

CONSTRUCTION DRAWINGS FOR HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

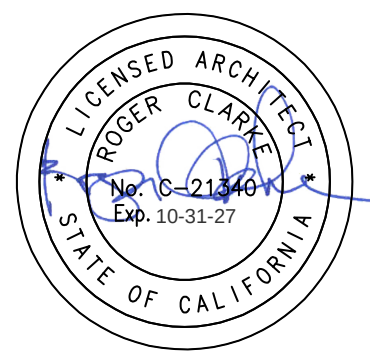
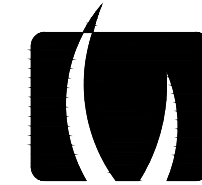
4366 W 129TH STREET

HAWTHORNE, CA 90250

HAWTHORNE SCHOOL DISTRICT PROJECT NO. 2214601

VERDE DESIGN, INC. PROJECT NO. 2223000

PREPARED BY



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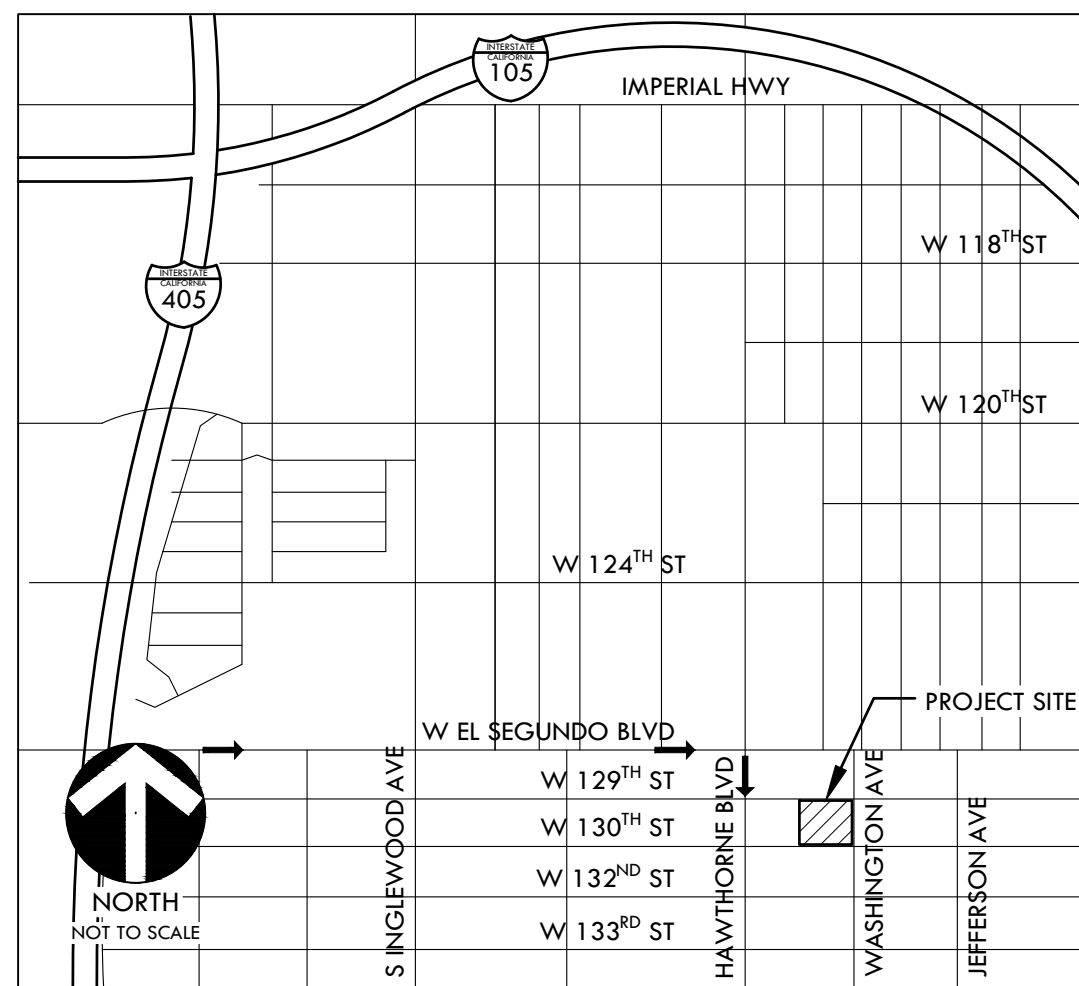
SCOPE OF WORK

SCOPE OF WORK TO INCLUDE, BUT NOT LIMITED TO, DEMOLITION AND REMOVAL OF EXISTING NATURAL GRASS FIELD, EXISTING BACKSTOP FENCING, EXISTING ASPHALT PAVING, CONCRETE CURB UNDER FENCE, ACCESSIBLE RAMP AND RAILING, AND REMOVAL OF ACCESSIBLE PARKING STALL STRIPING. IMPROVEMENTS TO ALSO INCLUDE, BUT NOT LIMITED TO, INSTALLATION OF A NEW ALL-WEATHER TRACK SURFACE, NEW SYNTHETIC TURF FIELD, NEW ACCESSIBLE RAMP AND RAILING, NEW ACCESSIBLE PARKING STALL STRIPING, ACCESSIBILITY PATH OF TRAVEL IMPROVEMENTS, UNIT "A" AND UNIT "E" RESTROOM IMPROVEMENTS RELATIVE TO ACCESS AND CFC COMPLIANCE, CONCRETE PATHWAYS, DRAINAGE, IRRIGATION IMPROVEMENTS, AND TRACK AND FIELD LIGHTING.

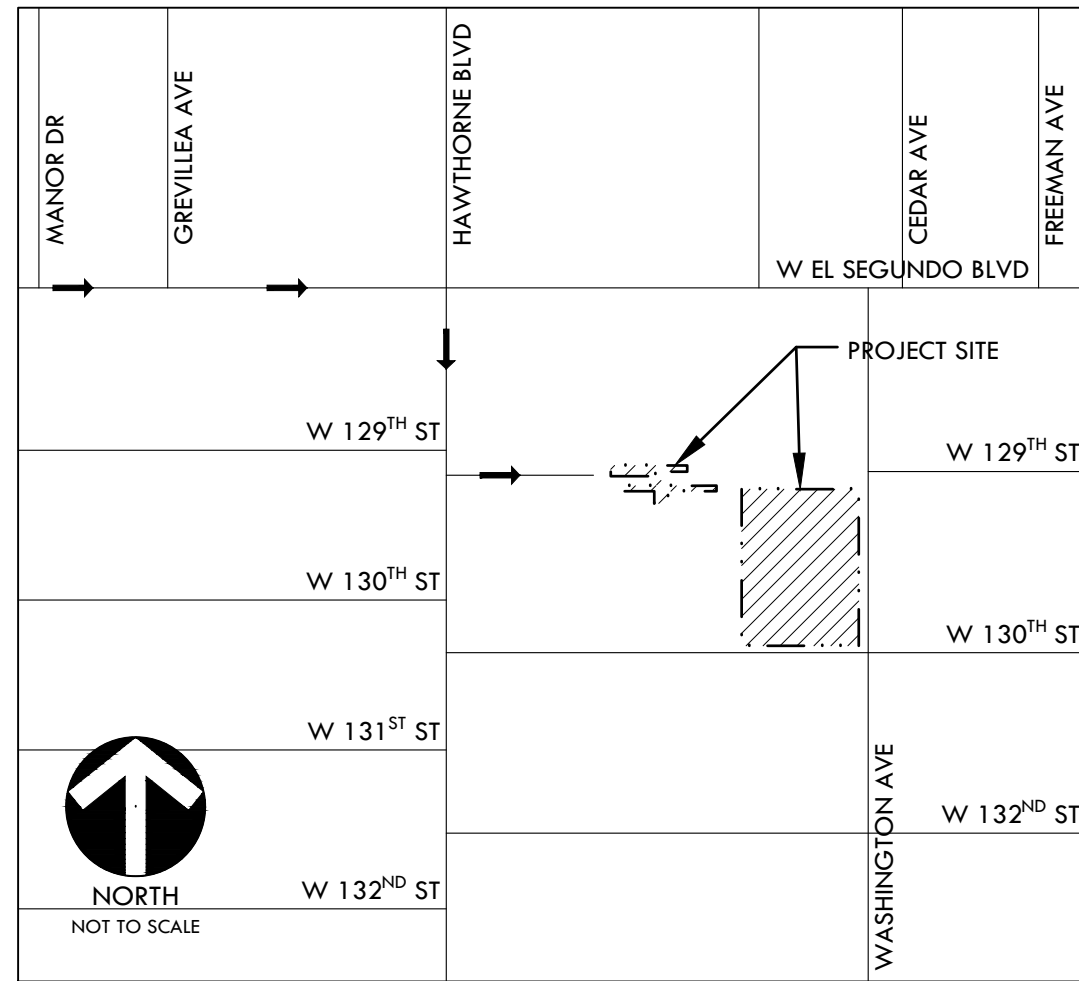
CONTACT INFORMATION

ORGANIZATION	NAME	PHONE	EMAIL
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CIVIL ENGINEER/ LANDSCAPE ARCHITECT VERDE DESIGN INC.	DEVIN CONWAY CHRIS GIANNINI	(408) 850-3420 (951) 221-3142	devin@verdedesigninc.com chrisg@verdedesigninc.com
ARCHITECT RUHNAU CLARKE ARCHITECTS	ALVIN FLORES	(951) 684-4664	aflores@ruhnaucclarke.com
ELECTRICAL ENGINEER FBA ENGINEERING	BILL ZAVRSNICK	(949) 852-9995	billz@fbaengr.com

PROJECT MAP



VICINITY MAP



SITE MAP

APPLICABLE CODES

- 2025 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.

2025 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2024 INTERNATIONAL BUILDING CODE VOLUMES 1-2)
2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2023 NATIONAL ELECTRICAL CODE)
2025 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2024 UNIFORM MECHANICAL CODE)
2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2024 UNIFORM PLUMBING CODE)
2025 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2025 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2024 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2025 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
(2024 INTERNATIONAL EXISTING BUILDING CODE)
2025 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.
2025 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 III: 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 2025 EDITION
NFPA 14 STANDPIPE SYSTEMS 2024 EDITION
NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEMS 2024 EDITION
NFPA 17A WET CHEMICAL EXTINGUISHING SYSTEMS 2024 EDITION
NFPA 20 STATIONARY FIRE PUMPS 2025 EDITION
NFPA 24 PRIVATE FIRE SERVICE MAINS 2025 EDITION
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) 2025 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 2025 EDITION
ASME 17.1 ELEVATOR STANDARD 2025 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)

- 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 WHEREIN 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 OWNER REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.

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

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 DISTRICT 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 DISTRICT .
- 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 DISTRICT , 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 DISTRICT 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 DISTRICT .
- 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 DISTRICT .
- ALL WORK SHALL CONFORM TO THE 2025 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR), 2025 TITLE 24, CALIFORNIA PLUMBING CODE, 2025 TITLE 24, CALIFORNIA FIRE CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, AS WELL AS ADAPTED STANDARDS.
- 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 SHORINGS DESIGN AND INSTALLATION.
- ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE DISTRICT 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 DISTRICT AND INSPECTOR OF RECORD PRIOR TO COMMENCING WORK.
- ALL TEMPORARY WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- THE PLANS AND SPECIFICATIONS DO NOT UNDERTAKE TO SHOW OR LIST EVERY ITEM TO BE PROVIDED, BUT RATHER TO DEFINE THE REQUIREMENTS FOR A FULL AND WORKING SYSTEM FROM THE STANDPOINT OF THE END USER. FOR THIS REASON, WHEN AN ITEM NOT SHOWN OR LISTED IS CLEARLY NECESSARY FOR PROPER CONTROL/OPERATION OF EQUIPMENT WHICH IS SHOWN OR LISTED, THE CONTRACTOR SHALL PROVIDE AN ITEM WHICH WILL ALLOW THE SYSTEM TO FUNCTION PROPERLY AT NO INCREASE IN PRICE.
- ALL CONTRACTORS SHALL REMOVE TRASH AND DEBRIS STEMMING FROM THEIR WORK ON A DAILY BASIS. PROJECT SITE SHALL BE MAINTAINED IN A CLEAN AND ORDERLY CONDITION.
- THE DETAILS REFLECT THE DESIGN INTENT FOR TYPICAL CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND SHALL INCLUDE, IN HIS SCOPE, THE COST FOR COMPLETE FINISHED INSTALLATIONS, INCLUDING ANOMALIES, OF ALL TRADES.
- NO WORK SHALL COMMENCE WITH UNAPPROVED MATERIALS. ANY WORK DONE WITH UNAPPROVED MATERIALS AND EQUIPMENT IS AT THE CONTRACTOR'S RISK AND IS SUBJECT TO REJECTION AND REPLACEMENT. SEE SPECIFICATIONS FOR SUBMITTAL AND SUBSTITUTION REQUIREMENTS.
- CONSTRUCTION MATERIALS STORED ON THE SITE SHALL BE PROPERLY STACKED AND PROTECTED SO AS TO PREVENT DAMAGE OR DETERIORATION UNTIL USED. FAILURE IN THIS REGARD MAY BE CAUSE FOR REJECTION OF MATERIAL AND/OR WORK.
- ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL PERFORM THEIR CONSTRUCTION AND OPERATIONS IN A MANNER WHICH WILL NOT ALLOW HARMFUL POLLUTANTS TO ENTER THE STORM DRAIN SYSTEM. TO ENSURE COMPLIANCE, THE CONTRACTOR SHALL IMPLEMENT THE APPROPRIATE BEST MANAGEMENT PRACTICE (BMP) AS OUTLINED IN THE BROCHURES ENTITLED "BEST MANAGEMENT PRACTICE FOR THE CONSTRUCTION INDUSTRY" ISSUED BY THE CALIFORNIA STORM WATER QUALITY ASSOCIATION, NONPOINT SOURCE POLLUTION CONTROL PROGRAM, TO SUIT THE CONSTRUCTION SITE AND JOB CONDITION. THE CONTRACTOR SHALL PRESENT HIS 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 DISTRICT'S DIRECTION.
- OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.
- CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
- 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.
- 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.

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION
C0.0	COVER SHEET
LANDSCAPE/CIVIL DRAWINGS (VERDE)	
L1.0-L1.1	EXISTING CONDITIONS SURVEY PLAN
L2.0	ACCESSIBILITY PLAN
L2.1	ACCESSIBLE DETAIL
L3.0	EROSION CONTROL PLAN
L4.0	DEMOLITION PLAN
L5.0	GRADING PLAN
L6.0	DRAINAGE PLAN
L7.0	HORIZONTAL CONTROL PLAN
L8.0	MATERIAL AND DETAIL REFERENCE PLAN
L9.0	IRRIGATION & PLANTING PLAN
D1.0	DRAINAGE DETAILS
D1.1	DRAINAGE DETAILS
D2.0	CONSTRUCTION DETAILS
D2.1	CONSTRUCTION DETAILS
D3.0	IRRIGATION & PLANTING DETAILS

ARCHITECTURAL DRAWINGS (RUHNAU CLARKE ARCHITECTS)

AS-1.1	ENLARGED RESTROOM PLAN & INTERIOR ELEVATIONS
AD-0.1	ACCESSIBILITY DETAILS

ELECTRICAL DRAWINGS (FBA ENGINEERING)

E0.1	GENERAL NOTES, SYMBOL LIST, AND FIXTURE SCHEDULE
E0.2	SINGLE LINE DIAGRAM & PANEL SCHEDULE
E1.0	SITE ELECTRICAL PLAN
E2.0	ELECTRICAL SPECIFICATIONS
E2.1	ELECTRICAL SPECIFICATIONS

C0.0

COVER SHEET

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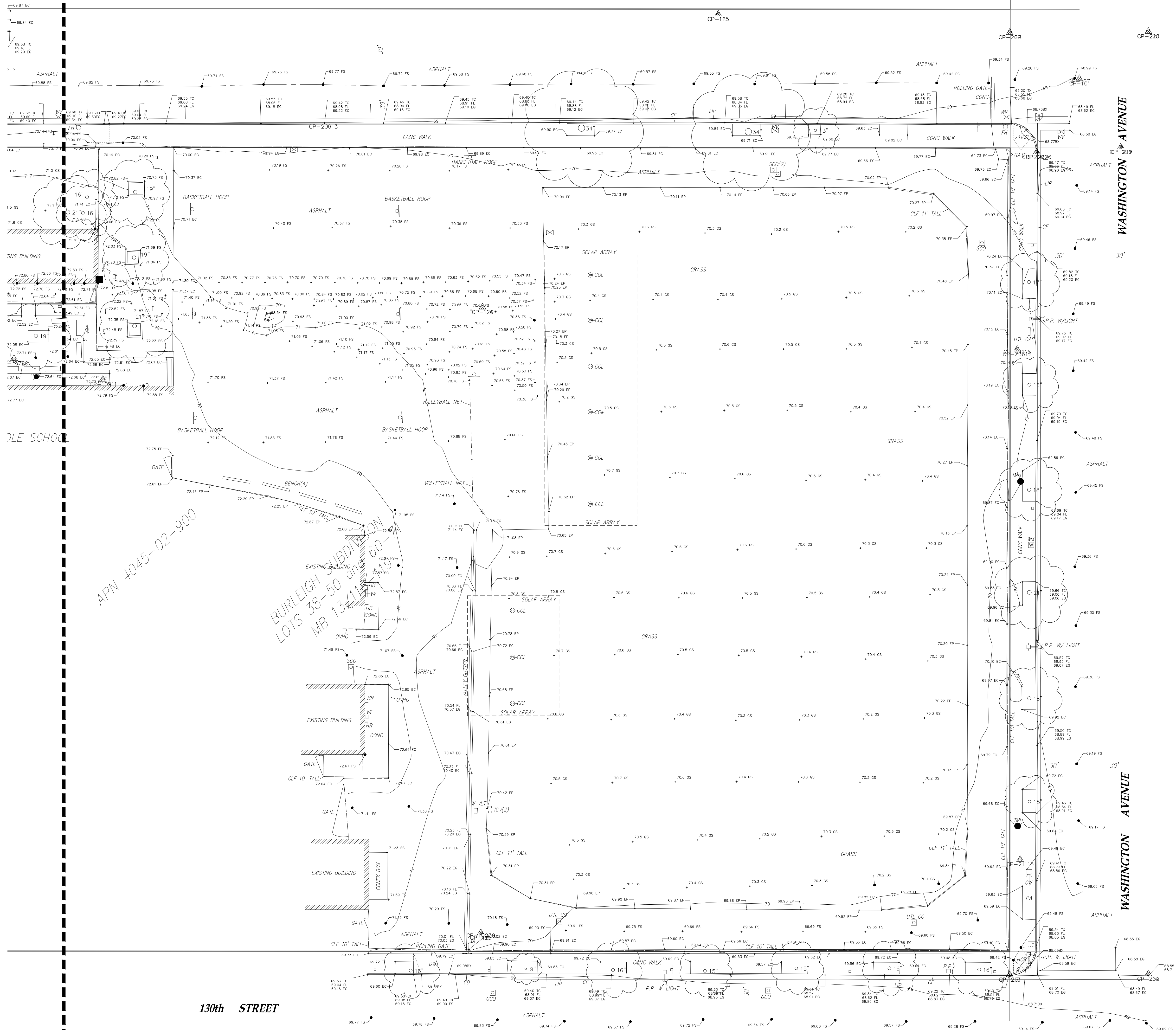
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PLOT DATE: 09-01-26
PLOTTED BY: station14

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

DSA SUBMITTAL - 06/10/26

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MATCHLINE - REFER TO SHEET L1.1



SHEET INFO AND REFERENCE

- THIS TOPOGRAPHIC SURVEY WAS PROVIDED BY IMEG - (TELEPHONE) (909) 477-6915 (ADDRESS) 901 VIA PIEMONTE, ONTARIO, CA 91764.
- ADDITIONAL INFORMATION (SHOWN SCREENED) IS FROM RECORD DRAWINGS PROVIDED BY THE OWNER AND SITE INVESTIGATIONS BY VERDE DESIGN.
- NOTE THAT THIS IS NOT A COMPLETE UNDERGROUND SURVEY. THIS DRAWING CONTAINS ONLY PARTIAL INFORMATION FOR THE EXISTING IRRIGATION, SANITARY SEWER, STORM DRAIN SYSTEMS, ETC. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS.

BASIS OF BEARING

THE BASIS OF BEARING FOR THIS SURVEY IS BASED ON THE CENTERLINE OF EL SEGUNDO BOULEVARD BEING HELD AS S89°58'30"E AS PER TRACT MAP RECORDED IN BOOK 13, PAGES 118-119, OF MAPS, RECORDS OF LOS ANGELES COUNTY, CALIFORNIA.

BENCH MARK

LOS ANGELES COUNTY PUBLIC WORKS SURVEY SECTION

BM NUMBER: QY12543
DATUM: NAVD 88
ELEVATION: 66.258 FEET

DESCRIPTION: L&TAG LSH2625 IN CB @ S 81° W ROSECRANS AVE 2FT W/O ANGLE PT @ SW COR HAWTHORNE BLVD

SURVEYOR NOTE

THE SURVEY WAS COMPILED USING RECORD SURVEY MAPS. NO TITLE REPORT WAS SUPPLIED TO THE SURVEYOR. THE SURVEYOR CLAIMS NO RESPONSIBILITY FOR THE ACCURACY OF BOUNDARY LINES, EASEMENTS AND/OR ANY OTHER RESTRICTIONS AFFECTING THE PROPERTY THAT NOT SHOWN, IF ANY.

UTILITY NOTE

THE LOCATION OF UTILITIES ARE SHOWN HEREON BY OBSERVED EVIDENCE ONLY.

SURVEY LEGEND

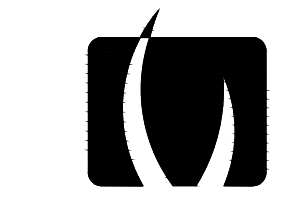
ABBREVIATIONS

BFP	BACKFLOW PREVENTOR
BX	BOTTOM OF TRANSITION
CAB	CABINET
CD	CURB DRAIN
CF	CURB FACE
CLF	CHAIN LINK FENCE
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
DWY	DRIVEWAY
E	ELECTRIC
EC	EDGE OF CONCRETE
EG	EDGE OF GUTTER
EP	EDGE OF PAVEMENT
E.T.	ELECTRICAL TRANSFORMER
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FL	FLOWLINE
FS	FINISHED SURFACE
G	GAS
GH	GAS HANDHOLE
GM	GAS METER
GS	GROUND SHOT
GW	GUY WIRE
HCR	HANDICAP RAMP
HR	HAND RAIL
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
LIP	LIP OF GUTTER
LP	LIGHT POLE
MH	MANHOLE
OVHG	OVERHANG
PA	PLANTER AREA
PB	PULL BOX
P.P.	POWER POLE
S	SEWER
T	TELECOMMUNICATIONS
TC	TOP OF CURB
TX	TOP OF TRANSITION
UTL	UTILITY
VLT	VAULT
WF	WATER FOUNTAIN
WIF	WROUGHT IRON FENCE
WM	WATER METER
WV	WATER VALVE
+	INDICATES APPROX. TREE TRUNK DIAMETER
()	INDICATES QUANTITY IN AREA

---	CHAIN LINK FENCE
---	WROUGHT IRON FENCE
---	PROPERTY BOUNDARY LINE
---	PARCEL LINE
---	UNDERLYING LOT LINE
---	RIGHT-OF-WAY LINE
---	BREAKLINE
---	CENTERLINE
---	CONTOUR
100.00	SPOT ELEVATION
○	CONTROL POINT
+	SIGN
+	ADA STALL
○	DECIDUOUS TREE
●	BOLLARD
○	BASKETBALL HOOP

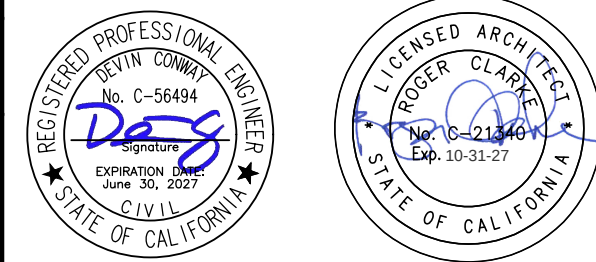


0' 10' 20' 40' 80'

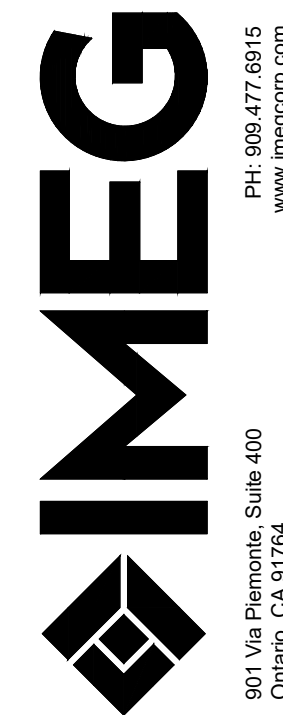


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SHEET TITLE

EXISTING CONDITIONS
SURVEY PLAN

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST,
HAWTHORNE, CA 90250

SUBMITTAL

DATE

DESIGN DEVELOPMENT SUBMITTAL

11/26/25

DSA SUBMITTAL

03/10/26

NO.

REVISIONS

DATE

DRAWN BY

IMEG

CHECKED BY

DC/CG

DATE ISSUED

06/10/2026

SCALE

PROJ. NO.

2223000

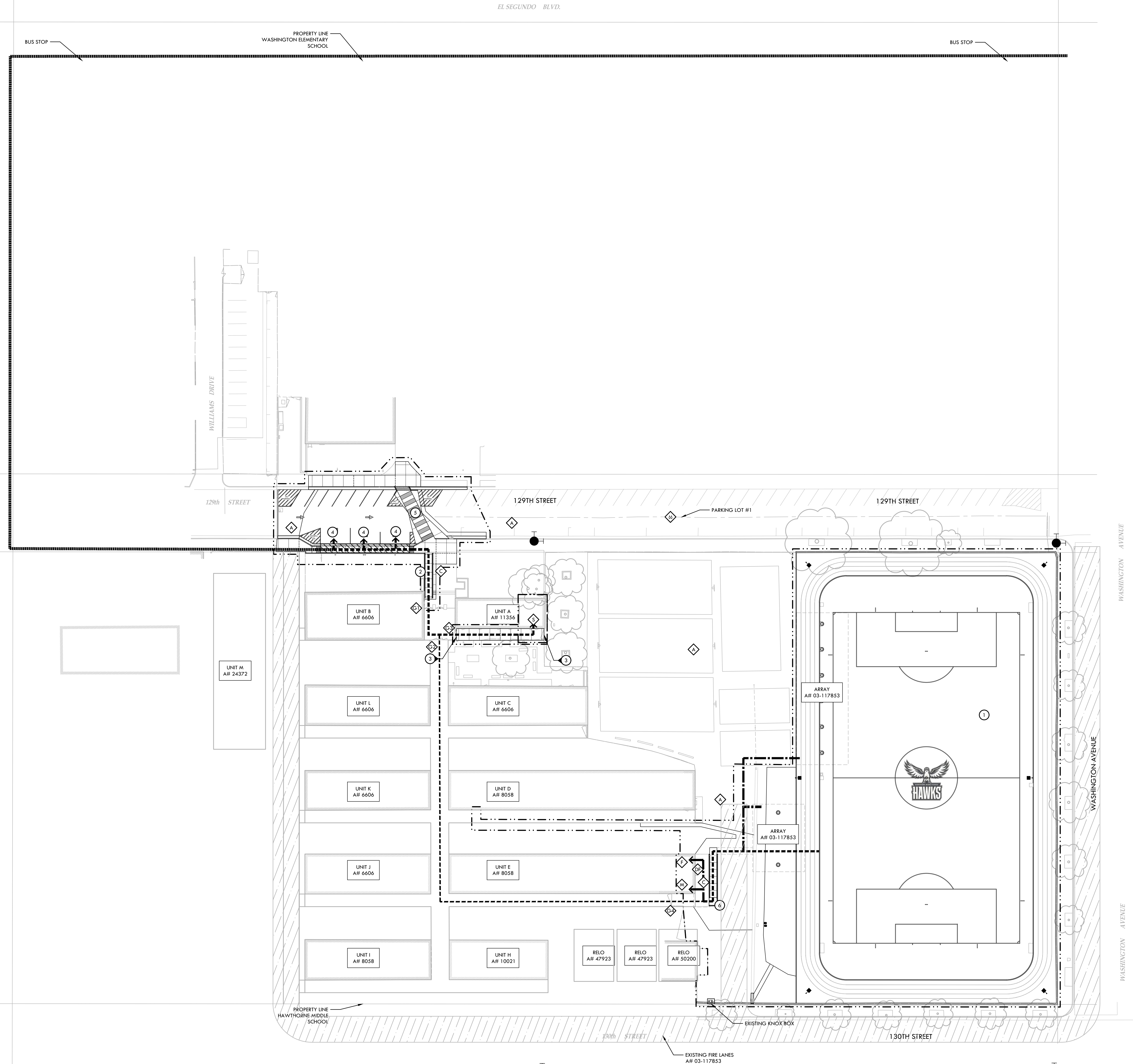
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L1.0

EXISTING CONDITIONS SURVEY PLAN



ALL DESIGN, DRAWINGS, SPECIFICATIONS, AND ANY MATERIALS OR INFORMATION OF ANY KIND, INCLUDING BUT NOT LIMITED TO, THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSES WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



ACCESSIBILITY PLAN NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4" MAX. AND A LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED.
2. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 27" AND LESS THAN 90". ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
3. ACCESSIBLE PARKING
SIGNAGE REQUIREMENTS: THE AMENDED REGULATIONS INDICATE THAT THE SIGNAGE AT ACCESSIBLE PARKING SPACES SHALL INCLUDE "MINIMUM FINE \$250" BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS EITHER AN ADDITIONAL SIGN OR ADDITIONAL LANGUAGE. THIS FINE POSTING REQUIREMENT IS IN ADDITION TO OTHER SIGNAGE REGULATIONS CONTAINED IN THE CALIFORNIA BUILDING CODE FOR ACCESSIBLE PARKING SPACES.
4. STRIPING REQUIREMENTS:
THE REVISED REGULATIONS INDICATE THAT THE ACCESSIBLE PARKING SPACE STRIPING SHALL BE AS FOLLOWS. THE BORDER (PERIMETER) SHALL BE PAINTED BLUE. THE HATCHING WITHIN THE LOADING AND UNLOADING ACCESS AISLE SHALL BE PAINTED A SUITABLE CONTRASTING COLOR TO THE PARKING SPACE AT 3'-0" MAXIMUM ON CENTER. BLUE OR WHITE PAINT IS PREFERRED.
5. DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERNATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS' WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATION INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED IN THESE CONSTRUCTION DOCUMENTS.
6. DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT."

ACCESSIBILITY LEGEND

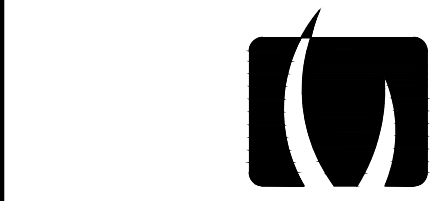
SYM	DESCRIPTION
	PROJECT LIMIT OF WORK
	ADA ACCESSIBLE PATH OF TRAVEL (4 FT. MIN. WIDTH @ 5-5% MAX.)
	ADA ACCESSIBLE POINT OF ENTRY
	PEDESTRIAN CIRCULATION PATH
	EXISTING ACCESSIBLE PATH OF TRAVEL (P.O.T.) A# 117853
	TRUNCATED DOMES, REFER TO DETAIL J, SHEET L2.1.
	NUMBER OF EXISTING PARKING STALLS
	PROPOSED ALL-WEATHER TRACK & SYNTHETIC TURF FIELD
	UPGRADE EXISTING ACCESSIBLE RAMP, REFER TO MATERIALS PLAN, SHEET L8.0
	NEW CONCRETE PAVING AT PATH OF TRAVEL, REFER TO GRADING PLAN, SHEET L5.0
	PROPOSED ADA COMPLIANT PARKING STALLS. REFER TO DETAIL F, SHEET L2.1
	NEW CONCRETE CROSSWALK, REFER TO GRADING PLAN, SHEET L5.0
	PROPOSED SLOPED WALKWAY, REFER TO GRADING PLAN, SHEET L5.0 AND MATERIAL PLAN L8.0
	EXISTING CONCRETE PAVING
	EXISTING ASPHALT PAVING
	EXISTING ACCESSIBLE DRINKING FOUNTAIN, REFER TO DETAIL K, SHEET L2.1
	EXISTING WROUGHT IRON ORNAMENTAL GATE REMAIN OPEN DURING SCHOOL HOURS, REFER TO DETAIL A, SHEET L2.1
	EXISTING CHAINLINK SWING GATE (8' TALL X 4' WIDE) WITH REQUIRED ACCESSIBLE HARDWARE, REFER TO DETAIL B, SHEET L0.3. FIELD WELDED 10" KICK PLATE ON PUSH SIDE, PER DETAIL E, SHEET L2.1.
	EXISTING CHAINLINK SWING GATE (8' TALL X 4' WIDE) WITH REQUIRED ACCESSIBLE HARDWARE, REFER TO DETAIL C, SHEET L0.3. FIELD WELDED 10" KICK PLATE ON PUSH SIDE, PER DETAIL E, SHEET L2.1.
	EXISTING CHAINLINK SWING GATE REMAIN OPEN DURING SCHOOL HOURS, REFER TO DETAIL D, SHEET L2.1
	EXISTING MEN'S ACCESSIBLE RESTROOM, PER PLAN 9, SHEET AS1.1
	EXISTING WOMEN'S ACCESSIBLE RESTROOM, PER PLAN 9, SHEET AS1.1
	EXISTING STAFF ACCESSIBLE RESTROOM, PER PLAN 0, SHEET AS1.1
	(E) FIRE HYDRANT
	KNOX BOX

ACCESSIBLE PARKING

	ACCESSIBLE STALLS	VAN ACCESSIBLE STALLS	TOTAL ACCESSIBLE STALLS	REQUIRED ACCESSIBLE STALLS*	+/-	TOTAL STALLS
PARKING LOT	2	1	3	3	0	70

*NUMBER OF REQUIRED ACCESSIBLE STALLS PER CBC 11B-208.2

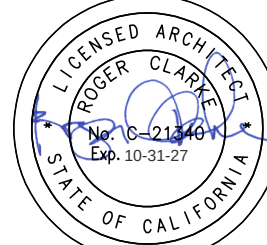
NOTE: THIS DRAWING IS FOR AGENCY APPROVAL ONLY - NOT FOR CONSTRUCTION.



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fax: 408.985.7260
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STAMP



CONSULTANT

SHEET TITLE

**ACCESSIBILITY
AND FIRE ACCESS PLAN**

PROJECT NAME

**HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS**

PROJECT ADDRESS

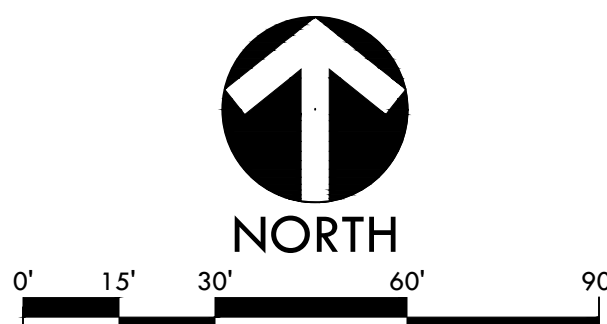
**4366 W 129TH ST,
HAWTHORNE, CA 90250**

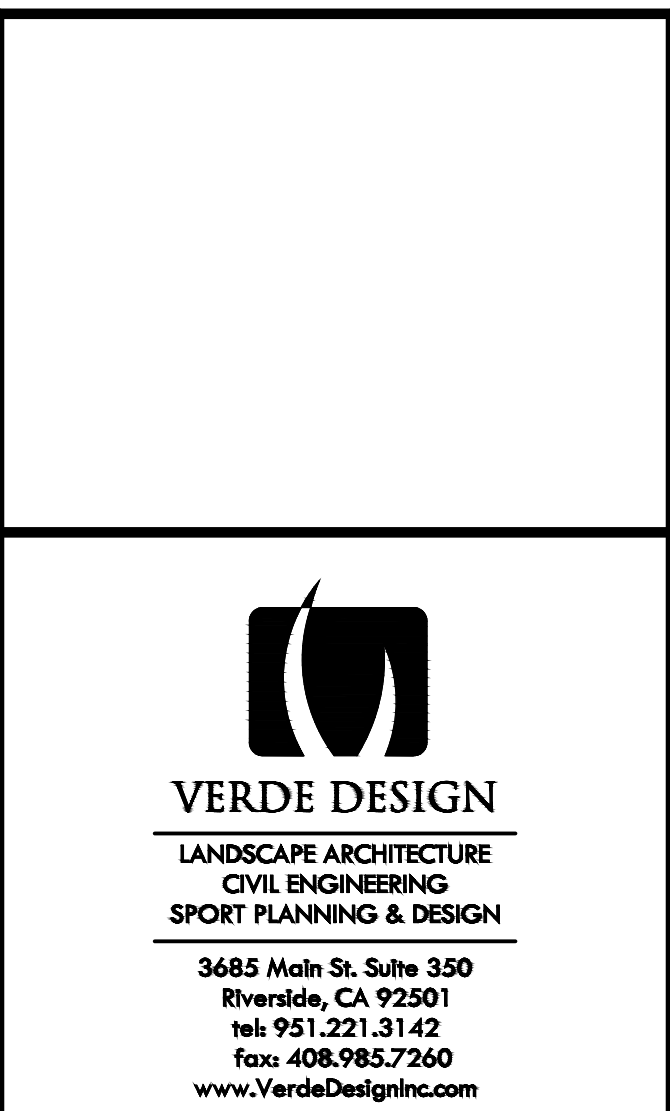
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
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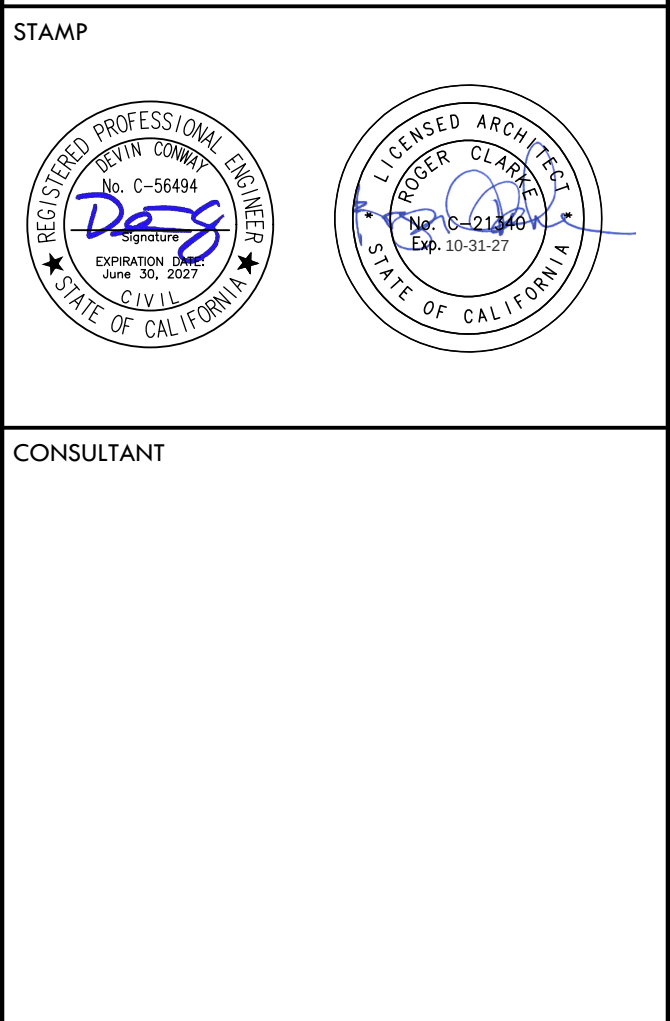
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DATE ISSUED 06/10/2026	SCALE 1"=20'-0"
PROJ. NO. 2223000	

SHEET NO.
L2.0

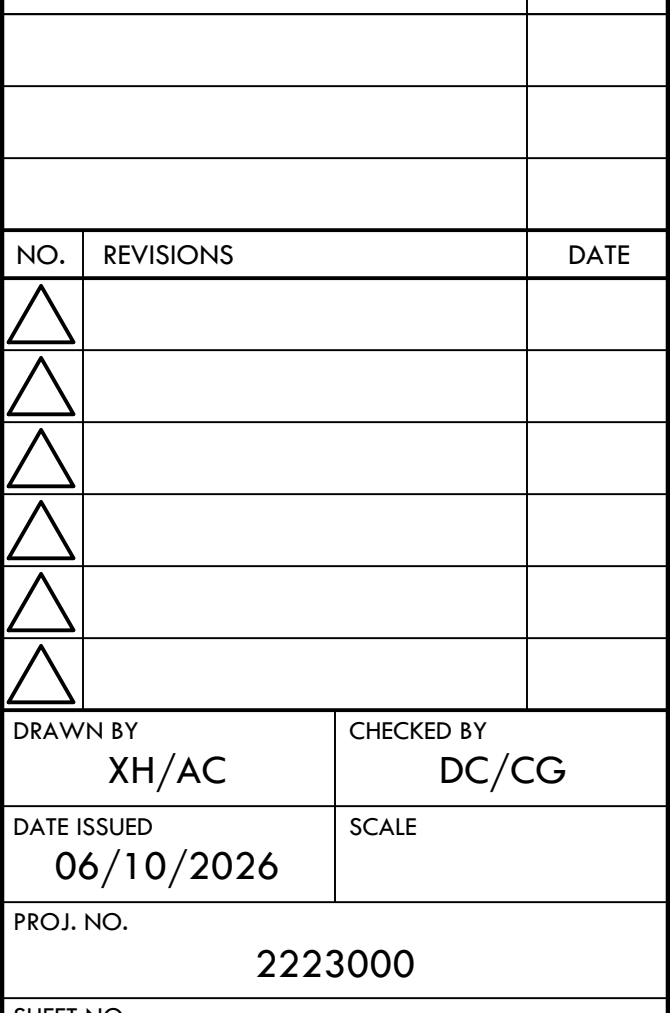




E EXISTING SINGLE SWING GATE IMPROVEMENTS NTS

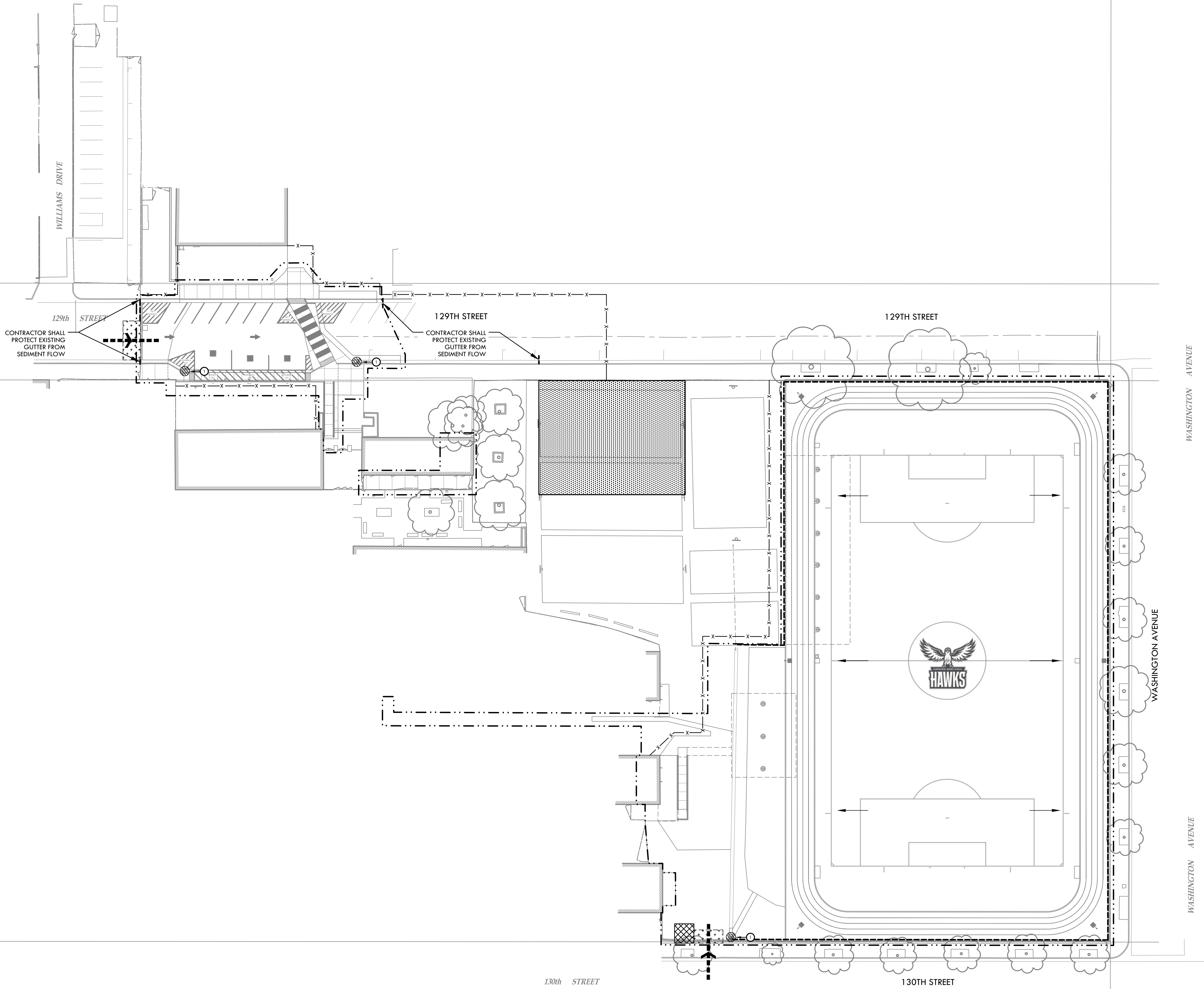


(D) GATE G4 - REMAIN OPEN DURING SCHOOL HOURS



A GATE G1 - REMAIN OPEN DURING SCHOOL HOURS

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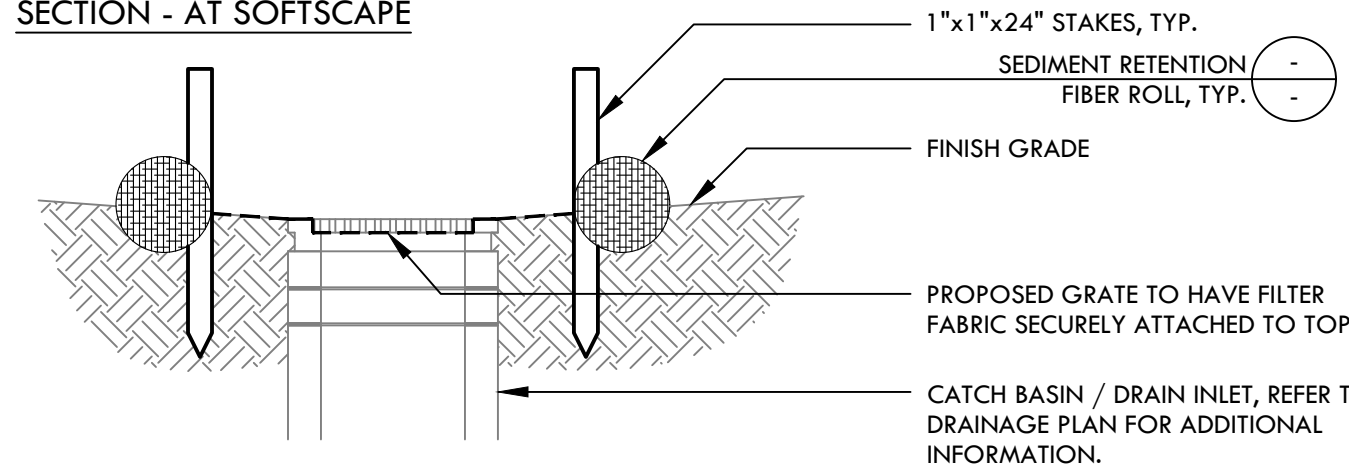
EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL SHALL BE CONSTRUCTED DURING FIRST WEEK OF CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL SHALL REMAIN THROUGHOUT CONSTRUCTION AND BE REMOVED AND DISPOSED OF DURING MAINTENANCE PERIOD.
3. EROSION AND SEDIMENT CONTROL MAY BE ADJUSTED THROUGH CONSTRUCTION WITH APPROVAL OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
4. CONTRACTOR SHALL SWEEP STREETS AND PARKING AREAS AFFECTED BY CONSTRUCTION WITH STREET SWEEPER AS REQUIRED TO KEEP PAVING CLEAN OF CONSTRUCTION DEBRIS.
5. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS AS SHOWN IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). REFER TO SPECIFICATIONS.
6. THIS EROSION CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGE PRACTICES (BMPs) LISTED IN THE SWPPP AND SHALL COMPLY WITH THE STATE REGULATIONS TO CONTROL THE DISCHARGE OF STORMWATER POLLUTANTS.

