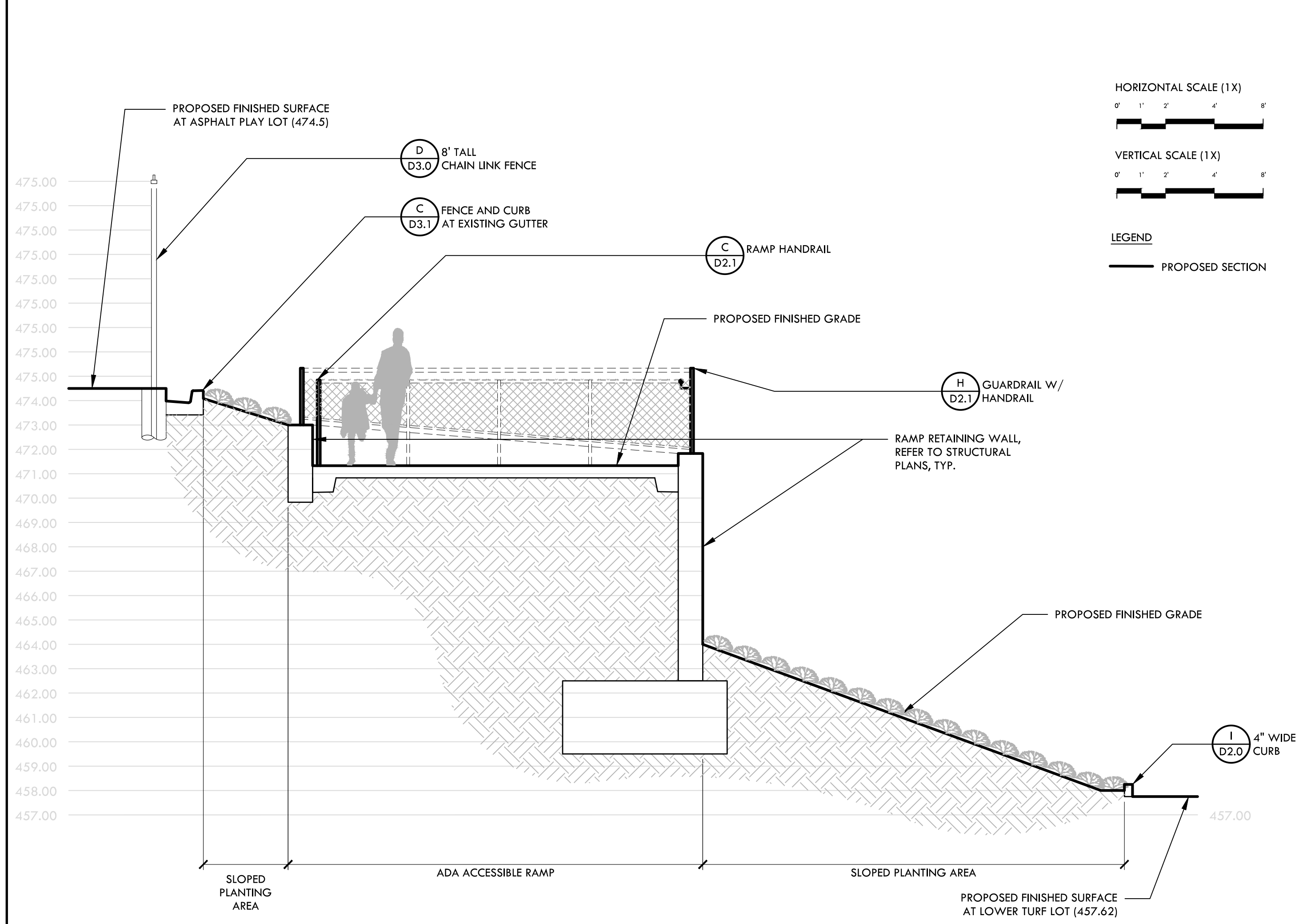
VERTICAL SCALE (1X)

0' 1' 2' 4' 8'