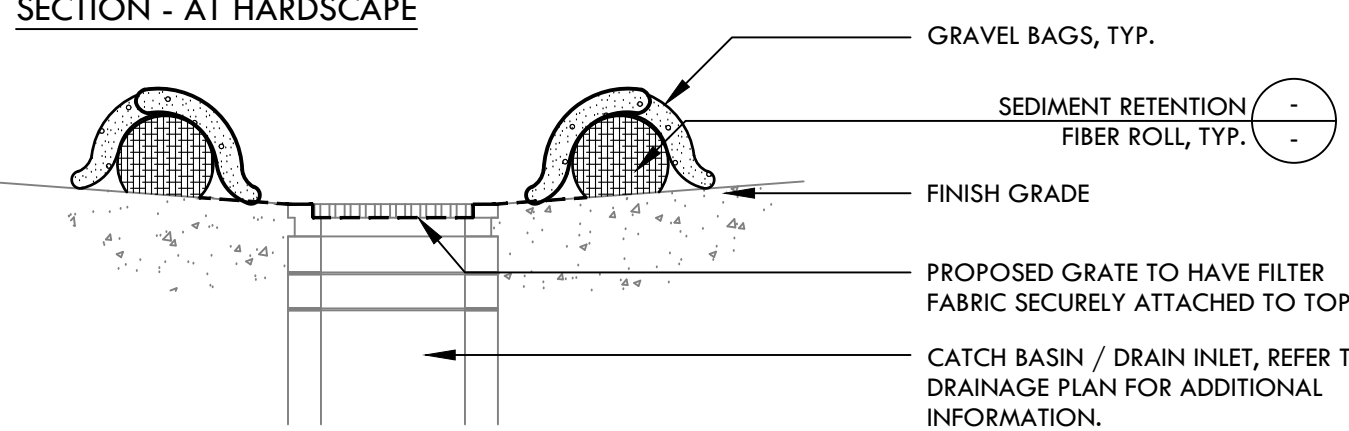
EROSION AND SEDIMENT CONTROL LEGEND

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

SECTION - AT SOFTSCAPE

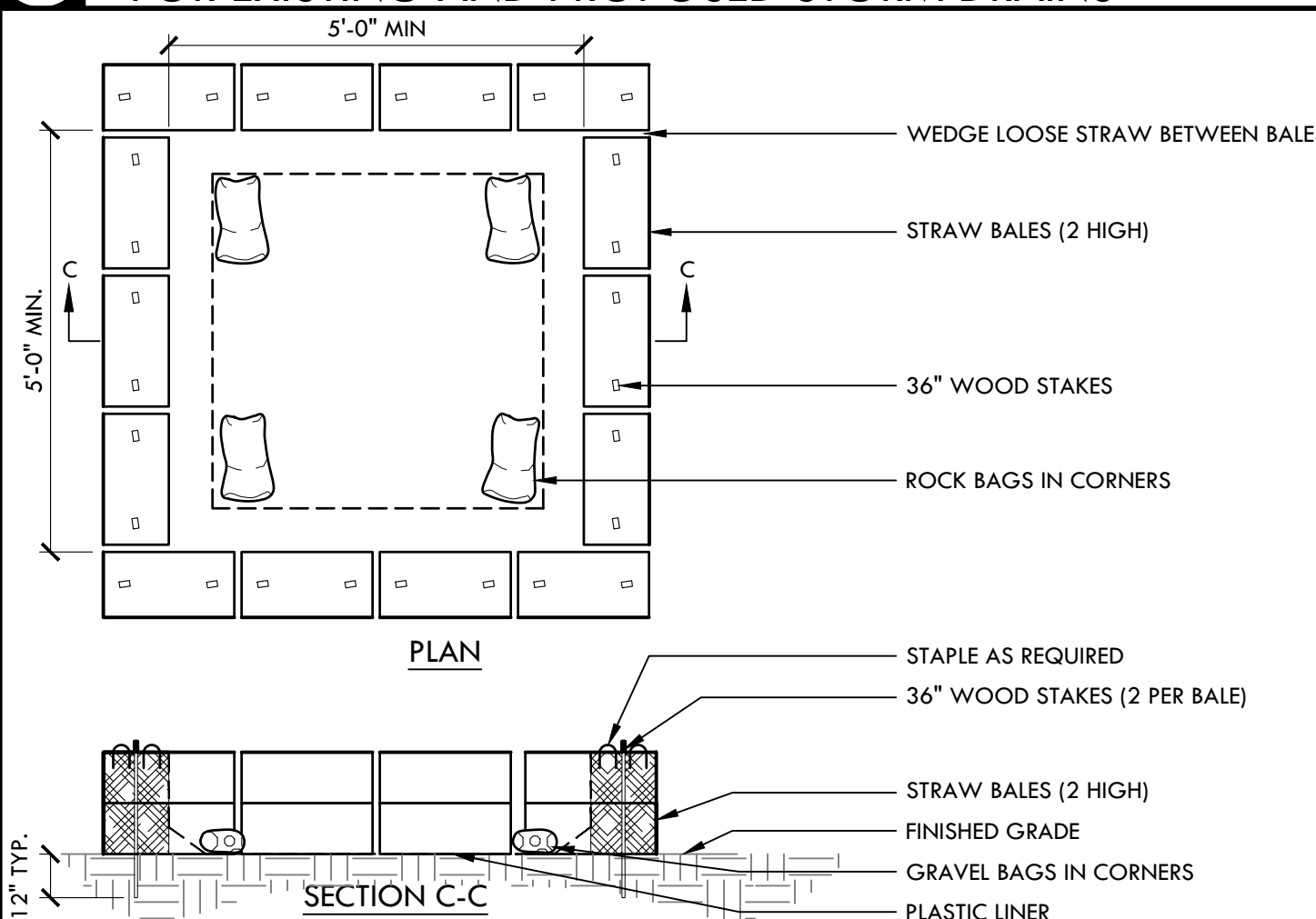


SECTION - AT HARDSCAPE

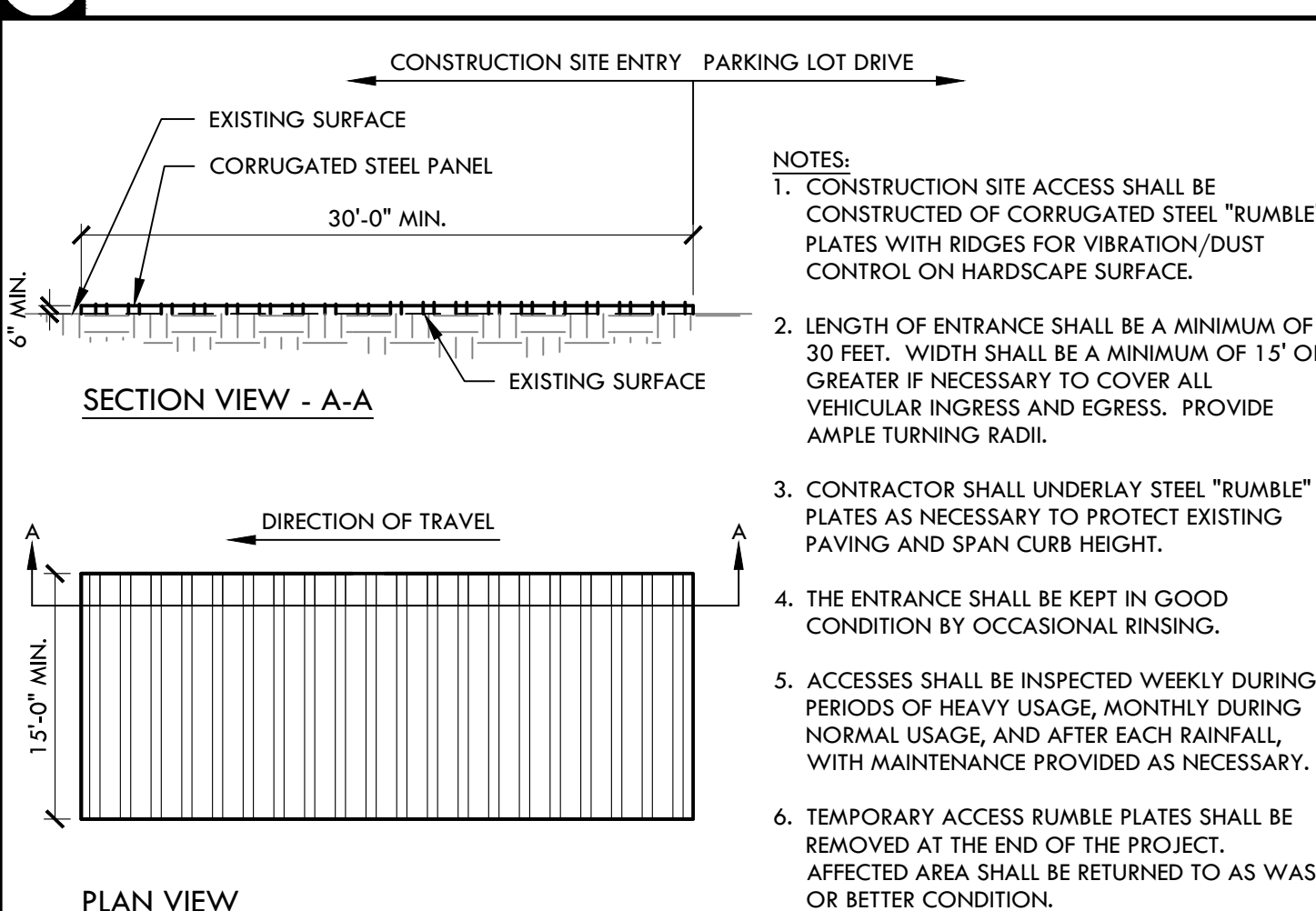
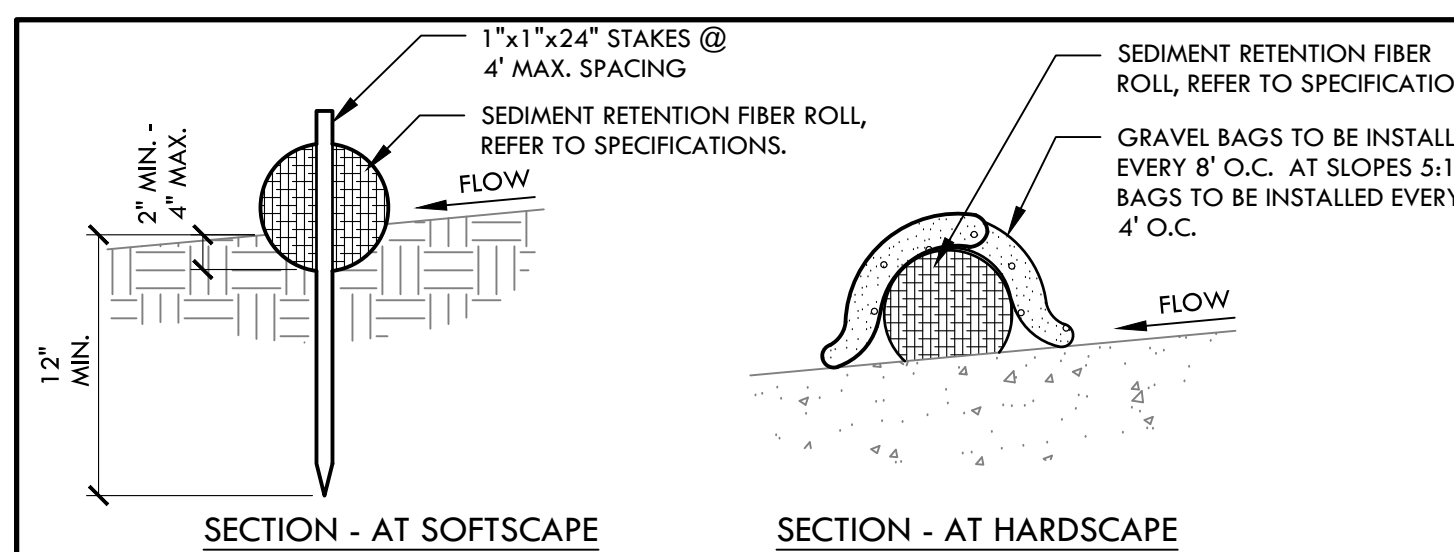


NOTE: CONTRACTOR TO CONFORM TO SEDIMENT RETENTION FIBER ROLL NOTES PROVIDED IN DETAIL X, THIS SHEET.

A STORM DRAIN INLET FILTER FOR EXISTING AND PROPOSED STORM DRAINS NTS



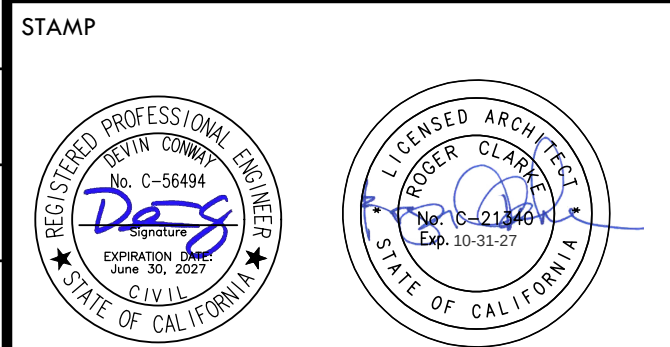
B TEMPORARY CONCRETE WASHOUT FACILITY



- NOTES:
1. INSTALL SEDIMENT RETENTION FIBER ROLLS (FIBER ROLLS / WATTLES) AS LOCATED ON PLANS AND AS REQUIRED PER THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.
 2. FIBER ROLLS SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS FLOW PATH OF POTENTIAL RUN-OFF AND RUN-ON.
 3. PREPARE GRADES REMOVING SURFACE DEVIATIONS, LARGE STONES OR DEBRIS THAT WILL INHIBIT CONTINUOUS CONTACT OF THE FIBER ROLL WITH THE GRADE.
 4. PRIOR TO FILTER ROLL INSTALLATION EXCAVATE A CONCAVE TRENCH 2" MINIMUM - 4" MAXIMUM DEEP ALONG THE PROPOSED FIBER ROLL LOCATION.
 5. INSTALL FIBER ROLLS WITH CONTINUOUS CONTACT OF THE BOTTOM OF THE EXCAVATED TRENCH.
 6. STAKE ROLL ON BOTH SIDES 2' FROM ENDS AND AT 4' MAXIMUM SPACING WITH 1'x1'x24' STAKES. DRIVE STAKES IN ON ALTERNATING SIDES OF THE ROLL AND OVERLAP BUTTING ROLL ENDS 12" MINIMUM.
 7. BACKFILL BOTH SIDES OF WATTLE AND TAMP SOIL TO FIRM AND STABLE.
 8. CONTRACTOR SHALL MAKE WEEKLY INSPECTIONS OR AS INDICATED IN STORMWATER POLLUTION PREVENTION PLAN, OR THE STATE GENERAL PERMIT FOR STORMWATER DISCHARGE.

D SEDIMENT RETENTION FIBER ROLL NTS

C RUMBLE PLATE CONSTRUCTION ENTRY NTS



CONSULTANT

EROSION AND SEDIMENT CONTROL PLAN

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

4366 W 129TH ST,
HAWTHORNE, CA 90250

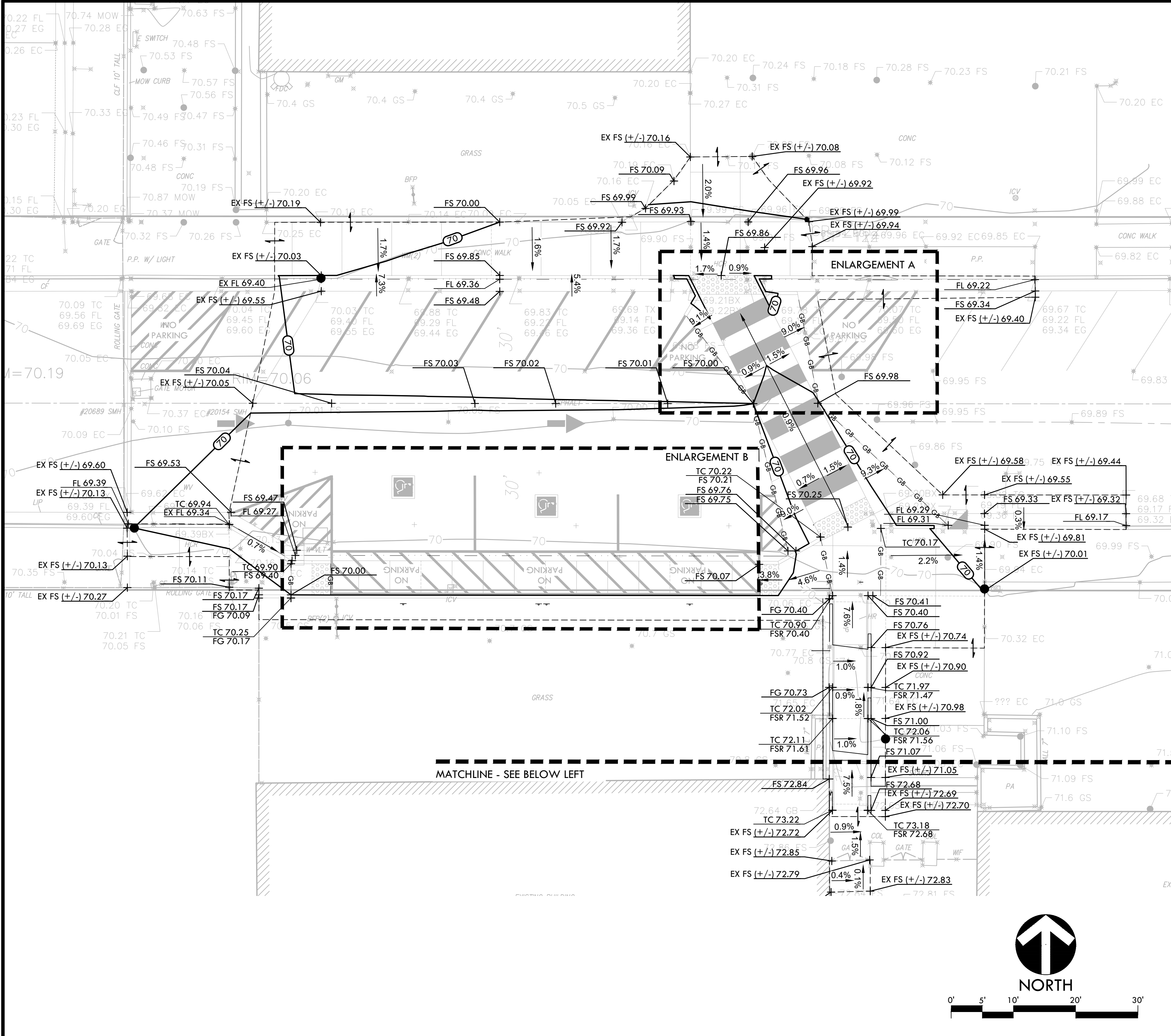
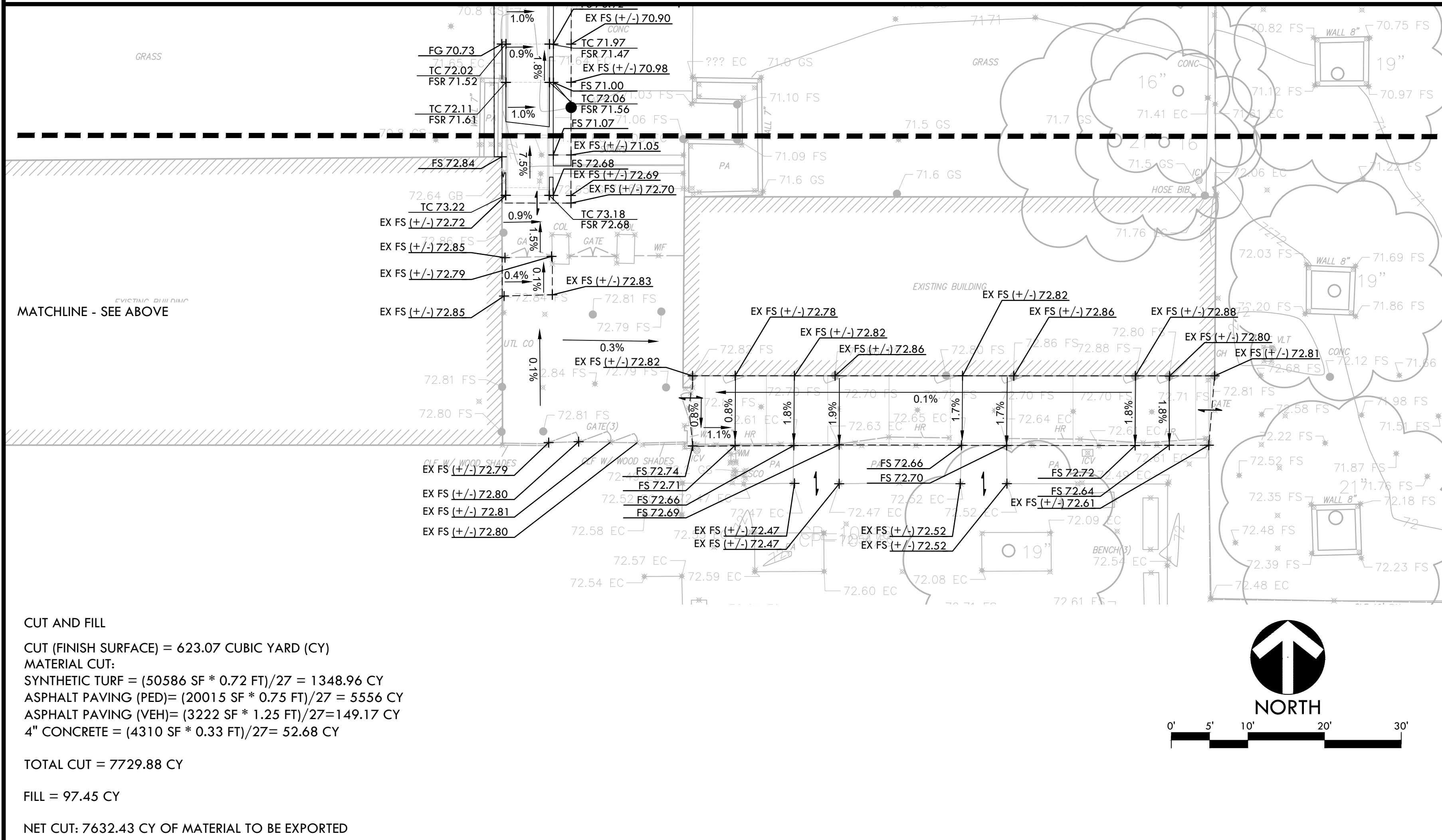
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
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DATE ISSUED	06/10/2026	SCALE	1" = 30'-0"
PROJ. NO.	2223000		

SHEET NO. L3.0

EROSION AND SEDIMENT CONTROL PLAN



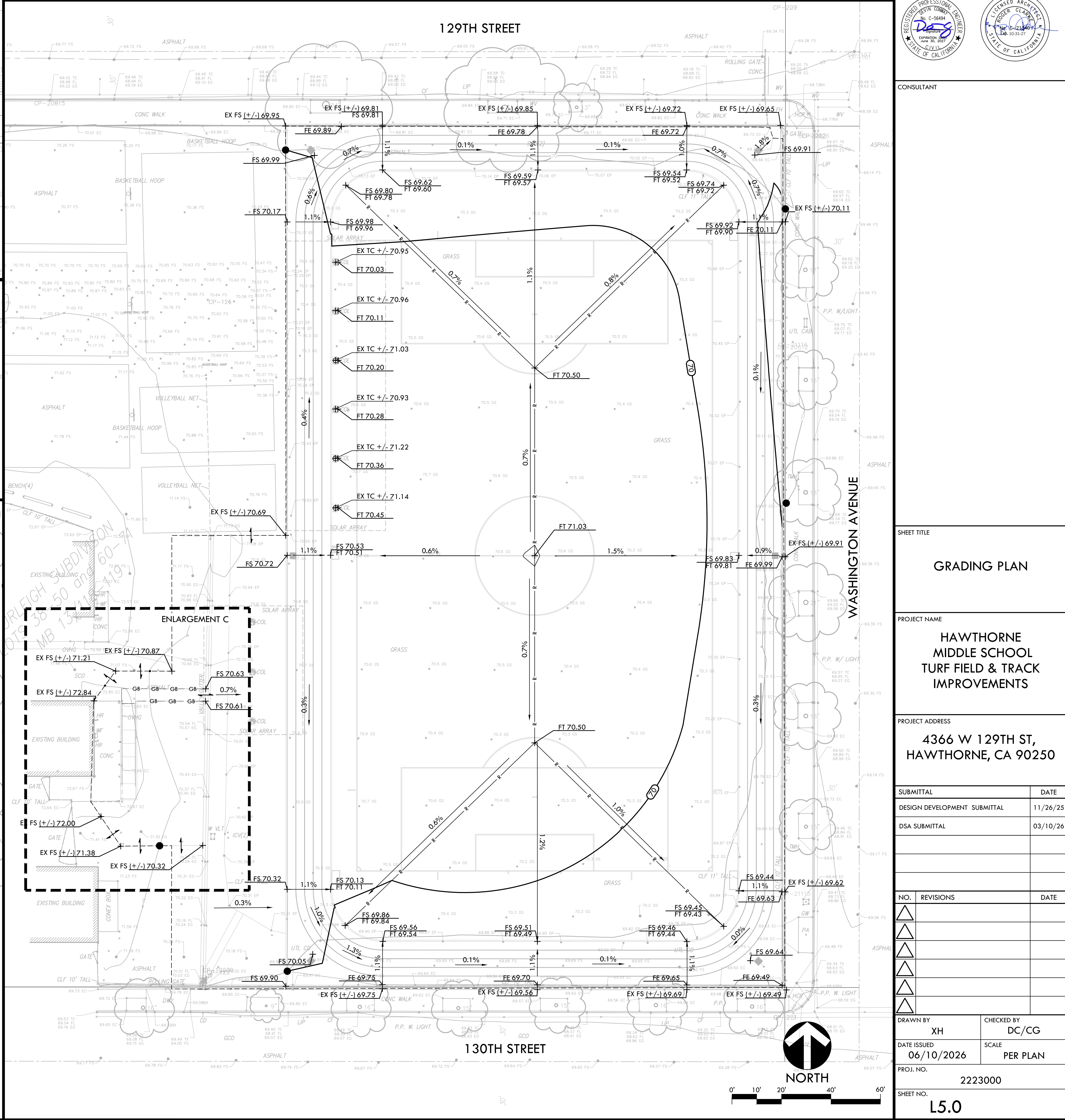
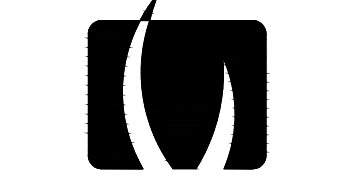
CUT AND FILL
CUT (FINISH SURFACE) = 623.07 CUBIC YARD (CY)
MATERIAL CUT:
SYNTHETIC TURF = (50586 SF * 0.72 FT)/27 = 1348.96 CY
ASPHALT PAVING (PED) = (20015 SF * 0.75 FT)/27 = 555.6 CY
ASPHALT PAVING (VEH) = (3222 SF * 1.25 FT)/27 = 149.17 CY
4" CONCRETE = (4310 SF * 0.33 FT)/27 = 52.68 CY
TOTAL CUT = 7729.88 CY
FILL = 97.45 CY
NET CUT: 7632.43 CY OF MATERIAL TO BE EXPORTED

GRADING NOTES

- EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: THIS TOPOGRAPHIC SURVEY WAS PROVIDED BY IMEG. (TELEPHONE): (909) 477-6915 (ADDRESS): 901 VIA RIEMONTE, ONTARIO, CA 91764.
- CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE OWNER'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 OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDER GROUND SERVICE ALERT (UGSA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF UGA 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 REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE A WAITING RESPONSE.
- ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

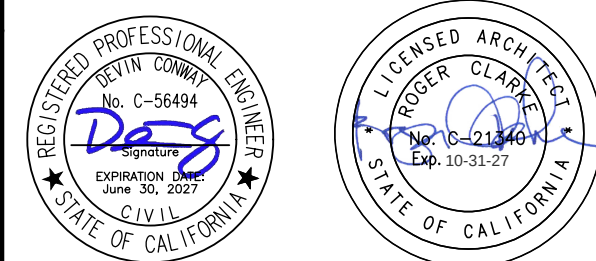
GRADING LEGEND

SYM	DESCRIPTION	R	RIDGE LINE
	PROPOSED CONTOUR		CENTER LINE OF SWALE
FE 70.00	PROPOSED FINISH GRADE ELEVATION OF EDGE/GRAND		CONFORM TO EXISTING GRADE
FG 70.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE		EXISTING CONTOUR
FT 70.00	PROPOSED ELEVATION OF TOP OF SYNTHETIC TURF INFILL		EXISTING ELEVATION
FS 70.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE		GRADE BREAK LINE
FSR 70.00	PROPOSED FINISH SURFACE ELEVATION OF THE RAMP		LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
FL 70.00	FLOW LINE OF SWALE		
RIM 70.00	LOW POINT/ RIM ELEVATION OF DRAIN		
EX +/- 70.00	EXISTING ELEVATION TO CONFORM TO		
TC 70.00	PROPOSED ELEVATION OF TOP OF CURB		



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CONSULTANT

SHEET TITLE

GRADING PLAN

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST,
HAWTHORNE, CA 90250

SUBMITTAL

DATE

DESIGN DEVELOPMENT SUBMITTAL

11/26/25

DSA SUBMITTAL

03/10/26

NO.

REVISIONS

DATE

DRAWN BY

XH

CHECKED BY

DC/CG

DATE ISSUED

06/10/2026

SCALE

PER PLAN

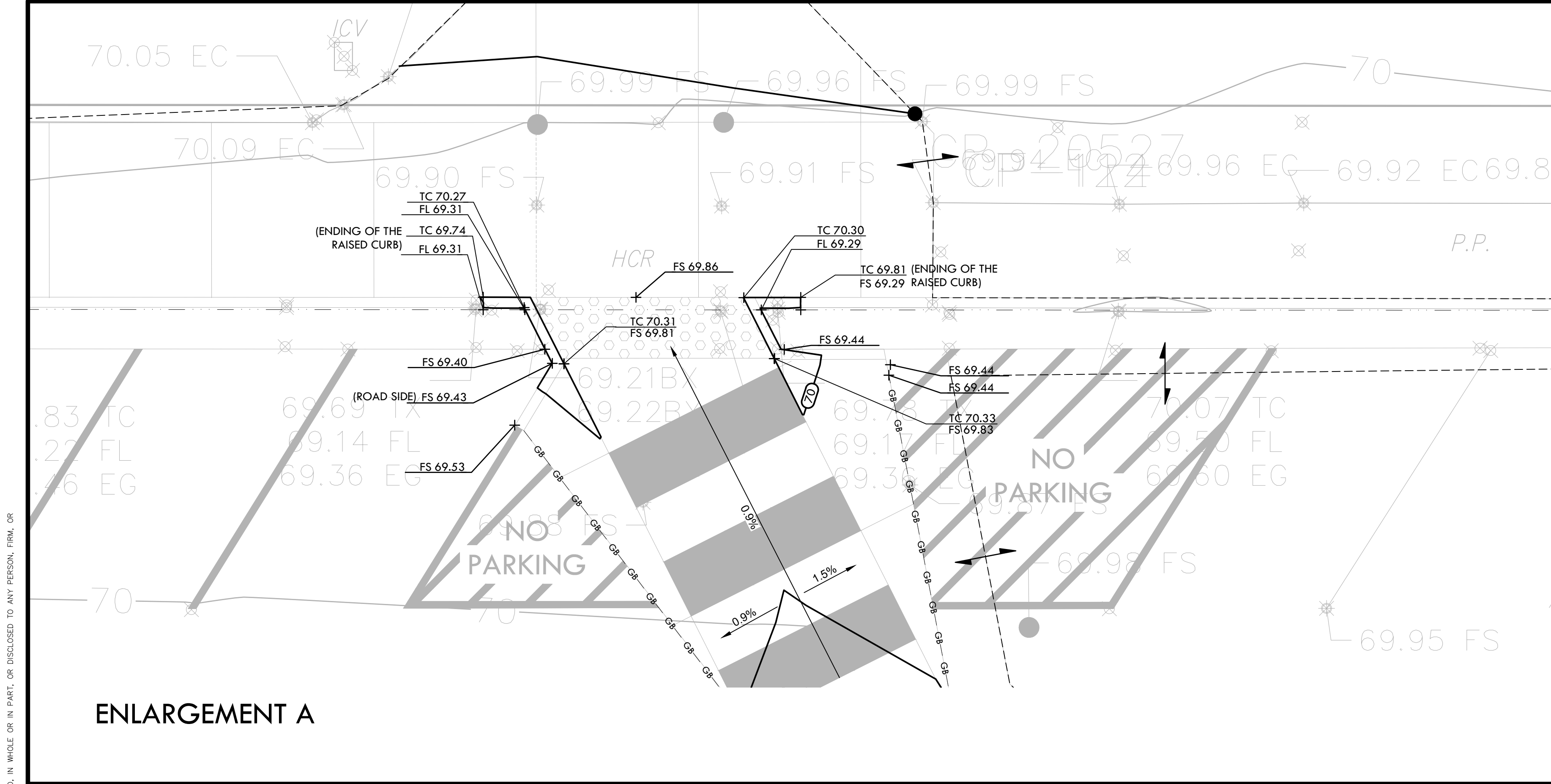
PROJ. NO.

2223000

SHEET NO.

L5.0

GRADING PLAN



GRADING NOTES

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5. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

NORTH

0' 2'-0" 4'-0" 8'-0"

GRADING LEGEND			
SYM	DESCRIPTION		RIDGE LINE
	PROPOSED CONTOUR		CENTER LINE OF SWALE
FE 70.00	PROPOSED FINISH GRADE ELEVATION OF EDGE&ND		CONFORM TO EXISTING GRADE
FG 70.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE		EXISTING CONTOUR
FT 70.00	PROPOSED ELEVATION OF TOP OF SYNTHETIC TURF INFILL		EXISTING ELEVATION
FS 70.00	PROPOSED FINISH SURFACE ELEVATION OF HARDCAPE		GRADE BREAK LINE
FSR 70.00	PROPOSED FINISH SURFACE ELEVATION OF THE RAMP		LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
FL 70.00	FLOW LINE OF SWALE		
RIM 70.00	LOW POINT/ RIM ELEVATION OF DRAIN		
EX +/- 70.00	EXISTING ELEVATION TO CONFORM TO		
TC 70.00	PROPOSED ELEVATION OF TOP OF CURB		

ENLARGEMENT B

ENLARGEMENT C

GRADING PLAN

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

4366 W 129TH ST, HAWTHORNE, CA 90250

SUBMITTAL

DATE

DESIGN DEVELOPMENT SUBMITTAL

11/26/25

DSA SUBMITTAL

03/10/26

NO.

REVISIONS

DATE

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DATE ISSUED

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CONSULTANT

SHEET TITLE

GRADING PLAN

PROJECT NAME

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST, HAWTHORNE, CA 90250

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SCALE

PER PLAN

PROJ. NO.

2223000

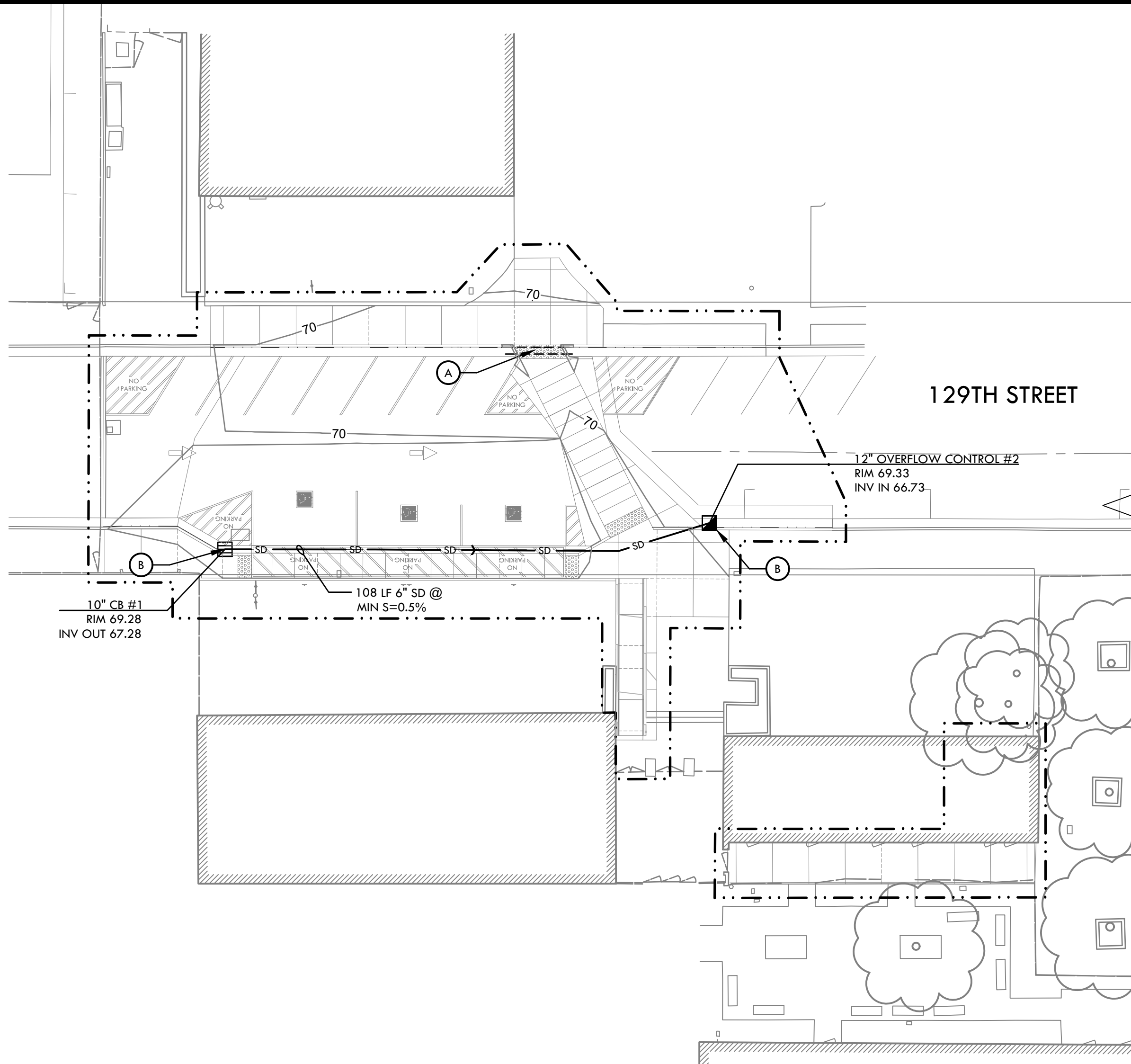
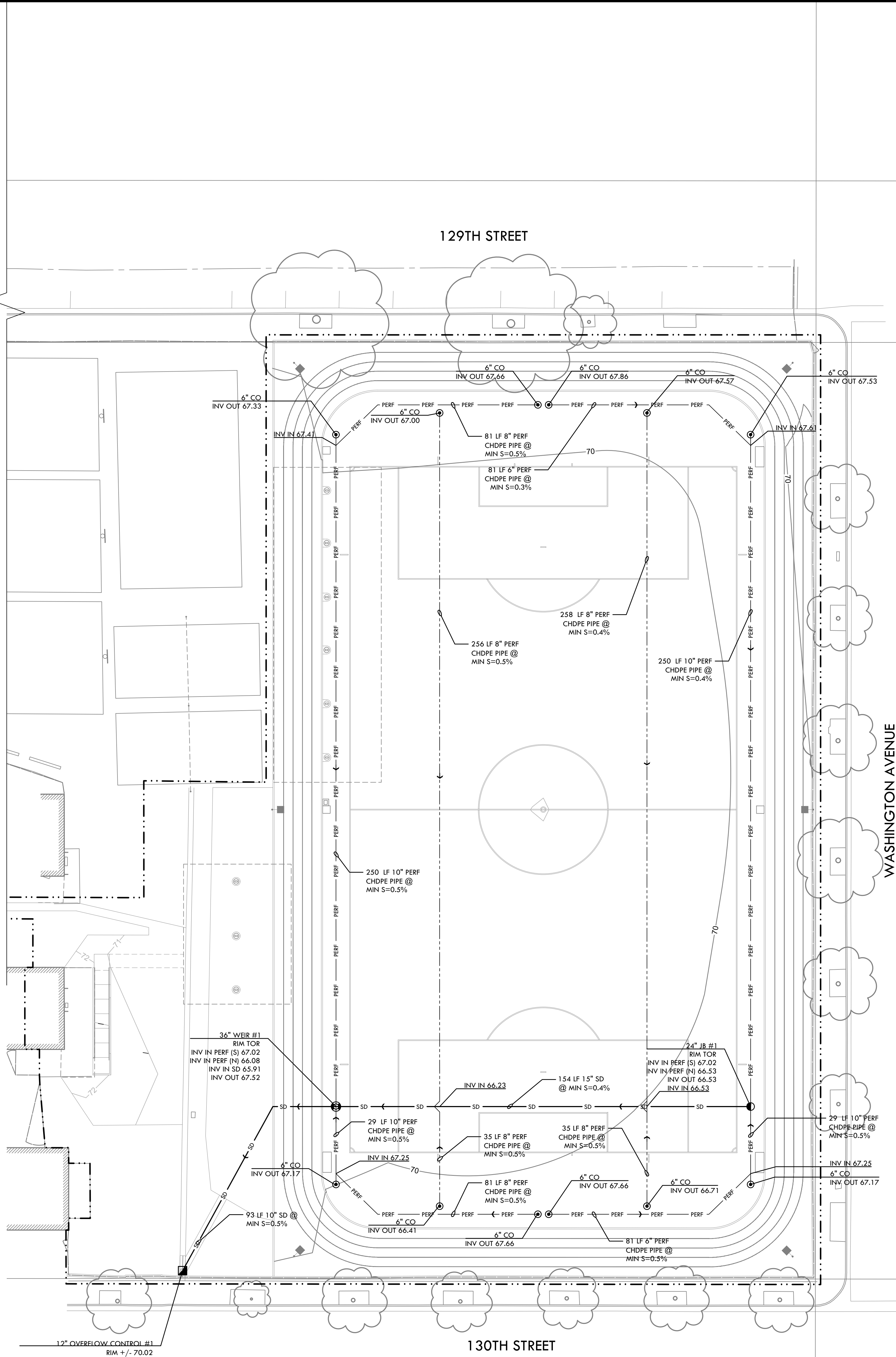
SHEET NO.

L5.1

PROJECT NAME: H:\Projects\B\2022\2223000 - Hawthorne MS 1st Assess\CAD\L5.0-100-CSD.dwg
PLOT DATE: 09-01-26 PLOTTED BY: station14

GRADING PLAN

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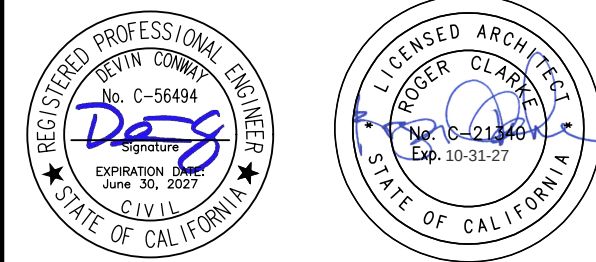
DRAINAGE & UTILITY NOTES

1. 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.
2. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. TO REMAIN, SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.
3. 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.
4. COORDINATE ALL SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS.
5. 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.
6. 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\"/>
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POT-HOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
8. 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.

DRAINAGE LEGEND

SYM	DESCRIPTION	DETAIL NUMBER SHEET NUMBER
	CATCH BASIN, SIZE PER PLAN	B D1.0
	JUNCTION BOX, SIZE PER PLAN	C D1.0
	CLEANOUT IN SYNTHETIC TURF	D D1.0
	OVER FLOW DRAINAGE STRUCTURE	I D1.0
	CONTROL WEIR AT JUNCTION BOX	J D1.0
	SOLID WALL STORM DRAIN	A D1.0
	PERFORATED SUBDRAIN TYPE 1	G D1.0
	PERFORATED SUBDRAIN	F D1.0
	DRAINAGE CULVERT UNDER RAISED CROSS WALK	K D1.0
	CATCH BASIN AT CURB AND GUTTER	A D1.1
(E)	EXISTING	
CB	CATCH BASIN	
INV	INVERT	
RIM	RIM ELEVATION	
TOR	TOP OF ROCK ELEVATION	
LF	LINEAR FEET	
CO	CLEANOUT	
S=0.5%	SLOPE	
MIN.	MINIMUM	
N, S, W, EA.	NORTH, SOUTH, WEST, EAST	

STAMP



CONSULTANT

SHEET TITLE

DRAINAGE
PLAN

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

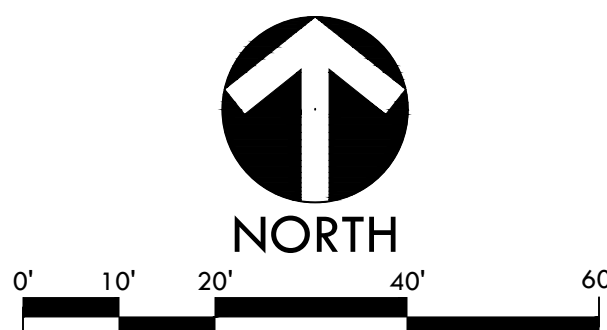
PROJECT ADDRESS

4366 W 129TH ST,
HAWTHORNE, CA 90250

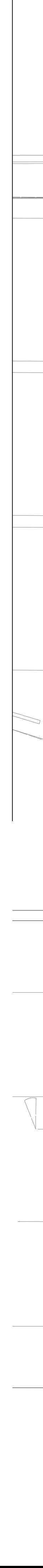
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
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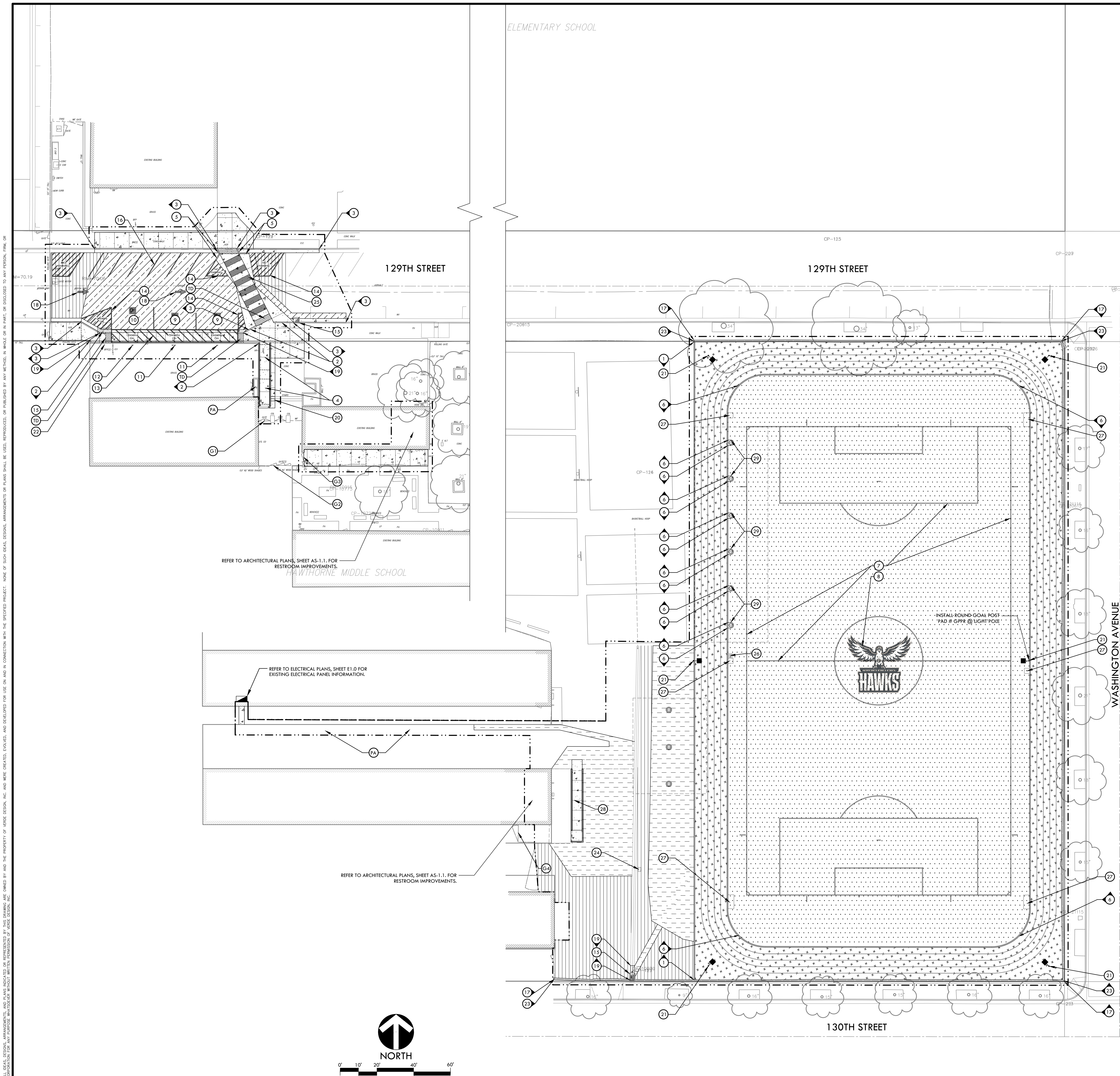
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SHEET NO. L6.0	



DRAINAGE PLAN

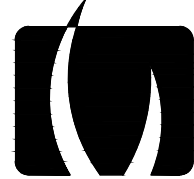


The image shows two circular professional seals side-by-side. The left seal is for a Registered Professional Engineer, Devin Corbett, No. C-56494, with an expiration date of June 30, 2022. The right seal is for a Licensed Architect, Roger Clarke, No. A-21449, with an expiration date of 10-31-27. Both seals are for the State of California and feature a signature across the center.



MATERIAL NOTES

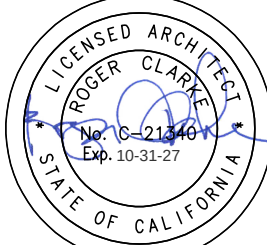
1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SIEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. THE INTERFACE OF ALL PROPOSED IMPROVEMENTS TO EXISTING SITE SHALL CONFORM AND BE SMOOTH AND UNIFORM.
3. ALL REINFORCING AND FORMS SHALL BE SECURED IN PLACE AND ACCEPTED BY DISTRICT'S REPRESENTATIVE PRIOR TO PLACING ANY CONCRETE.
4. 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 DISTRICT'S REPRESENTATIVE. ACCEPTED SAMPLES SHALL BE PROTECTED AND REMAIN ON SITE FOR REFERENCE UNTIL FINAL ACCEPTANCE.
5. ALL FENCES AND GATES SHOWN ON PLAN ARE GRAPHIC REPRESENTATIONS; REFER TO DETAILS AND SPECIFICATIONS FOR PRECISE LOCATION.
6. ASPHALT SHALL NOT BE INSTALLED UNTIL ALL EDGES AND SITE FURNISHING PADS ARE INSTALLED.



VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

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STAMP



CONSULTANT

MATERIAL LEGEND

SYM	DESCRIPTION	DTL
---	LIMIT OF WORK	
[Pattern]	SYNTHETIC TURF (GREEN)	J D2.0
[Pattern]	CONCRETE PAVING (GREEN)	G D2.0
[Pattern]	SCORE JOINT	F D2.0
[Pattern]	EXPANSION JOINT	F D2.0
[Pattern]	ASPHALT PAVING - PEDESTRIAN	E D2.0
[Pattern]	ASPHALT PAVING - VEHICULAR	E D2.0
[Pattern]	SLURRY COAT ON THE SURFACE OF EXISTING ASPHALT PAVING, REFER TO SPECIFICATIONS	E D2.0
[Pattern]	ALL-WEATHER TRACK SURFACING	I D2.0
[Pattern]	TRUNCATED DOMES - RECESSED	J D2.0
[Pattern]	PLANTING AREA	J D2.0
[Pattern]	GATE IMPROVEMENTS: REFER TO ACCESSIBLE DETAILS, SHEET L2.1	J D2.0
[Pattern]	6" WIDE - EDGEAND WITH ALL-WEATHER TRACK SURFACING	L D2.0
[Pattern]	6" WIDE - CURB	O D2.0
[Pattern]	CURB AND GUTTER	H D1.0
[Pattern]	RAMP - WITH 6" WIDE TALL CURB	A D2.1
[Pattern]	6" WIDE - RAISED CURB AT CULVERT	P D2.0
[Pattern]	SYNTHETIC TURF CONNECTION	K D2.0
[Pattern]	SOCCER FIELD STRIPING	J D2.1
[Pattern]	TURF FIELD STRIPING GRAPHICS	K D2.1
[Pattern]	ACCESSIBLE STALL - PARALLEL	F D2.1
[Pattern]	ACCESSIBLE STALL - VAN	F D2.1
[Pattern]	ACCESSIBLE PARKING SIGNAGE	H D2.1
[Pattern]	ACCESSIBLE PARKING SIGNAGE - VAN	G D2.1
[Pattern]	ACCESSIBLE PARKING ISLE STRIPING	F D2.1
[Pattern]	NO PARKING STRIPING (NON-ACCESSIBLE)	Q D2.0
[Pattern]	DRAINAGE STRUCTURE IN CONCRETE SWALE. REFER TO DRAINAGE & UTILITY PLAN	N D1.0
[Pattern]	RE-STRIPE PARKING	C D2.1
[Pattern]	12" WIDE EDGEAND AT EXISTING FENCE	M D2.0
[Pattern]	DIRECTIONAL ARROW STRIPING	R D2.0
[Pattern]	CONCRETE SWALE	N D1.0
[Pattern]	REPAIR STAIRS AT EXISTING STAIRS	C D2.1
[Pattern]	SPORTS FIELD LIGHTING. REFER TO ELECTRICAL PLANS.	
[Pattern]	PARKING TOW AWAY SIGN	I D2.1
[Pattern]	REPLACE EXISTING CHAIN LINK FABRIC WITH NEW CHAIN LINK FABRIC. RE-INSTALL EXISTING MID-RAIL AND BOTTOM FENCE RAIL.	
[Pattern]	EXISTING WATER BOX TO REMAIN, PROTECT IN PLACE. REFER TO DEMOLITION PLAN. REPLACE VALVE BOX WITH NEW CONCRETE VALVE BOX	
[Pattern]	CROSSWALK STRIPING	S D2.0
[Pattern]	UTILITY BOX AT SYNTHETIC TURF, REFER TO ELECTRICAL PLANS.	
[Pattern]	IRRIGATION VALVE. REFER TO IRRIGATION PLAN	
[Pattern]	WALKWAY WITH 6" WIDE TALL CURB AND RAILING	A D2.1
[Pattern]	6" WIDE SYNTHETIC TURF EDGEAND AT SOLAR ARRAY COLUMN	D D2.1

SHEET TITLE

MATERIAL AND
DETAIL REFERENCE
PLAN

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST,
HAWTHORNE, CA 90250

SUBMITTAL

DATE

DESIGN DEVELOPMENT SUBMITTAL

11/26/25

DSA SUBMITTAL

03/10/26

NO.

REVISIONS

DATE

DRAWN BY

GA

CHECKED BY

DC/CG

DATE ISSUED

06/10/2026

SCALE

1"=20'-0"

PROJ. NO.

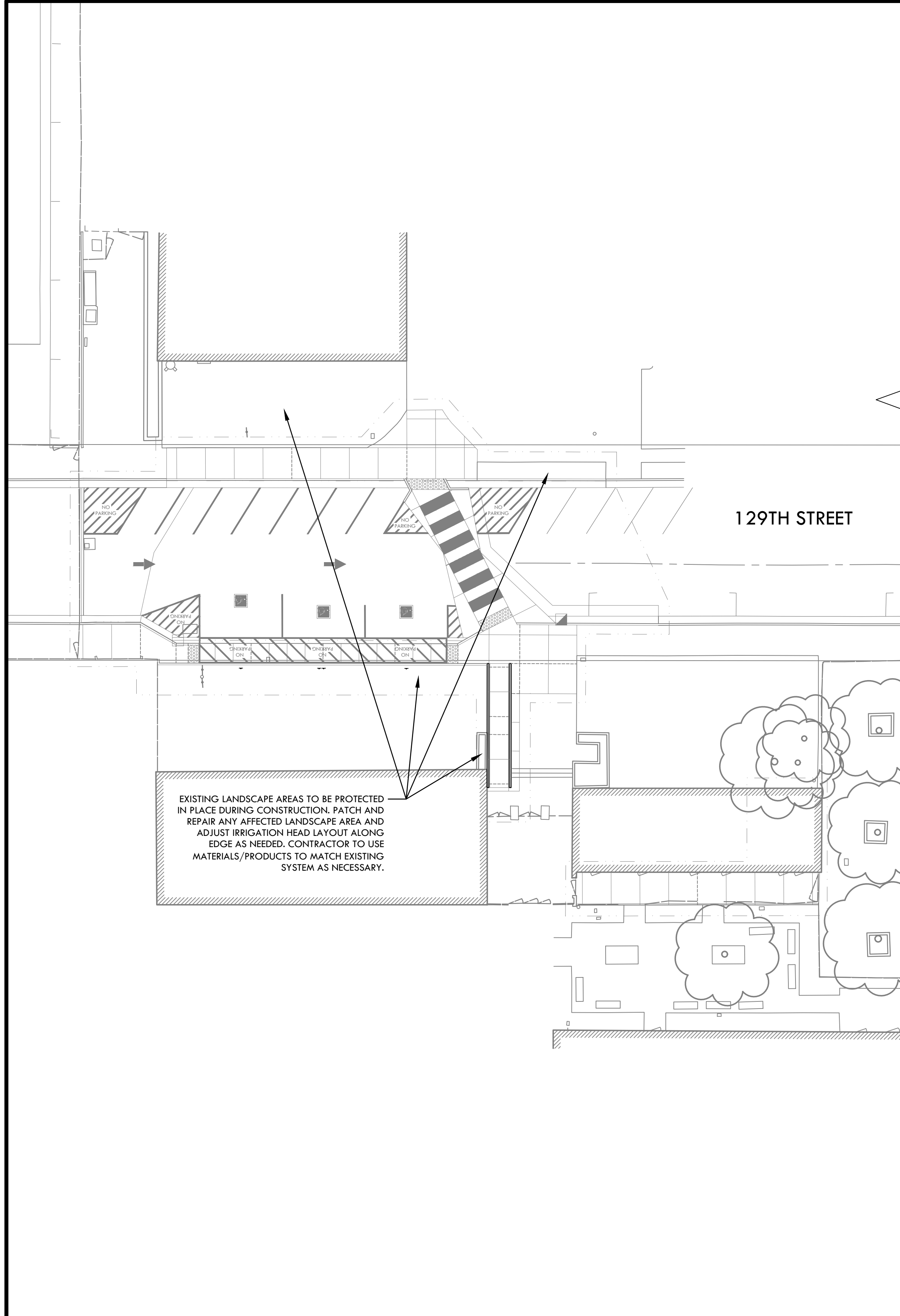
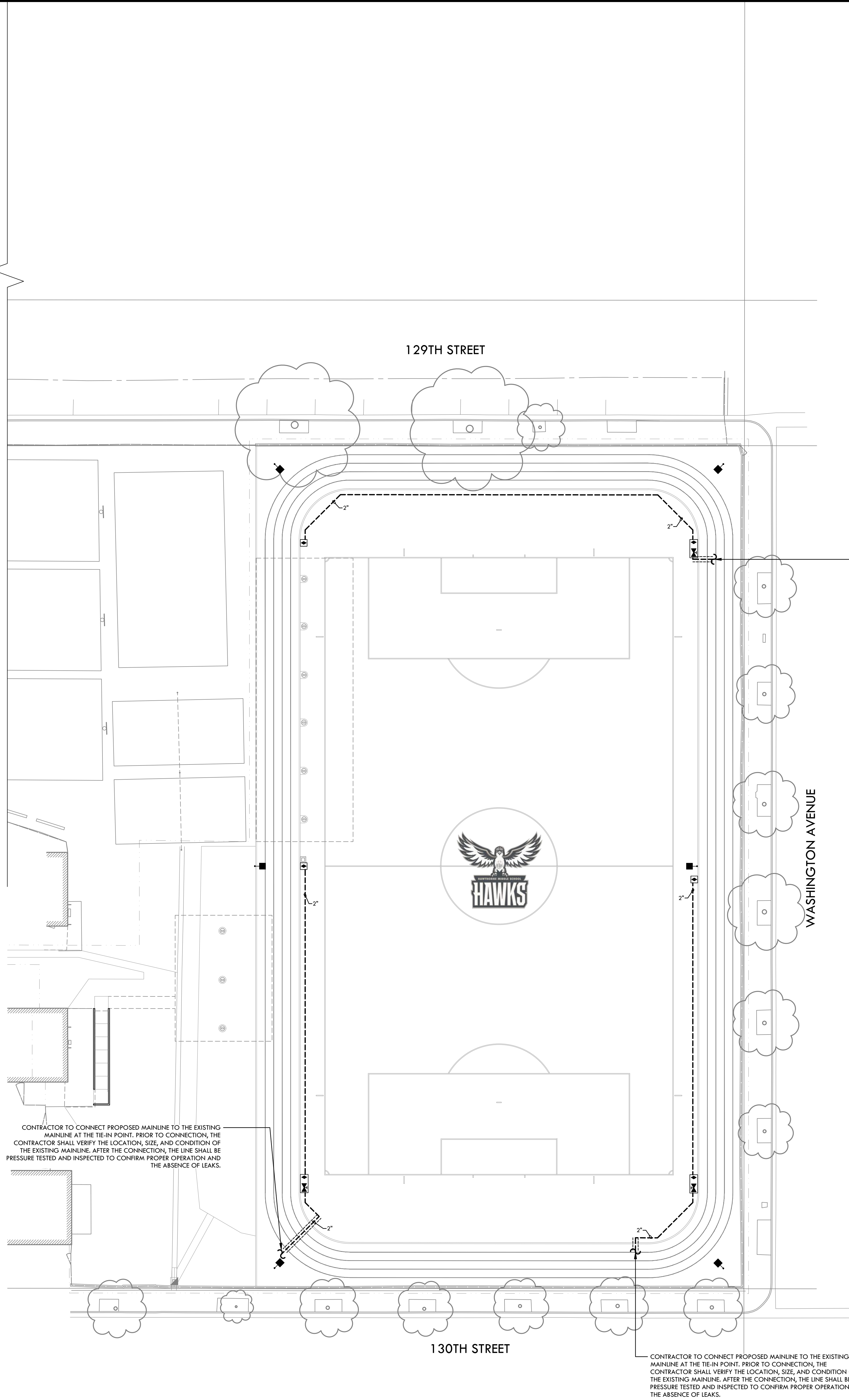
2223000

SHEET NO.

L8.0

MATERIAL AND DETAIL REFERENCE PLAN

ALL IRRIGATION, PLANTING, AND LANDSCAPE DESIGN, INCLUDING ANY AND ALL SCHEDULES OR SPECIFICATIONS, ARE OWNED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND WERE CREATED, DEVELOPED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSES WHATSOEVER WITHOUT WRITTEN PERMISSION OF VERDE DESIGN, INC.



IRRIGATION NOTES

- EXISTING STATIC PRESSURE AND THE MAXIMUM AVAILABLE FLOW (GPM) FROM THE SPORTS FIELD IRRIGATION MAINLINE IS UNKNOWN. CONTRACTOR SHALL FIELD VERIFY STATIC PRESSURE AND MAXIMUM AVAILABLE FLOW AT THE POINT OF CONNECTION PRIOR TO INSTALLATION. SUBMIT TEST RESULTS TO OWNER'S REPRESENTATIVE FOR REVIEW. IF MEASURED PRESSURE OR FLOW DOES NOT MEET SYSTEM DESIGN REQUIREMENTS, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY AND SUSPEND WORK RELATED TO THE MAINLINE CONNECTION UNTIL FURTHER DIRECTION IS PROVIDED.
- CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
- IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, QUICK COUPLERS, ETC. ARE SHOWN OUTSIDE PLANTING AREAS, OR LIMIT OF WORK, INTENT IS FOR PIPING, VALVES, ETC., TO BE INSTALLED WITHIN PLANTING AREAS OF PROPERTY. INDICATE EXACT LOCATIONS OF IRRIGATION EQUIPMENT ON RECORD DRAWINGS. REFER TO SPECIFICATIONS.
- CONTRACTOR SHALL PROGRAM CONTROLLER TO ENSURE PROPER IRRIGATION. BASED ON PLANT TYPE, EXPOSURE AND SEASON.
- CONTRACTOR SHALL USE EXTREME CARE WHERE IT IS NECESSARY TO TRENCH NEAR EXISTING TREES. EXCAVATION IN AREAS EXHIBITING ROOT 3" AND LARGER SHALL BE DONE BY HAND. ROOTS 2" OR LARGER IN DIAMETER DAMAGED IN CONSTRUCTION SHALL BE CLEANLY CUT.
- CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY.
- CONTRACTOR SHALL REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

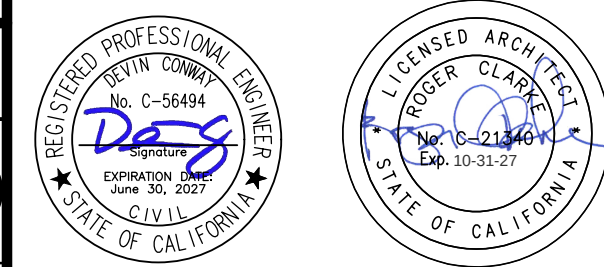
IRRIGATION LEGEND

SYM.	MANUFAC.	MODEL NO./ DESCRIPTION	DTL REF
	HUNTER	HQ-44-LRC QUICK COUPLER VALVE WITH YELLOW LOCKING RUBBER COVER. INSTALLED IN HEAVY DUTY QUICK CONNECT VALVE BOX FOR SYNTHETIC INFILL TURF (SPORTSFIELD SPECIALTIES MODEL # TC10CV OR EQUAL).	E D3.0
	HUNTER/ NIBCO	HQ-44-LRC QUICK COUPLER VALVE WITH YELLOW LOCKING RUBBER COVER AND GATE VALVE, SIZE PER PLAN. GATE VALVE 2" AND SMALLER SHALL BE NIBCO T-113. VALVE BOX TYPE: COMBO FOR SYNTHETIC INFILL TURF (SPORTSFIELD SPECIALTIES MODEL# CB1 1830 OR EQUAL) NOTCHED CUT METAL AREAS WHERE PIPE PASSES THROUGH BOX. LOCATE IN SYNTHETIC TURF.	C D3.0
		MAINLINE - 2" AND SMALLER, SCHEDULE 40 PVC WITH SOLVENT-WELD FITTINGS. LINE SHALL HAVE 24" COVER.	AB D3.0
		IRRIGATION SLEEVE - CLASS 200 PVC IRRIGATION SLEEVE WITH 30" OF COVER. SLEEVES SHALL BE 2X NOMINAL PIPE SIZES LARGER THAN CARRIER PIPE. EXTEND SLEEVE 24" BEYOND EDGE OF HARDSCAPE. CONTRACTOR SHALL INSTALL (1) ADDITIONAL SPARE SLEEVE AT EACH HARDSCAPE CROSSINGS. CAP BOTH ENDS OF SLEEVE.	B D3.0

CONTRACTOR TO CONNECT PROPOSED MAINLINE TO THE EXISTING MAINLINE AT THE TIE-IN POINT. PRIOR TO CONNECTION, THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE, AND CONDITION OF THE EXISTING MAINLINE. AFTER THE CONNECTION, THE LINE SHALL BE PRESSURE TESTED AND INSPECTED TO CONFIRM PROPER OPERATION AND THE ABSENCE OF LEAKS.



STAMP



CONSULTANT

SHEET TITLE

IRRIGATION
PLAN

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST,
HAWTHORNE, CA 90250

SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

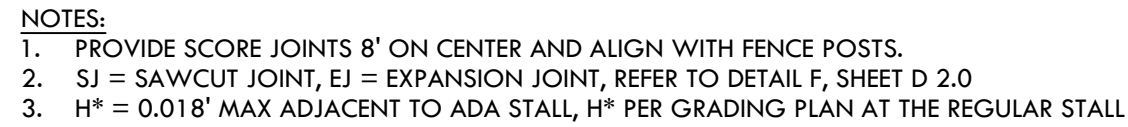
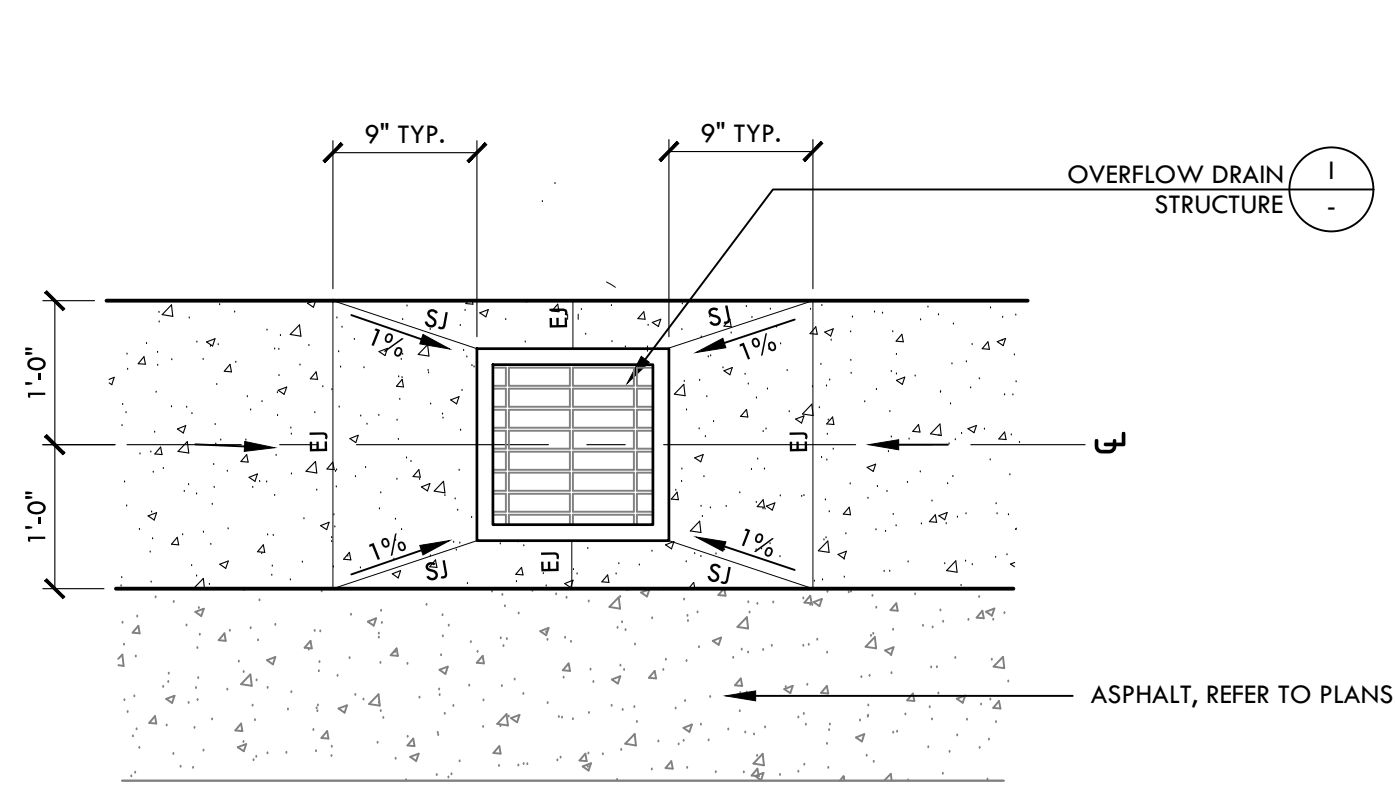
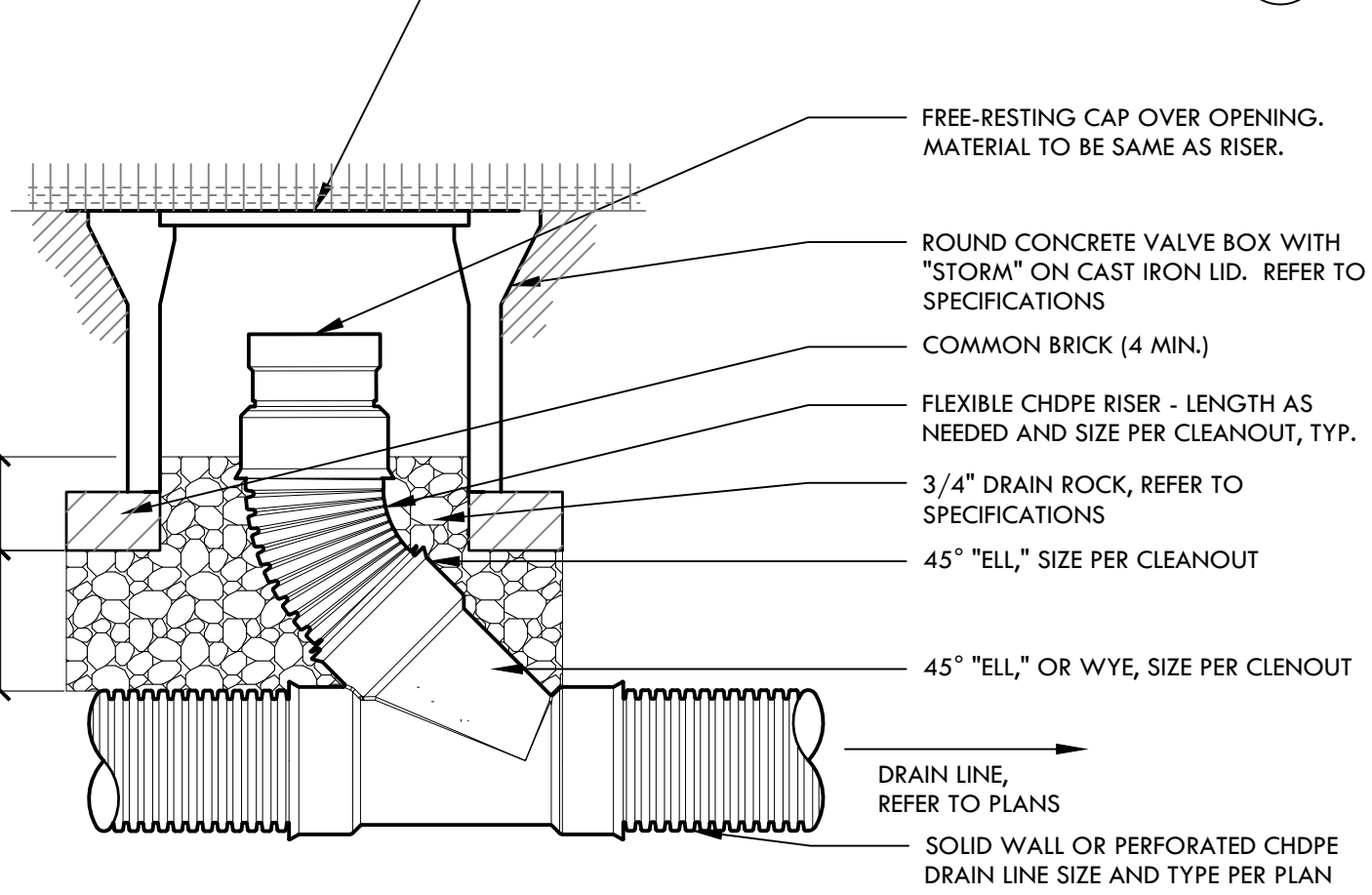
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PROJ. NO.
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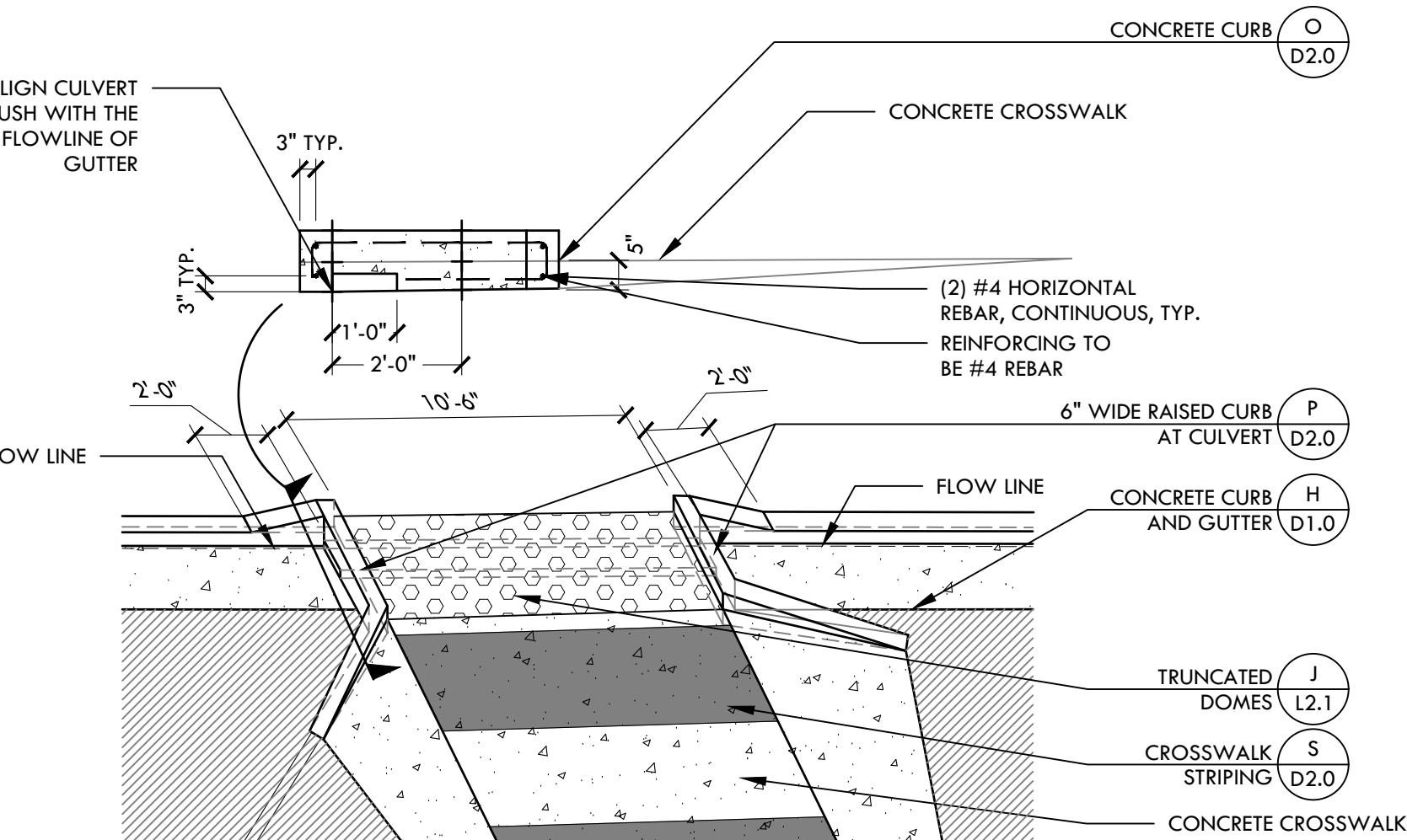
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L9.0

IRRIGATION & PLANTING PLAN



Two circular professional stamps are shown. The left stamp is for a Registered Professional Engineer, Kevin Conway, No. C-56494, signed 'Dag', with an expiration date of June 30, 2023, in the Civil discipline. The right stamp is for a Licensed Architect, Roger Clarke, No. A-21440, signed 'Roger Clarke', with an expiration date of 10-31-27.

CONSULTANT



1. CAST IRON GRATE AND PRECAST FRAME, REFER TO SPECIFICATIONS

2. EXISTING CONCRETE SWALE

3. USE MINIMUM TWO 3" EXTENSION RINGS, IF POSSIBLE

4. CONNECT TO EXISTING OUTLET PIPE (APPLY ONLY TO THE STRUCTURE NEAR THE TRACK)

5. PUNCH OUT AS NECESSARY TO ACCEPT DRAIN PIPE GROUT IN PLACE, TYP. SOLID WALL STORM DRAIN INLET PIPE. REFER TO DRAINAGE PLANS

6. 3/4" DIAMETER DRAIN ROCK

7. COMPACTED SUBGRADE, REFER TO SPECIFICATIONS

8. PER PLAN

9. 3" MIN.

10. 4" MIN.

11. 6" MIN.

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255. 494" MIN.

256. 496"

SECTION

Diagram illustrating the cross-section of a storm drain installation, showing the following components and dimensions:

- ROUND CONCRETE VALVE BOX AND COVER OVER 6" HDPE ADAPTER AND CAP. SYNTHETIC TURF ON LID TO BE CUT OUT FOR ACCESS. 3" TUFT OF BLUE TURF CENTER ON LID.
- SYNTHETIC TURF (D20)
- 6"x6" CONCRETE COLLAR WITH #3 REBAR, CENTERED. CONCRETE COLLAR TO BE FLUSH WITH TOP OF PAD. G. SYNTHETIC TURF TO TOP OF COLLAR AND VALVE BOX, TYP. CUT-OUT AROUND LID TO BE PROVIDED FOR ACCESS.
- COMMON BRICK, (4 MIN.)
- 3" DRAIN ROCK, REFER TO SPECIFICATIONS
- STORM DRAIN CLEANOUT (F)

Dimensions and Notes:

- 4" TYP. (Width of the storm drain opening)
- 6" (Height of the concrete collar)
- 6" (Height of the common brick section)

SECTION

- CONCRETE PAVING WITH THICKENED EDGE
- #4 DOWEL JOINT @ 24" O.C.
- SLOPE 2% AT CURB
- 2" RADIUS
- 1" RADIUS
- 2" RADIUS
- ADJACENT SURFACE, REFER TO PLANS
- PER GRADING PLAN
- PER GRADING PLAN
- COMPACTED CLASS II AGGREGATE BASE, REFER TO SPECIFICATIONS
- COMPACTED SUBGRADE, REFER TO SPECIFICATIONS
- CONCRETE WITH LIGHT BROOM FINISH LENGTHWISE
- #4 HORIZONTAL REBAR, CONTINUOUS, TYP.

The diagram shows a cross-section of a concrete curb and gutter system. The curb has a top width of 6 inches and a base width of 2 feet. It features a 2% slope at the curb edge. The curb is constructed from concrete paving with a thickened edge, reinforced with #4 dowel joints at 24 inches on center. The curb is supported by a compacted Class II aggregate base and compacted subgrade. A horizontal #4 rebar is shown continuous through the base. The adjacent surface is referenced to the plans. The diagram also indicates a 1-inch radius at the curb face and a 2-inch radius at the base. The curb is finished with a light broom finish lengthwise. Dimensions include 4 inches for the curb height, 4 inches for the base thickness, and 4 inches for the subgrade thickness. The curb is shown with a 2-foot wide top and a 2-foot wide base. The curb is shown with a 2-foot wide top and a 2-foot wide base. The curb is shown with a 2-foot wide top and a 2-foot wide base.

SECTION

SOLID CAST IRON LID AND PRECAST FRAME, REFER TO SPECIFICATIONS

SYNTHETIC TURF 0.20"

USE MINIMUM TWO 3" EXTENSION RINGS

PUNCH OUT AS NECESSARY TO ACCEPT DRAIN PIPE GROUT IN PLACE, TYP.

SOLID WALL STORM DRAIN PIPE OR PERFORATED PIPE, TYP. REFER TO DRAINAGE PLANS

FIELD POURED CONCRETE BASE

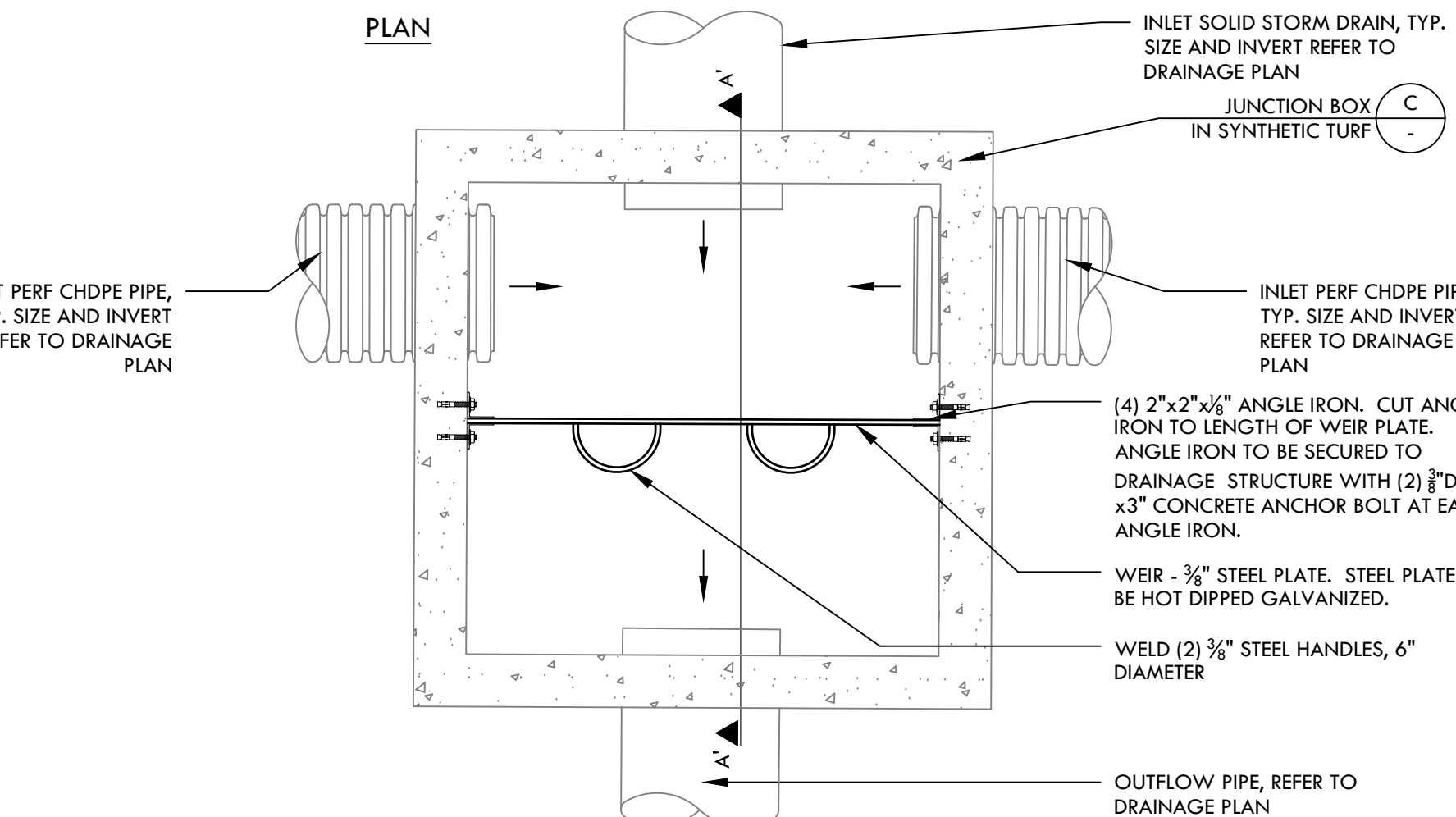
COMPACTED SUBGRADE, REFER TO SPECIFICATIONS

2" TYP.

6"

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.



SECTION

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 BOOT-DOWN COVERS.

6. FOR BASIN SIZE, RIM AND INVERT ELEVATIONS, REFER TO DRAINAGE PLAN.

ADJACENT SURFACE VARIES, REFER TO PLANS

2" TYP.

3" MIN.

6" x 6" CONCRETE COLLAR WITH #4 REBAR CENTERED, CONTINUOUS

USE MINIMUM TWO 3" EXTENSION RINGS

PUNCH OUT AS NECESSARY TO ACCEPT DRAIN PIPE GROUT IN PLACE, TYP.

SOLID WALL STORM DRAIN PIPE OR PERFORATED PIPE, TYP. REFER TO DRAINAGE PLANS

FIELD POURED CONCRETE BASE

COMPACTED SUBGRADE, REFER TO SPECIFICATIONS

NOTES:

TOP OF HIGHER ORIFICE 68.23
 4" DIA. CONTROL OUTLET ORIFICE IN WEIR, 67.9 INVERT
 PIPE, REFER TO DRAINAGE PLAN
 (4) 2"x2"x $\frac{1}{2}$ " ANGLE IRON. CUT ANGLE IRON TO LENGTH OF WEIR PLATE.
 ANGLE IRON TO BE SECURED TO DRAINAGE STRUCTURE WITH (2) $\frac{3}{4}$ " DIA. x 3" CONCRETE ANCHOR BOLT AT EACH ANGLE IRON.
 OUTFLOW PIPE, REFER TO DRAINAGE PLAN
 WEIR - $\frac{3}{4}$ " STEEL PLATE. STEEL PLATE TO BE HOT DIPPED GALVANIZED.
 JUNCTION BOX IN SYNTHETIC TURF
 CONTROL OUTLET ORIFICE IN WEIR, WEIR SIZE PER DRAINAGE PLAN
 (2) 8" WEEP HOLE, PLACED MIN 6" FROM THE EDGE OF STEEL PLATE
 SUBDRAIN TRENCH DRAIN ROCK

SYNTHETIC TURF D2.0

GEOTEXTILE FILTER FABRIC, PLACE ON TOP OF BASE, REFER TO SPECIFICATIONS

5'-0"

SLOPE SUBGRADE TO DRAIN 2% MIN.

EDGE BAND, REFER TO PLANS

COMPACTED SUBGRADE, REFER TO SPECIFICATIONS

SUBDRAIN TRENCH DRAIN ROCK, REFER TO SPECIFICATIONS

PERFORATED CHDPE, REFER TO SPECIFICATIONS

36"

EQ. 1

EQ. 1

6" MIN.

SECTION

FINISHED SURFACE, REFER TO PLANS

TOP OF SUBGRADE

NATIVE BACKFILL, REFER TO SPECIFICATIONS FOR COMPACTION

BEDDING FOR UTILITY PIPING, SELECT BACKFILL, REFER TO SPECIFICATIONS

DETECTOR TAPE

SOLID WALL STORM/SEWER, REFER TO SPECIFICATIONS AND SIZE PER PLANS

4" MIN.

4" MIN.

BOTTOM OF TRENCH

3" MIN. TO 18" MAX.

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

N

NTS

NT:

SHEET TITLE

DRAINAGE DETAILS

PROJECT NAME

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST,
HAWTHORNE, CA 90250

SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

[illegible]

DRAWN BY

X

DATE ISSUED

06/10

PROJ. NO.

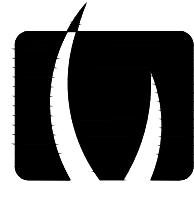
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SHEET NO.