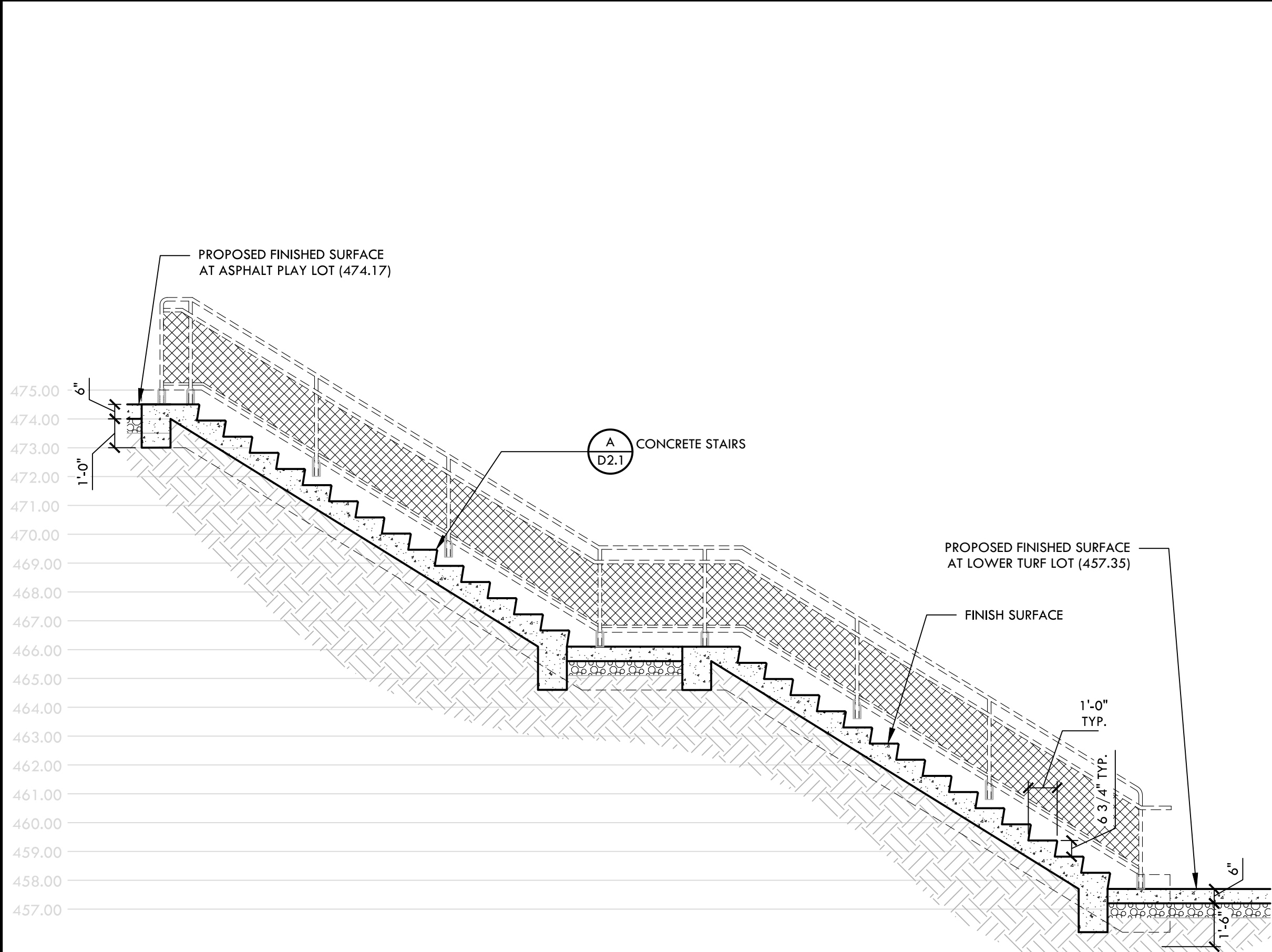
LEGEND

— PROPOSED SECTION

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Technical drawing of a staircase cross-section. The drawing shows a central staircase with a total width of 8'-0" and side walls of 1'-0" each. The staircase is shown with a series of steps and a landing. The side walls are labeled "1'-0\"

STAIR AND CHEEKWALL - FRONT SECTION ELEVATION Dc

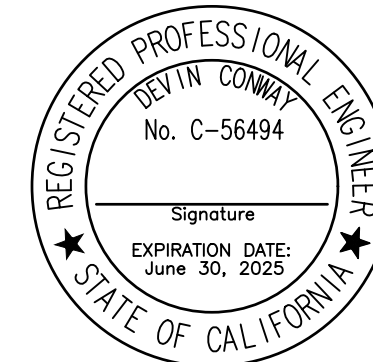
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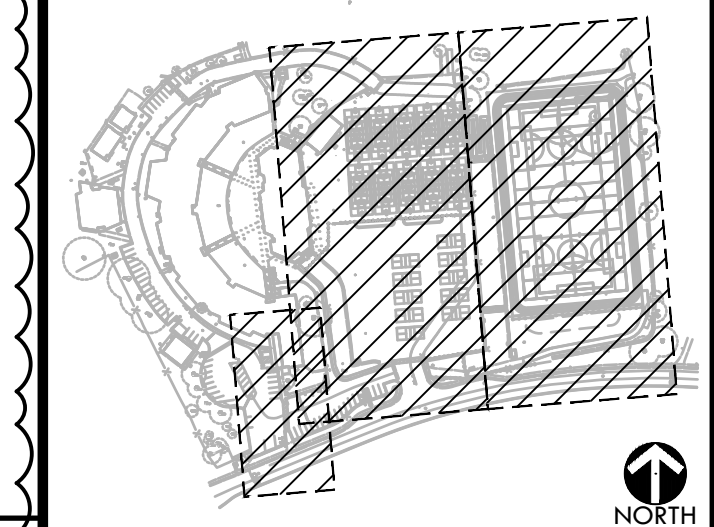
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KEY MA



SHEET TITLE

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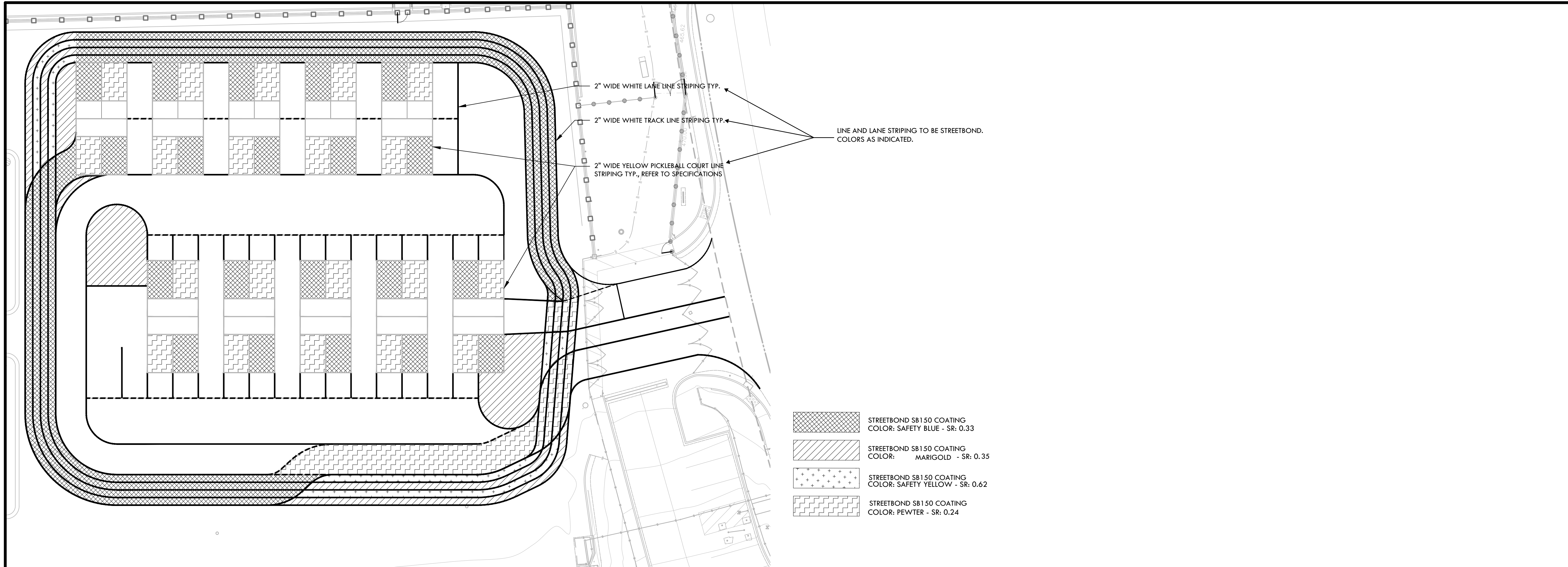
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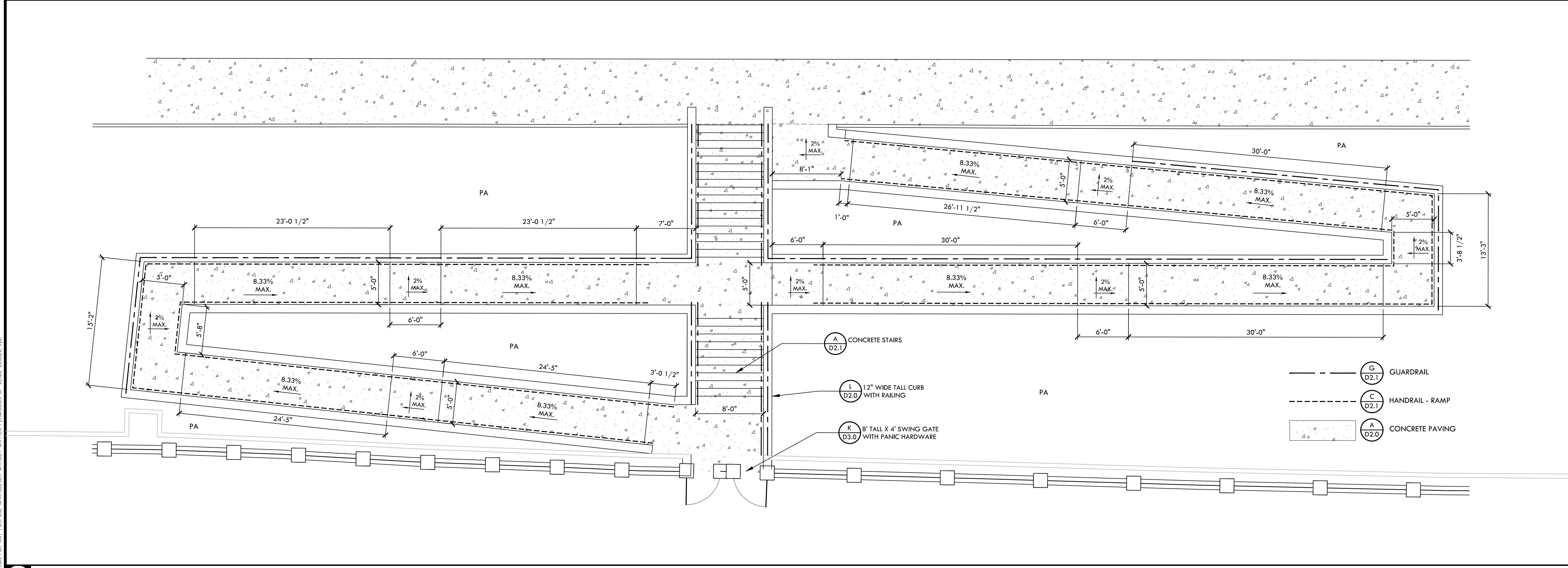
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H STRIPING AND COLOR ENLARGEMENT - EASTERN COURTS - TRACK AND COURT STRIPING NTS

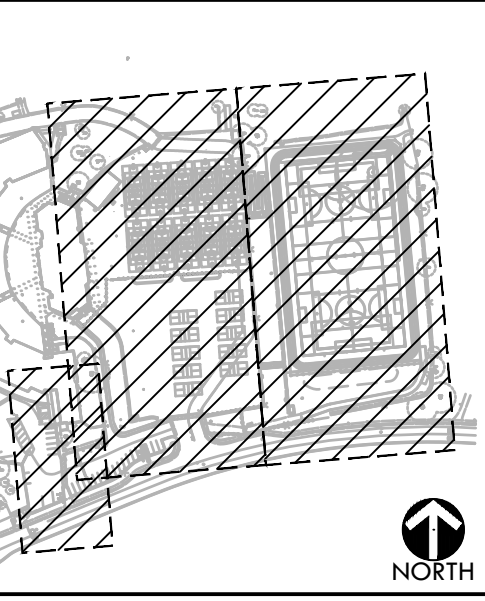


G ENLARGEMENT - ACCESSIBLE RAMP AND STAIRS NTS



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SECTION DETAILS

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**WESTBOROUGH
MIDDLE SCHOOL
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D6.2

GENERAL

1. ALL CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2022 CALIFORNIA BUILDING CODE (CBC), TITLE 24, PART 2, VOLUMES 1-2 (2021 INTERNATIONAL BUILDING CODE (IBC) WITH 2022 CALIFORNIA AMENDMENTS, INCLUDING SECTIONS AND "A" CHAPTERS PERTAINING TO DSA--SS).
2. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR DIRECTION PRIOR TO PROCEEDING.
3. DETAILS OF CONSTRUCTION ARE TYPICAL, UNLESS NOTED OTHERWISE, AND SHALL APPLY AT ALL LOCATIONS OF SIMILAR CONSTRUCTION. TYPICAL DETAILS ARE NOT CUT AT EVERY APPLICABLE LOCATION ON THE PLANS.
4. DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
5. SHORING, TEMPORARY BRACING AND OTHER METHODS AND MEANS OF CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND IS NOT INCLUDED IN THE SCOPE OF THE STRUCTURAL DRAWINGS.
6. THE FOLLOWING NOTES ARE FOR GENERAL MATERIAL GRADES AND PROCEDURES. SEE SPECIFICATIONS AND REMAINDER OF DRAWINGS FOR COMPLETE REQUIREMENTS. ITEMS NOTED IN PLANS, SECTIONS AND DETAILS TAKE PRECEDENCE OVER GENERAL NOTES.
7. LOADS:

- A) LIVE SURCHARGE = 100 PSF
- B) WIND: BUILDING RISK CATEGORY II EXPOSURE C, 95 MPH BASIC WIND SPEED DIRECTIONAL PROCEDURE
- C) SEISMIC: BUILDING RISK CATEGORY II EQUIVALENT LATERAL FORCE PROCEDURE (ASCE 7-16 SECTION 12.8) LATITUDE: 37.8443, LONGITUDE: -122.4599 SEISMIC DESIGN CATEGORY (SDC) E SITE CLASS D S_s=2.470, S_w=1.035; F_a=1.000, F_v=1.700; S_{DS}=2.470, S_{WS}=2.639; S_{DS1}=1.647, S_{WS1}=1.173 IMPORTANCE FACTOR: I_w=1.00 R=3 FOR SIGNS AND BILLBOARDS (BASKETBALL HOOP) C_s=0.549 (STRENGTH), 0.392 (ALLOWABLE STRESS) R=1.5 FOR STEEL POLES (BACKSTOP & NETTING) C_s=1.098 (STRENGTH), 0.784 R=1.25 FOR SELF-SUPPORTING STRUCTURES (RETAINING WALLS & FENCES) C_s=1.317 (STRENGTH), 0.941 (ALLOWABLE STRESS) C_s=0.329 (STRENGTH), 0.235 (ALLOWABLE STRESS).