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DRAINAGE DETAILS

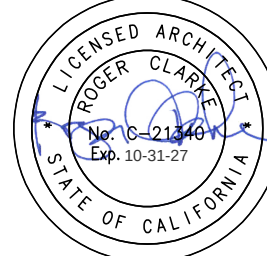
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STAMP



CONSULTANT

SHEET TITLE

DRAINAGE
DETAILS

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

PROJECT ADDRESS

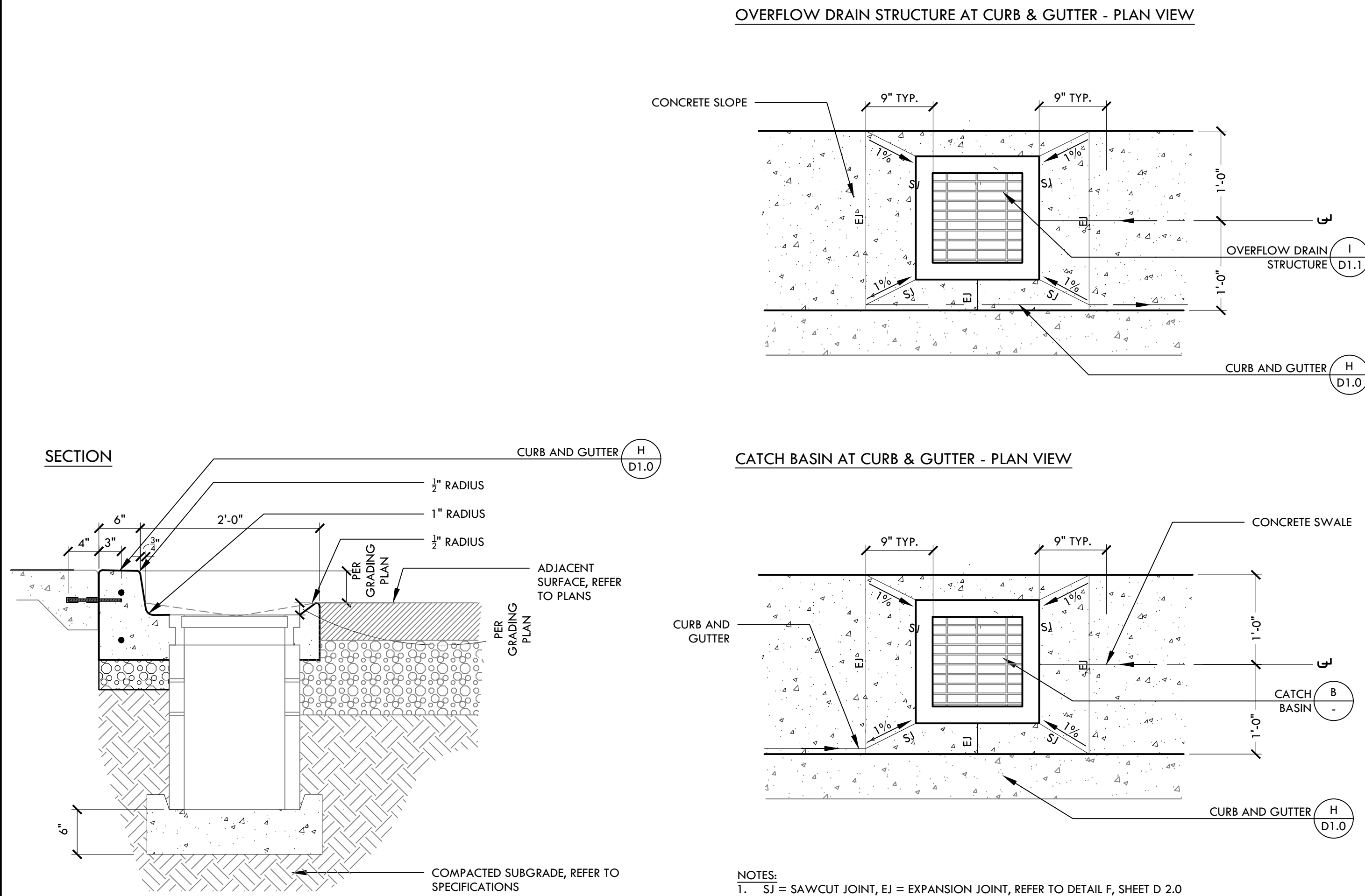
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HAWTHORNE, CA 90250

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DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
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DATE ISSUED 06/10/2026	SCALE
PROJ. NO. 2223000	

SHEET NO.
D1.1



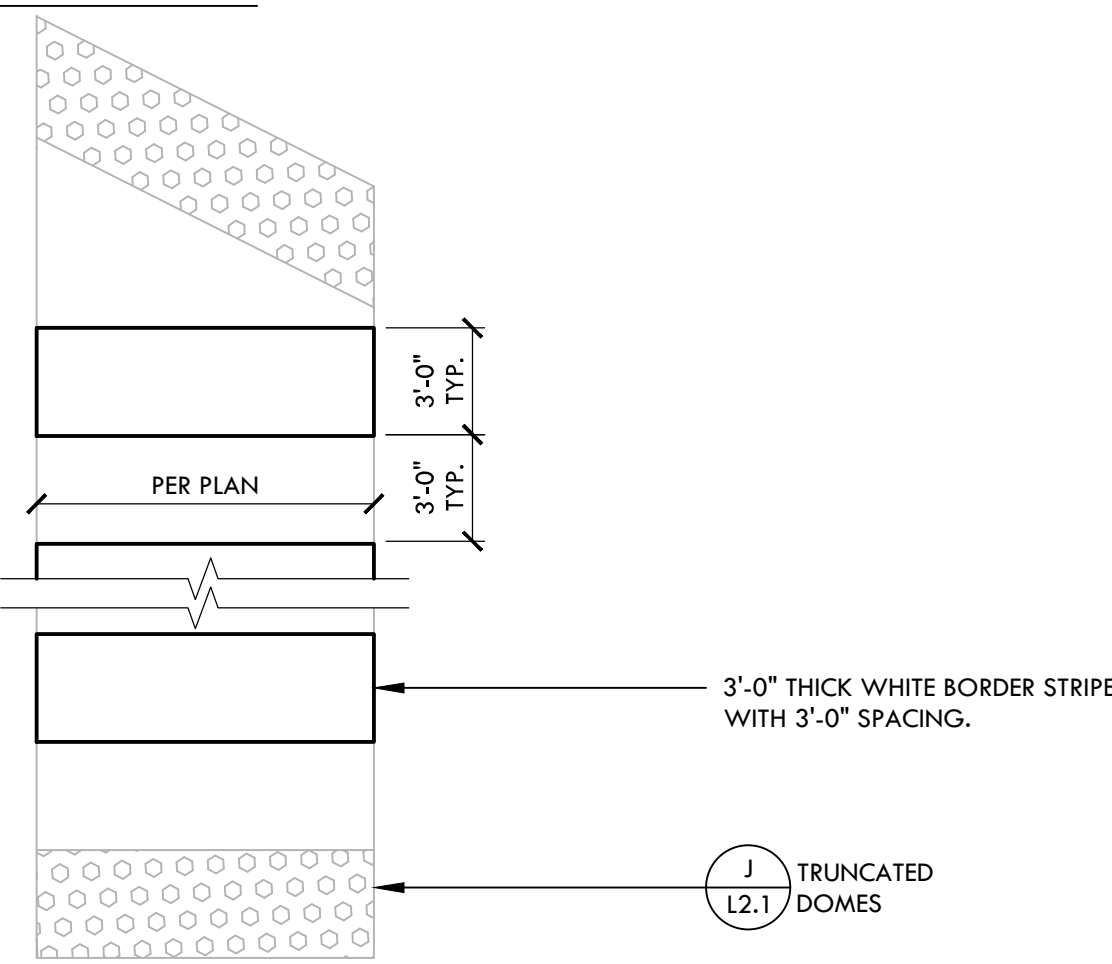
CATCH BASIN AT CURB & GUTTER

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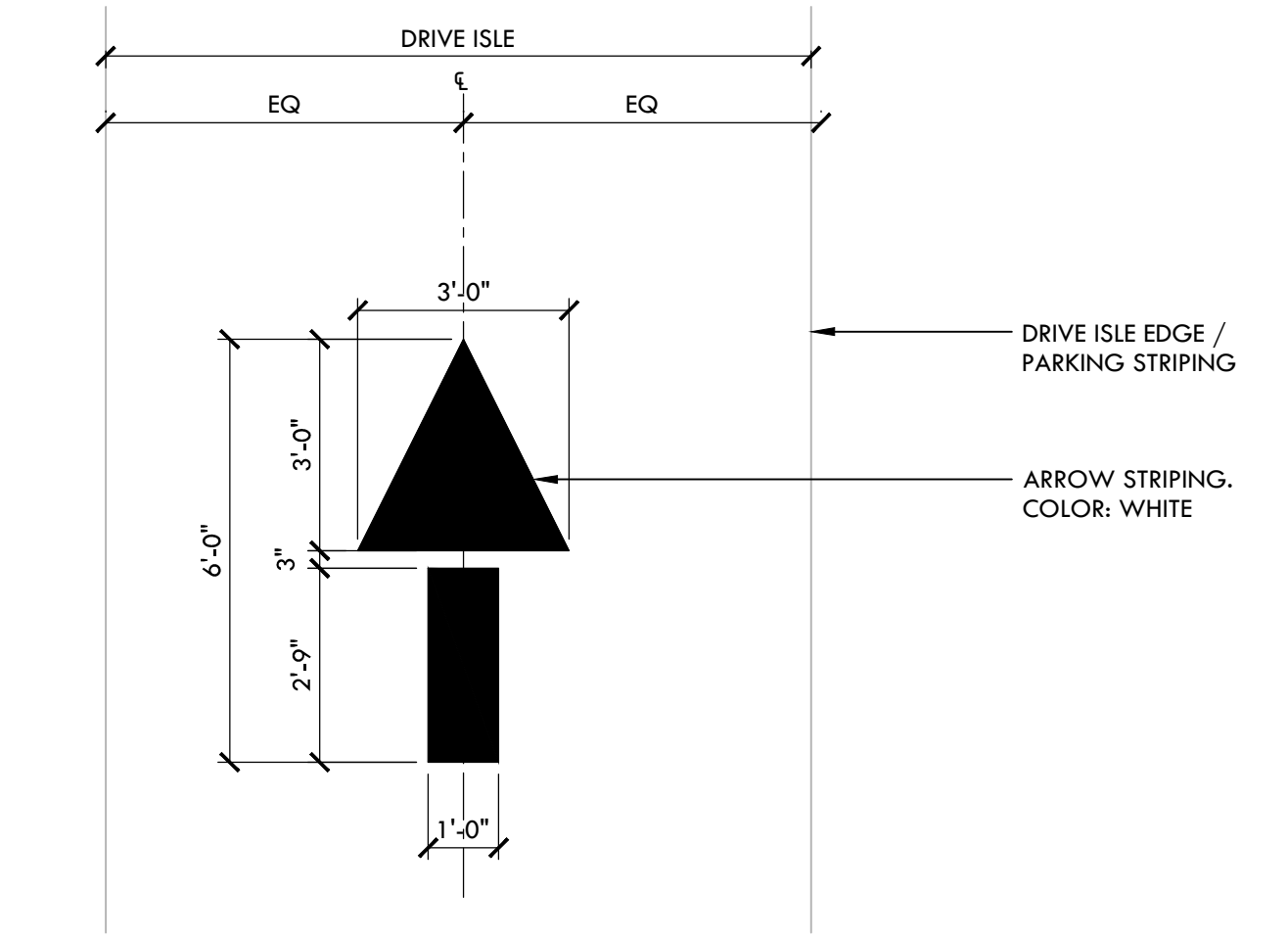
PLAN - TYPICAL CROSSWALK



S CROSSWALK STRIPING

NTS

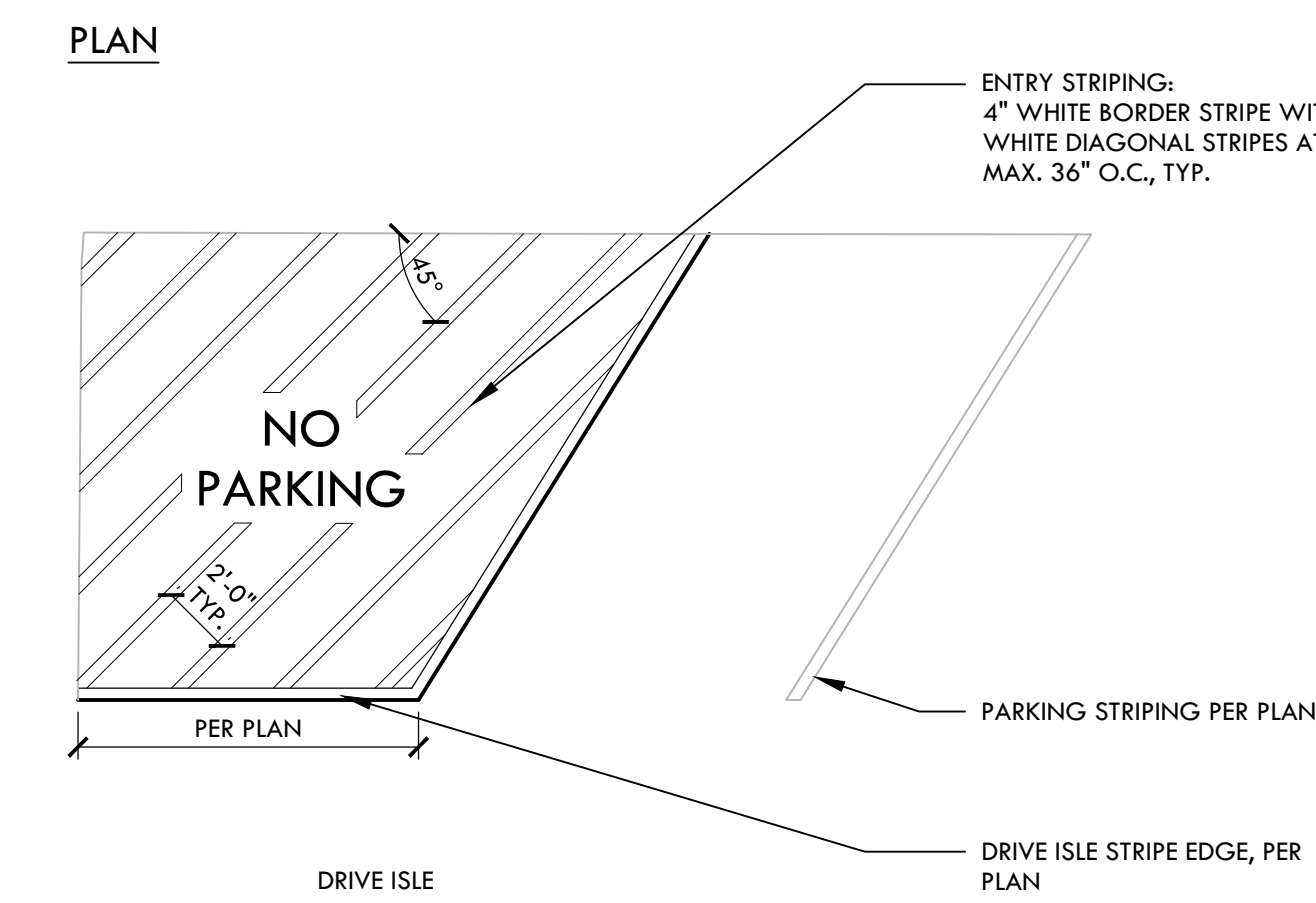
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R DIRECTIONAL ARROW STRIPING

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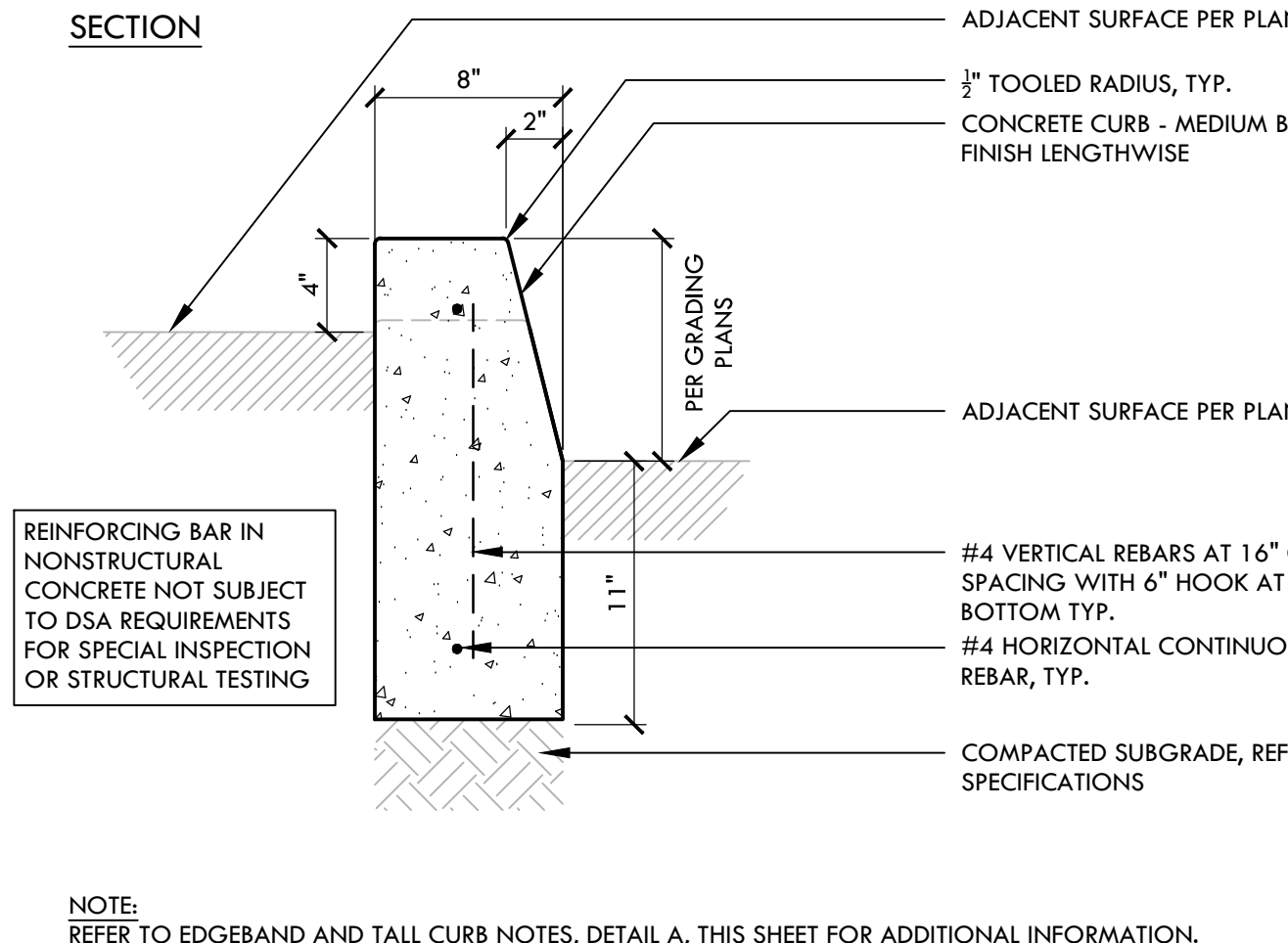
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Q NO PARKING STRIPING (NON-ACCESSIBLE)

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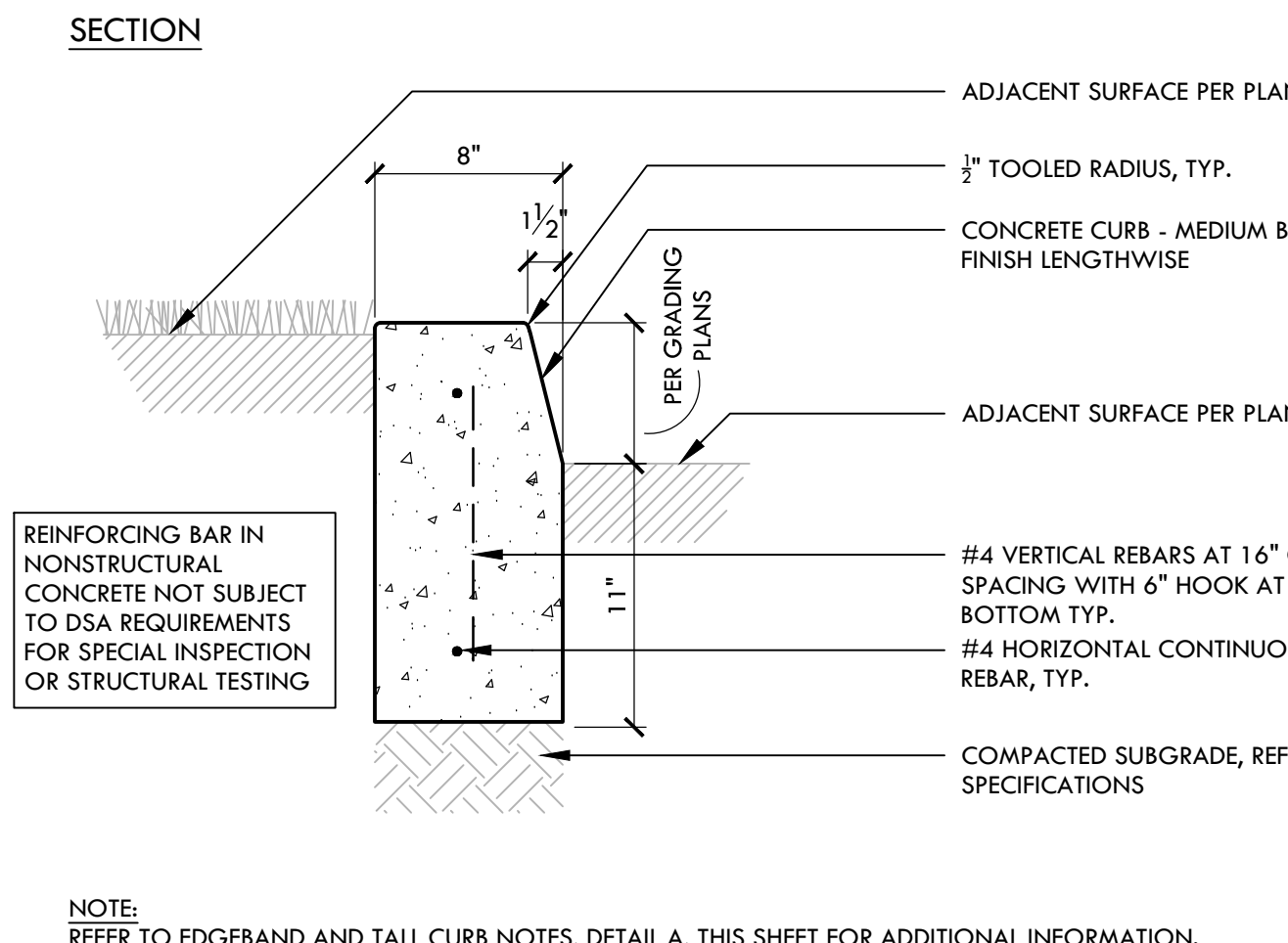
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P 6" WIDE RAISED CURB AT CULVERT

NTS

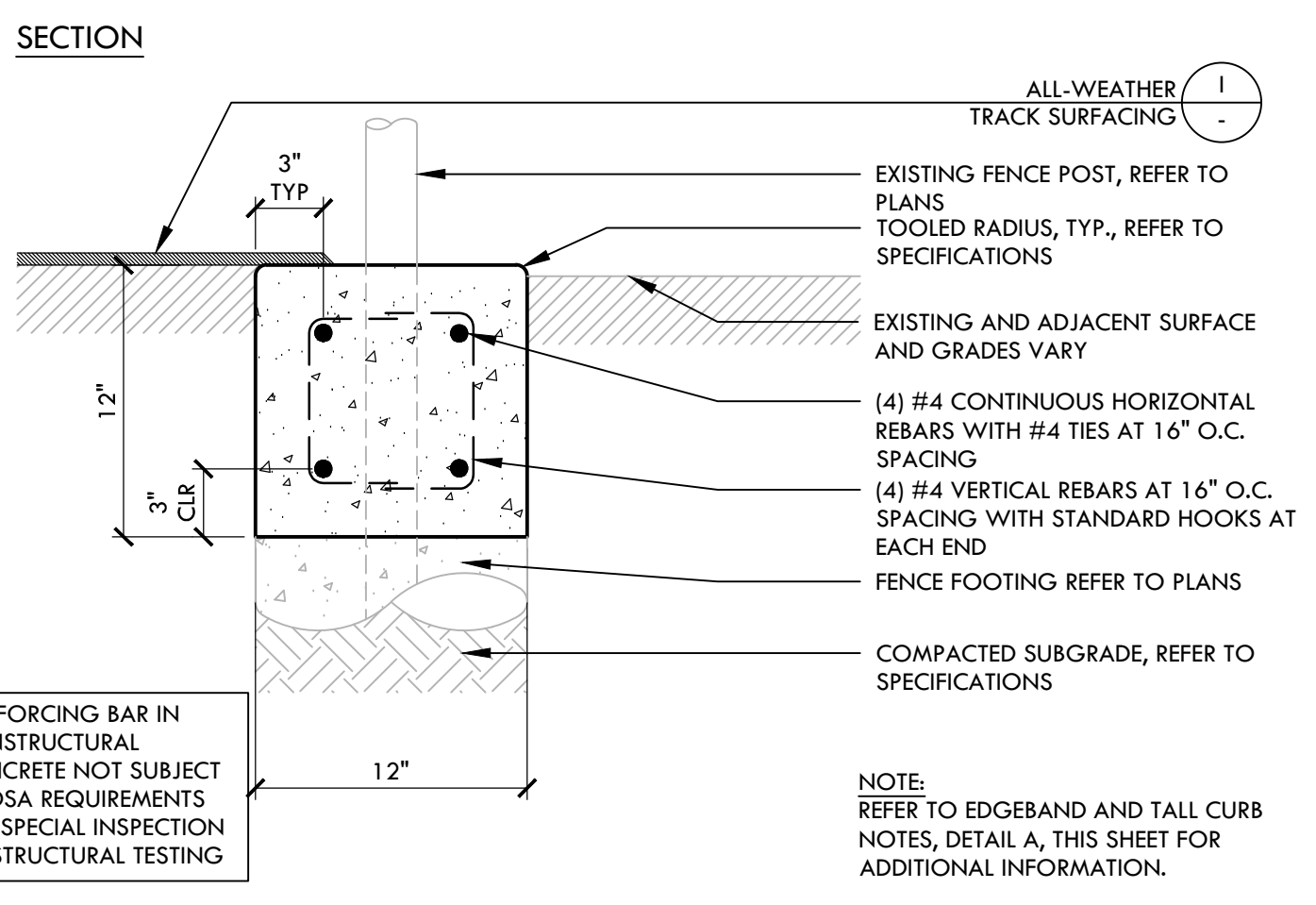
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O 6" WIDE CURB

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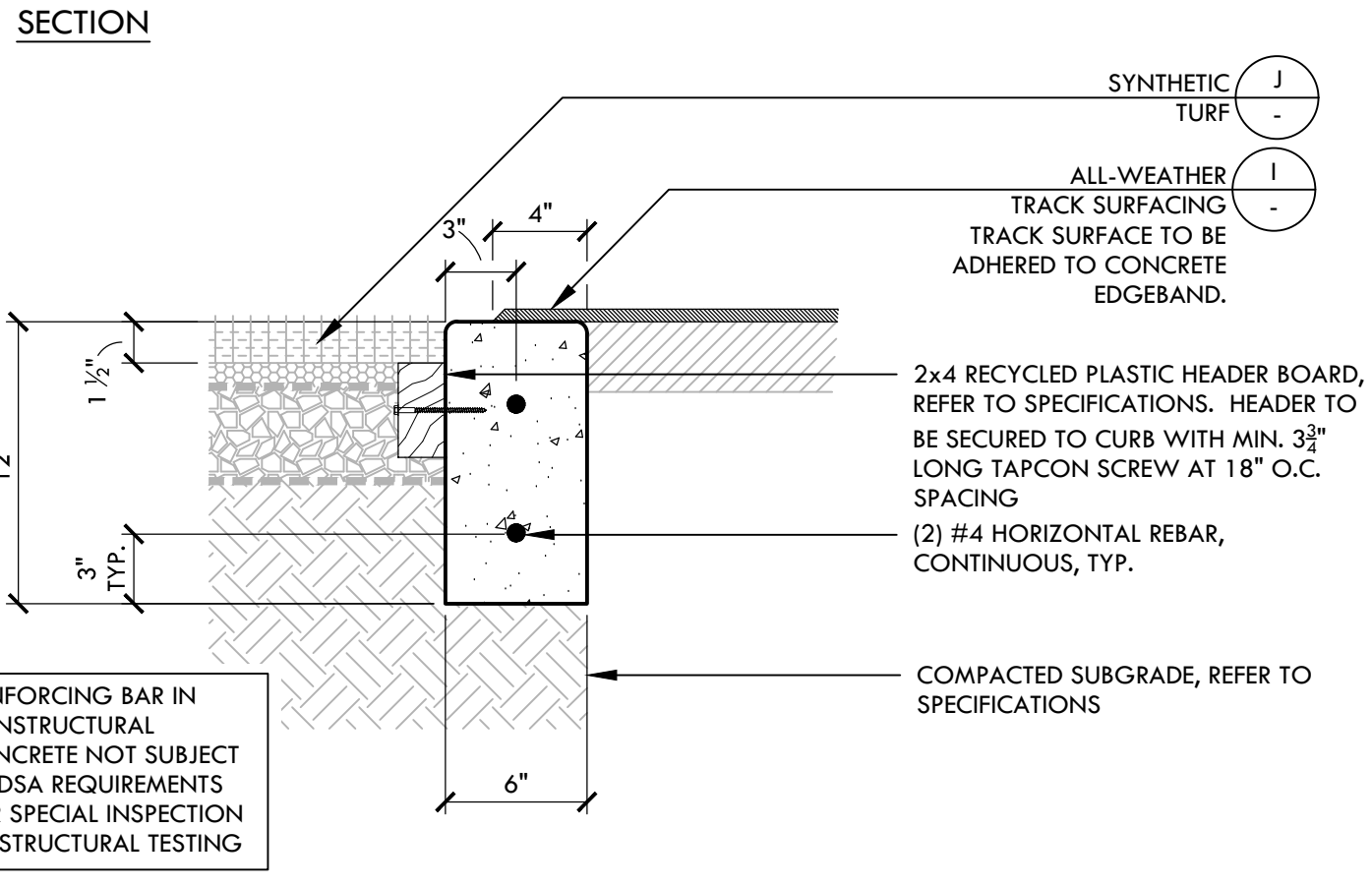
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M 12" WIDE EDGEBAND UNDER FENCE

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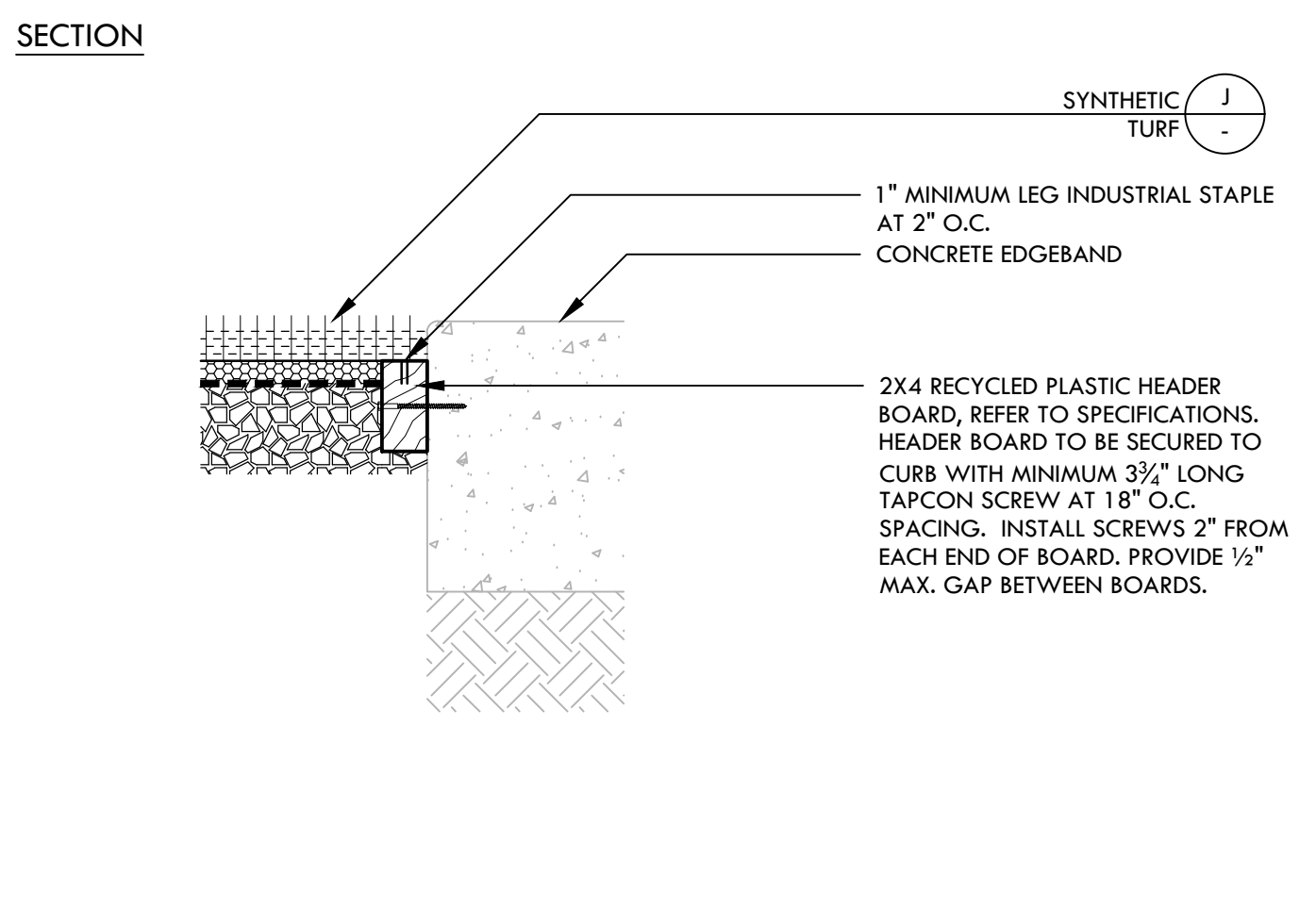
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L 6" WIDE SYNTHETIC TURF EDGEBAND AT TRACK

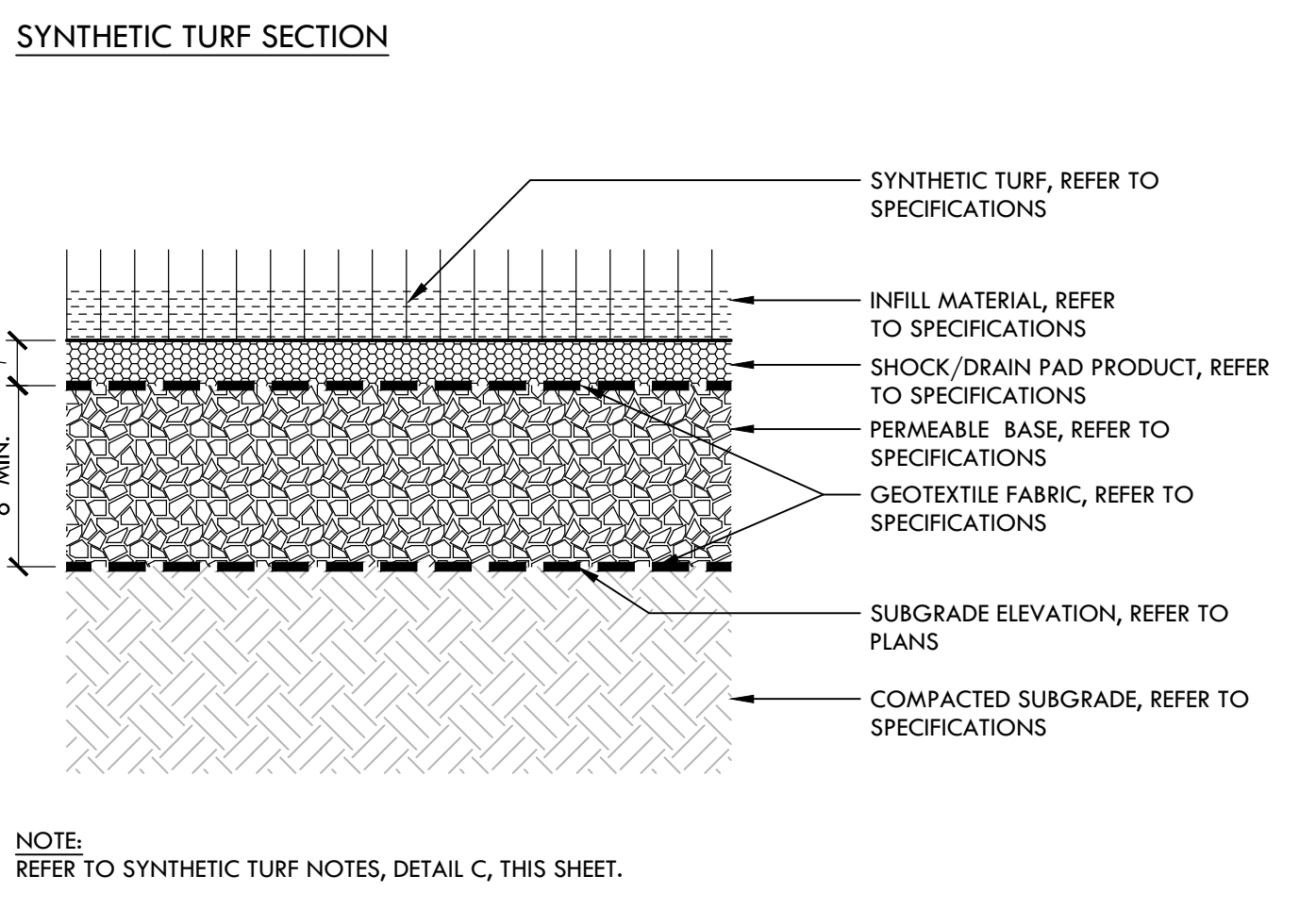
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G



K SYNTHETIC TURF CONNECTION

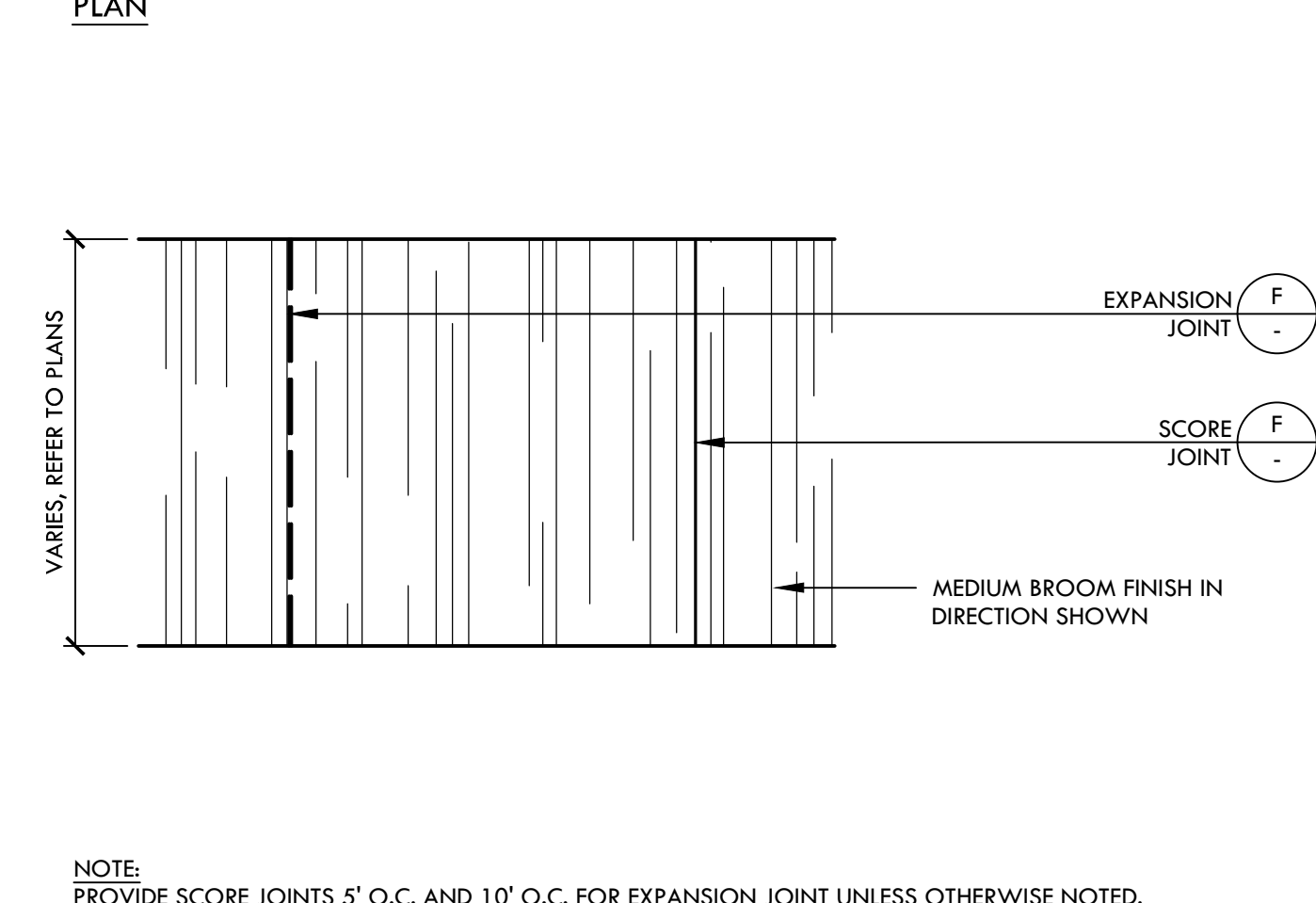
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J SYNTHETIC TURF WITH SHOCK/DRAIN PAD

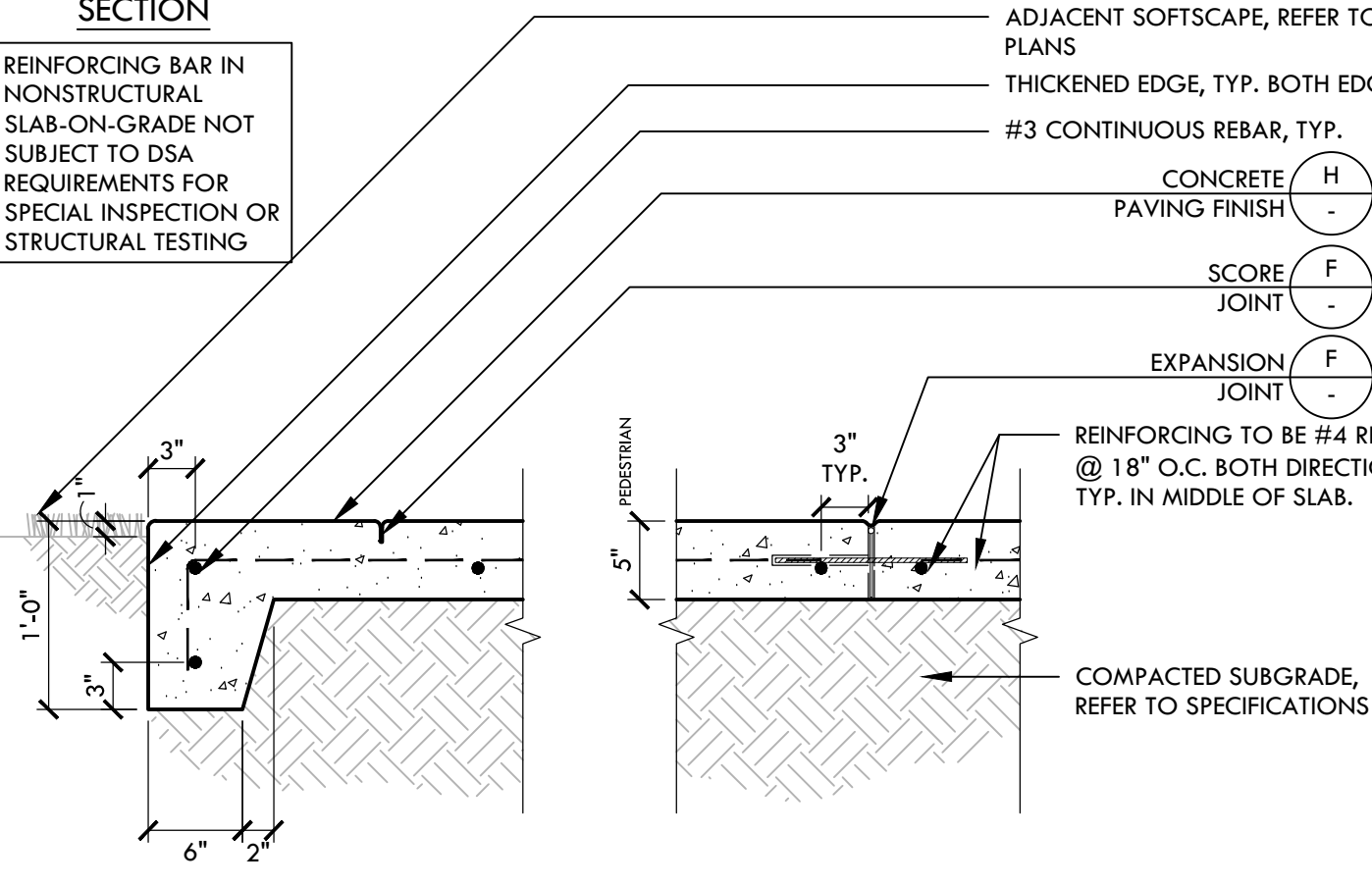
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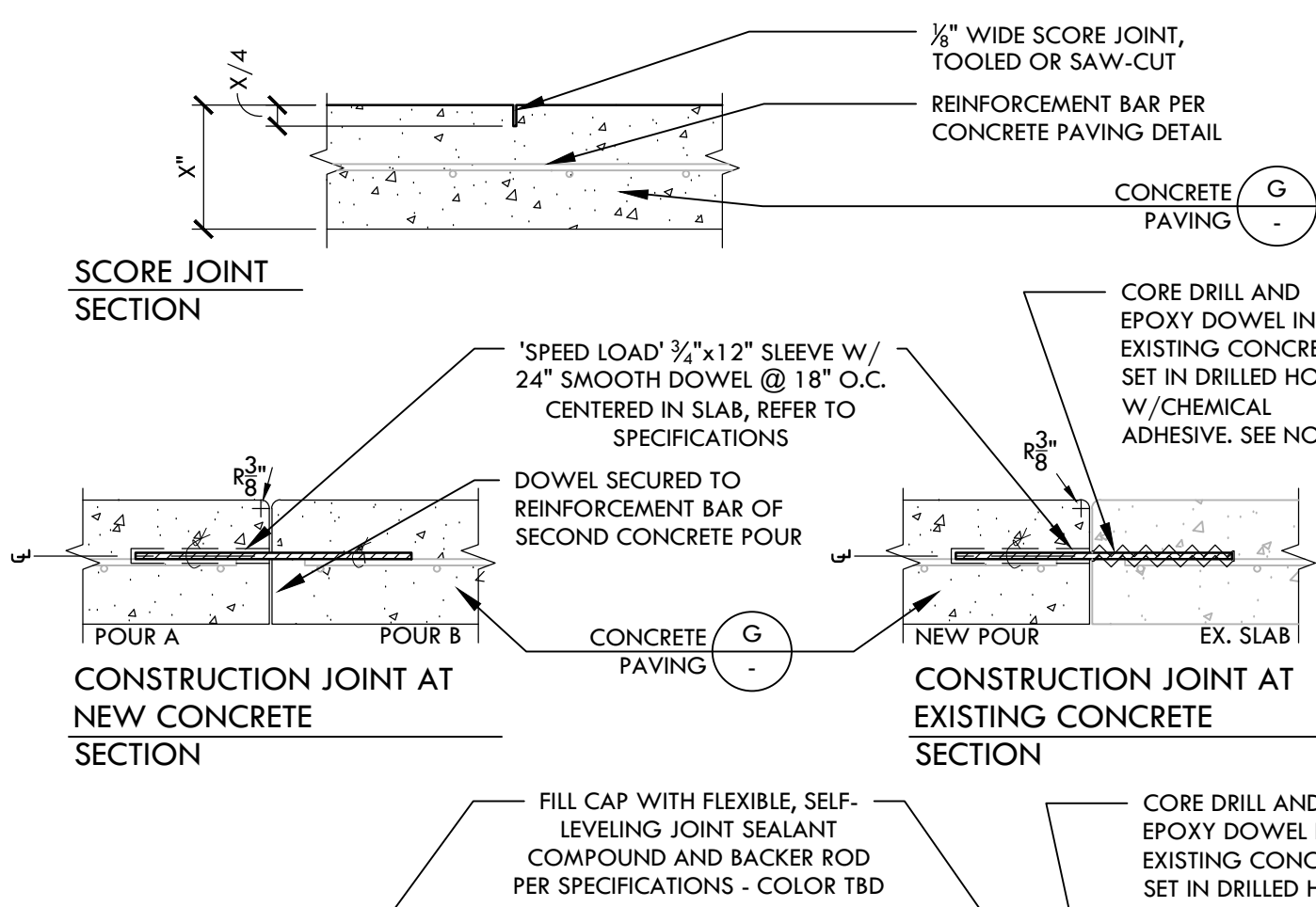
I ALL-WEATHER TRACK SURFACING

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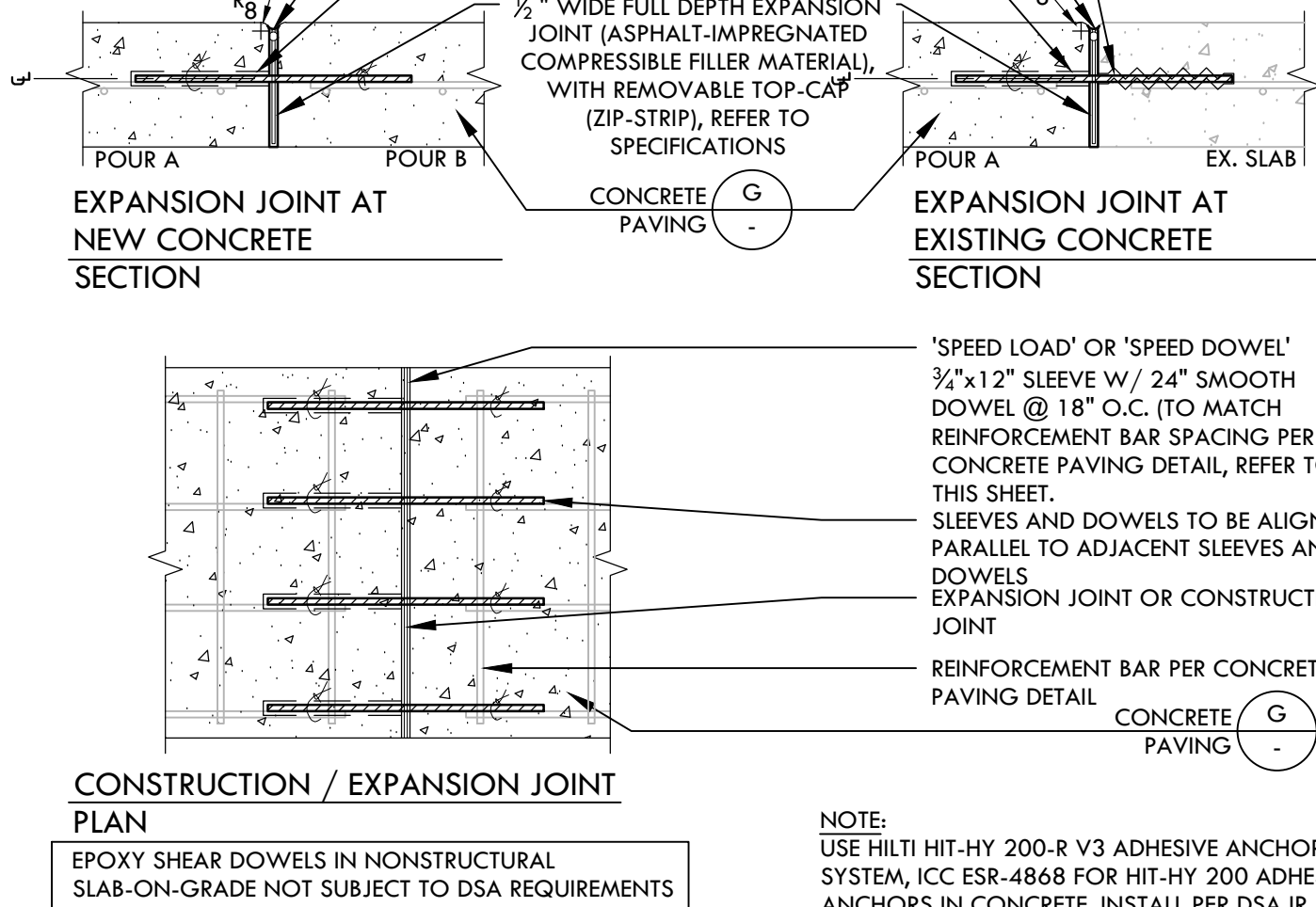
G CONCRETE PAVING