- D) LOAD COMBINATIONS FOR DESIGN: CONCRETE: PER CBC SECTION 1605A.2 FOR STRENGTH DESIGN. FOUNDATIONS: PER CBC SECTION 1605A.3.2 FOR ALLOWABLE STRESS DESIGN. ALL OTHERS: PER CBC SECTION 1605A.3.1 FOR ALLOWABLE STRESS DESIGN.

GEOTECHNICAL & FOUNDATIONS

1. GEOTECHNICAL CRITERIA USED FOR FOUNDATION DESIGN:
- A) GEOTECHNICAL REPORT BY ATLAS TECHNICAL CONSULTANTS, INC., STOCKTON, CA. REPORT NO. 91-67787-PW, DATED 05-16-24. GEOTECHNICAL REPORT SHALL BE CONSIDERED PART OF CONSTRUCTION DOCUMENTS. ALL RECOMMENDATIONS DESCRIBED THEREIN SHALL BE IMPLEMENTED IN PROJECT'S CONSTRUCTION, INCLUDING GRADING, STRIPPING OF EXISTING MATERIAL, LOCATION, TYPE AND INSTALLATION OF FILL MATERIAL, AND COMPACTION.
- B) CONTINUOUS & SPREAD FOOTINGS: MINIMUM WIDTH: 24" (ISOLATED & CONTINUOUS FOOTINGS) MINIMUM DEPTH: 18" (ISOLATED FOOTINGS) 24" (CONTINUOUS FOOTINGS)
- C) ALLOWABLE SOIL PRESSURES USED FOR FOUNDATION DESIGN: DEAD LOAD ONLY: 2000 PSF w/ S.F. = 3.0 DEAD PLUS LIVE LOAD: 3000 PSF w/ S.F. = 2.0 TOTAL LOAD W/ SEISMIC OR WIND: 4000 PSF w/ S.F. = 3.0 (3000 + 1/3 INCREASE FOR SHORT TERM LOADS) ALLOWABLE FRICTION COEFFICIENT: 0.35 ALLOWABLE PASSIVE PRESSURE: 350 PCF PIER/PILE ALLOWABLE LATERAL PRESSURE: 350 PCF IGNORE 1 FT. AT TOP. EFFECTIVE PIER WIDTH: 2 DIAMETERS. MINIMUM PIER SPACING: 3 DIAMETERS CANTILEVERED RETAINING WALL: ACTIVE PRESSURE: 45 PCF (LEVEL BACKFILL) 65 PCF (2:1 SLOPED BACKFILL) RESTRAINED RETAINING WALL: AT-REST PRESSURE: 65 PCF (LEVEL BACKFILL) 85 PCF (2:1 SLOPED BACKFILL) SEISMIC LATERAL PRESSURE: 8H PSF WHERE H EQUALS HEIGHT OF BACKFILL SURCHARGE PRESSURE: FOR SURCHARGE LOADS, INCREASE THE DESIGN PRESSURES BEHIND THE WALL BY AN ADDITIONAL UNIFORM PRESSURE EQUIVALENT TO 1/2 (FOR RESTRAINED CONDITIONS) OR 1/3 (FOR UNRESTRAINED CONDITIONS) OF THE MAXIMUM ANTICIPATED SURCHARGE LOAD APPLIED TO THE SURFACE BEHIND THE WALL.
- D) ENGINEERED FILL AND COMPACTION: AS SPECIFIED ON GEOTECHNICAL REPORT.

CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO CHAPTER 19A OF THE 2022 CALIFORNIA BUILDING CODE (CBC) AND 2019 ACI STANDARD 318 AND ASTM C94. SPECIFICATION FOR CONCRETE SHALL BE AS FOLLOWS:
2. ALL STRUCTURAL CONCRETE MIXES SHALL HAVE MIN. FIVE (5) BAGS CEMENT PER CU. YARD AND MAX. WATER-TO-CEMENT RATIO OF 0.60. CONCRETE MIX PROPERTIES SHALL BE AS FOLLOWS:
- A) WALLS: 28-DAY COMP. STRENGTH: 3,000 PSI LARGE AGGREGATE SIZE: 1/2" - 1" MAX. SLUMP: 4" DENSITY: 145 - 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE) EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)
- B) FOOTINGS & GRADE BEAMS: 28-DAY COMP. STRENGTH: 3,000 PSI LARGE AGGREGATE SIZE: 1" - 1-1/2" MAX. SLUMP: 4" DENSITY: 145 - 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE) EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)
- C) C.I.D.H PIER FOOTINGS: 28-DAY COMP. STRENGTH: 3,000 PSI LARGE AGGREGATE SIZE: 3/4" - 1-1/2" MAX. SLUMP: 4" DENSITY: 145 - 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE) EXPOSURE CLASS: C1, S0 (ACI 318 TABLE 19.3.1.1)
- C) NON-STRUCTURAL CONCRETE WALKS ON GRADE: 28-DAY COMP. STRENGTH: 2,500 PSI LARGE AGGREGATE SIZE: 3/8" - 3/4" MAX. SLUMP: 5" DENSITY: 145 - 150 PCF (NORMAL WEIGHT, HARD ROCK AGGREGATE)
3. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GR. 60 U.N.O. ALTERNATIVELY, #4 AND SMALLER BARS MAY CONFORM TO ASTM A615, GR. 40. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
4. GROUT SHALL BE NON-SHRINK GROUT U.N.O. CONFORMING TO ASTM C1107. GROUT SHALL HAVE A 7-DAY COMPRESSIVE STRENGTH 5,000 PSI MIN. GROUT SHALL BE MASTER BUILDERS "MASTERFLOW 928", Sika SikaGROUT 212, OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SURFACE PREPARATION RECOMMENDATIONS.
5. BONDING AGENT SHALL BE MASTER BUILDERS "MASTEREMACO ADH 326", Sika ARMATEC 110 EPOCEM, OR APPROVED EQUAL, AND SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
6. CURING COMPOUND SHALL BE APPROVED BY ENGINEER, AND APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
7. CONSTRUCTION JOINTS SHALL BE ROUGHENED TO FULL 1/4" AMPLITUDE (ICRI CSP 9) WITH BUSH HAMMER OR OTHER APPROVED METHOD. SURFACES SHALL BE CLEANED OF DUST AND DEBRIS IMMEDIATELY PRIOR TO PLACEMENT OF NEWER CONCRETE.
8. EXTEND HORIZONTAL BARS IN FOUNDATIONS AND WALLS INTO INTERSECTING FOUNDATIONS AND WALLS WITH BEND AND 3D BAR DIAMETER EXTENSION, BUT NOT LESS THAN 24" EXTENSION.
9. WELDING OF REINFORCING SHALL NOT BE ALLOWED.
10. MAINTAIN THE FOLLOWING MINIMUM CONCRETE COVER FOR REBAR: WHERE CONC. IS PLACED AGAINST EARTH = 3" WHERE CONCRETE IS FORMED AND EXPOSED TO EARTH OR WEATHER = 2" WHERE CONCRETE IS NOT EXPOSED TO EARTH OR WEATHER = 1-1/2" SLABS ON GRADE = 3/4"
11. WHERE SIDES OF FOUNDATIONS (FOOTINGS, GRADE BEAMS OR WALLS) ARE CAST AGAINST EARTH WITHOUT FORMS, FOUNDATION SHALL BE WIDENED 1" AT EACH SUCH SURFACE.
12. EXCAVATION FOR FOOTINGS BELOW DEPTHS SHOWN ON DRAWINGS SHALL BE BACKFILLED WITH CONCRETE.
13. NOTIFY ENGINEER, PROJECT INSPECTOR AT LEAST 48 HOURS BEFORE ANY CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT. SEE ALSO SPECIAL INSPECTION REQUIREMENTS.
14. CONTRACTOR SHALL, PRIOR TO EXCAVATION, VERIFY FOOTING CONDITIONS AND FINISH GRADE/PAVING ELEVATIONS AT PERIMETER OF BUILDING. VERIFY THAT FOOTINGS HAVE SPECIFIED MINIMUM DEPTH BELOW ADJACENT GRADE AND THAT FOOTINGS DO NOT "DAYLIGHT" OR OTHERWISE INTERFERE WITH INTENDED EXTERIOR CONDITIONS. NOTIFY ENGINEER IF SUCH INTERFERENCE EXISTS PRIOR TO EXCAVATION.
15. IF LOADING OF CONCRETE ELEMENTS PRIOR TO 28-DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTAL OF CONCRETE MIX DESIGNS IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD-CURED IN CONDITIONS MATCHING SUBJECT CONCRETE ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. LOADING OF CONCRETE ELEMENTS BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.
13. BATCH PLANT INSPECTION:
- A) AN APPROVED AGENCY SHALL CHECK THE FIRST BATCH AT THE START OF THE DAY TO VERIFY MATERIALS AND PROPORTIONS CONFORM TO THE APPROVED MIX DESIGN.
- B) A LICENSED WEIGHTMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
- C) BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVE WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT BATCH IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCEMENT AGENCY.

STRUCTURAL STEEL

1. ALL STEEL AND MISC. IRON SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH AISC. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. STEEL MATERIAL SHALL BE AS FOLLOWS:
- PIPES (STD., X-STRG. & XX-STRG.): ASTM A53 GRADE B, F_y=35 KSI STEEL POSTS SUPPORTING NETTING & METAL CHAIN-LINK FABRIC UP TO 10 FT. HIGH SHALL BE GALVANIZED PIPES COMPLYING WITH ASTM F1083, REGULAR GRADE 30 KSI YIELD STRENGTH, SCHEDULE 40. HOT-DIP ZINC GALVANIZING SHALL COMPLY WITH ASTM A123, WITH MIN. OF 1.8 OZ./SQ. FT. OUTSIDE AND INSIDE. STEEL POSTS SUPPORTING NETTING & METAL CHAIN-LINK FABRIC OVER 10 FT. HIGH SHALL BE GALVANIZED PIPES PER ASTM A53 (GR. B, F_y=35 KSI) OR ROUND TUBES PER ASTM A500 (GR. B., F_y=42 KSI) HOT-DIP ZINC GALVANIZED PER ASTM A123, WITH MIN. OF 1.8 OZ./SQ. FT. OUTSIDE AND INSIDE. MACHINE BOLTS (M.B.): ASTM A307 GRADE A, A563 FOR NUTS, F844 FOR WASHERS WELDING ELECTRODES: E70XX
3. ALL WELDING ON STRUCTURAL STEEL SHALL CONFORM WITH AWS D1.1 CODE AND SHALL BE PRE-QUALIFIED WELDS CONFORMING TO AWS D1.1. UNLESS SPECIFICALLY INDICATED AS FIELD WELDING, ALL WELDS MAY BE PERFORMED IN SHOP OR FIELD.
4. ALL COMPLETE AND FULL PENETRATION GROOVE WELDS (DESIGNATED BY "C.P." OR "F.P.") SHALL USE BACK-UP PLATES UNLESS NOTED OTHERWISE. ALL PARTIAL-PENETRATION WELDS (DESIGNATED BY "P.P.") SHALL HAVE LARGEST EFFECTIVE THROAT ALLOWED BY AWS. GROOVE WELDS NOT NOTED WITH "C.P.", "F.P." OR "P.P." SHALL BE COMPLETE PENETRATION WELDS.
5. WELDING PROCEDURE SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT AND THE TEST AND INSPECTION AGENCY FOR REVIEW AND APPROVAL PRIOR TO START OF FABRICATION.
6. ALL STRUCTURAL STEEL IN EXTERIOR SPACES OR EXPOSED TO VIEW IN INTERIOR SPACES SHALL BE PAINTED WITH TWO (2) COATS OF ALKYL RED OXIDE PRIMER, COMPLYING WITH SSPC-PAINT 25 OR U.S. FEDERAL SPEC TT-P-645, WITH MIN. DRY THICKNESS OF 2 MILS. SEE ARCHITECTURAL SPECS FOR FINISH PAINTING. STRUCTURAL STEEL IN ENCLOSED SPACES AND NOT EXPOSED TO WEATHER NEED NOT BE PAINTED OR PRIMED UNLESS NOTED OTHERWISE. STEEL TO BE EMBEDDED IN CONCRETE SHALL NOT BE PAINTED.
7. ALL NON-PAINTED STEEL FASTENERS EXPOSED TO WEATHER OR IN UNENCLOSED SPACES SHALL BE HOT-DIPPED GALVANIZED, UNLESS NOTED OTHERWISE. GALVANIZED BOLTS AND NUTS SHALL BE PROVIDED BY SAME MANUFACTURER.
8. ALL STRUCTURAL STEEL SPECIFIED ON DRAWINGS TO BE GALVANIZED SHALL BE HOT-DIPPED ZINC GALVANIZED WITH MIN. 1.8 OZ./SQ. FT. ON ALL SURFACES. GALVANIZING SHALL BE TOUCHED UP AT FIELD-WELDED CONNECTIONS, FIELD-DRILLED HOLES, OR FIELD-CUT EDGES WITH A HIGH-ZINC DUST-CONTENT PAINT.