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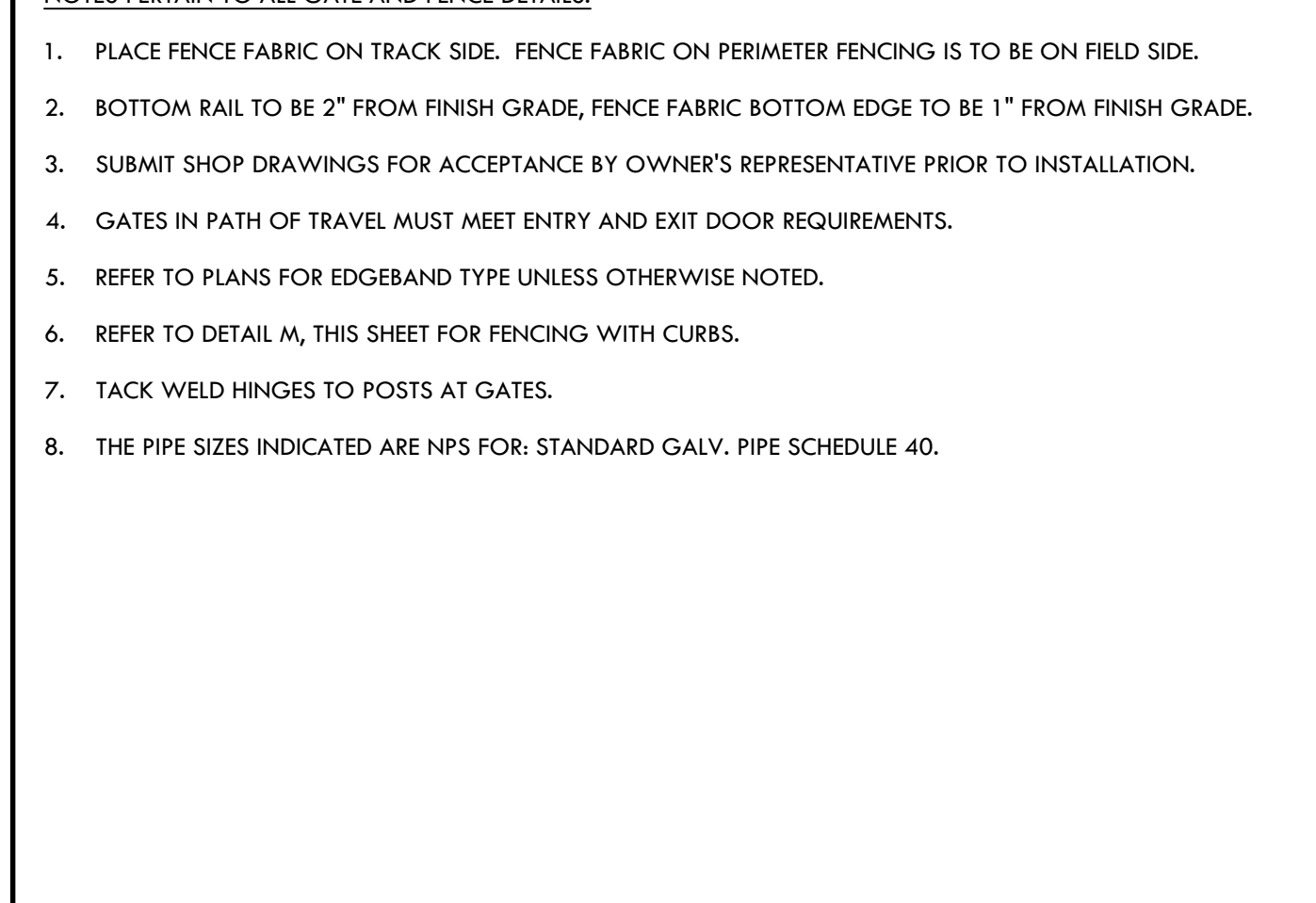
B ALL-WEATHER TRACK SURFACING NOTES

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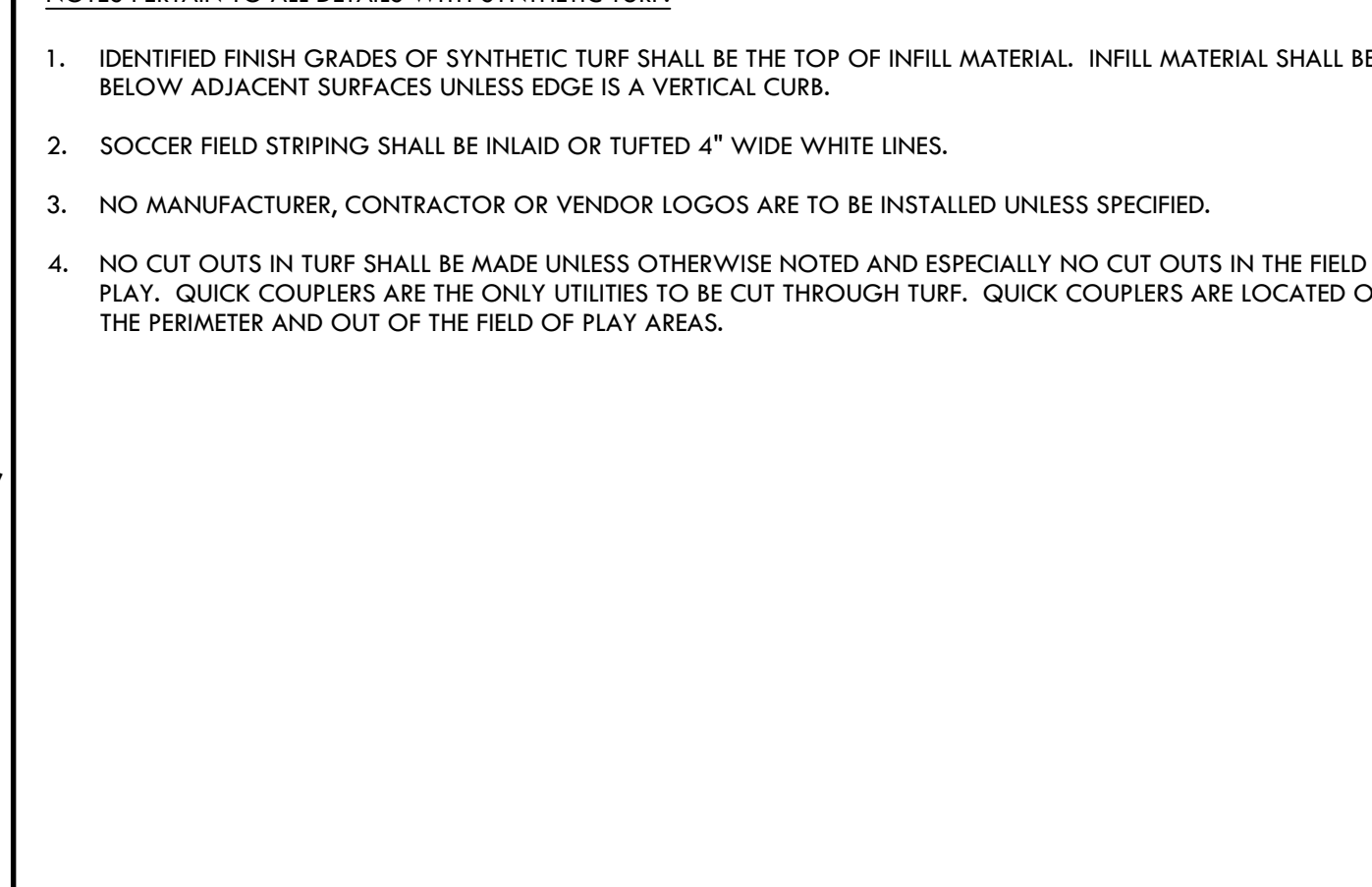
F CONCRETE JOINTS

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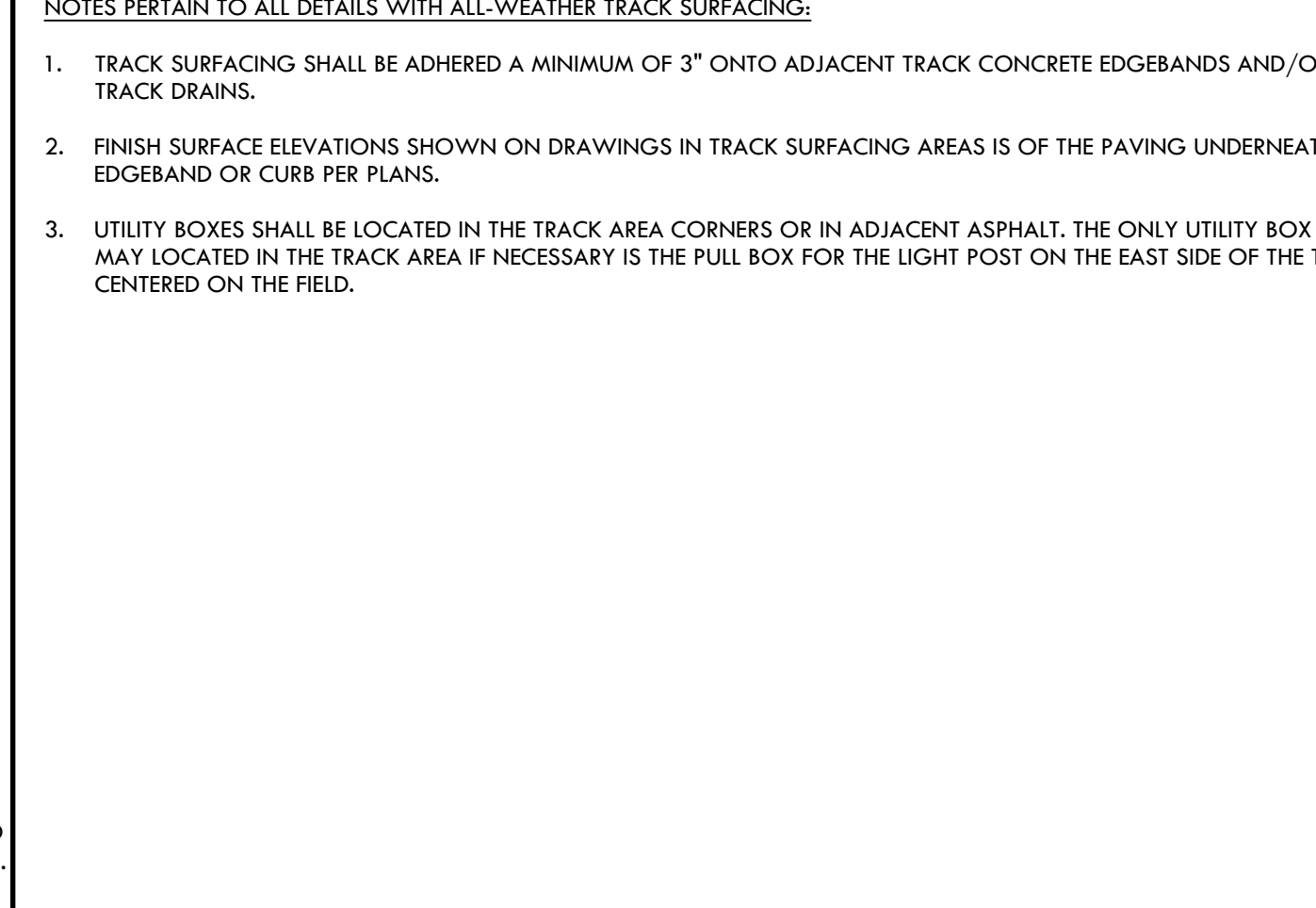
E ASPHALT PAVING

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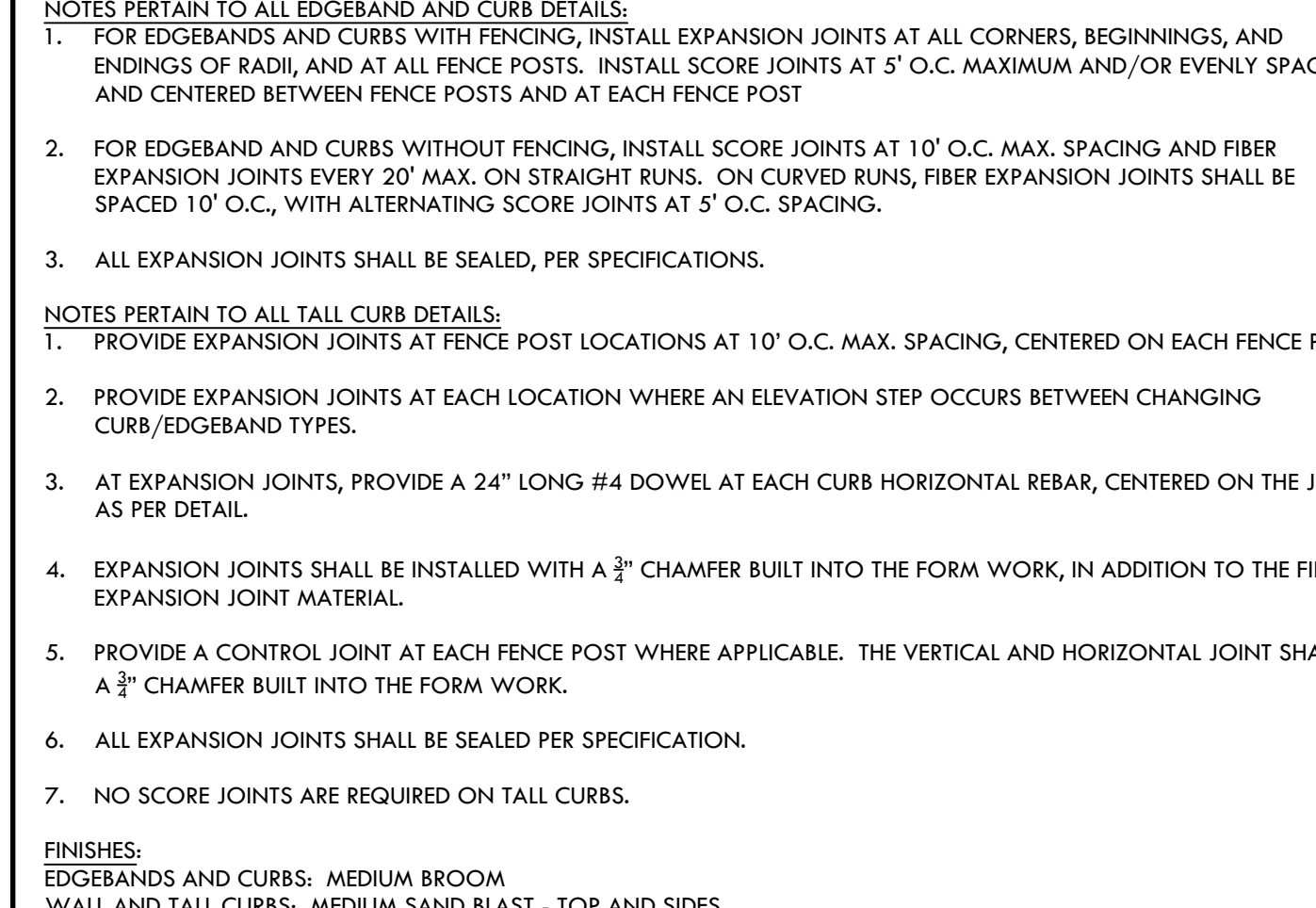
C SYNTHETIC TURF NOTES

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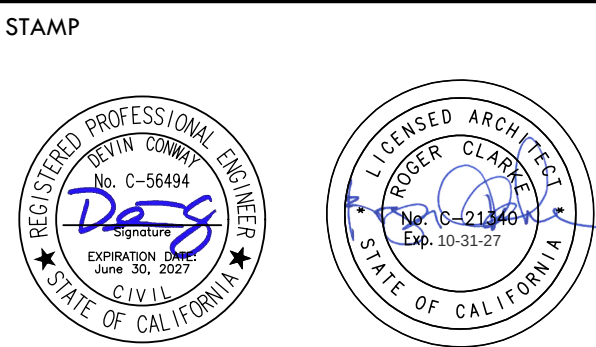
B ALL-WEATHER TRACK SURFACING NOTES

NTS



A EDGEBAND AND TALL CURB NOTES

NTS



CONSULTANT

CONSTRUCTION DETAILS

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

4366 W 129TH ST, HAWTHORNE, CA 90250

SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
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2		
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PROJ. NO.	2223000		

SHEET NO. D2.0

CONSTRUCTION DETAILS



SHEET TITLE

PROJECT ADDRESS

4366 W 129TH ST,
HAWTHORNE, CA 90250

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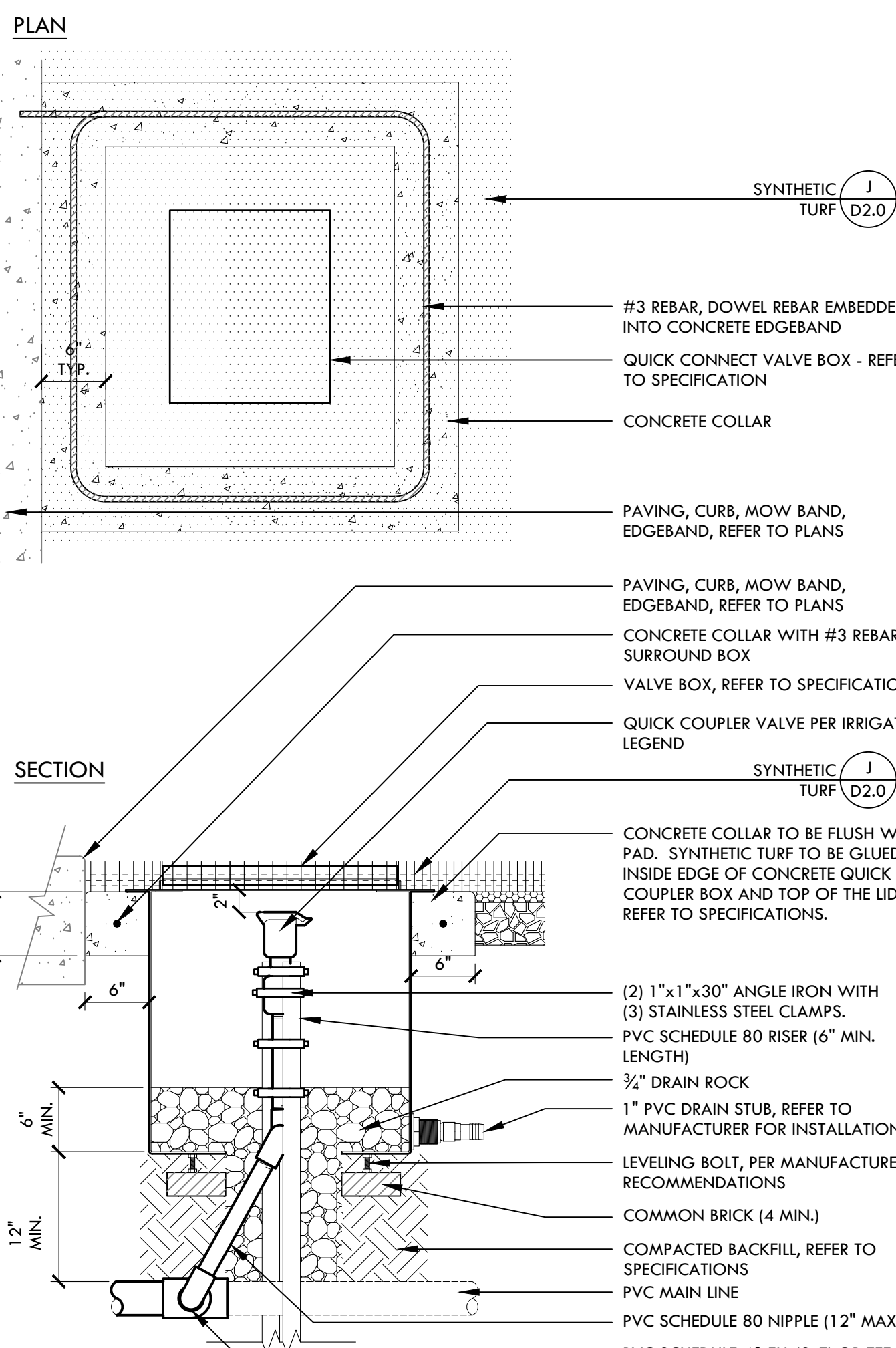
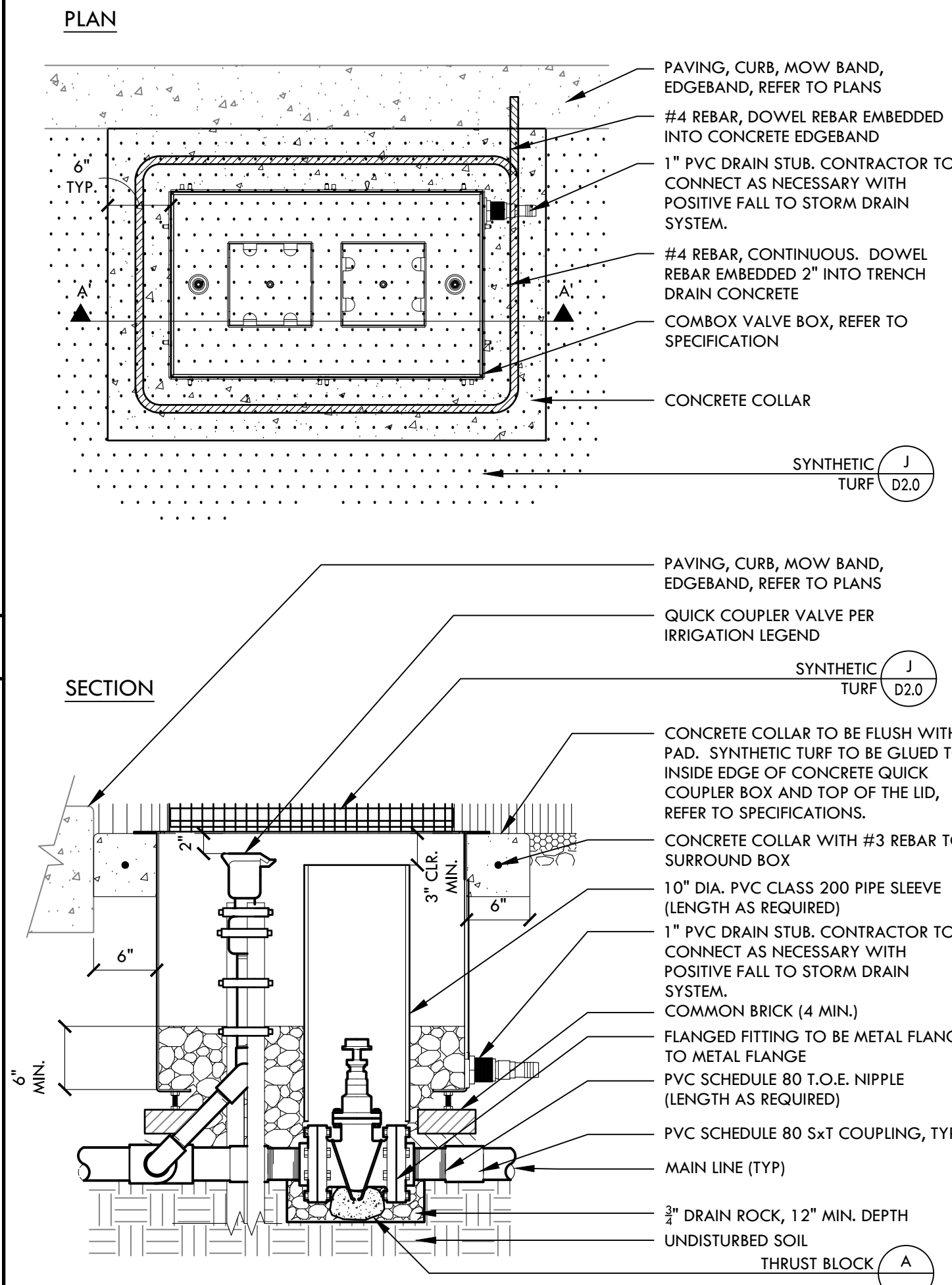
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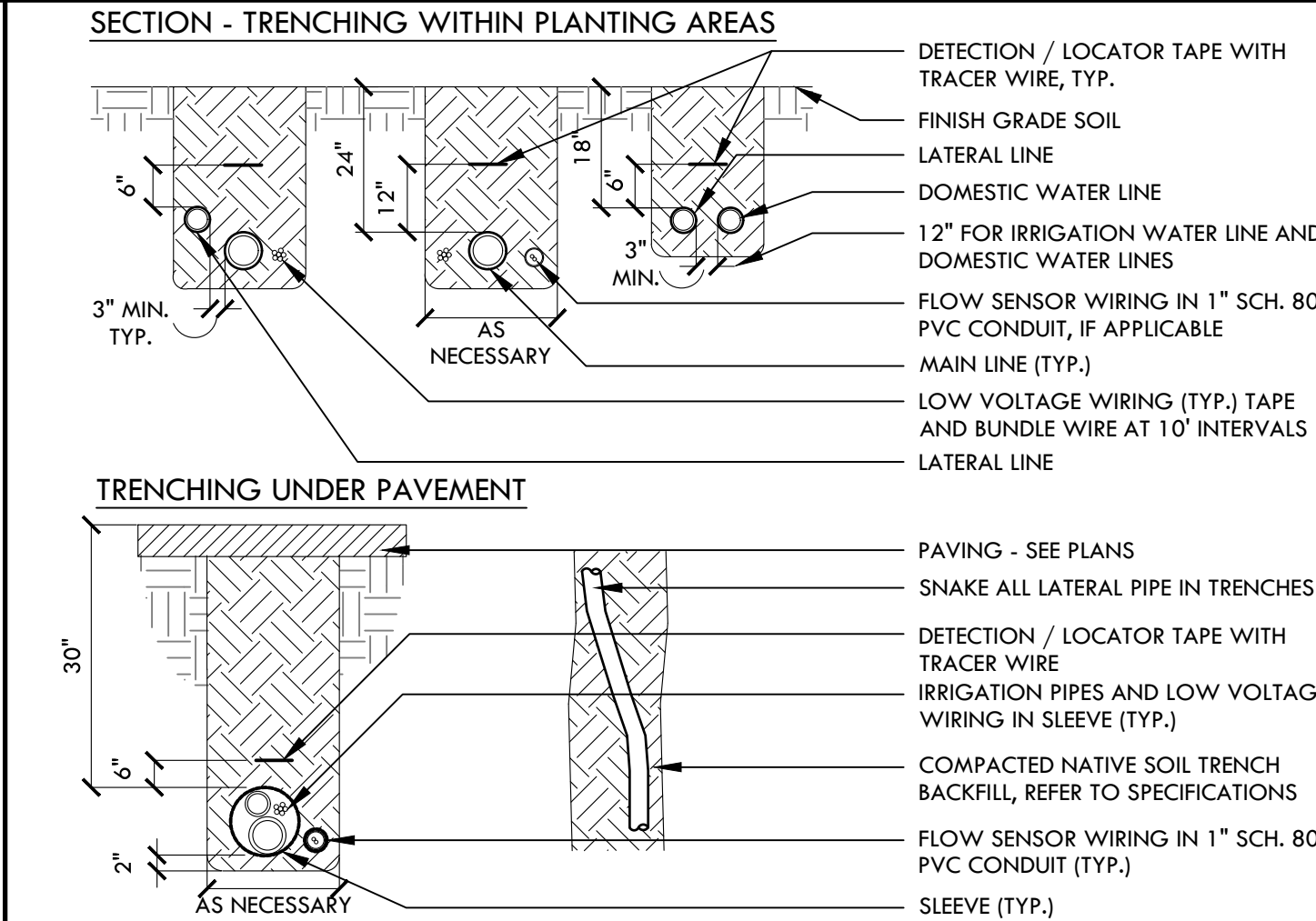
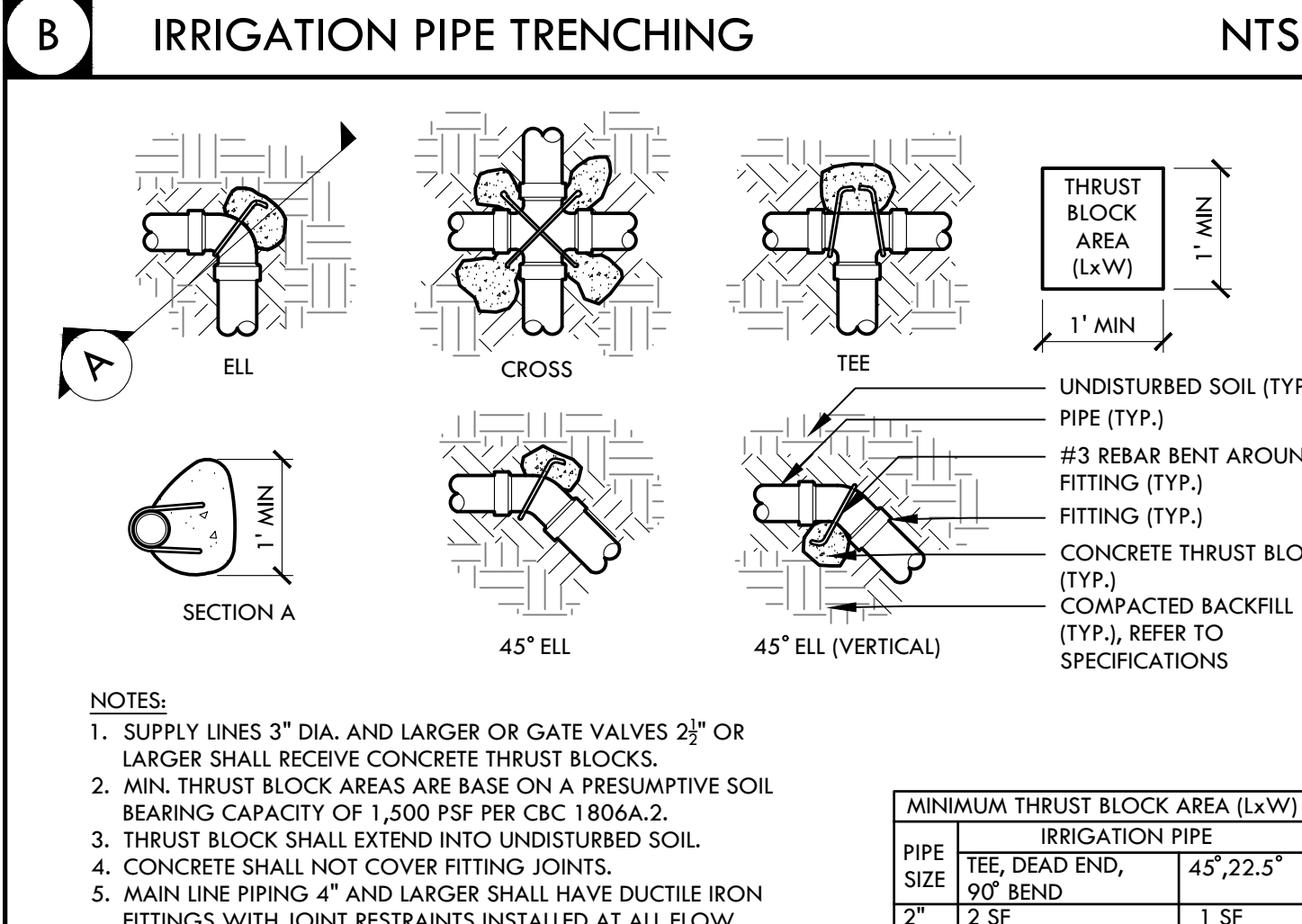
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QUICK COUPLER IN SYNTHETIC TURF

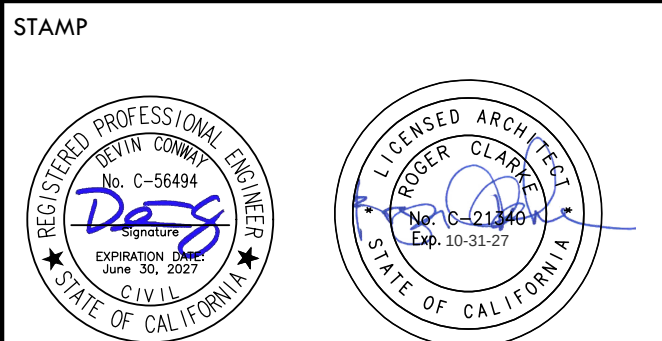
THRUST BLOCK



QUICK COUPLER AND & GATE VALVE 2" & LARGER IN COMBOX IN SYNTHETIC TURF



VERDE DESIGN
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Riverside, CA 92501
tel: 951.221.3142
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CONSULTANT

SHEET TITLE

IRRIGATION
DETAILS

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST,
HAWTHORNE, CA 90250

SUBMITTAL	DATE
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5		

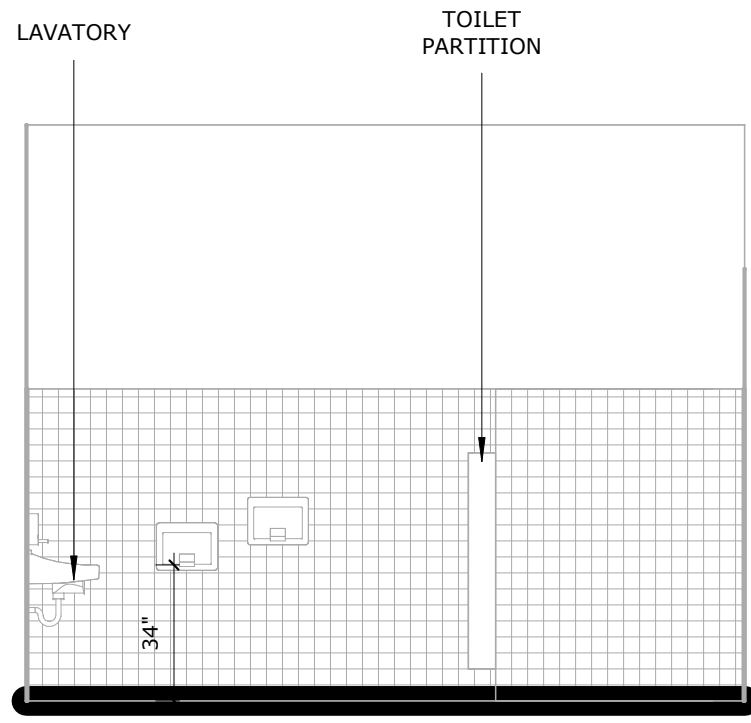
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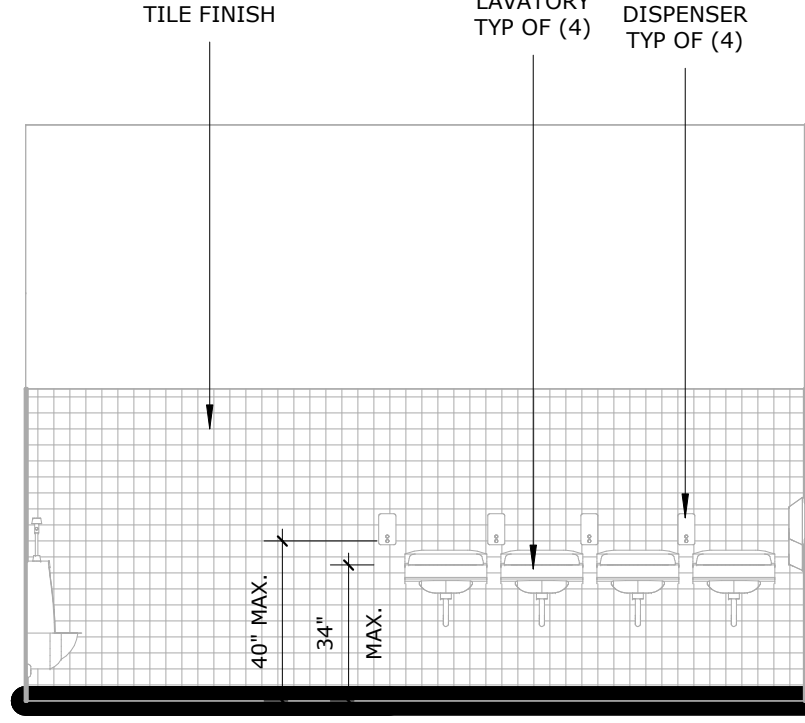
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IRRIGATION DETAILS

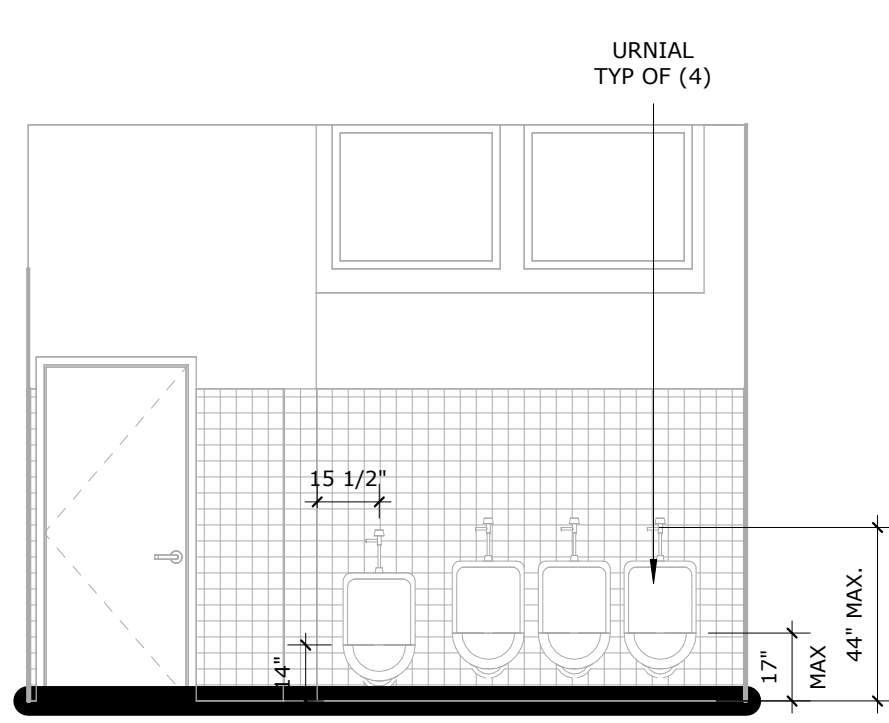
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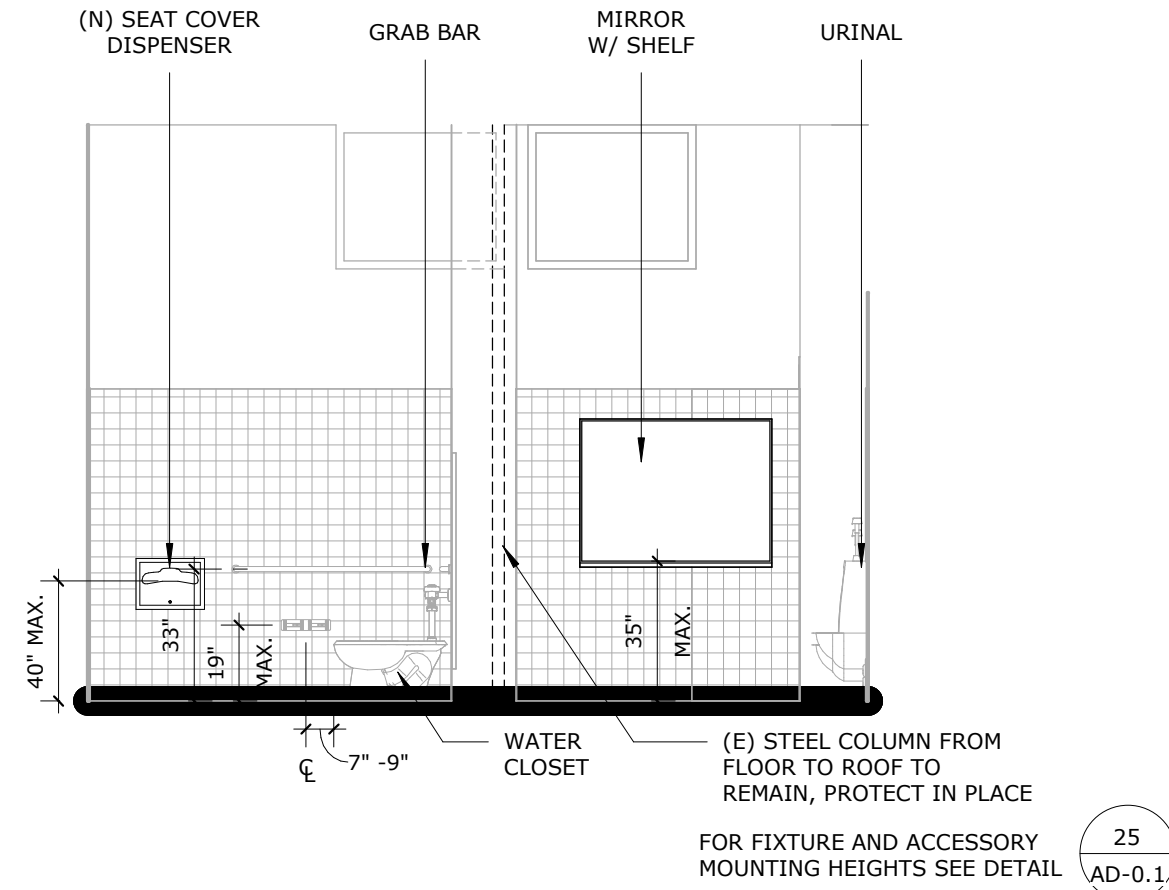
4 BOYS RESTROOM WEST
SCALE: 1/4" = 1'-0"



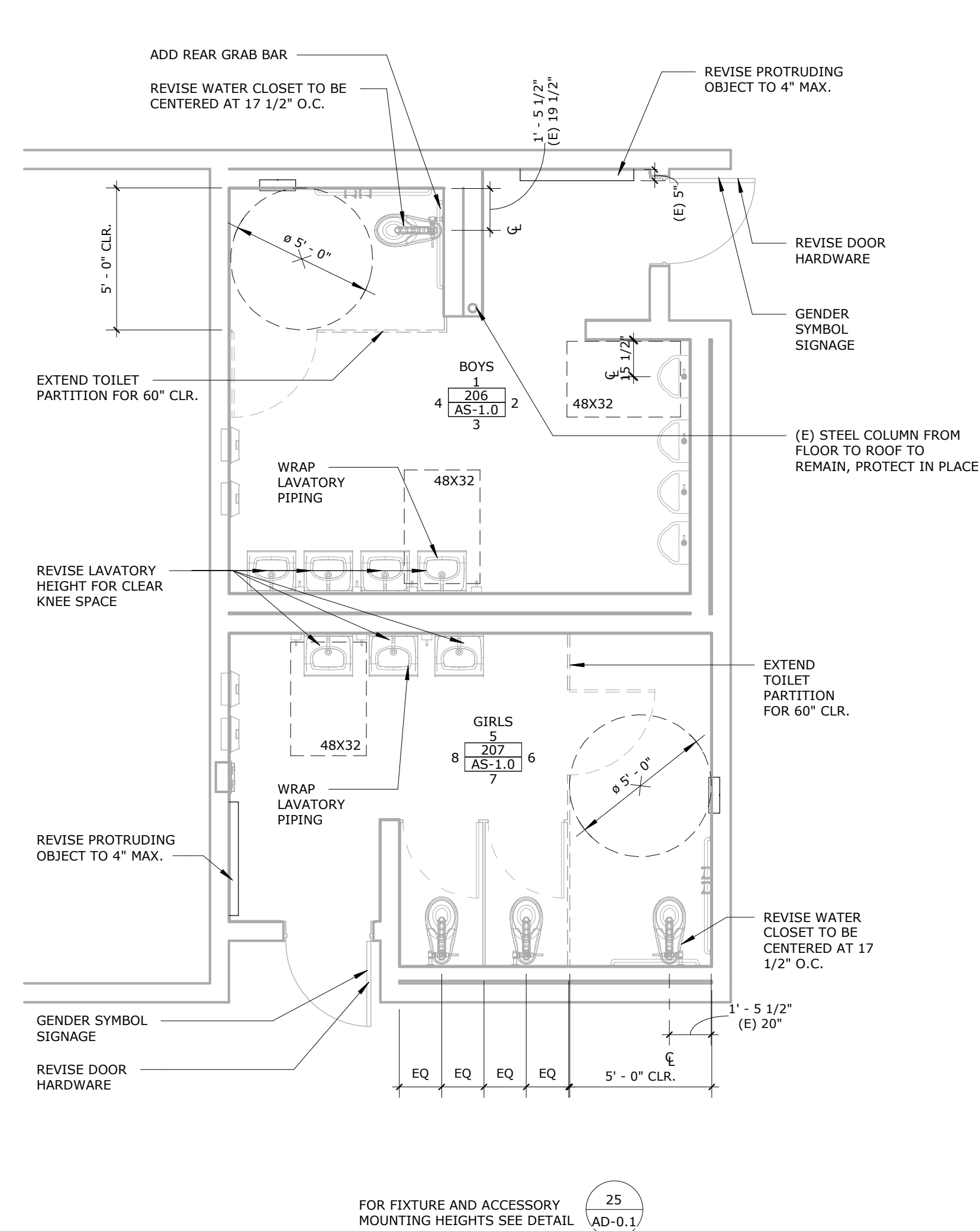
3 BOYS RESTROOM SOUTH
SCALE: 1/4" = 1'-0"



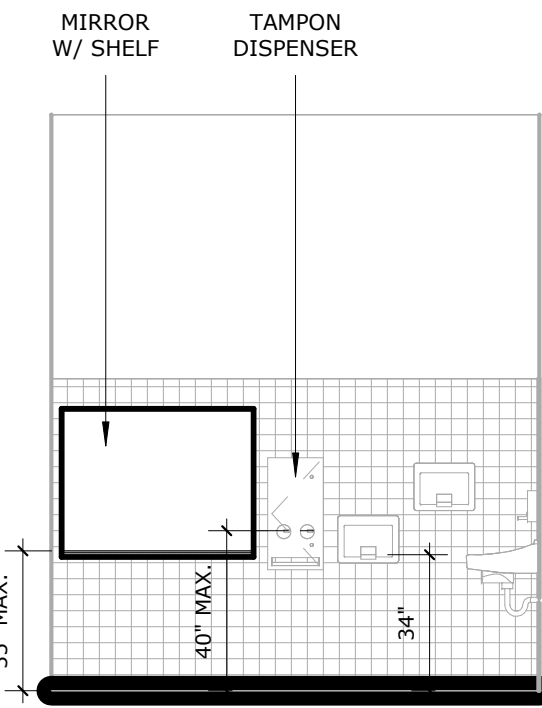
2 BOYS RESTROOM EAST
SCALE: 1/4" = 1'-0"