POST-INSTALLED ANCHORS & DOWELS

***NOTE: POST-INSTALLED ANCHORS PROVIDED IN THE EVENT THAT REBAR OR CAST-IN-PLACE ANCHOR BOLTS ARE MISSED OR INCORRECTLY PLACED, CONTRACTOR SHALL NOTIFY PROJECT INSPECTOR & SEOR ENGINEER FOR DIRECTIONS PRIOR TO PROCEEDING WITH INSTALLATION.

A. GENERAL - APPLICABLE TO ALL ANCHORS AND DOWELS:

1. ANCHORS SHALL BE INSTALLED ONLY WHERE SPECIFIED ON DRAWINGS, PER MANUFACTURER'S INSTRUCTIONS, USING MANUFACTURER'S EQUIPMENT, WHERE APPLICABLE. INSTALLER SHALL HAVE ON SITE A COPY OF MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ICC-ES OR IAPMO-UES REPORT.
2. ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT THAT HAS ATTAINED THE MIN. DESIGN COMPRESSIVE STRENGTH AT MIN. 28 DAY AGE, EXCEPT AS NOTED BELOW FOR ADHESIVE ANCHORS. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 28-DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION IN ORDER TO ALLOW SPECIFYING PROVISIONS FOR SUCH. PROVISIONS MAY INCLUDE COMPRESSION TEST CYLINDERS BE FIELD-CURED IN CONDITIONS MATCHING SUBJECT CONCRETE OR MASONRY ELEMENTS, PLUS USE OF CEMENT TYPES AND/OR ADMIXTURES IN MIX DESIGNS TO PROVIDE THE REQUIRED COMPRESSIVE STRENGTHS AT ANTICIPATED AGES LESS THAN 28 DAYS. INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY GROUT BEFORE CURING FOR 28 DAYS WILL NOT BE APPROVED WITHOUT THESE PROVISIONS BEING SPECIFIED, AND MET BY CONTRACTOR.
4. PRIOR TO DRILLING HOLES FOR ANY POST-INSTALLED ANCHORS INTO NEW OR EXISTING CONCRETE OR MASONRY, ALL REINFORCING BARS IN AREA OF NEW ANCHORAGE HOLES SHALL BE LOCATED WITH PACHOMETER OR OTHER SUITABLE DEVICE AND CLEARLY MARKED IN THE FIELD. NEW ANCHORS SHALL BE INSTALLED NOT LESS THAN 1" CLEAR FROM REINFORCING. WHERE REINFORCING BARS CANNOT BE LOCATED, CARE SHALL BE TAKEN WHILE DRILLING HOLES SO THAT REINFORCING BARS ARE NOT CUT OR DAMAGED AND HOLES SHALL BE REPAIRED & RELOCATED AS REQUIRED. USE OF DRILLS WITH GROUND FAULT INTERRUPTERS (GFI) IS RECOMMENDED.
5. PROVIDE TESTING AND INSPECTIONS OF ANCHOR INSTALLATIONS PER TESTING AND SPECIAL INSPECTION NOTES, THIS SHEET.
6. ANCHORS OTHER THAN THOSE SPECIFIED BELOW MAY BE USED ONLY WHEN CURRENT ICC-ES OR IAPMO-UES REPORT FOR SUCH IS SUBMITTED FOR REVIEW AND APPROVAL. IN WRITING. ANCHORS SHALL NOT BE INSTALLED UNTIL ANCHORS ARE APPROVED BY STRUCTURAL ENGINEER AND DSA, AND TEST LOADS ARE DETERMINED AND ISSUED.

B. EXPANSION ANCHORS:

1. EXPANSION ANCHORS SHALL BE WEDGE TYPE ANCHORS ONLY AND SHALL HAVE ICC-ES OR IAPMO-UES APPROVAL, INCLUDING APPROVAL FOR RESISTANCE TO SEISMIC AND WIND LOADS, PASSING ICC-ES CRITERIA AC108 (CONCRETE) & AC011 (MASONRY). USE ONE OF THE FOLLOWING ICC-ES OR IAPMO-UES APPROVED SYSTEMS:
- a) HILTI KWIK BOLT T22 (ESR-4266). (TYP. ANCHOR SPECIFIED U.N.O.)
- b) SIMPSON STRONG-BOLT 2 ANCHORS (ESR-3037).
- c) DEWALT/POWERS POWER-STUD+ S02, S04 & S06 ANCHORS (ESR-2502).
- NOTE: OTHER EXPANSION ANCHORS MAY BE USED ONLY WHEN ICC-ES OR IAPMO-UES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER AND DSA AND TEST LOADS ARE DETERMINED AND ISSUED.
2. EXPANSION ANCHORS SHALL HAVE EMBEDMENT NOT LESS THAN EIGHT (8) ANCHOR DIAMETERS, OR AS OTHERWISE SPECIFIED IN DETAILS. TORQUE ANCHORS DURING INSTALLATION TO THE RECOMMENDED INSTALLATION TORQUE VALUES SPECIFIED IN MANUFACTURER'S ICC-ES OR IAPMO-UES REPORT.
- D. CHEMICAL ADHESIVE ANCHORS AND DOWELS:
1. ALL THREADED RODS AND REBAR DOWELS INSTALLED IN HARDENED CONCRETE OR MASONRY GROUT WITH "ADHESIVE" SHALL BE A TWO-PART NOZZLE-MIXED ICC-ES OR IAPMO-UES APPROVED CHEMICAL ADHESIVE SYSTEM, PASSING ICC-ES CRITERIA AC308 (CONCRETE). USE ONE OF THE FOLLOWING ICC-ES OR IAPMO-UES APPROVED SYSTEMS:
- CONCRETE:
- a) HILTI "HIT-RE 500-V3" ADHESIVE ANCHOR SYSTEM (ESR-3814). (SPECIFIED U.N.O.)
- b) SIMPSON "SET-XP" ADHESIVE ANCHOR SYSTEM (ESR-2508).
- c) DEWALT/POWERS "PURE110+" ADHESIVE ANCHOR SYSTEM (ESR-3298).
- d) ITW RED HEAD "G5+" ADHESIVE ANCHOR SYSTEM (ESR-4138).
- NOTE: OTHER CHEMICAL ADHESIVE ANCHOR SYSTEMS MAY BE USED ONLY WHEN ICC-ES OR IAPMO-UES REPORT FOR SUCH IS SUBMITTED TO AND APPROVED BY ENGINEER AND DSA AND TEST LOADS ARE DETERMINED AND ISSUED.
2. ANCHORS SHALL BE INSTALLED ONLY INTO CURED CONCRETE OR MASONRY GROUT OF MIN. 21 DAY AGE. IF INSTALLATION OF ANCHORS INTO CONCRETE OR MASONRY ELEMENTS PRIOR TO 21-DAY AGE IS ANTICIPATED, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO INSTALLATION FOR DIRECTION.
3. INSTALLATION OF CHEMICAL ADHESIVE ANCHORS IN HORIZONTAL OR OVERHEAD APPLICATIONS SHALL BE INSTALLED BY AN ACI/CSRI CERTIFIED ADHESIVE ANCHOR INSTALLER.
4. HOLES SHALL BE DRILLED 1/8" TO 1/4" LARGER IN DIAMETER THAN ROD OR BAR OUTER DIAMETER, AS SPECIFIED IN ICC-ES OR IAPMO-UES REPORT.
5. BARS/RODS SHALL HAVE EMBEDMENT IN ADHESIVE NOT LESS THAN TEN (10) NOMINAL BAR/ROD DIAMETERS IN CONCRETE, OR AS OTHERWISE SPECIFIED IN DETAILS.
6. INSTALLATION TORQUE FOR ALL ANCHORS SHALL BE REDUCED ACCORDING TO MANUFACTURER'S RECOMMENDATION DUE TO THE VICINITY OF ANCHOR TO EDGE OF CONCRETE.
7. THE BOND STRESSES AS SPECIFIED IN ICC-ES OR IAPMO-UES REPORT SHALL BE BASED ON LONG TERM ELEVATED TEMPERATURES OF NOT LESS THAN 110 DEGREES F.

TESTING AND SPECIAL INSPECTIONS

1. GENERAL
- A) ALL TESTS AND SPECIAL INSPECTIONS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF 2022 CALIFORNIA BUILDING CODE (CBC) SECTION 1701A AND APPROVED FORM DSA-103, "STATEMENT OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS."
- B) ALL TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC) SECTION 4-335.
- C) THE OWNER SHALL EMPLOY AND PAY THE INSPECTION/TESTING LABORATORY. COSTS OF RE-TESTING MAY BE BACK-CHARGED TO THE CONTRACTOR.
- D) INSPECTOR SHALL BE APPROVED BY DSA. INSPECTIONS SHALL BE IN ACCORDANCE WITH CAC SECTION 4-333(b), AND THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH CAC SECTION 4-342.
- E) COPIES OF ALL TEST/INSPECTION REPORTS SHALL BE SUBMITTED TO ARCHITECT, STRUCTURAL ENGINEER, PROJECT INSPECTOR, AND DSA-SSS.
2. FOUNDATIONS (DRILLED PIERS, FOOTINGS, GRADE BEAMS), WALLS AND SLABS-ON-GRADE:
- A) NOTIFY ENGINEER AND PROJECT INSPECTOR 48 HOURS BEFORE CONCRETE IS TO BE PLACED OR FORMS CLOSED TO ALLOW FOR INSPECTION OF EXCAVATIONS AND REINFORCING PLACEMENT.
- B) SPECIAL INSPECTION IS REQUIRED PER CBC SECTION 1705A.3.
- C) THE TESTING AGENCY SHALL PERFORM THE FOLLOWING:
- * REVIEW ALL CONCRETE MIX DESIGNS. ALL DESIGNS SHALL BE SUBMITTED TO AND APPROVED BY TESTING AGENCY PRIOR TO ORDERING CONCRETE.
 - * FOR EACH CONCRETE MIX PLACED, AGENCY SHALL CAST (4) TEST CYLINDERS IN ACCORDANCE WITH ASTM C31 FOR EACH 50 CUBIC YARDS OR 2000 SQUARE FEET, OR FRACTION THEREOF, OF CONCRETE PLACED EACH DAY, AND TRANSPORT CYLINDERS TO LAB.
 - TEST CYLINDERS IN ACCORDANCE WITH ASTM C39. TEST (1) CYLINDER AT 7 DAYS AND (2) CYLINDERS AT 28 DAYS. HOLD LAST TEST CYLINDER FOR 60 DAYS.
 - * INSPECT FINAL PLACEMENT OF ALL REINFORCING AND STEEL EMBEDS AS INDICATED ON DETAILS PRIOR TO CONCRETE PLACEMENT.
 - * CONTINUOUS INSPECTION OF CONCRETE PLACEMENT FOR ALL DRILLED PIERS AND GRADE BEAM FOOTINGS.
- D) SEE ITEM 7 BELOW FOR INSPECTIONS BY GEOTECHNICAL ENGINEER.
3. POST-INSTALLED ANCHORS IN CONCRETE AND CONCRETE MASONRY:
- A) GENERAL - APPLICABLE TO ALL ANCHORS AND DOWELS:
- 1) ALL EXPANSION ANCHORS, SCREW ANCHORS AND ADHESIVE ANCHOR SYSTEMS USED SHALL HAVE ICC-ES OR IAPMO-UES APPROVAL.
- 2) PERIODIC SPECIAL INSPECTION IS REQUIRED FOR ALL ANCHORS.
- B) EXPANSION ANCHORS IN CONCRETE & MASONRY:
- 1) PULL-TEST OR TORQUE-TEST 100% OF ANCHORS EXCEPT AS NOTED; PULL-TEST OR TORQUE-TEST 10% OF SOLE PLATE ANCHOR BOLTS AND 50% OR ALTERNATE ANCHORS FOR EQUIPMENT ANCHORAGE AND IN NON-STRUCTURAL APPLICATIONS.
- 2) PULL-TEST LOAD VALUES SPECIFIED BELOW ARE BASED ON (1-1/4) TIMES THE MAXIMUM DESIGN TENSION STRENGTHS AS PROVIDED IN THE ICC-ES REPORT FOR HILTI KWIK-BOLT T22 (ESR-4266) IN CONCRETE, IN ACCORDANCE WITH CBC SECTION 1910A.5.4.
- 3) PULL-TEST ANCHORS IN TENSION WITH CALIBRATED HYDRAULIC RAM TO VALUES SPECIFIED BELOW.
- | ANCHOR | NOMINAL EMBEDMENT DIAMETER | CONC. TEST LOAD (LBS.) | INST. TORQUE (FT.-LBS.) |
|--------|----------------------------|------------------------|-------------------------|
| 1/2" | 3/4" | 4050 | 50 |
| | 4 5/8" | 5525 | 40 |
- 4) ALTERNATIVELY, TORQUE-TEST ANCHORS WITH CALIBRATED TORQUE WRENCH TO VALUES SPECIFIED IN MANUFACTURER'S ICC-ES OR IAPMO-UES REPORT FOR RECOMMENDED INSTALLATION TORQUE WITHIN 1/4 TURN OF THE NUT FOR 3/8" SLEEVE ANCHOR ONLY AND WITHIN 1/2 TURN OF THE NUT FOR ALL OTHER ANCHORS.
4. STRUCTURAL STEEL IDENTIFICATION:
- A) TESTING LAB SHALL ENSURE THAT MATERIAL GRADES OF STEEL PROVIDED COMPLY WITH THOSE SPECIFIED ON STRUCTURAL DRAWINGS AND IN PROJECT SPECIFICATIONS.
- B) MATCH MILL CERTIFICATES WITH HEAT NUMBERS ON ALL MEMBERS/BUNDLES. SEOR SHALL BE NOTIFIED OF ANY MATERIAL THAT IS NOT SO IDENTIFIED.
5. WELDING OF STRUCTURAL AND REINFORCING STEEL. TESTING LAB SHALL:
- A) VERIFY CERTIFICATION OF WELDERS AT START OF WORK.
- B) REVIEW WELDING PROCEDURE SPECIFICATIONS SUBMITTED BY FABRICATOR.
- C) PROVIDE CONTINUOUS INSPECTION OF ALL COMPLETE AND PARTIAL PENETRATION GROOVE WELDS, AND ALL FILLET WELDS 3/8" AND LARGER.
- D) PROVIDE PERIODIC INSPECTION OF ALL FILLET WELDS 5/16" AND SMALLER.
- E) TEST WELDS AS DEEMED NECESSARY BY THE INSPECTION AGENCY TO ENSURE ADEQUACY OF WELDS AND CONFORMANCE TO THE DRAWINGS AND SPECIFICATIONS.
6. ADDITIONAL INSPECTIONS BY STRUCTURAL ENGINEER: ARCHITECT AND ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE FOLLOWING TO ALLOW FOR INSPECTION OF THE RESPECTIVE WORK PRIOR TO ENCLOSING IN FINISHES:
- A) AT SUBSTANTIAL COMPLETION OF ANY AREA OF FOUNDATION WORK AND RETAINING WALLS PRIOR TO CLOSING OF FORMS OR PLACEMENT OF CONCRETE.
7. INSPECTIONS BY GEOTECHNICAL ENGINEER: AS SPECIFIED IN GEOTECHNICAL REPORT.