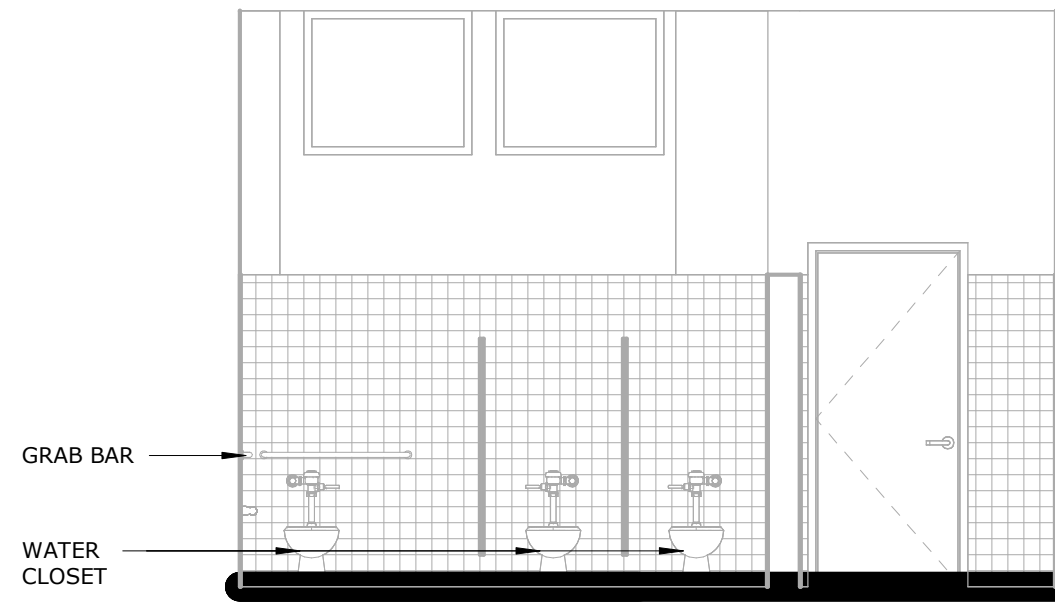
1 BOYS RESTROOM NORTH
SCALE: 1/4" = 1'-0"



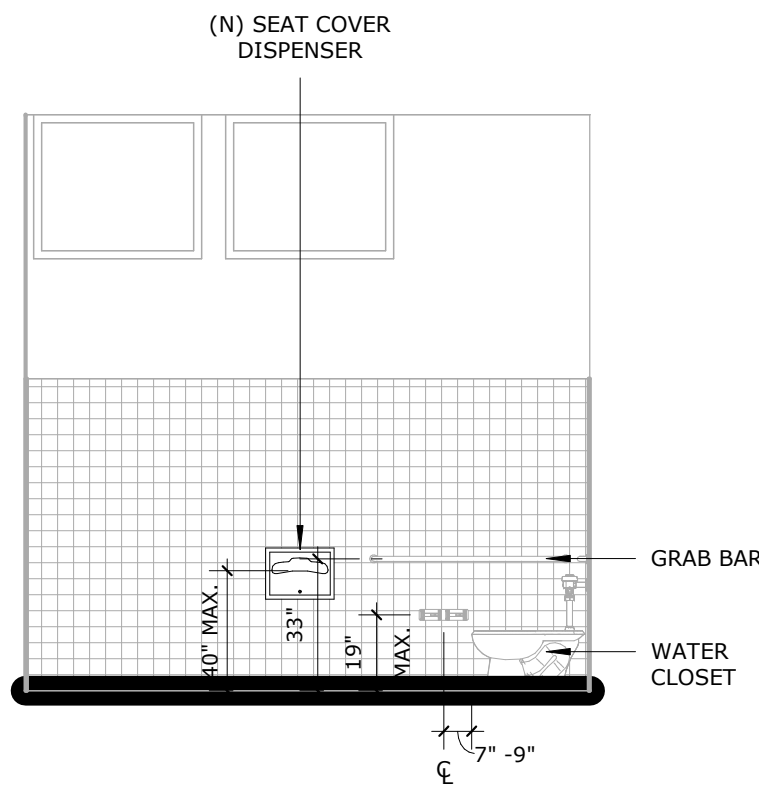
0 (E) ENLARGED RESTROOM PLAN
SCALE: 1/4" = 1'-0"



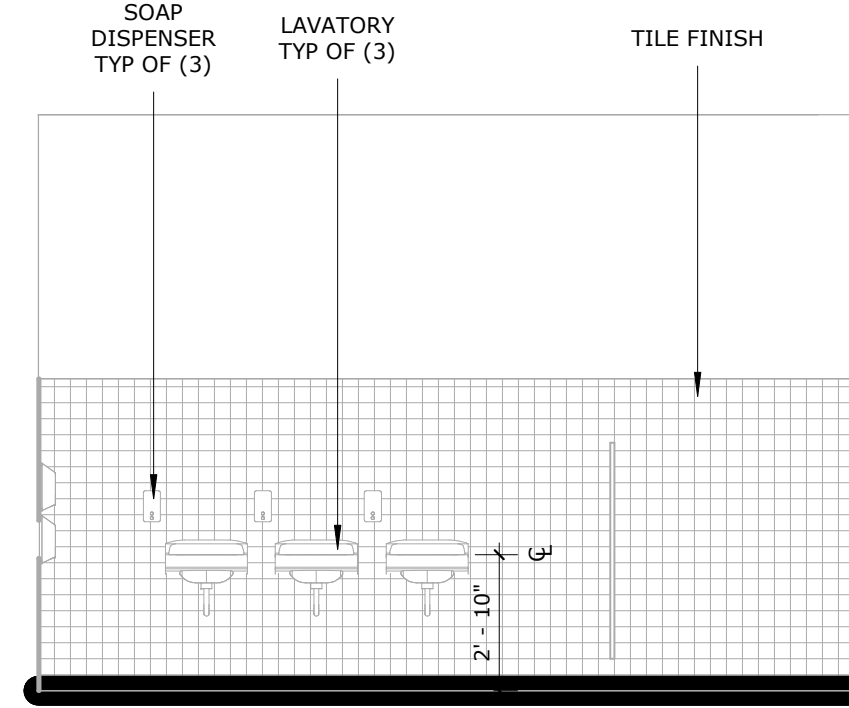
8 GIRLS RESTROOM WEST
SCALE: 1/4" = 1'-0"



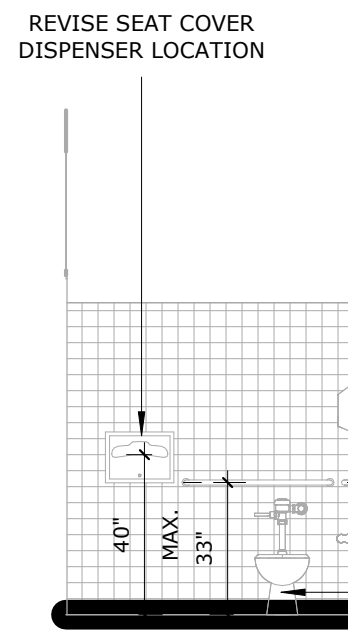
7 GIRLS RESTROOM SOUTH
SCALE: 1/4" = 1'-0"



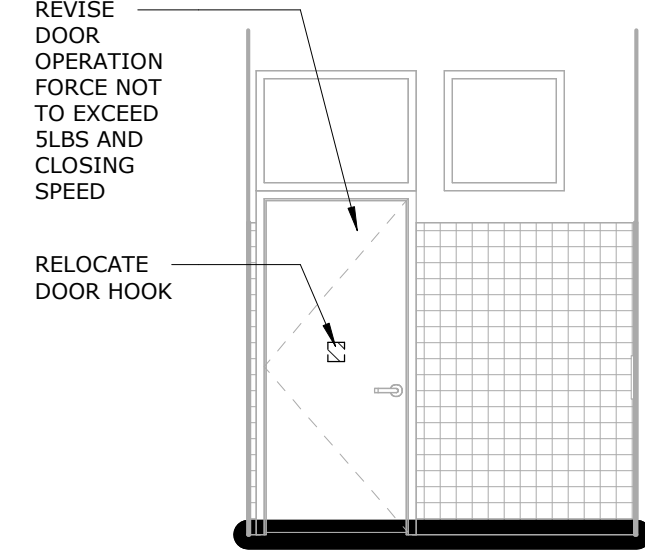
6 GIRLS RESTROOM EAST
SCALE: 1/4" = 1'-0"



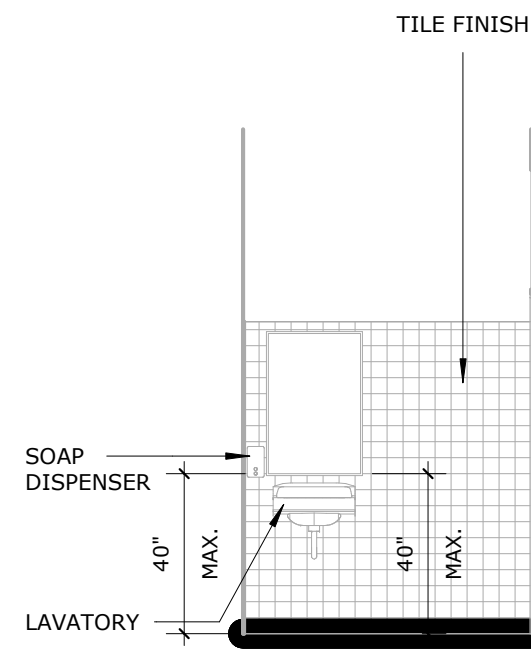
5 GIRLS RESTROOM NORTH
SCALE: 1/4" = 1'-0"



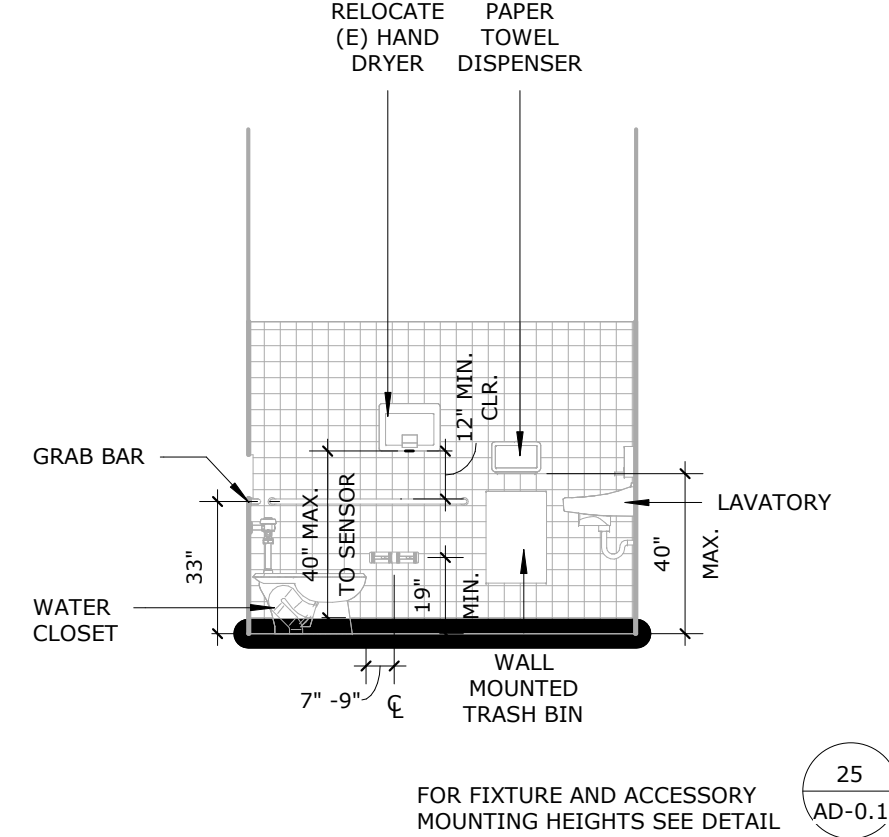
13 UNISEX R.R. WEST
SCALE: 1/4" = 1'-0"



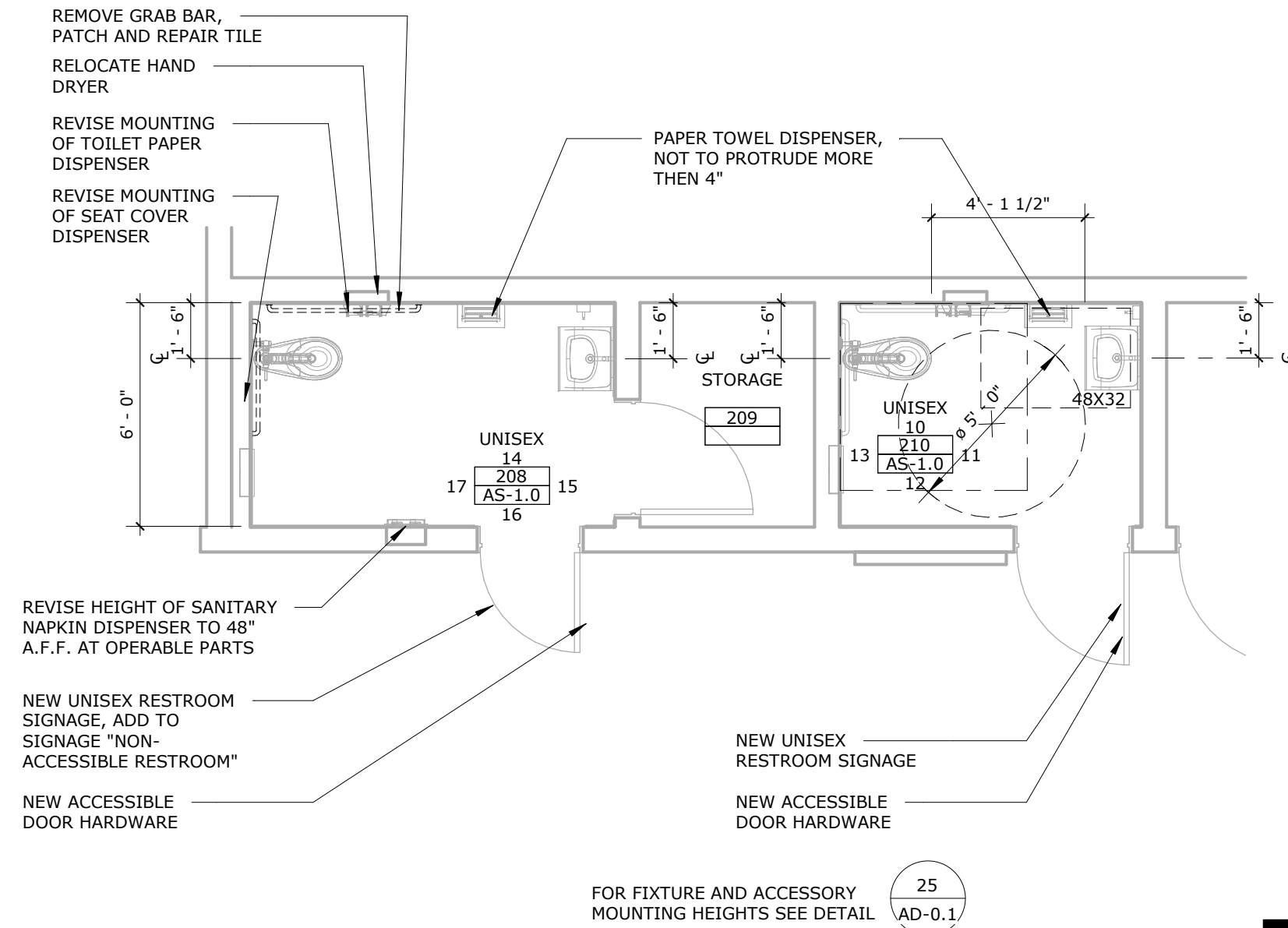
12 UNISEX R.R. SOUTH
SCALE: 1/4" = 1'-0"



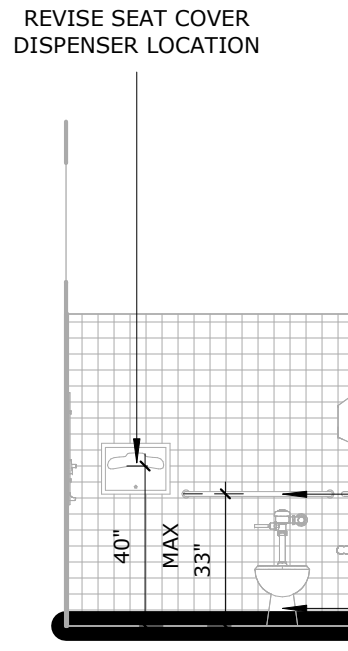
11 UNISEX R.R. EAST
SCALE: 1/4" = 1'-0"



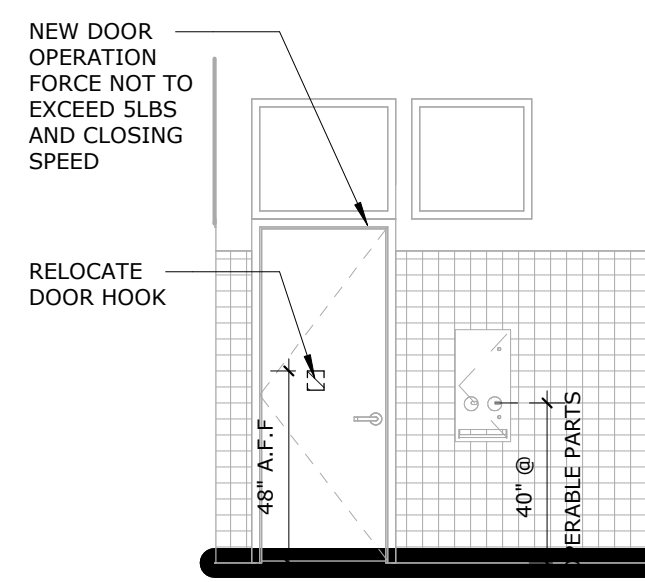
10 UNISEX R.R. NORTH
SCALE: 1/4" = 1'-0"



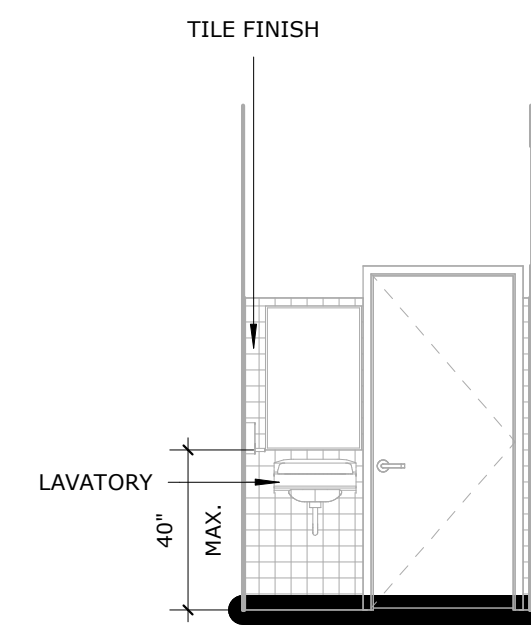
9 (E) ENLARGED RESTROOM PLAN - STAFF
SCALE: 1/4" = 1'-0"



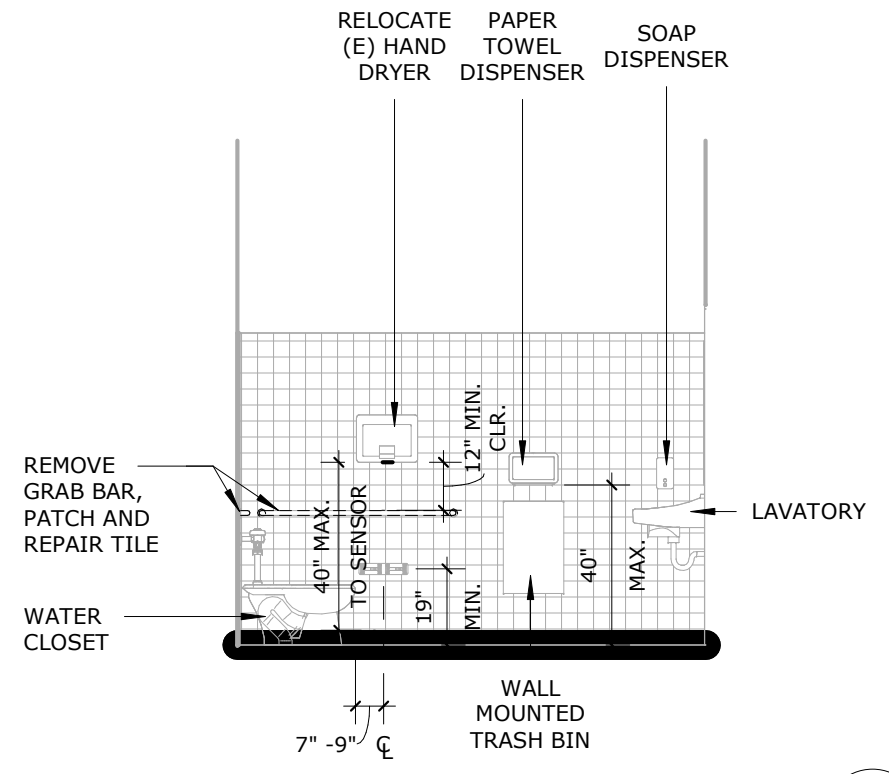
17 UNISEX R.R. WEST
SCALE: 1/4" = 1'-0"



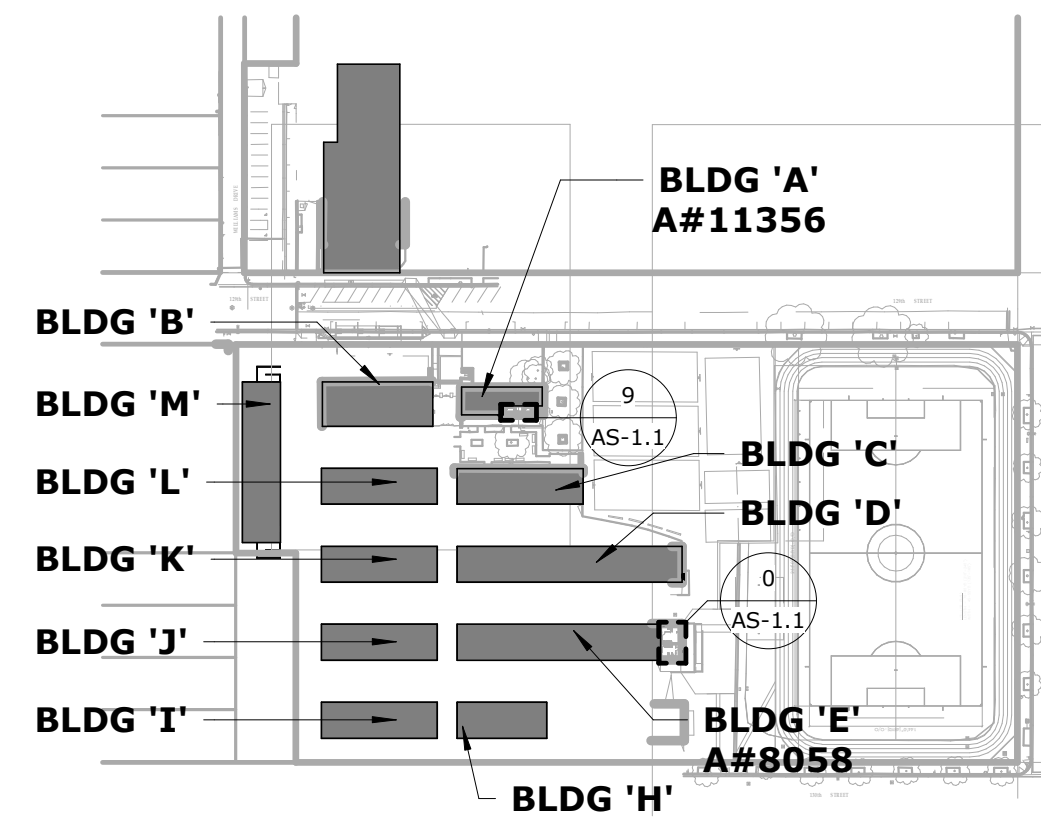
16 UNISEX R.R. SOUTH
SCALE: 1/4" = 1'-0"



15 UNISEX R.R. EAST
SCALE: 1/4" = 1'-0"



14 UNISEX R.R. NORTH
SCALE: 1/4" = 1'-0"



18 KEY PLAN
SCALE: 1" = 160'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APPL. 01-XXXXXX
REVISED FOR
SS FLS ACS
DATE
DSA PROJECT TRACKING NO.
XXXX-XXXX
FILE XX-XX

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
3485 Main St. Suite 350
Riverside, CA 92501
tel: 951.221.3142
fax: 408.985.7260
www.VerdeDesigninc.com



CONSULTANT
RUHNAU
CLARKE
ARCHITECTS

SHEET TITLE
ENLARGED RESTROOM
PLAN & INTERIOR
ELEVATIONS

PROJECT NAME
HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

PROJECT ADDRESS
4366 W 129TH ST,
HAWTHORNE, CA 90250

SUBMITTAL
DESIGN DEVELOPMENT SUBMITTAL

DATE
11/26/25

NO. REVISIONS DATE

DRAWN BY
NIELS ACOSTA

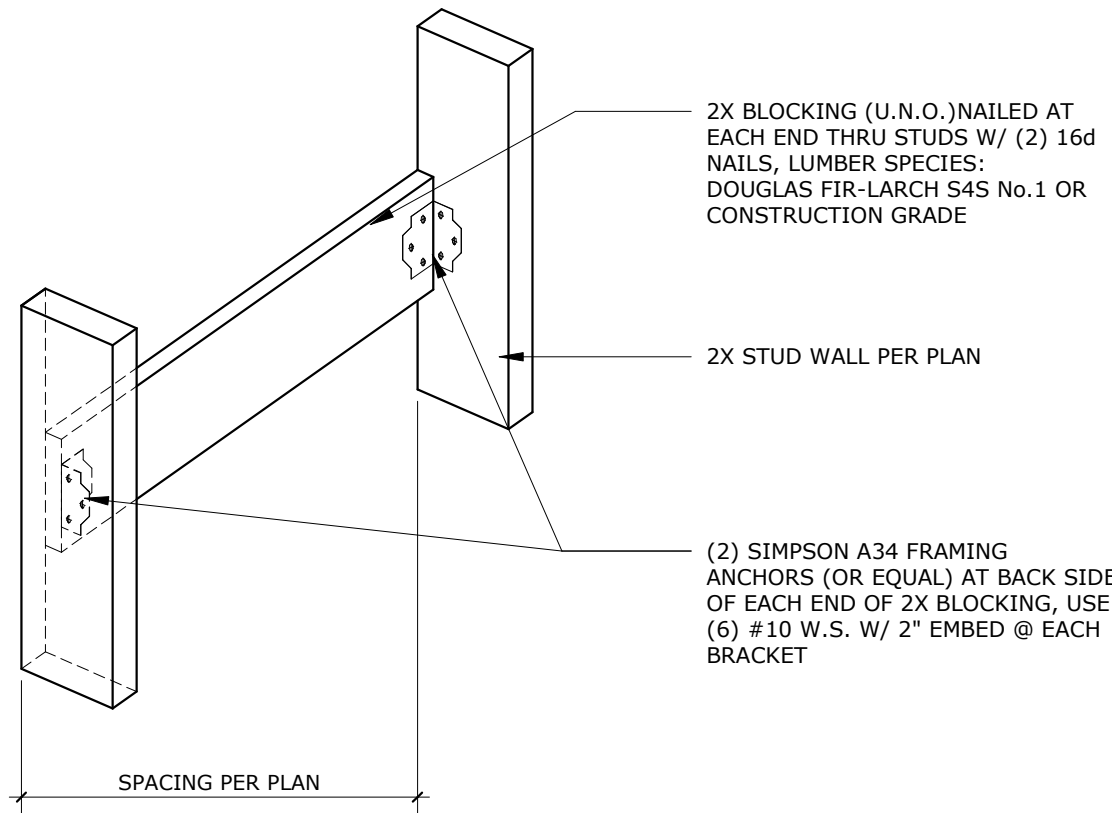
CHECKED BY
ALVIN FLORES

DATE ISSUED
11/26/2025

PROJ. NO.
2223000

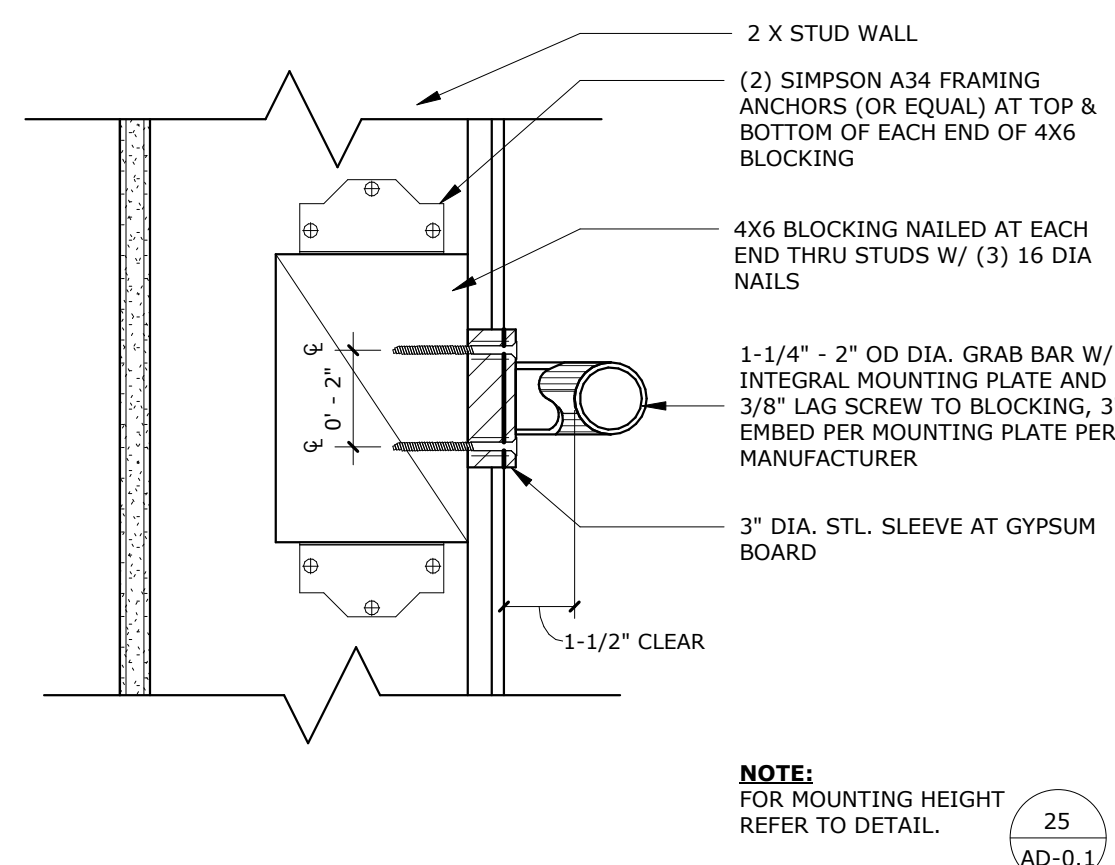
SHEET NO.
AS-1.1

	ACCESSORIES & EQUIP.
	KEYNOTES
	ACCESSORIES
1	18" WX30" H TEMPERED GLASS MIRROR
2	RECESSED PAPER TOWEL DISPENSER AND WASTE DISPOSAL
3	RECESSED ELECTRIC HAND DRYER
4	SURFACE MOUNTED TOILET SEAT COVER DISPENSER
5	SURFACE MOUNTED TOILET TISSUE DISPENSER
6	SURFACE MOUNTED LIQUID SOAP DISPENSER INSTALLED AT +4" A.F.F. (OVER OBSTRUCTION)
7	GRAB BARS (SIDE=48" x 1-1/2" DIA, REAR=36" x 1-1/2" DIA.)
8	SURFACE MOUNTED FEMININE NAPKIN DISPENSER (WOMENS ONLY)
9	STAINLESS STEEL MIRROR
	EQUIPMENT
10	ACCESSIBLE LAVATORY
11	NON-ACCESSIBLE WATER CLOSET.
12	NON-ACCESSIBLE URINAL.
13	TOILET PARTITION.
14	URINAL SCREEN.
15	ACCESSIBLE WATER CLOSET.
16	ACCESSIBLE URINAL.
	MECHANICAL/PLUMBING
17	INSULATE DRAIN AND SUPPLY PIPING TO PREVENT CONDENSATION. THERE SHALL BE NO CONDENSATIVE SURFACES UNDER THE LAVATORY, PER CBC 2022 SEC. 118-606.5

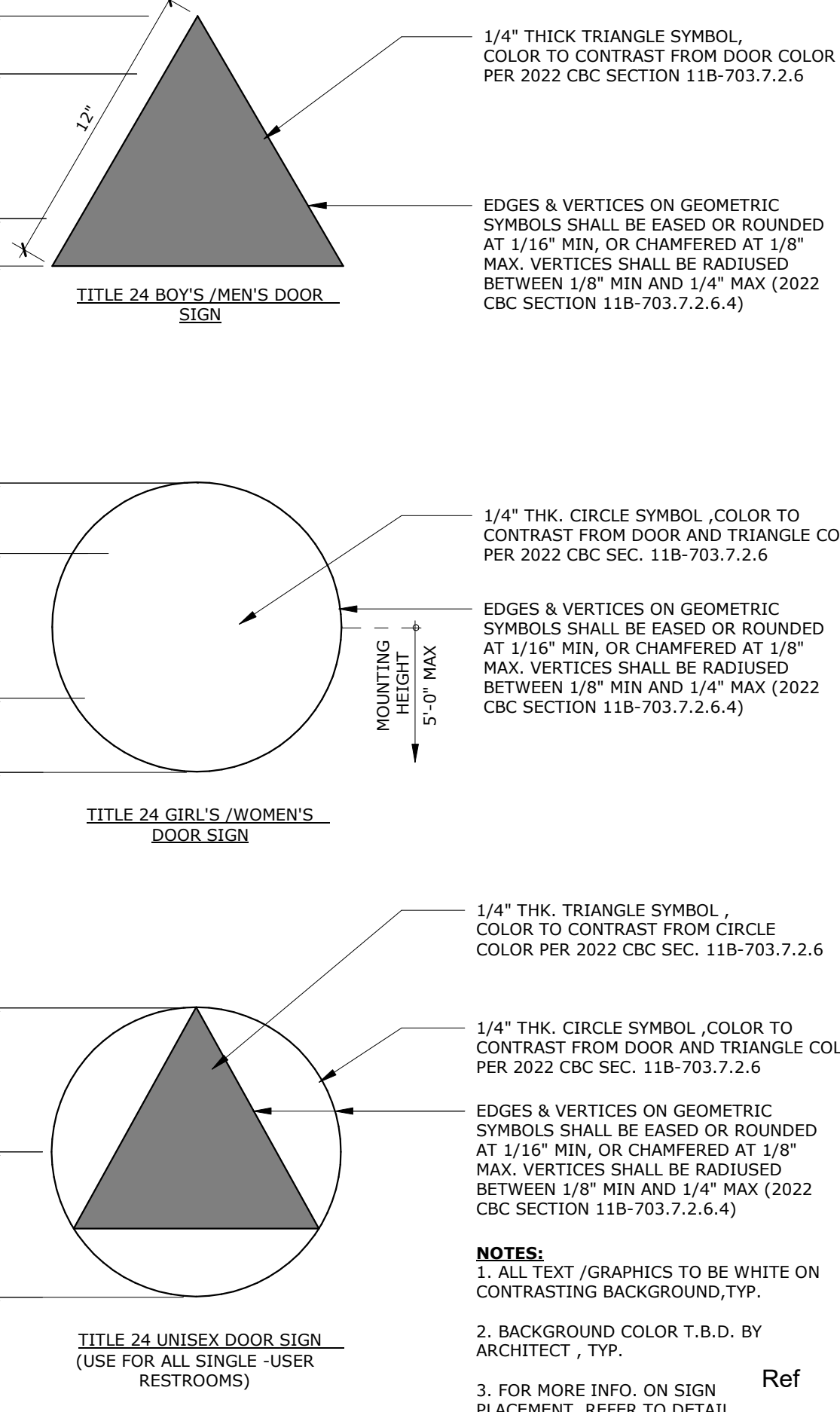


SIGNAGE REQUIREMENTS

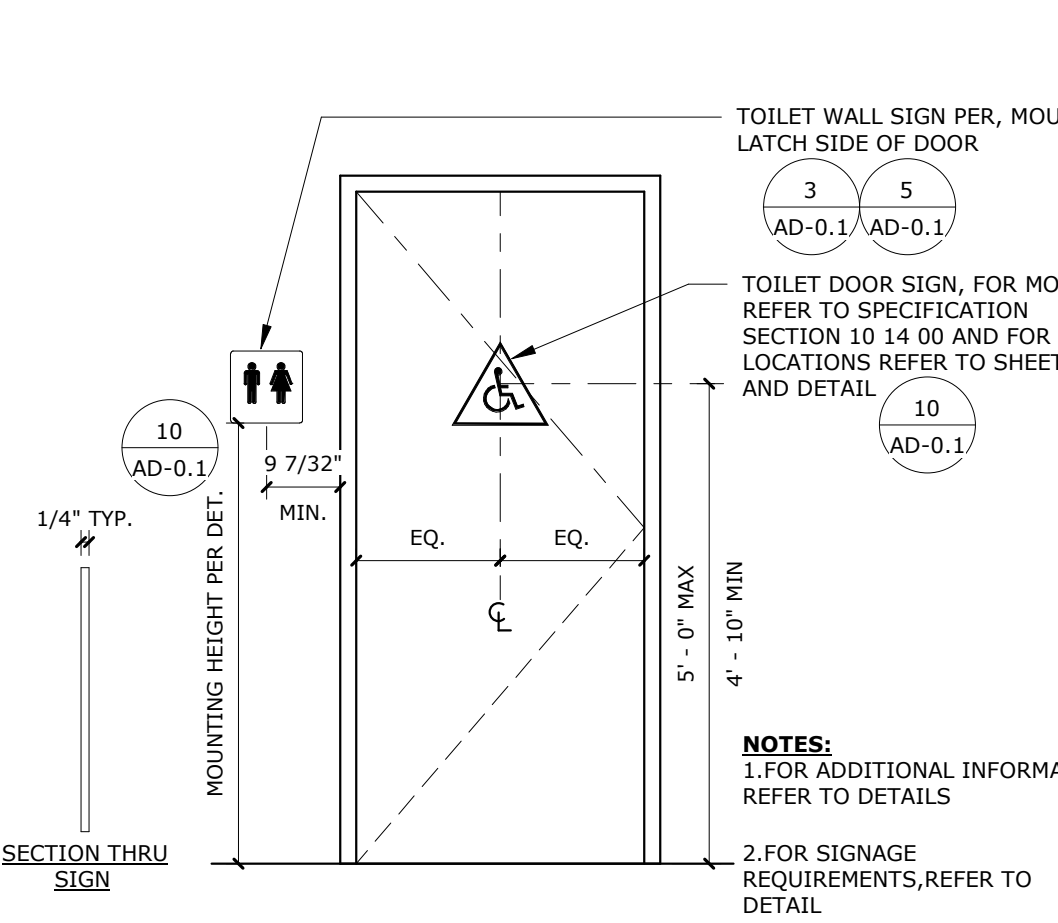
TYP BLOCKING @ STUD WALL



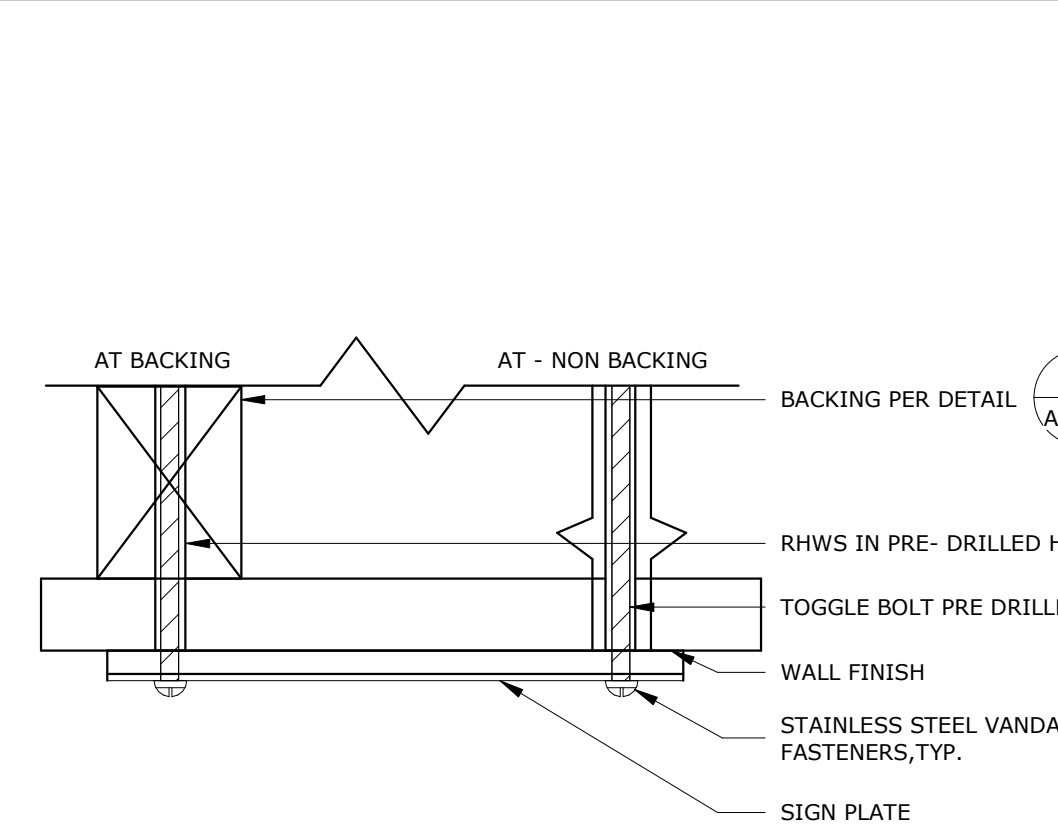
ANCHORAGE TOILET PARTITION



TOILET SIGN SCALE
6"



TOILET SIGNS SCALE 1/4"



SIGN ATTACH. FRAMED WALL	SCALE 3"
	REF.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT APPL. 01-XXXXXX REVIEWED FOR: ST - PLS ACS DATE _____ DSA PROJECT TRACKING NO.: XXXX.XXXX FILE XXX-XX	
 VERDE DESIGN LANDSCAPE ARCHITECTURE CIVIL ENGINEERING SPORT PLANNING & DESIGN 3685 Main St., Suite 350 Riverside, CA 92501 tel. 951.221.3142 fax: 951.885.7266 www.VerdeDesigninc.com	
STAMP 	
CONSULTANT RUHNAU CLARKE ARCHITECTS	
PROJECT TITLE ACCESSIBILITY DETAILS	
PROJECT NAME HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS	
PROJECT ADDRESS 4366 W 129TH ST, HAWTHORNE, CA 90250	
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
N.O.	REVISIONS
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DRAWN BY NIELS ACOSTA	CHECKED BY ALVIN FLORES
DATE ISSUED 11/26/2025	SCALE
PROJ. NO. 2223000	
SHEET NO. AD-0.1	

DEMOLITION NOTES

1. REFER TO LANDSCAPE AND CIVIL DEMOLITION DRAWINGS FOR MOUNTAIN AREAS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF ALL EXISTING ELECTRICAL REQUIRED TO CLEAR NEW CONSTRUCTION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

A. ALL EXISTING WIRE SHALL BE REMOVED FROM CONDUIT.

B. ALL EXISTING CONDUIT, THAT INTERFERES WITH ANY NEW CONSTRUCTION, SHALL BE CUT BACK AS REQUIRED TO CLEAR NEW CONSTRUCTION.

C. FOR EXISTING CONSTRUCTION THAT IS TO BE REMOVED REMOVE ALL EXISTING EXPOSED, SURFACE, AND CONCEALED CONDUIT AND RACEWAYS. RECONNECT OUTLETS AND LIGHTING FIXTURES THAT REMAIN AND WHICH ARE NOW FED THROUGH THE OUTLETS TO BE REMOVED.

D. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE SALVAGEABLE, SHALL REMAIN THE PROPERTY OF OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE.

E. DO NOT REUSE SALVAGED MATERIALS AND EQUIPMENT UNLESS SPECIFICALLY INDICATED ON PLANS OR SPECIFIED. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY ARCHITECT TO BE SCRAP.

2. ELECTRICAL DEMOLITION DRAWINGS DO NOT SHOW ALL ELECTRICAL WORK THAT IS TO BE REMOVED. REFER TO ALL DEMOLITION DRAWINGS

OR OTHER TRADES/DISCIPLINES FOR WORK THAT AFFECTS ELECTRICAL DEMOLITION WORK.

3. THE EXISTING CONDITIONS SHOWN ON THESE PLANS HAVE BEEN TAKEN FROM AVAILABLE RECORD DRAWINGS AND ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING A BID ALL DEMOLITION, ALTERATIONS, RELOCATIONS AND RENOVATION WORK SHALL BE INCLUDED IN THE CONTRACT. NO ADDITIONAL CHANGE ORDERS OR ALLOWANCES WILL BE ACCEPTED.

4. CONTRACTOR SHALL INCLUDE ALL WORK NECESSARY TO KEEP EXISTING ELECTRICAL SIGNAL AND FIRE ALARM SYSTEMS IN ALL AREAS ADJACENT TO DEMOLITION/RECONSTRUCTION AREAS IN SERVICE CONTINUOUSLY UNTIL WORK IN THAT AREA IS COMPLETE.

5. EQUIPMENT AND MATERIALS TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN THE ORIGINAL LOCATIONS. REPLACE EQUIPMENT OR MATERIALS THAT MAY BE DAMAGED WITH NEW EQUIPMENT AND MATERIALS OF LIKE KIND AND QUALITY.

6. DISPOSAL OF HAZARDOUS MATERIALS SUCH AS LAMPS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL STATE AND FEDERAL REQUIREMENTS.

GENERAL NOTES

1. THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OR EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIALS REQUIRED FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.

2. THESE PLANS, SPECIFICATIONS, AND ALL MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL LEGAL AND INDUSTRY REQUIREMENTS, AND STANDARDS INCLUDING WITHOUT LIMITATION TO THE FOLLOWING:

A. CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 (CALIFORNIA BUILDING CODE), 2025 EDITION.

B. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 (CALIFORNIA ELECTRICAL CODE), 2025 EDITION.

C. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 6 (CALIFORNIA ENERGY CODE), 2025 EDITION.

D. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2025 EDITION.

E. OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

F. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").

G. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.

H. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.

3. THE PLANS REPRESENT ONLY THE FINISHED ELECTRICAL SYSTEMS, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.

4. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE ELECTRICAL WORK. EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.

5. IN INTERPRETING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:

A. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.

B. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE. FIELD VERIFY DIMENSIONS PRIOR TO BID.

C. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED, AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AN ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.

D. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

6. SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.

7. IN NO EVENT WILL ANY SITE VISITS BY THE ELECTRICAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES

8. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF ELECTRICAL ENGINEER FOR THE PROJECT. INCLUDING WITHOUT LIMITATION THE CONTRACTOR COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES, AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. THE ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE, AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

9. ELECTRICAL PLANS DO NOT SHOW ELECTRICAL REQUIREMENTS FOR MECHANICAL AND PLUMBING EQUIPMENT CONTROL. REFER TO MECHANICAL AND PLUMBING PLANS AND SPECIFICATIONS, WHERE EQUIPMENT IS INDICATED TO BE BY ELECTRICAL CONTRACTOR. PROVIDE ALL CONDUIT, WIRE, J-BOX, OUTLET BOXES, RELAY SWITCHES, TIME SWITCHES, CONTROL CIRCUITS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE MECHANICAL AND PLUMBING INSTALLATION. ALL WIRE SHALL BE INSTALLED IN CODE SIZED CONDUIT.

10. ALL CONDUIT, STRUCTURES AND INSTALLATION FOR POWER AND TELEPHONE UTILITIES SHALL CONFORM WITH THE REQUIREMENTS (MINIMUM BEND RADIUS, CONCRETE ENCASMENT, CONDUIT, TYPE, ETC.) OF THE UTILITIES COMPANY. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BID AND INCLUDE ALL COSTS IN BID.

11. CONTRACTOR SHALL OBTAIN SOUTHERN CALIFORNIA EDISON CO. (SCE CO.) CONSTRUCTION DRAWINGS PRIOR TO CONSTRUCTION AND SHALL INSTALL POWER CONDUIT AND STRUCTURES ACCORDING TO SCE CO. DRAWINGS. EXTRA PAYMENTS WILL NOT BE GRANTED FOR FAILURE TO DO SO.

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

13. REFER TO THE DRAWINGS AND SHOP DRAWINGS OF OTHER TRADES FOR ADDITIONAL DETAILS WHICH AFFECT THE PROPER INSTALLATION OF THIS WORK.

14. PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE FROM ANY CAUSE WHATSOEVER AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL THE WORK UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS AND EQUIPMENT BEFORE REQUESTING FINAL ACCEPTANCE.

15. THE DRAWINGS INDICATE IN A DIAGRAMMATIC MANNER THE DESIRED LOCATIONS OF ARRANGEMENT OF THE COMPONENTS OF ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS, AND UNDEFINED CONSTRUCTION DETAILS AS JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE, AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF CONDITIONS ENCOUNTERED.

16. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO DEVELOPED CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.

17. LOCATIONS OF DISCONNECT SWITCHES AND CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. VERIFY ACTUAL CONNECTION LOCATIONS WITH EQUIPMENT SHOP DRAWINGS AND LOCATE DISCONNECT SWITCHES TO PROVIDE CODE REQUIRED CLEARANCES AND ACCESS. DISCONNECT SWITCHES ON ROOF SHALL BE 3' MINIMUM ABOVE ROOF. MOUNTING OF DISCONNECTS DIRECTLY ON MECHANICAL EQUIPMENT IS NOT ACCEPTABLE. PROVIDE ANGLE IRON SUPPORT BRACKETS BOLTED TO ROOF FRAMING. FIELD GALVANIZE ALL FIELD CUT ENDS OF UP PORTS. PROVIDE ROOF FLASHING AS REQUIRED.

18. PROVIDE ALL EQUIPMENT WITH ENCLOSURES LISTED OR LABELED FOR USE AND LOCATION WHERE SUCH EQUIPMENT IS INSTALLED.

19. PROVIDE UL LISTED FIRE STOP FOR ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, AND CEILINGS TO MAINTAIN ALL FIRE RATINGS. THE FIRE STOP MATERIALS SHALL BE RE-ENTERABLE AND REUSABLE.

SYMBOL LIST

(ALL SYMBOLS NOT NECESSARILY USED ON THESE DRAWINGS)
ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION AS NOTED ON THE DRAWINGS. VERIFY EXACT LOCATIONS AND HEIGHTS OF OUTLETS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.

PANELBOARD, ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLON INDICATES PANEL DESIGNATION "DBL", SEE DRAWING E0.2 FOR PANEL SCHEDULE.

CONDUIT, INSTALLED CONCEALED IN WALL OR IN CEILING SPACE.

1/2" C - 2 #12
1/2" C - 3 #12
3/4" C - 4 #12
3/4" C - 5 #12
3/4" C - 6 #12
1" C - 7 #12
1" C - 8 #12
1 1/4" C - 9 #12

CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE. 3/4" CONDUIT MINIMUM.

EXISTING RACEWAY

HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH SEPARATE NEUTRALS.

DETAIL CALLOUT, "2" INDICATES DETAIL, "E1.0" INDICATES DRAWING WHERE DETAIL OCCURS.

DETAIL CALLOUT, "2" INDICATES DETAIL, "E1.0" INDICATES DRAWING WHERE DETAIL OCCURS.

ABBREVIATIONS LIST

+45"	MOUNTING HEIGHT TO CENTER LINE OF DEVICE FROM FINISH FLOOR OR EXTERIOR GRADE	IG	ISOLATED GROUND AND ISOLATED NEUTRAL
J-BOX	JUNCTION BOX	KVA	KILOVOLT AMPERES
KW	KILOWATT	LCL	LONG CONTINUOUS LOAD
A.F.F.	ABOVE FINISH FLOOR	LTG, LTS	LIGHTING
A.F.G.	ABOVE FINISH GRADE	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
AMP, A	AMPERE	NEC	NATIONAL ELECTRICAL CODE
A.I.C.	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)	NIC	NOT IN CONTRACT
CIRC. CKT.	CIRCUIT	PH or Φ	PHASE
CB	CIRCUIT BREAKER	PROVIDE	FURNISH, INSTALL AND CONNECT.
C	CONDUIT	REC. RECEIPT	RECEIPTACLE
CLCB	CURRENT LIMITING CIRCUIT BREAKER	RGS	RIGID GALVANIZED STEEL
C.O.	CONDUIT ONLY.	SECONDARY	600 VOLTS AND LESS
CONN	CONNECTED	TYP	TYPICAL
DIA	DIAMETER	UN.O.	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING	V	VOLTS
EF	EXHAUST FAN	VA	VOLT AMPERES
(E)	EXISTING EQUIPMENT TO REMAIN	WP	WEATHERPROOF
FLA	FULL LOAD AMPS	W	WIRE
GFI	GROUND FAULT CIRCUIT INTERRUPTER.	1P	SINGLE POLE
GFPI	GROUND FAULT PROTECTION	2P	DOUBLE POLE
GRD	GROUND	3P	TRIPLE POLE

DEMOLITION NOTES

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B. ALL EXISTING CONDUIT, THAT INTERFERES WITH ANY NEW CONSTRUCTION, SHALL BE CUT BACK AS REQUIRED TO CLEAR NEW CONSTRUCTION.

C. FOR EXISTING CONSTRUCTION THAT IS TO BE REMOVED REMOVE ALL EXISTING EXPOSED, SURFACE, AND CONCEALED CONDUIT AND RACEWAYS. RECONNECT OUTLETS AND LIGHTING FIXTURES THAT REMAIN AND WHICH ARE NOW FED THROUGH THE OUTLETS TO BE REMOVED.

D. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE SALVAGEABLE, SHALL REMAIN THE PROPERTY OF OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE.

E. DO NOT REUSE SALVAGED MATERIALS AND EQUIPMENT UNLESS SPECIFICALLY INDICATED ON PLANS OR SPECIFIED. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY ARCHITECT TO BE SCRAP.

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OR OTHER TRADES/DISCIPLINES FOR WORK THAT AFFECTS ELECTRICAL DEMOLITION WORK.

3. THE EXISTING CONDITIONS SHOWN ON THESE PLANS HAVE BEEN TAKEN FROM AVAILABLE RECORD DRAWINGS AND ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING A BID ALL DEMOLITION, ALTERATIONS, RELOCATIONS AND RENOVATION WORK SHALL BE INCLUDED IN THE CONTRACT. NO ADDITIONAL CHANGE ORDERS OR ALLOWANCES WILL BE ACCEPTED.

4. CONTRACTOR SHALL INCLUDE ALL WORK NECESSARY TO KEEP EXISTING ELECTRICAL SIGNAL AND FIRE ALARM SYSTEMS IN ALL AREAS ADJACENT TO DEMOLITION/RECONSTRUCTION AREAS IN SERVICE CONTINUOUSLY UNTIL WORK IN THAT AREA IS COMPLETE.

5. EQUIPMENT AND MATERIALS TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN THE ORIGINAL LOCATIONS. REPLACE EQUIPMENT OR MATERIALS THAT MAY BE DAMAGED WITH NEW EQUIPMENT AND MATERIALS OF LIKE KIND AND QUALITY.

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B. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 (CALIFORNIA ELECTRICAL CODE), 2025 EDITION.

C. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 6 (CALIFORNIA ENERGY CODE), 2025 EDITION.

D. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2025 EDITION.

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F. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").

G. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.

H. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.

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B. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE. FIELD VERIFY DIMENSIONS PRIOR TO BID.

C. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED, AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AN ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.

D. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

6. SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.

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10. ALL CONDUIT, STRUCTURES AND INSTALLATION FOR POWER AND TELEPHONE UTILITIES SHALL CONFORM WITH THE REQUIREMENTS (MINIMUM BEND RADIUS, CONCRETE ENCASMENT, CONDUIT, TYPE, ETC.) OF THE UTILITIES COMPANY. VERIFY ALL REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BID AND INCLUDE ALL COSTS IN BID.

11. CONTRACTOR SHALL OBTAIN SOUTHERN CALIFORNIA EDISON CO. (SCE CO.) CONSTRUCTION DRAWINGS PRIOR TO CONSTRUCTION AND SHALL INSTALL POWER CONDUIT AND STRUCTURES ACCORDING TO SCE CO. DRAWINGS. EXTRA PAYMENTS WILL NOT BE GRANTED FOR FAILURE TO DO SO.

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

13. REFER TO THE DRAWINGS AND SHOP DRAWINGS OF OTHER TRADES FOR ADDITIONAL DETAILS WHICH AFFECT THE PROPER INSTALLATION OF THIS WORK.

14. PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE FROM ANY CAUSE WHATSOEVER AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL THE WORK UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND REPLACE ALL DAMAGED OR DEFECTIVE WORK, MATERIALS AND EQUIPMENT BEFORE REQUESTING FINAL ACCEPTANCE.

15. THE DRAWINGS INDICATE IN A DIAGRAMMATIC MANNER THE DESIRED LOCATIONS OF ARRANGEMENT OF THE COMPONENTS OF ELECTRICAL WORK. DETERMINE EXACT CONDUIT ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS, AND UNDEFINED CONSTRUCTION DETAILS AS JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE, AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF CONDITIONS ENCOUNTERED.

16. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO DEVELOPED CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.

17. LOCATIONS OF DISCONNECT SWITCHES AND CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. VERIFY ACTUAL CONNECTION LOCATIONS WITH EQUIPMENT SHOP DRAWINGS AND LOCATE DISCONNECT SWITCHES TO PROVIDE CODE REQUIRED CLEARANCES AND ACCESS. DISCONNECT SWITCHES ON ROOF SHALL BE 3' MINIMUM ABOVE ROOF. MOUNTING OF DISCONNECTS DIRECTLY ON MECHANICAL EQUIPMENT IS NOT ACCEPTABLE. PROVIDE ANGLE IRON SUPPORT BRACKETS BOLTED TO ROOF FRAMING. FIELD GALVANIZE ALL FIELD CUT ENDS OF UP PORTS. PROVIDE ROOF FLASHING AS REQUIRED.

18. PROVIDE ALL EQUIPMENT WITH ENCLOSURES LISTED OR LABELED FOR USE AND LOCATION WHERE SUCH EQUIPMENT IS INSTALLED.

19. PROVIDE UL LISTED FIRE STOP FOR ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, AND CEILINGS TO MAINTAIN ALL FIRE RATINGS. THE FIRE STOP MATERIALS SHALL BE RE-ENTERABLE AND REUSABLE.

SYMBOL LIST

(ALL SYMBOLS NOT NECESSARILY USED ON THESE DRAWINGS)
ALL SYMBOL DESCRIPTIONS ARE SUBJECT TO MODIFICATION AS NOTED ON THE DRAWINGS. VERIFY EXACT LOCATIONS AND HEIGHTS OF OUTLETS WITH ARCHITECTURAL INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.

PANELBOARD, ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLON INDICATES PANEL DESIGNATION "DBL", SEE DRAWING E0.2 FOR PANEL SCHEDULE.

CONDUIT, INSTALLED CONCEALED IN WALL OR IN CEILING SPACE.

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CONDUIT, INSTALLED CONCEALED IN OR UNDER FLOOR OR BELOW GRADE. 3/4" CONDUIT MINIMUM.

EXISTING RACEWAY

HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH SEPARATE NEUTRALS.

DETAIL CALLOUT, "2" INDICATES DETAIL, "E1.0" INDICATES DRAWING WHERE DETAIL OCCURS.

DETAIL CALLOUT, "2" INDICATES DETAIL, "E1.0" INDICATES DRAWING WHERE DETAIL OCCURS.

ABBREVIATIONS LIST

+45"	MOUNTING HEIGHT TO CENTER LINE OF DEVICE FROM FINISH FLOOR OR EXTERIOR GRADE	IG	ISOLATED GROUND AND ISOLATED NEUTRAL
J-BOX	JUNCTION BOX	KVA	KILOVOLT AMPERES
KW	KILOWATT	LCL	LONG CONTINUOUS LOAD
A.F.F.	ABOVE FINISH FLOOR	LTG, LTS	LIGHTING
A.F.G.	ABOVE FINISH GRADE	MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
AMP, A	AMPERE	NEC	NATIONAL ELECTRICAL CODE
A.I.C.	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)	NIC	NOT IN CONTRACT
CIRC. CKT.	CIRCUIT	PH or Φ	PHASE
CB	CIRCUIT BREAKER	PROVIDE	FURNISH, INSTALL AND CONNECT.
C	CONDUIT	REC. RECEIPT	RECEIPTACLE
CLCB	CURRENT LIMITING CIRCUIT BREAKER	RGS	RIGID GALVANIZED STEEL
C.O.	CONDUIT ONLY.	SECONDARY	600 VOLTS AND LESS
CONN	CONNECTED	TYP	TYPICAL
DIA	DIAMETER	UN.O.	UNLESS NOTED OTHERWISE
EMT	ELECTRICAL METALLIC TUBING	V	VOLTS
EF	EXHAUST FAN	VA	VOLT AMPERES
(E)	EXISTING EQUIPMENT TO REMAIN	WP	WEATHERPROOF
FLA	FULL LOAD AMPS	W	WIRE
GFI	GROUND FAULT CIRCUIT INTERRUPTER.	1P	SINGLE POLE
GFPI	GROUND FAULT PROTECTION	2P	DOUBLE POLE
GRD	GROUND	3P	TRIPLE POLE

DEMOLITION NOTES

1. REFER TO LANDSCAPE AND CIVIL DEMOLITION DRAWINGS FOR MOUNTAIN AREAS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF ALL EXISTING ELECTRICAL REQUIRED TO CLEAR NEW CONSTRUCTION. THIS WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

A. ALL EXISTING WIRE SHALL BE REMOVED FROM CONDUIT.

B. ALL EXISTING CONDUIT, THAT INTERFERES WITH ANY NEW CONSTRUCTION, SHALL BE CUT BACK AS REQUIRED TO CLEAR NEW CONSTRUCTION.

C. FOR EXISTING CONSTRUCTION THAT IS TO BE REMOVED REMOVE ALL EXISTING EXPOSED, SURFACE, AND CONCEALED CONDUIT AND RACEWAYS. RECONNECT OUTLETS AND LIGHTING FIXTURES THAT REMAIN AND WHICH ARE NOW FED THROUGH THE OUTLETS TO BE REMOVED.

D. ALL REMOVED MATERIALS AND EQUIPMENT WHICH IN THE OPINION OF THE OWNER'S REPRESENTATIVE ARE SALVAGEABLE, SHALL REMAIN THE PROPERTY OF OWNER. DELIVER SUCH SALVAGED MATERIALS AND EQUIPMENT ON PREMISES AS DIRECTED, AND NEATLY PILE OR STORE THEM AND PROTECT FROM DAMAGE.

E. DO NOT REUSE SALVAGED MATERIALS AND EQUIPMENT UNLESS SPECIFICALLY INDICATED ON PLANS OR SPECIFIED. REMOVE FROM PREMISES AND DISPOSE OF ALL MATERIALS CONSIDERED BY ARCHITECT TO BE SCRAP.

2. ELECTRICAL DEMOLITION DRAWINGS DO NOT SHOW ALL ELECTRICAL WORK THAT IS TO BE REMOVED. REFER TO ALL DEMOLITION DRAWINGS

OR OTHER TRADES/DISCIPLINES FOR WORK THAT AFFECTS ELECTRICAL DEMOLITION WORK.

3. THE EXISTING CONDITIONS SHOWN ON THESE PLANS HAVE BEEN TAKEN FROM AVAILABLE RECORD DRAWINGS AND ARE SHOWN FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT THE SITE PRIOR TO SUBMITTING A BID ALL DEMOLITION, ALTERATIONS, RELOCATIONS AND RENOVATION WORK SHALL BE INCLUDED IN THE CONTRACT. NO ADDITIONAL CHANGE ORDERS OR ALLOWANCES WILL BE ACCEPTED.

4. CONTRACTOR SHALL INCLUDE ALL WORK NECESSARY TO KEEP EXISTING ELECTRICAL SIGNAL AND FIRE ALARM SYSTEMS IN ALL AREAS ADJACENT TO DEMOLITION/RECONSTRUCTION AREAS IN SERVICE CONTINUOUSLY UNTIL WORK IN THAT AREA IS COMPLETE.

5. EQUIPMENT AND MATERIALS TEMPORARILY REMOVED FOR PROTECTION SHALL BE REPLACED IN THE ORIGINAL LOCATIONS. REPLACE EQUIPMENT OR MATERIALS THAT MAY BE DAMAGED WITH NEW EQUIPMENT AND MATERIALS OF LIKE KIND AND QUALITY.

6. DISPOSAL OF HAZARDOUS MATERIALS SUCH AS LAMPS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL STATE AND FEDERAL REQUIREMENTS.

GENERAL NOTES

1. THESE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE INSTALLATION OF SYSTEMS. THE OMISSION OR EXPRESSED REFERENCE TO ANY ITEM OF LABOR OR MATERIALS REQUIRED FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH PRESENT PRACTICE OF THE TRADE SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH ADDITIONAL LABOR AND MATERIALS.

2. THESE PLANS, SPECIFICATIONS, AND ALL MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL LEGAL AND INDUSTRY REQUIREMENTS, AND STANDARDS INCLUDING WITHOUT LIMITATION TO THE FOLLOWING:

A. CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 (CALIFORNIA BUILDING CODE), 2025 EDITION.

B. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 (CALIFORNIA ELECTRICAL CODE), 2025 EDITION.

C. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 6 (CALIFORNIA ENERGY CODE), 2025 EDITION.

D. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2025 EDITION.

E. OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

F. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL CODE (THE "RIGHT TO REPAIR ACT").

G. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.

H. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.

3. THE PLANS REPRESENT ONLY THE FINISHED ELECTRICAL SYSTEMS, AND THEY ARE NOT INTENDED TO INDICATE OR REQUIRE ANY CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES.

4. IN USING THE PLANS FOR BIDDING OR CONSTRUCTION PURPOSES, THE CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE ELECTRICAL WORK. EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM AN APPROPRIATE OWNER REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT.

5. IN INTERPRETING THE PLANS, THE FOLLOWING GENERAL RULES APPLY:

A. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.

B. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE. FIELD VERIFY DIMENSIONS PRIOR TO BID.

C. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS ARE TO BE EXPECTED AND ANTICIPATED, AND THE CONTRACTOR IS REQUIRED TO CAREFULLY REVIEW THE PLANS FOR ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AN ASSUMES THE RISK OF THE CONSEQUENCES OF FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.

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EXISTING RACEWAY

HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH SEPARATE NEUTRALS.

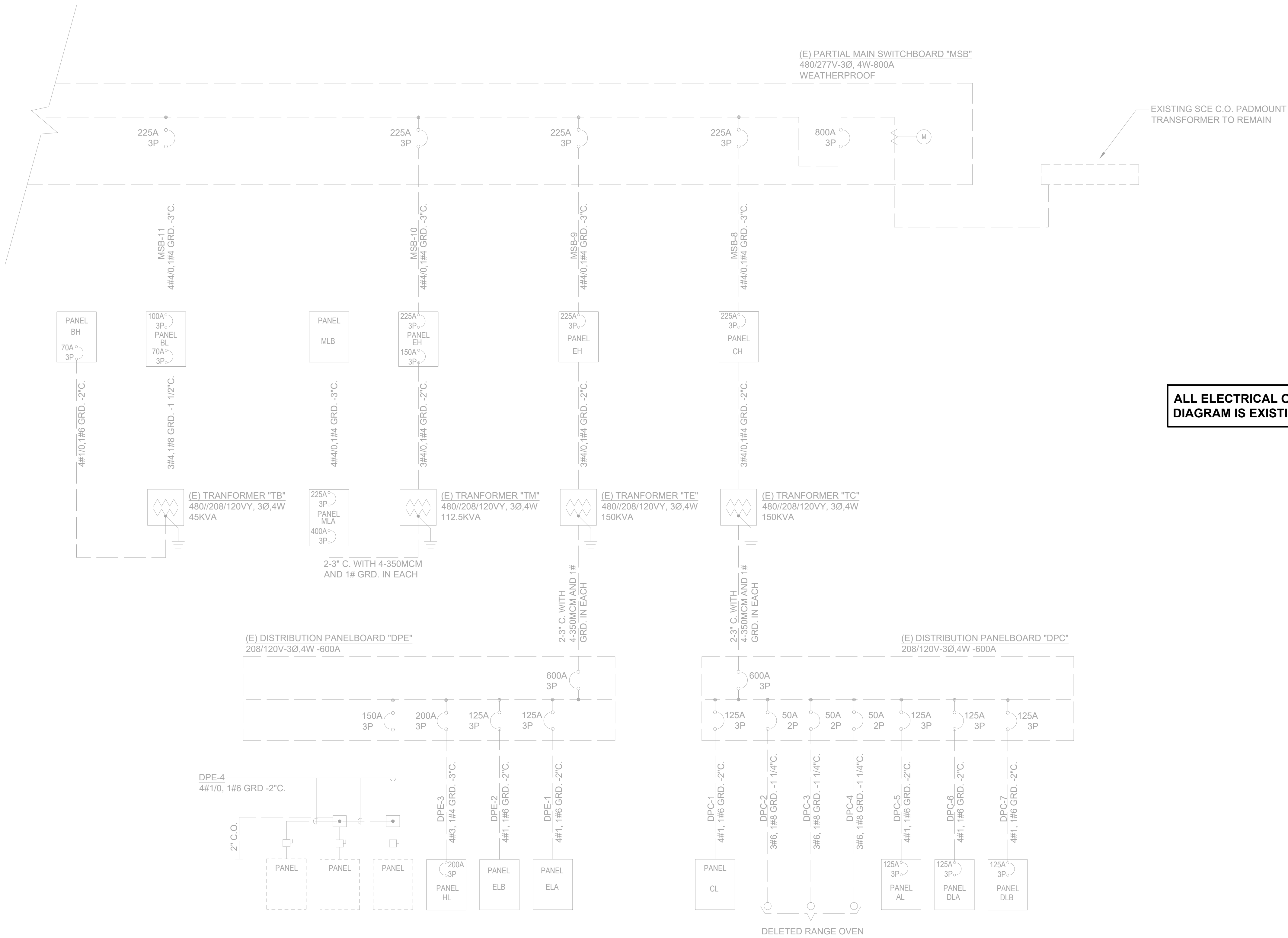
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ABBREVIATIONS LIST

+45"	MOUNTING HEIGHT TO CENTER LINE OF DEVICE FROM FINISH FLOOR OR EXTERIOR GRADE	IG
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SINGLE LINE DIAGRAM

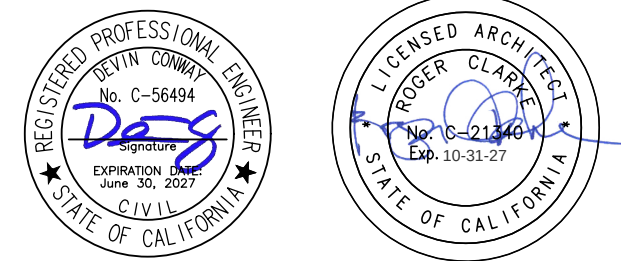
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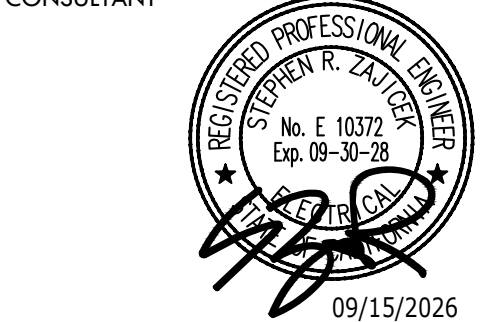
Panel: (E) DLB												Project: 1175.032											
Location: BUILDING D ELECTRICAL ROOM												A.I.C Rating:											
Supply From: MSB												Main: 125A											
Mounting: SURFACE												Bus: 225A											
Voltage: 120/208												Phases: 3											
Wires: 4																							
Note	Description	Type	Qty	Breaker	A	B	C	CKT #	A	B	C	Breaker	Qty	Type	Description	Note							
1	RECEPT. CLASS 12	R	5	20/1	900			1	2	900		20/1	5	R	RECEPT. CLASS 8	1							
1	RECEPT. CLASS 12	R	5	20/1		900		3	4		900	20/1	5	R	RECEPT. CLASS 8	1							
1	RECEPT. CLASS 12	R	4	20/1			720	5	6		720	20/1	4	R	RECEPT. CLASS 8	1							
1	RECEPT. CLASS 10	R	5	20/1	900			7	8	372		20/1	6	L	FIELD LIGHTING	2							
1	RECEPT. CLASS 10	R	5	20/1		900		9	10		372	20/1		L	SPARE	2							
1	RECEPT. CLASS 10	R	4	20/1			720	11	12			20/1			SPARE								
	SPARE			20/1				13	14			20/1			SPARE								
	SPARE			20/1				15	16			20/1			SPARE								
	SPARE			20/1				17	18			20/1			SPARE								
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	PROVISION							21	22						PROVISION								
	PROVISION							23	24						PROVISION								
	PROVISION							25	26						PROVISION								
	PROVISION							27	28						PROVISION								
	PROVISION							29	30						PROVISION								
	PROVISION							31	32						PROVISION								
NOTE:																							
1. INDICATES EXISTING CIRCUIT TO REMAIN. PROTECT IN PLACE																							
2. INDICATES NEW LOAD ON EXISTING CIRCUIT BREAKER. PROVIDE HANDLE TIE																							
FOR CIRCUITS 8 & 10.																							



STAMP



CONSULTANT



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Consulting Electrical Engineers
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fbaengr.com FBA Job Number: 1175.032

SHEET TITLE

SINGLE LINE
DIAGRAM AND
PANEL SCHEDULE

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST,
HAWTHORNE, CA 90250

SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
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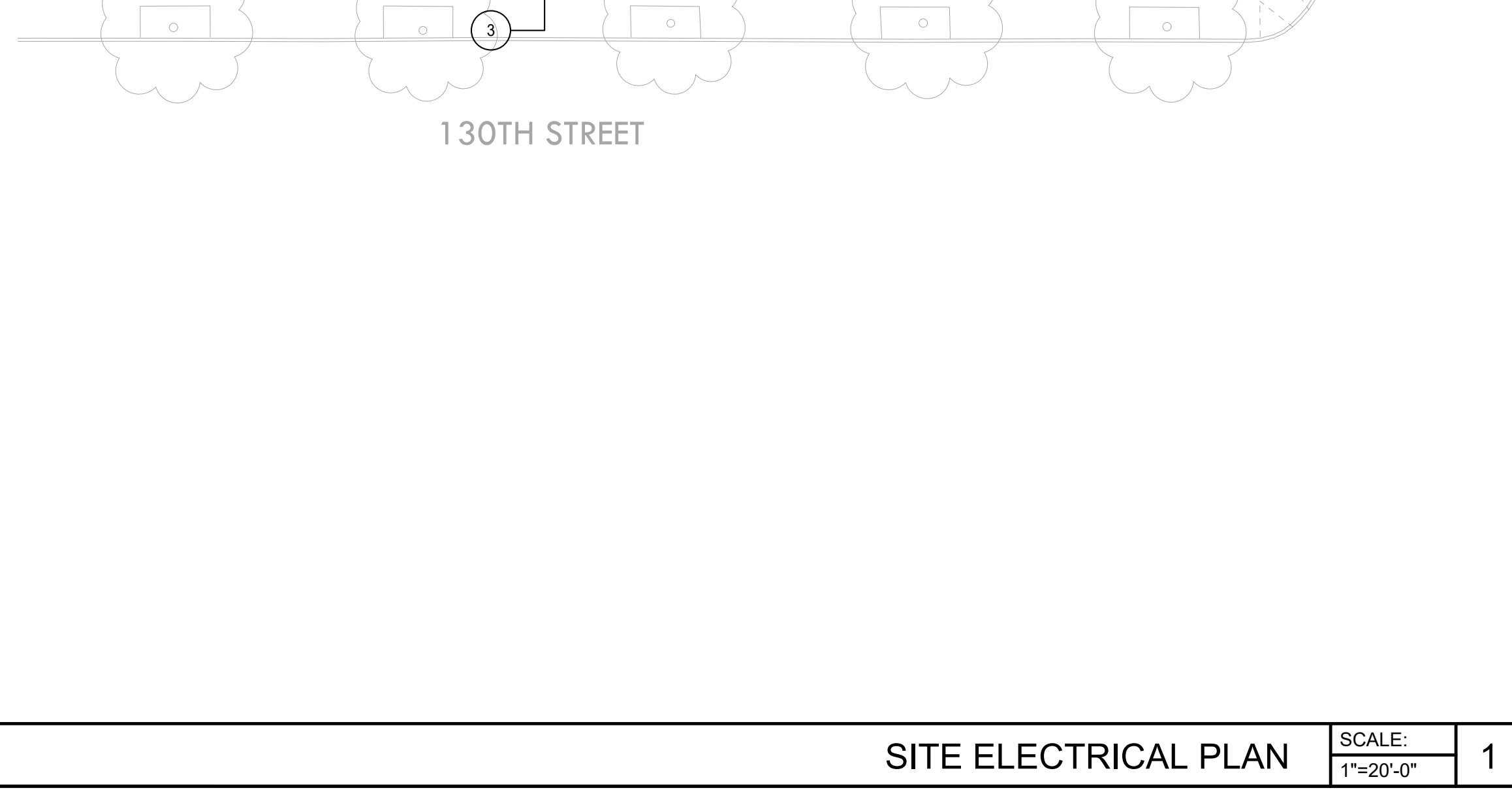
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DATE ISSUED	SCALE
03/10/2026	

PROJ. NO.

2223000

SHEET NO.

E0.2



1

EXISTING FLOODLIGHT TO REMAIN. PROTECT IN PLACE.

2

EXISTING PANELBOARD IN BLDG D TO REMAIN.

3

3/4" C. 4#8 & 1#8 GRD.

4

11" X 17" CONCRETE PULLBOX. ROUTE ALL CONDUITS AND WIRING AS SHOWN FROM PULLBOX TO LIGHT POLE AND CONNECT AS REQUIRED. REFER TO DETAIL 2/E1.0.

5

3/4"C - 2#8 & 1#8 GRD.

6

11" X 17" CONCRETE PULL BOX. REFER TO DETAIL 2/E1.0.

7

15" X 18" CBIT1815 COMBOX WITH INTERNAL OUTLET BOX. REFER TO DETAIL 3/E1.0.

VERDE DESIGN

LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

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EXP. 09-30-26

STATE OF CALIFORNIA

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FBA Job Number: 1175.032

SHEET TITLE

SITE PLAN GENERAL NOTES

SITE ELECTRICAL PLAN

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

PROJECT ADDRESS

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ELECTRICAL SPECIFICATIONS:

PART 1.00 GENERAL

1.01 RELATED DOCUMENTS

- A. The Requirements of the General Conditions, Supplementary General Conditions and pertinent provisions of Sections in Division One of these Specifications apply to the work specified in this Section.

1.02 SCOPE

- A. Work Included: All labor, materials, appliance, tools, equipment, facilities, transportation, and service necessary for, and incidental to, performing all operations in connection with furnishing, delivery, and installation of the work of this Section, complete, as shown on the Drawings and/or specified herein.

1.03 GENERAL SUMMARY OF ELECTRICAL WORK

- A. The Specifications and Drawings are intended to cover a complete installation of systems. The omission of expressed reference to any item of labor or materials for the proper execution of the work in accordance with present practice of trade shall not relieve the Contractor from providing such additional labor and materials.
- B. Refer to the Drawings and Shop Drawings of other trades for additional details which affect the proper installation of this work.
- C. The Electrical Drawings are diagrammatic in many respects. It is not within the scope of these Drawings to show all necessary bends, offsets, or pullboxes required. Sizes and locations of equipment and wiring may be distorted for clarity on the Drawings. Exact locations of all lighting fixtures, outlets, exit signs, wiring devices, and the like, shall be shown on Architectural Drawings, as dimensioned on Plans, or as approved by Architect.
- D. Before submitting a bid, the Contractor shall familiarize himself with all features of the existing site, and all Building Drawings and Site Drawings which may affect the execution of the work. No extra payment will be allowed for failure to obtain this information.

1.04 LOCATIONS OF EQUIPMENT

- A. The Drawings indicate diagrammatically the desired locations of arrangements of conduit runs, outlets, equipment, etc., and are to be followed as closely as possible. Proper judgment must be exercised in executing the work so as to secure the best possible installation in the available space and to overcome local difficulties due to space limitations or interference of structural conditions encountered.
- B. The Drawings indicate approximate locations of existing conduits. The exact routing shall be verified in field and length of conduits shall be adjusted to the length required.
- C. Coordinate and cooperate in every way with other trades in order to avoid interference and assure a satisfactory job.

1.05 QUALITY ASSURANCE, STANDARDS AND SYMBOLS

- A. Work and materials in full accordance with the latest rules and regulations of the California Code of Regulations, Title 24, Title "9 Division of Industrial Safety", California Electrical Code, the National Life Safety Code, pertinent N.F.P.A. Publications and other Federal State or other City Agencies Having Jurisdiction.
- B. Keep a copy of all applicable Codes available at the job site at all times while performing work under this Section. Nothing in Plans or Specifications shall be construed to permit work not conforming to the most stringent of Codes.
- C. Should any changes be necessary in the Drawings or Specifications to make the work comply with these Requirements, the Contractor shall notify the Architect at once in writing and cease work in parts of the Contract which are affected.

1.06 SUBMITTALS

- A. Material Lists and Shop Drawings
1. Submit copies of materials list and Shop Drawings for approval. The materials list of installation materials shall indicate proposed Equipment Manufacturers. Submittals shall be organized in completed bound groups for materials (i.e., all lighting fixtures or all switchgear, etc.). Departure from the above procedure will result in rework and delays. The Contractor shall verify dimensions of equipment and be satisfied as to fit and that they comply with all Code Requirements relating to clear working space about electrical equipment prior to submitting Shop Drawings for approval. Where current limiting fuse devices are specified, submit technical data to indicate fuses adequately protect equipment and that the fuses are selective to the circuit breakers that it protects.
2. Submit Shop Drawings for all electrical items except installation materials such as conduit, conduit fittings, outlet boxes, 600-volt conductors, wiring devices, etc.
3. Submittals which are intended to be reviewed as a substitution or departure from the Contract Documents must be specifically noted as such or the Requirements of the Contract Documents will prevail, regardless of the acceptance of the submittal.
4. Shop Drawings shall include Dimensioned Plans, elevations, details, wiring diagrams and descriptive literature of component parts where applicable.
5. Shop Drawings shall include the Manufacturer's projected days for shipment from the factory of completed equipment, after the equipment is released for production by the Contractor. It shall be the responsibility of the Contractor to ensure that all material and equipment is ordered in time to provide an orderly progression of the work. The Contractor shall notify the Architect of any changes in delivery which would affect the Project completion date.
- B. Maintenance and Operation Manuals
1. Contractor shall furnish three copies of typewritten maintenance and operating manuals for all electrical equipment to the Owner and instruct Owner's Personnel in correct operation of all equipment at completion of project.
2. Maintenance and operating manuals shall be bound in three-ring, hard-cover, plastic binders and shall be delivered to the Owner with letter of transmittal, carbon copy to the Architect.
- C. Portable or Detachable Parts: The Contractor shall retain in his possession and be responsible for all portable and detachable parts or portions of the installation such as fuses, keys, locks adapters, locking clips, and inserts until final completion of his work. These parts shall then be delivered to the Owner, or his authorized Representative and an itemized receipt obtained, with copies of receipt sent to the Architect.
- 1.07 RECORD DRAWINGS
- A. Provide and maintain in good order a complete set of Electrical Contract prints. Changes to the Contract to be clearly recorded on this set of prints. At the end of the project, the Contractor shall transfer all changes to one set reproducible Drawing to be delivered unfolded to the Architect.
- B. The Contractor shall keep the "As-Built" Prints up to date current with all work performed.

1.08 CLEANING EQUIPMENT, MATERIALS, PREMISES

- A. All parts of the equipment shall be thoroughly cleaned of dirt, rust, cement, plaster, etc., and all cracks and corners scraped out clean. Surfaces to be painted shall be carefully cleaned of grease and oil spots and left smooth, clean and in proper condition to receive paint finish.

1.09 JOB CONDITIONS - PROTECTION

- A. Protect all work, materials and equipment from damage from any cause whatever and provide adequate and proper storage facilities during the progress of the work. Provide for the safety and good condition of all the work until final acceptance of the work by the Owner and replace all damaged or defective work, materials and equipment before requesting final acceptance.

1.10 CUTTING AND PATCHING

- A. Perform cutting and patching on the construction work which may be required for the proper installation of the electrical work. Patching shall be of the same material, workmanship and finish as specified and accurately match surrounding work to satisfaction of the Architect.

1.11 IDENTIFICATION

- A. Panelboards, terminal cabinets, circuit breakers, disconnect switches, starters, relays, time switches, contactors, pushbutton control stations, and other apparatus used for operation of controls of feeders, circuits, appliances, or equipment shall be properly identified by means of descriptive nameplates or tags permanently attached to the apparatus and wiring.
- B. Nameplates shall be engraved laminated phenolic. Shop Drawings with dimensions and format shall be submitted to the Architect before installation. Attachment to equipment shall be with escutcheon pins, rivets, self-tapping screws or machine screws. Self-adhering or adhesive backed nameplates shall not be used.
- C. Provide black-on-white laminated plastic nameplate for normal power and white-on-red nameplate for emergency power, engraved in minimum 1/4-inch-high letters sized as required, to identify each piece of electrical distribution and control equipment and associated sections, compartments, and components.

1. Panelboards:

- a. Equipment designations as shown on drawings.
- b. Identify ampere rating.
- c. Identify voltage and phase.
- d. Identify power source and circuit number. Include location when not within sight of equipment.
- e. Identify main overcurrent protective device. Use identification label for panelboards with a door. For power distribution panelboards without a door, use identification nameplate.
- f. Use typewritten circuit directory to identify load(s) served for panel-boards with a door.
- g. For power panelboards without a door, use identification nameplate to identify load(s) served for each branch device.

2. Transformers:

- a. Equipment designations as shown on drawings.
- b. Identify kVA rating.
- c. Identify voltage and phase for primary and secondary.

3. Enclosed switches, circuit breakers, and motor controllers:

- a. Equipment designations as shown on drawings.
- b. Identify voltage and phase.
- c. Identify power source and circuit number. Include location when not within sight of equipment.

4. Time Switches:

- a. Equipment designations as shown on drawings.
- b. Identify load(s) served and associated circuits controlled. Include location.

5. Enclosed Contactors:

- a. Equipment designations as shown on drawings.
- b. Identify ampere rating.
- c. Identify voltage and phase.
- d. Identify configuration, e.g., E.O.E.H. (electrically operated, electrically held) or E.O.M.H. (electrically operated, mechanically held).
6. Service Equipment:
- a. Use identification nameplate to identify each service disconnecting means.
- b. For buildings or structures supplied by more than one service, or any combination of branch circuits, feeders, and services, use identification nameplate or means of identification acceptable to authority having jurisdiction at each service disconnecting means to identify all other services, feeders, and branch circuits supplying that building or structure. Verify format and descriptions with authority having jurisdiction.

- D. Cardholders and cards shall be provided for circuit identification in panelboards. Cardholders shall consist of a metal frame retaining a clear plastic cover permanently attached to the inside of panel door. List of circuits shall be typewritten on card. Circuit description shall include name or number of circuits, area, and connected load.

1.12 ELECTRICAL WORK CLOSEOUT

- A. Prepare the following items and submit to the Architect before final acceptance.

1. Two copies of all test results as required under this Section.
2. Two copies of Local and/or State Code Enforcing Authorities final inspection certificates.
3. Copies of As-Built Record Drawings as required under the General Conditions, pertinent Division One Section and Electrical General Provisions.
4. Two copies of all receipts transferring portable or detachable parts to the Owner when requested.
5. Notify the Architect in writing when installation is complete and that a final inspection of this work can be performed. In the event defects or deficiencies are found during this final inspection, they shall be corrected to the satisfaction of the Architect before final acceptance can be issued.
6. Three copies of operating and maintenance instruction books covering all electrical equipment and systems.

1.13 EQUIPMENT SEISMIC REQUIREMENTS

- A. Equipment supports and anchorages provided as part of the contract shall be designed, constructed and installed in accordance with the earthquake regulations of the California Building Code, Title 24, Section 1632A, and the Uniform Building Code (UBC).

PART 2 - PRODUCTS

2.01 CONDUIT

- A. Rigid metal conduit: Steel, hot-dip galvanized, sherardized or zinc coated.
- B. Intermediate Steel Conduit (IMC): Steel, hot-dip galvanized, sherardized or zinc coated. Couplings and connectors shall be threaded and rated "liquid tight".
- C. Electrical metallic tubing: Steel, galvanized or sherardized. Couplings and connectors, seamless steel construction and of the set screw or watertight compression type equal to Thomas & Betts Co. #5123 or #5031 Series, complete with insulated throats.
- D. Flexible Conduit: Steel, galvanized. Connector shall be equal to Thomas & Betts Co. #3312 and/or #3332 Series, complete with insulated throat.
- E. Liquid-tight flexible conduit: Sealite Type U.A. with Appleton Series "ST" connectors.
- F. Rigid Non-Metallic Conduit (RNMIC):

1. Polyvinyl Chloride (PVC)-RNMIC
- a. PVC-Schedule 40 heavy wall construction.
- b. PVC-Schedule 80 extra heavy wall construction.
- c. PVC-Type EB.
2. RNMIC fittings connecting to metallic raceways shall be provided with a ground/bond jumper connection.
- G. Conduit Bodies: Provide types and sizes as required for the location and application. Covers shall be gasketed and secured with corrosion resistant screws.

2.02 WIRE AND CABLE

- A. Copper conductors: #12 AWG minimum unless specifically noted otherwise on the Drawings. Conductors #10 AWG and smaller shall be solid and #8 AWG and larger shall be stranded. Type of wire as noted on Drawings or as follows:
1. Type THWN/THHN insulation used for all conductors unless otherwise noted.
2. Type XHHW or THWN insulation shall be used where conductors are installed in conduit exposed to the weather.
3. The following color code for 120/208-volt branch circuits: Neutral - White (Tape feeder neutrals with white tape near connections); Ground - Green; Isolated Ground - Green with yellow stripe; Phase A - Black; Phase B - Red; Phase C - Blue.
4. The following color code for 277/480-volt branch circuits: Neutral - Grey - Tape feeder neutrals with Grey tape near connections); Ground - Green; Phase A - Brown; Phase B - Orange; Phase C - Yellow.
5. When individual neutral conductors are required for each branch circuit, the color code for the neutral conductors shall be as follows: Phase A - White with Black stripe; Phase B - White with Red Stripe; Phase C - White with Blue stripe. All common neutral conductors, when required, shall be White without any stripes.
6. Feeders identified as to phase or leg in each panelboard with printed identifying tape.

2.03 OUTLET BOXES

- A. Pull and Junction Boxes: Provide types and sizes as indicated or as required for the location, application and wire fill per CEC Requirements. For indoor dry locations coat with rust inhibitor and gray baked enamel finish. For wet locations provide hot-dipped galvanized material with gray baked enamel finish and gasketed covers.

2.04 RECEPTACLES

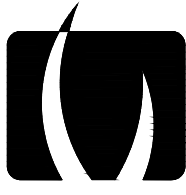
- A. All receptacles in flush type outlet boxes shall be installed with a bonding jumper for ground between the grounded outlet box and the receptacle ground terminal. Grounding through the receptacle mounting straps is not acceptable. The bonding jumper shall be sized in accordance with the branch circuit protective device as tabulated herein under "grounding". Bonding jumper shall be attached at each outlet to the back of the box using drilled and tapped holes and washer head screws 6-32 or larger. For receptacles in surface mounted outlet boxes direct metal-to-metal contact between receptacles mounting strap (if it is connected to the ground contacts) and outlet boxes may be used.
- B. Duplex convenience receptacles shall be Specification grade, color white, 120-volt, 15 amp, NEMA 5-15R grounding type with grounding contact which is internally connected to the frame. Outlet shall accommodate standard parallel blade cap and shall be back and side wired. Hubbell #CR5252 or equal by P&S or Leviton.
- C. Where duplex receptacle is supplied by separate 20-amp. circuit, receptacle shall be NEMA 5-20R. Hubbell #CR5352 or equal by P&S or Leviton.
- D. Ground fault type duplex receptacle shall be 15-amp outlet with 20-amp feed through, NEMA 5-15R. Hubbell #GFR5252 or equal by P&S or Leviton.
- E. Weatherproof Receptacle: Ground fault type duplex receptacle. On exposed conduit runs, weatherproof ground fault type receptacles as hereinbefore specified, installed in "TS" conduit. Covers shall be one of the following door type covers: Hubbell #WP26M or equal by P&S.
- F. Special outlets as indicated on Drawings.
- G. Color of receptacles shall be as selected by Architect.

2.05 LIGHTING FIXTURES

- A. Lighting fixtures shall have all parts and fittings necessary to complete and properly install the fixture. All fixtures shall be equipped with lamps of size and type specified.
- B. The catalog number on the Lighting Fixture Schedules are for indicating the general type, quality and size of the fixture. The use of the catalog numbers do not include all the necessary accessories that may be required for a complete and operable installation.
- C. The lighting fixtures as specified on the Fixture Schedule are called out by Fixture Type letter or number and correspond with the Fixture Types indicated at the outlets shown on the Drawings.

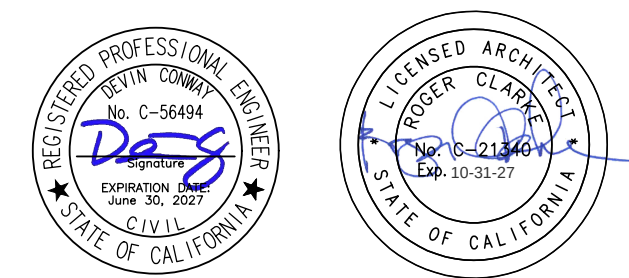
2.06 LIGHTING STANDARDS (SUPPORT POLES, POLE MOUNTED LIGHTING FIXTURES AND LUMINAIRES)

- A. General
1. Lighting poles, pole bases, pole arms, lighting fixtures (luminaires), supports with all lighting pole attachments and anchors shall be designed and constructed to withstand not less than 100 mile per hour steady horizontal wind loading and 130 mile per hour horizontal wind gust loading, without any damage to the lighting standards.
2. Provide tamper-resistant "hand-hole" and cover on the pole, for access into wiring terminations inside the pole. Provide ground "lug" attachment for equipment bond conductor.
3. Provide factory applied weather protective base undercoat and final finish on all exposed and internal components. Color as indicated or as selected by Owner's Representative.



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Boeing.com FBA Job Number: 1175.032

SHEET TITLE

ELECTRICAL
SPECIFICATIONS

PROJECT NAME

HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

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B. Base

1. Provide a base plate at the bottom of each pole to attach and secure the pole to the pole anchor bolts. The base plate shall be permanently attached to the bottom of the pole.

C. Anchors

1. Anchor bolts shall be threaded the entire bolt length, not less than four bolts for each pole equally spaced around the pole base. Provide a minimum of two threaded nuts for each anchor bolt. Install a nut on the top and bottom sides of each base plate anchor bolt location. No less than four threads shall be exposed after pole is installed and leveled.

2.07 STRUCTURAL AND MISCELLANEOUS STEEL

- A. Structural and miscellaneous steel used in connection with electrical work and located out-of-doors or in damp locations, to be hot-dip galvanized unless otherwise specified. Included are underground pullbox covers and similar electrical items. Galvanizing average 2.0 ounce per square foot and conform to ASTM A123.

2.08 CIRCUIT BREAKER

- A. Where two or three pole breakers occur in the panels, they shall be common trip units. Single pole breakers with tie-bar between handles will not be accepted.
- B. Circuit Breakers shall be arranged in the panels so that the breakers on the proper trip settings and numbers correspond to the numbering in the panel schedules on the Drawings. Circuit numbers of breakers shall be black-on-white mica tabs or other previously approved method. Circuit number tabs which can readily be changed from front of panel will not be accepted. Circuit number tabs which can shall not be attached to or be a part of the breaker.
- C. Circuit Breakers shall be bolt on type.

2.09 DISCONNECTS

- A. Disconnect switches shall be 250 volt or 600-volt A.C., NEMA Type HD, quick-break, h.p. rated, fusible or non-fusible Class "FR" in NEMA Type 1 enclosure, lockable, with number of poles and amperage as indicated on the Drawings. Where enclosure is indicated W.P. (weatherproof) switches shall be in rain-tight NEMA Type 3R enclosure, lockable. Maximum voltage, current and horsepower rating clearly marked on the switch enclosure and switches having dual element fuses shall have rating indicated on the metal plate. Manufactured by GE, Square-D or approved equal.