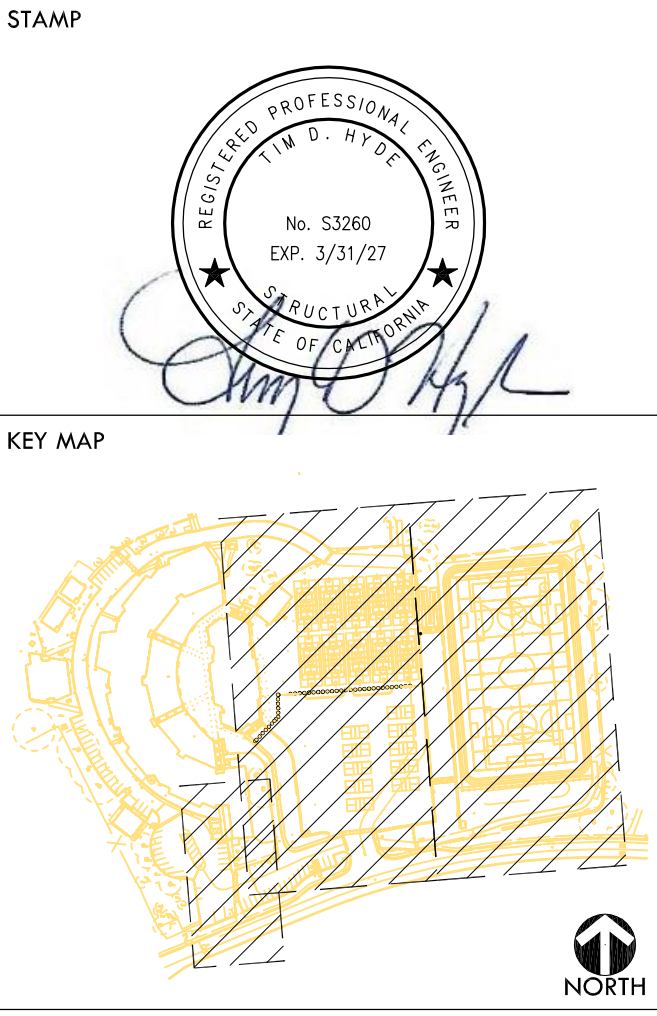
SHOP DRAWING SUBMITTALS

1. 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
2. SEE SPECIFICATIONS FOR OTHER SUBMITTALS AND SUBMITTAL PROCEDURE.



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STRUCTURAL
GENERAL NOTES

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

PROJECT ADDRESS
**2570 WESTBOROUGH BLVD
SOUTH SAN FRANCISCO
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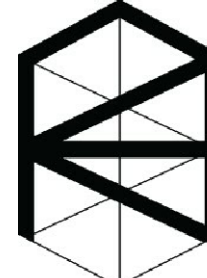
SUBMITTAL	DATE
DSA SUBMITTAL	12/10/24
DSA BACKCHECK SUBMITTAL	03/12/25

NO.	REVISIONS	DATE
1	BID ADDENDUM	03/14/25
2		
3		
4		
5		
6		
7		

DRAWN BY JJQ	CHECKED BY TDH
DATE ISSUED 03/12/2025	SCALE NO SCALE
VDR PROJ. NO. 2320400	SSFSUD PROJ. NO. 025-960
SHEET NO. S1.1	

STRUCTURAL GENERAL NOTES

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