2.10 PANELBOARDS

- A. Panelboards shall be as indicated with circuit breakers as shown on panel schedule, hinged lockable doors, index card holders and proper bussing.
- B. Where indicated on the Drawings, panelboards shall be furnished with sub-feed breakers and/or lugs, split bussing, contactors, time switches, relays, etc., as required.
- C. All panelboards shall be keyed alike.
- D. Furnish all panelboards and terminal cabinets with Manufacturer locks and keys.
- E. Panelboard 208/120 volt, three phase, 4 wire, S/N or 120/240-volt, single phase, 3 wire, S/N.

Panelboard types as manufactured by:

1. Cutler-Hammer.....Type Pow-R-Line 1
2. General Electric.....Type AQ
3. Square D.....Type NQD
4. Siemens.....Type S series
- F. Panelboards shown on the drawings with relays, time clocks or other control devices shall have a separate metal barriered compartment mounted above panel with separate hinged locking door to match panelboard. Provide mounting subbase in cabinet for control devices and wiring terminal strips.
- G. Panelboard shall have a circuit index card holder removable type, with clear plastic cover. Index card shall have numbers imprinted to match circuit breaker numbers.
- H. Bussing shall be rectangular cross section copper, or silver or tin-plated aluminum. Bussing shall be full length of the enclosure.

PART 3 - EXECUTION

3.01 GROUNDING

- A. Grounding shall be executed in accordance with all applicable Codes and Regulations and local authorities having jurisdiction.
- B. Provide ground conductor in all branch circuit conduits serving receptacle loads.
- C. Ground conductors for branch circuit wiring shall be attached at each outlet to the back of the box using drilled and tapped holes and washer head screws, 6-32 or larger.
- D. Each panelboard, switchboard, pullbox or any other enclosure in which several ground wires are terminated shall be equipped with a ground bus secured to the interior of the enclosure. The bus shall have a separate lug for each ground conductor. No more than one conductor shall be installed per lug.

3.02 CONDUIT

- A. The sizes of the conduits for the various circuits as indicated on the Drawings and as required by Code for the size and number of conductors to be pulled therein. Open ends capped with approved manufactured conduit seals as soon as installed and kept capped until ready to pull in conductors. Where running thread unions are necessary, only approved manufactured conduit unions used. No bends or offsets will be permitted unless absolutely necessary. Conduits to be concealed except as noted otherwise.
- B. Rigid steel conduit or intermediate metal conduit shall be used where placed underground in concrete, in brick or masonry walls or exposed on roofs. Rigid steel conduit shall not be installed in direct contact with the earth or sand. Conduits installed in a wet, or exposed location in concrete have threads filled with red lead. For short runs of conduits installed in the ground and with Architect's approval, conduits may be "half" lapped with polyvinyl chloride tape equal to Scotch Wrap. Joints to be "double" wrapped. Tape shall be 10 mil. thick.
- C. RNMC Installation Locations
- RNMC conduit and RNMC fittings shall be installed in the following locations containing only "non-hazardous material":
1. Underground, concealed below earth grade, unless specifically noted or specified otherwise.
2. Exposed on utility service poles, for pole risers at 9-feet or higher above finish grade, Schedule 80 PVC only.
3. RNMC type "EB" conduit(s) shall be concrete encased along the entire length of the conduits for all installation locations.

- D. Conduit placed against concrete above ground fastened to the concrete with pipe straps or one-screw conduit clamps attached to the concrete by means of expansion screw anchors and screws.

- E. Conduits which are installed at this time and left empty for future shall have polyvinyl rope left in place for future use.

F. Conduit Separation:

1. Conduit installed underground or below building slab without full concrete encasement: Shall be separated from adjacent conduits of identical systems (i.e., signal to signal, data to data, power to power, control to control etc.) by a minimum of 3-inches. Conduits of non-identical systems (i.e., signal to power; data to power; power to control; signal to control, etc.) shall be separated by a minimum of 12-inches.
2. Conduit installed underground with full concrete encasement: shall be separated from adjacent conduits of similar systems (100 volt and less) by a minimum of 2-inches; conduits for non-power systems (100 volts and less to ground) shall be separated by a minimum of 6-inches from power circuits (over 100 volts to ground); conduits for power circuits shall be separated from adjacent conduits of similar power systems (over 100 volts to ground) by a minimum of 3-inches.
3. Separation of conduits entering termination points or crossing other conduits may be reduced as required within 60-inches of the termination or crossing points.
4. Conduits containing Utility Company service circuits (i.e., electrical power, telephone, or cable television) shall be separated a minimum of 12-inches from all other utilities and conduits, with or without concrete encasement, metallic or non-metallic conduit, above grade or underground conduit locations.
- G. Conduit Underground Locations:

1. Conduits which are run underground exterior to building slab shall be continuously concrete encased, except 15 thru 50 ampere power branch circuit conduits underground do not require concrete encasement.
2. Concrete for encasement of underground conduits shall be 2000-PSI 28-days cure strength with a mix of cement, sand, water and maximum of 3/4-inch gravel. Concrete encasement of conduits shall be continuous without voids. The encasement shall extend 3-inches past the edges of all conduits on all sides of the circuit.
3. Conduits located below or adjacent to structural foundations shall be separated from the foundation by a minimum of 12-inches. Conduits located below structural foundations shall be fully and continuously concrete backfilled and encased between the bottom of the foundation to the bottom of the conduits. The concrete shall be 4000-PSI 28-day cure strength instead of 2000-PSI concrete.
4. Conduits of any size and type (including 15-ampere thru 50 ampere power branch circuits) located under roads, and "Transit-System" right of way shall be concrete encased.
5. Three or more underground conduits occupying the same trench shall be separated and supported on factory fabricated, non-metallic, duct/conduit support spacers. The spacers shall be modular, keyed interlocking type, "Built-Up" to accommodate quantity, size orientation and spacing of installed conduits. The spacers shall maintain a constant distance between adjacent conduit supports and hold conduits in place during trench backfill operations. Minimum support spacer installation interval along with length of the conduits shall be as follows:
- a. Concrete encased conduits, not less than 8-feet on center.
- b. Non-concrete encased conduits, not less than 5-feet on center.
6. Provide trenching, excavation, shoring and Back-filling required for the proper installation of underground conduits. Taps of backfill shall match finish grade.
7. Bottoms of trenches shall be cut parallel to "Finish Grade" elevation. Make trenches 12-inches wider than the greatest diameter of the conduit.
8. Back-filling Trenches for Conduits without Concrete Encasement Requirements.

- a. Conduits which are not required by the Contract Documents to be concrete encased and are located exterior to building slab, shall be set on a 3-inch bed of damp clean sand. Conduit trenches shall be backfilled to within 12-inches of finished grade with damp sand after installation of conduit is completed. Remainder of backfill shall be native soil.
- b. Conduits located under a building which are not required by the Contract Documents to be concrete encased, shall be completely backfilled and compacted with clean damp sand to the same level as the building foundation pad.
- c. Provide a continuous yellow 12-inches wide flat plastic tracer tape, located 12-inches above the conduits in the trench. The tracer tape shall be imprinted with "Warning-Electric Circuits" a minimum of 24-inches on center.

9. Backfilling trenches for conduits under paved areas:

- a. In addition to the Requirements of conduit concrete encasement, conduits under walkways, roads, parking lots, driveways, and buildings shall be cast in place concrete "Slurry Mix" backfill. The slurry mix shall cover each side and top of conduits and conduit concrete encasement. The slurry mix shall be continuous to the underside of the finish subgrade surface.

10. Backfilling trenches for conduits with Concrete Encasement Requirements by the Contract Documents:

- a. Trenches with all conduits concrete encased shall be backfilled with clean damp sand when located under building pads.
- b. Trenches with all conduits concrete completely (sides, top, and bottom) encased and not located under a building pad and not located under paved areas, shall be backfilled with clean damp sand or native soil.
- c. Concrete mix, consisting of cast-in-place concrete, sand, and gravel. 2000psi compressive 28-day cure strength. Red-dye concrete coloring. See Additional Requirements.

11. Backfill material:

- a. Sand backfill shall be clean with no clay or organic materials, free of State of California and EPA defined toxic constituents, total chloride content less than 500 ppm, total sulfate content less than 150 ppm, sand pH greater than 4.5 and less than 9.0. Sand and native soil backfill of trenches shall be machine vibrated in 6-inch lifts to provide not less than 90% compaction of backfill.
- b. Native soil backfill shall have no gravel or stones, and no organic matter of aggregate greater than 1-inch.
- c. Concrete mix and slurry mix backfill shall be machine vibrated during installation to remove "Air-Voids".
- d. The slurry mix shall consist of concrete, clean gravel, clean sand and clean water mixture, 1000psi compressive 28-day cure strength. Maximum shrinking of slurry mix shall not exceed 5% wet to dry.

12. Installation depth below finish grade of underground conduits and underground raceways. In no condition/location less than 12-inches below winter underground frost-line. Underground depth dimensions shall be measured from finish top of grade elevation to top of all underground conduits/raceways, typically except under buildings.

- a. Under non-traffic areas not covered with paving or concrete, not less than 24-inches underground.
- b. Under traffic areas including roads and parking areas, not less than 36-inches underground.
- c. Under public/private transit system right-of-way and railroad right-of-way, not less than 48-inches underground.

13. Conduit crossing existing underground utilities shall cross below the bottom depth of the existing utilities. If the top portion of the existing utility depth below finish grade exceeds 72-inches and the specified separation and depths are maintained when crossing over the top of the existing underground utility, the conduit may cross above the existing underground utility.

14. Provide long radius horizontal bends (minimum radius of 36-times the conduit diameter) in underground conduits where the conduit is in excess of 100-feet long.

15. Conduits installed below grade and on grade below buildings, shall not be smaller than 0.75-inch.

16. Underground conduits entering a building shall be sloped. The conduit direction of slope shall be away from the building and shall prevent water in the conduit from "Gravity Draining" towards the building. The conduit slope "High Point" shall originate from the building, out to the first exterior pullbox, manhole etc. exterior conduit termination "Low Point". The minimum slope angle shall be a constant 8-inches (or greater) of fall for each 100-feet of conduit length.

17. Raceway/Conduits, which are installed at this time and left empty for future use, shall have 0.25-inch diameter polyvinyl rope left in place for future use. The pull rope shall be 500-pounds minimum tensile strength. Provide a minimum of 5-feet of slack at each end of pull ropes.

3.03 WIRE AND CABLE

- A. Branch circuit and fixture joints for #10 AWG and smaller wire shall be made with UL-approved connectors listed for 600 volts, approved for use with copper and/or aluminum wire. Connector to consist of a cone-shaped, expandable coil spring insert, insulated with a nylon shall and 2 wings placed opposite each other to serve as a built-in wrench or shall be molded one-piece as manufactured by "Scotchlok".
- B. Branch circuit joints #8 and larger screw pressure lugs made of high strength structural aluminum alloy and UL-approved for use with both copper and/or aluminum wire as manufactured by Thomas & Betts.
- C. Splices insulated with plastic splicing tape, half-lapped and at least the thickness of the wire insulation. Tape shall be fresh and quality equal to Scotch.
- D. Correspond each circuit to the branch number indicated on the panel schedule shown on the Drawings except where departures are approved by the Architect or the Owner's Inspectors.
- E. All wiring, including low voltage, shall be installed in conduit, unless otherwise noted. Conduit may be omitted for low voltage interconnect wiring between ceiling mounted occupancy sensors where plenum rated wiring is installed above accessible ceilings.
- F. Control wiring to conform to the wiring diagrams shown on the Mechanical Drawings and the Manufacturer's wiring diagrams. Control the equipment in the manner specified under the "Mechanical" Section of the Specifications. Control wire to be color-coded for each in making final connections. Tag all spare conductors.
- G. Wiring within panel enclosures to be neatly grouped and laced with Thomas & Betts "Ty-rap" spaced 3" apart and fanned out to the terminals. Tag all spare conductors.

3.04 PANELBOARD MOUNTING

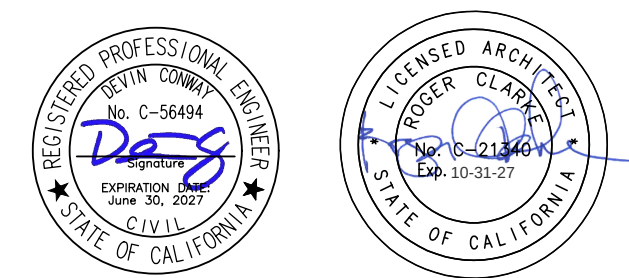
- A. Flush mounted panelboards and terminal cabinets shall be securely fastened to at least two studs or structural members. Trim shall be flush with finished surface.
- B. Surface mounted panelboards and terminal cabinets shall be secured to walls by means of preformed steel channels securely fastened to at least two studs or structural members.
- C. Panelboards shall be installed to ensure the top circuit protective device (including top compartment control devices) are not more than 8-feet-6-inch above finish floor in front of the panel and the bottom device is a minimum of 12-inch above the floor. Manufacturer shall specifically indicate on Shop Drawing submittals each panel where these conditions cannot be met.

3.05 LIGHTING

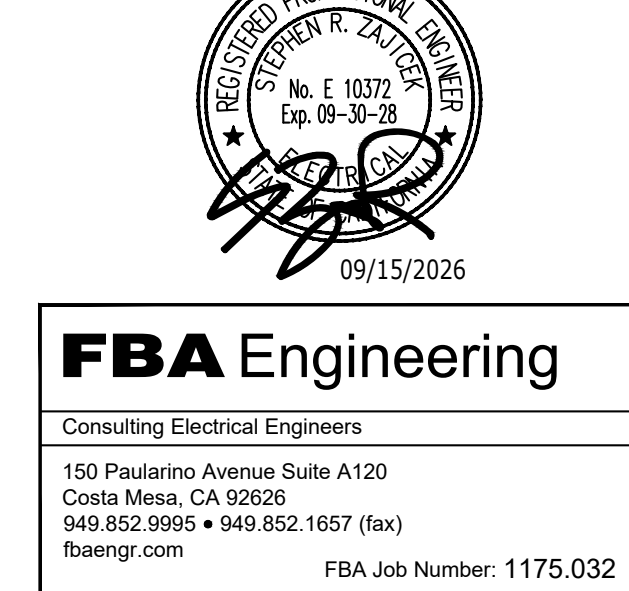
- A. Install lighting fixtures in accordance with the Manufacturers installation instructions and industry standards.
- B. Provide all mounting accessories, hardware, trim fittings as and required for proper installation into the ceiling construction type.
- C. Refer to the Architectural Drawings for the exact location and placement of the lighting fixtures.
- D. Test each lighting fixture and respective lighting controls to confirm that proper operational and performs to the Manufacturers Specifications.



STAMP



CONSULTANT



SHEET TITLE

ELECTRICAL SPECIFICATIONS

PROJECT NAME

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST, HAWTHORNE, CA 90250

SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

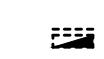
NO.	REVISIONS	DATE
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DRAWN BY	CHECKED BY
	DC/CG
DATE ISSUED	SCALE
03/10/2026	

PROJ. NO. 2223000

SHEET NO. E2.1

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FIRE ALARM SYSTEM EQUIPMENT SCHEDULE						
SYMBOL	DESCRIPTION	MANUFACTURER MODEL NO. #	MNT. HEIGHT REQ.	BACKBOX REQ.	CSFM NO.#	NOTES
	FIRE ALARM CONTROL PANEL "FACP"	FIRE-LITE MS 9200	TOP OF BOX BELOW 6' 3"	15"X14.5"X2.65"	7165-0075-0158	
	FIRE ALARM EXPANDER PANEL	FIRE-LITE FCPS-24	TOP OF BOX BELOW 6' 3"	N/A	7300-0559-1237	
	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	FIRE-LITE SD365	FLUSH ON CEILING	4S BOX WITH RING	7272-0075-0502	
	FIRE ALARM WALL HORN/STROBE	WHEELLOCK NS-241575W-FR	WALL MNT. +80" A.F.F. TO BOTTOM OF LENSE	4S BOX WITH RING	7125-0785-0142	

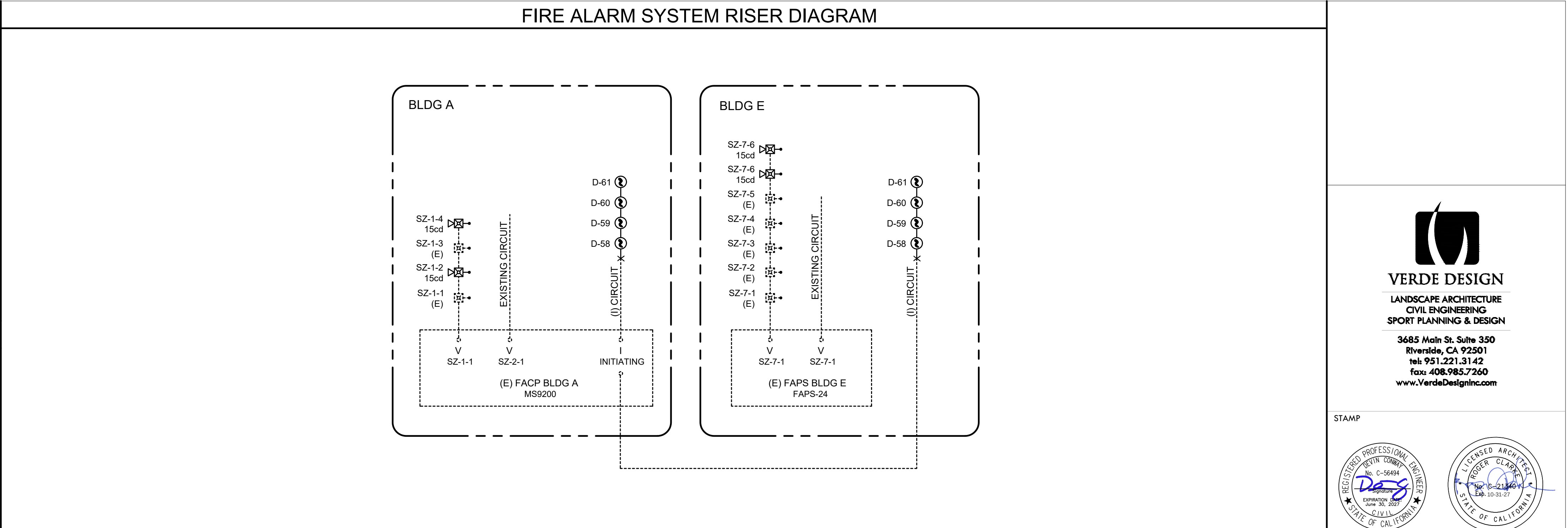
<div>SYSTEM INPUTS</div> <div>SYSTEM OUTPUTS</div>		MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	SPRINKLER TAMPER SWITCH	SPRINKLER POST INDICATOR VALVE TAMPER SW (PIV)	DOUBLE DETECTOR CHECK VLV TAMPER SW (DDCV)	FIRE ALARM 120VAC POWER FAILURE	FIRE ALARM SYSTEM LOW BATTERY	OPEN CIRCUIT GROUND FAULT	NAC CIRCUIT SHORT	NOTES
A	ANNUNCIATE ALARM CONDITION AT MAIN FIRE ALARM PANEL AND REMOTE ANNUNCIATOR	X	X	X								A
B	ANNUNCIATE SUPERVISORY CONDITION AT FIRE ALARM CONTROL PANEL AND REMOTE ANNUNCIATOR				X	X	X					B
C	ANNUNCIATE AND SOUND FACP BUZZER ON TROUBLE CONDITION AT FIRE ALARM CONTROL PANEL	WIRING FAULT	WIRING FAULT	WIRING FAULT	WIRING FAULT	WIRING FAULT	WIRING FAULT	X	X	X	X	[1] C
D	ACTIVATE ALL NOTIFICATION AUDIBLE/VISUALS THROUGHOUT THE FACILITY/CAMPUS ON ALARM	X	X	X							<div>1</div>	D
E	TRANSMIT ALARM, TROUBLE OR SUPERVISORY SIGNALS TO 24HR CENTRAL MONITORING STATION	X	X	X	X	X	X	X	X	X	X	E

NOTES:
[1] INDICATE TROUBLE ON WIRING FAULT OR DEVICE AS REQUIRED.

**** FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS THROUGH THE TELEPHONE LINES TO AN APPROVED MONITOR COMPANY IN ACCORDANCE WITH NFPA 72. THE MONITOR COMPANY SHALL BE LISTED AS EITHER UUFX (CENTRAL STATION) OR UJUS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. ****

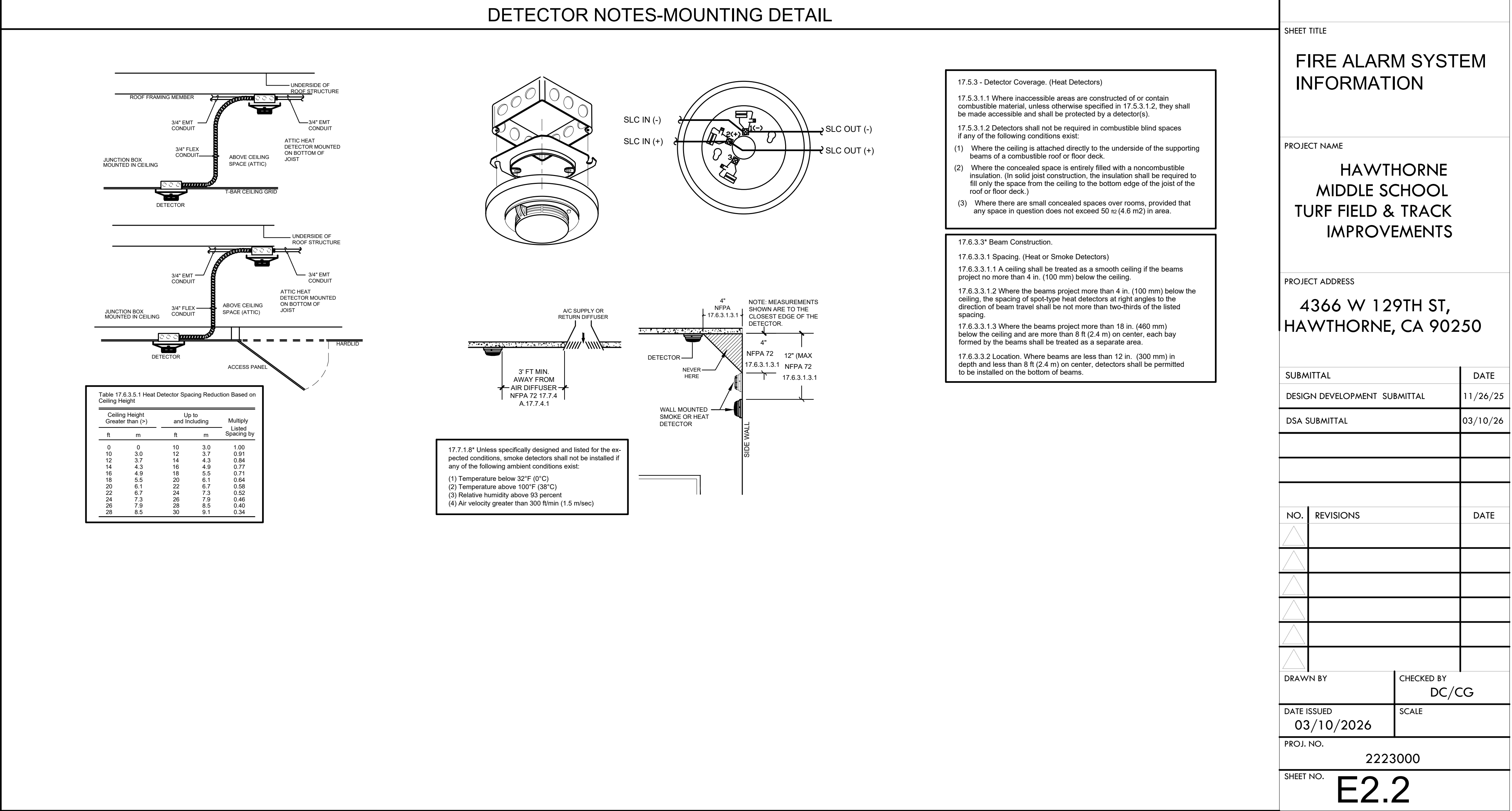
DSA ADDITIONAL NOTES	PROJECT SCOPE OF WORK
<div><div>1. APPLICABLE STANDARD NFPA STANDARD 72 (2022) AS AMENDED IN CBC CHAPTER 35.1</div><div>2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.</div><div>3. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR (PI).</div><div>4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.</div><div>5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.</div><div>6. DSA, ARCHITECT, ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.</div><div>7. ALL MEMBRANE AND THROUGH-PENETRATIONS OF RATED ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPES OF MATERIALS SHALL BE IDENTIFIED WITHIN THE FIRE ALARM SECTION OF THE PROJECT SPECIFICATIONS.</div><div>8. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT +80" MINIMUM AND +96" MAXIMUM ABOVE FINISHED FLOOR AS MEASURED TO THE BOTTOM OF THE LENS.</div><div>9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT +90" MINIMUM AND 100" MAXIMUM ABOVE FINISHED FLOOR OR GROUND AND NO CLOSER THEN 6" TO A HORIZONTAL STRUCTURE.</div><div>10. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.</div><div>11. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.</div><div>12. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15-CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.</div><div>13. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE LISTED FOR WET LOCATIONS.</div><div>14. ALL FIRE ALARM CIRCUITS, WIRING-CABLES SHALL BE FPL (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PENUM) AS REQUIRED FOR APPLICATION. ALL CABLE AND WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN RED CONDUIT. (REFER TO FIRE ALARM CABLE SCHEDULE FOR ADDITIONAL INFORMATION.</div><div>15. PER THE CEC, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC.</div><div>16. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FOOT FROM FIRE SPRINKLERS OR 3FEET FROM ANY SUPPLY DIFFUSER. IN THE AREA OF CONSTRUCTION OR WHERE POSSIBLE DAMAGE/CONTAMINATION COULD OCCUR ON NEWLY INSTALLED FIRE ALARM DEVICES, DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.</div><div>17. FIRE ALARM REMOTE PANELS, SUB-PANELS AND EQUIPMENT DEVICES SHALL BE MOUNTED AND SECURED TO SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE BACKBOX OR DEVICE SHALL EXCEED THE WEIGHT OF 20LBS WITHOUT SPECIAL MOUNTING DETAILS.</div><div>18. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM CONTROL AND SUB PANELS PANELS. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL, AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A "RED" LOOKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION AND BE LABELED AS FOLLOWS.</div><div>A. "FIRE ALARM" FOR FIRE ALARM SYSTEMS.</div><div>B. "EMERGENCY COMMUNICATIONS" FOR EMERGENCY COMMUNICATIONS SYSTEMS OR</div><div>C. "FIRE ALARMECS" FOR COMBINATION FIRE ALARM AND COMMUNICATIONS SYSTEMS.</div><div>19. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED RECORD OF COMPLETION PER THE CURRENT NFPA 72 EDITION (2022), FIGURE 7.8.2(A) THROUGH (I) AS APPLICABLE.</div><div>20. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER 2022 CFC SECTION 901.6.2</div><div>21. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AND SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.</div><div>22. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A FIRE ALARM SYSTEM MONITORING CONTRACT.</div></div>	<div>THE SCOPE OF WORK FOR THIS PROJECT IS TO PROVIDE AND INSTALL FIRE ALARM SYSTEM MODIFICATIONS AS INDICATED ON THE PLANS. THIS INCLUDES ADDING SMOKE DETECTORS WHERE NEEDED AND REPLACING EXISTING STROBES WITH HORN/STROBES AS NEEDED.</div> <div>FIRE ALARM SYSTEM APPLICABLE CODES-NOTES</div> <div>FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH CFC-901.1 AND 907.1.1.</div> <div>FIRE ALARM COMPLETE PLAN SUBMITTAL</div> <div>1.0 PROJECT INFORMATION</div> <div>A. OCCUPANCY GROUP:</div> <div>FIRE ALARM NOTE:</div> <div>REFER TO ARCHITECTURAL DRAWINGS.</div> <div>B. CONSTRUCTION TYPE:</div> <div>REFER TO ARCHITECTURAL DRAWINGS.</div> <div>C. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, PART 2, CHAPTER 7, TITLE 24. REFER TO THE ARCHITECTURAL PLANS FOR FIRE-RATE CORRIDOR(S), OCCUPANCY SEPARATION(S) AND AREA SEPARATION WALL(S).</div> <div>D. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.</div> <div>E. PROVIDE A STATEMENT OF COMPLIANCE WHEN REQUESTING INSPECTION CFC 901.2.1</div> <div>F. THE FIRE ALARM SYSTEM DESIGN FOR THIS PROJECT IS AN FULLY AUTOMATIC ADDRESSABLE SYSTEM .</div> <div>2.0 APPLICABLE CODES AND STANDARDS</div> <div>2022 California Administrative Code (CAC), Part 1, Title 24 CCR</div> <div>2022 California Building Code (CBC), Part 2, Title 24 CCR</div> <div>2022 California Electrical Code (CEC), Part 3, Title 24 CCR</div> <div>2022 California Mechanical Code (CMC), Part 4, Title 24 CCR</div> <div>2022 California Plumbing Code (CPC), Part 5, Title 24 CCR</div> <div>2022 California Energy Code, Part 6, Title 24 CCR</div> <div>2022 California Fire Code (CFC), Part 9, Title 24 CCR</div> <div>2022 California Existing Building Code (CEBC), Part 10, Title 24 CCR</div> <div>2022 California Green Building Standards Code (CalGreen), Part 11, Title 24 CCR</div> <div>2022 California Referenced Standards Code, Part 12, Title 24 CCR Title 19 CCR, Public Safety, State Fire Marshal Regulations Applicable Standards</div> <div>For a list of applicable standards, including California Amendments to the NFPA Standards, refer to 2022-CBC Chapter 35 and C2022-FC Chapter 80.</div> <div>B. PARTIAL LIST OF APPLICABLE STANDARDS</div> <div>NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2022 EDITION</div> <div>3.0 PROJECT NOTES:</div> <div>1.0 FIRE ALARM CONTRACTOR AWARDED THE PROJECT SHALL PROVIDE AND SUBMIT TO THE EOR, DISTRICT REPRESENTATIVE/OWNER THE EXISTING FIRE ALARM SYSTEM PROGRAM PRINTOUT (HARDCOPY) PRIOR TO INSTALLATION.</div> <div>2.0 UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE INSTALLER SHALL SUPPLY THE OWNER/DISTRICT REPRESENTATIVE, WITH WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS-BUILT RECORD DRAWINGS/PLANS, FIRE ALARM SYSTEM PROGRAM PRINTOUT (HARDCOPY) AND EQUIPMENT SPECIFICATIONS.</div> <div>4.0 IF APPLICABLE TO THE PROJECT, THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL DURING THE BUILDING MODERNIZATION CONSTRUCTION UNTIL THE NEW FIRE ALARM SYSTEM IS INSTALLED. COMMISSIONED AND FULLY OPERATIONAL UPON COMPLETE FINAL TEST AND APPROVAL OF THE NEW SYSTEM, THE EXISTING FIRE ALARM SYSTEM AND ALL ASSOCIATED EXISTING SUB PANELS, ANNUNCIATORS, DEVICES, CONDUITS, CABLING SHALL BE DISCONNECTED, REMOVED AS REQUIRED PER THE PROJECT SCOPE AND/OR PROJECT SPECIFICATIONS.</div> <div>5.0 NEW FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A DOCUMENTATION CABINET AS REQUIRED PER NFPA 72 (2022) REQUIREMENTS. CABINET SHALL BE INSTALLED-LOCATED NEXT TO THE MAIN FIRE ALARM CONTROL PANEL. IF IT CANNOT BE LOCATED NEXT TO THE FACP IT SHALL BE LOCATED AT AN APPROVED LOCATION.</div> <div>5.1 THE DOCUMENTATION CABINET SHALL HAVE A PROMINENT LABEL AFFIXED TO THE CABINET DOOR, "FIRE ALARM SYSTEM RECORD DOCUMENTS".</div> <div>5.2 ALL RECORD, TESTING DOCUMENTATION, AS-BUILT RECORD PLANS, FIRE ALARM SYSTEM PROGRAM PRINTOUT SHALL BE STORED IN THE CABINET.</div> <div>5.3 ALL CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.</div>

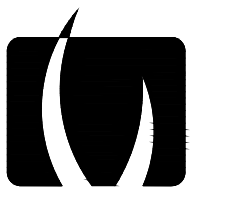
FIRE ALARM SYSTEM GENERAL NOTES	
1. THE FIRE ALARM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE.	
2. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION (FIRE MARSHAL). THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEST EQUIPMENT (e.g. DIGITAL AMMETER, DECIBEL METER) AND VERIFY THAT THE GROUND FAULT DETECTION FOR THE FIRE ALARM SYSTEM IS OPERATIONAL DURING TESTING AND REMAINS SO ONCE THE SYSTEM IS APPROVED. UPON APPROVAL OF THE FIRE ALARM SYSTEM, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH COMPLETE SET OF OPERATING INSTRUCTIONS FOR THE SYSTEM.	
3. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.	
4. A FIRE ALARM SYSTEM "RECORD OF COMPLETION" SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE FIRE MARSHAL, INSPECTOR OF RECORD (IOR) UPON COMPLETION OF THE INSTALLATION AND FINAL COMMISSIONING OF THE FIRE ALARM SYSTEM.	
5. FIRE ALARM CONTRACTOR-INSTALLER SHALL PROVIDE A HARDCOPY PRINTOUT OF THE FIRE ALARM SYSTEM PROGRAM TO THE OWNER/DISTRICT REPRESENTATIVE, ELECTRICAL ENGINEER OF RECORD AND ARCHITECT.	
6. ALL TERMINAL CABINETS AND JUNCTION BOXES SHALL BE CLEARLY MARKED THAT THE ENCLOSURE IS PART OF THE FIRE ALARM SYSTEM.	
7. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. WIRE LENGTHS USED TO CALCULATE NOTIFICATION CIRCUIT VOLTAGE DROPS REPRESENT ESTIMATED OR MAXIMUM WIRE LENGTH BASED ON MEASUREMENTS OF SCALED FLOOR PLAN. CONTRACTOR SHALL ROUTE CONDUITS AS FIELD CONDITIONS REQUIRE. CONTRACTOR TO INSTALL ALL DEVICES ACCORDING TO MANUFACTURERS INSTRUCTIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES.	
8. CONTRACTOR SHALL VERIFY OPERATION OF POST INDICATOR VALVES (PIVs) AND/OR OUTSIDE STEM & YOKES (OS&Y) VALVES INSTALLED ON FIRE SPRINKLER SERVICE. CONTRACTOR SHALL PROVIDE AND INSTALL TAMPER SWITCH(ES) AT EACH OF THESE VALVES AND INTERCONNECT TAMPER SWITCH(ES) TO THE FIRE ALARM CONTROL PANEL (FACP).	
9. ALL WIRING TO BE INSTALLED IN "RED" CONDUIT. ALL ABOVE GROUND CONDUIT SHALL BE A 3/4" MINIMUM IN SIZE OR AS NOTED ON PLANS. IF FLEX CONDUIT IS USED TO TRANSITION DOWN TO CEILING DECK, THE FLEX CONDUIT CAN BE NO LONGER THAN 5 FEET.	



BATTERY BACKUP CALCULATION-FACP			
QTY	BUILDING-A	STAND-BY CURRENT (AMPS)	ALARM CURRENT (AMPS)
	EXISTING LOAD	0.146	1.188
4	SMOKE DETECTOR	0.0011	0.0011
SUB TOTAL =		0.1467	1.1891
FACP NOTIFICATION CIRCUITS			
QTY	REMOVED	STAND-BY CURRENT (AMPS)	ALARM CURRENT (AMPS)
2	STROBES (RS-241575-VFR)	0.0000	0.2300
2	HORN/STROBES (NS-241575W-FR)	0.0000	0.2480
SUB TOTAL =		0.0000	0.4780
TOTAL STAND-BY CURRENT X 24 HOURS =		0.147 X 24 =	3.521 A-HR
TOTAL ALARM CURRENT X 15 MINUTES =		1.667 X 0.250 =	0.417 A-HR
TOTAL MINIMUM AMP HOURS OF BATTERIES =			3.94 A-HR
ADDITIONAL 25% DERATING SAFETY FACTOR =			4.92 A-HR
NOTES:			
1. BATTERY CALCULATION BASED ON 24 HOURS OF STAND BY - 15 MINS. OF ALARM TIME			
2. PROVIDE MINIMUM SIZE 30 A-HOURS OF SECONDARY STANDBY BATTERY POWER.			
3. PROVIDE ADDITIONAL FIRE ALARM BATTERY TERMINAL CABINET.			

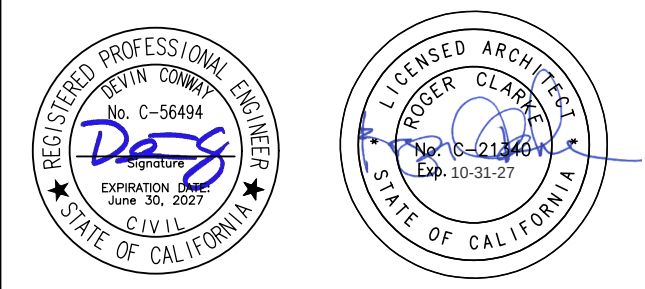
REMOTE POWER SUPPLY BATTERY CALCULATIONS "FAPS"			
QTY	DEVICE	STAND BY CURRENT	ALARM CURRENT
	EXISTING LOAD	0.070	0.405
2	STROBES (RS-241575-VFR)	0.0000	0.2300
2	HORN/STROBES (NS-241575)	0.0000	0.2480
TOTAL CURRENT DRAW		0.070	0.883
TOTAL STAND-BY CURRENT X 24 HOURS =		0.070 X 24 =	1.680 A-HR
TOTAL ALARM CURRENT X 15 MINUTES =		0.88 X 0.083 =	0.073 A-HR
TOTAL MINIMUM AMP HOURS OF BATTERIES =			1.753 A-HR
ADDITIONAL 20% DERATING SAFETY FACTOR =			2.104 A-HR
NOTES:			
1. BATTERY CALCULATION SHALL BE BASED ON 24 HOURS OF STAND BY AND 5 MINUTES IN ALARM.			
2. PROVIDE MINIMUM OF 7 A-HOURS ADDITIONAL STANDBY BATTERY POWER.			



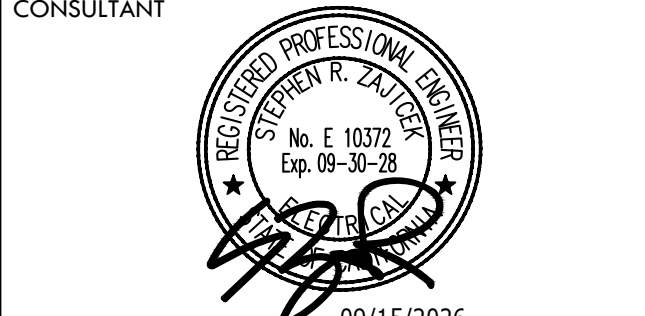


VERDE DESIGN
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CONSULTANT



FBA Engineering
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fbaengr.com FBA Job Number: 1175.032

SHEET TITLE

FIRE ALARM SYSTEM INFORMATION

PROJECT NAME

**HAWTHORNE
MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS**

PROJECT ADDRESS

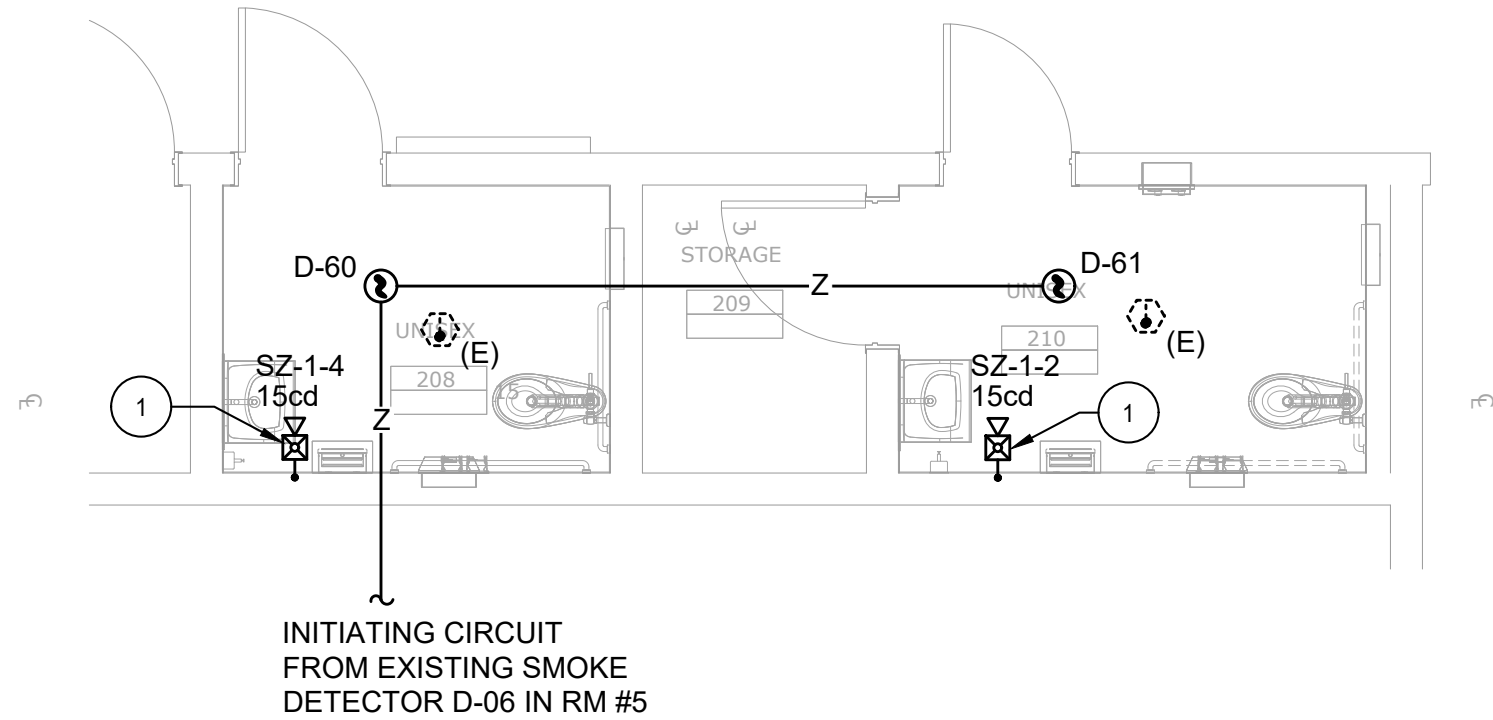
**4366 W 129TH ST,
HAWTHORNE, CA 90250**

SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
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DRAWN BY	CHECKED BY
	DC/CG
DATE ISSUED	SCALE
03/10/2026	
PROJ. NO.	2223000
SHEET NO.	E2.2

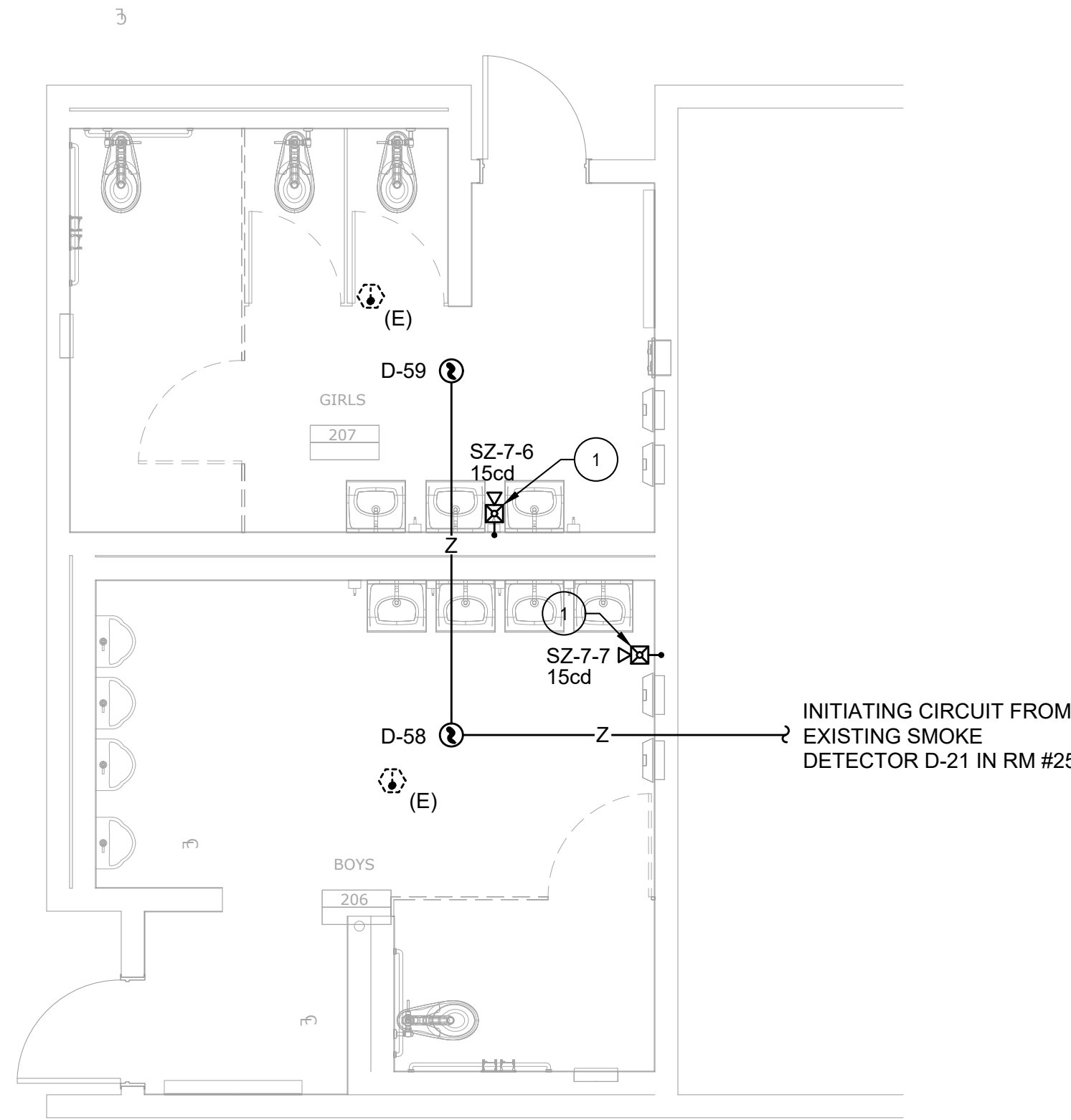
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(E) ENLARGED RESTROOM PLAN - STAFF

SCALE:
1/4"=1'-0"

2



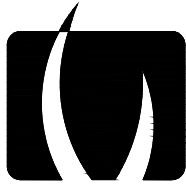
(E) ENLARGED RESTROOM PLAN

SCALE:
1/4"=1'-0"

1

PLAN NOTES:

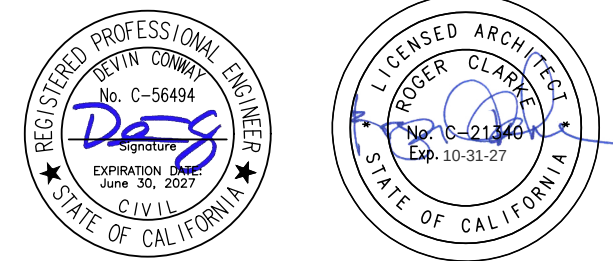
- 1 REMOVE EXISTING STROBES AND REPLACE WITH NEW HORN/STROBES AT EXISTING LOCATIONS.
- 2 INTERCEPT EXISTING AUDIO CIRCUIT AND EXTEND TO NEW HORN-STROBE.



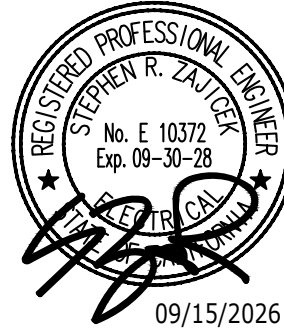
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SHEET TITLE

ENLARGED
RESTROOM PLAN

PROJECT NAME

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MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

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HAWTHORNE, CA 90250

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NO.	REVISIONS	DATE
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△		
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DATE ISSUED 03/10/2026	SCALE

PROJ. NO. 2223000

SHEET NO.

E2.3