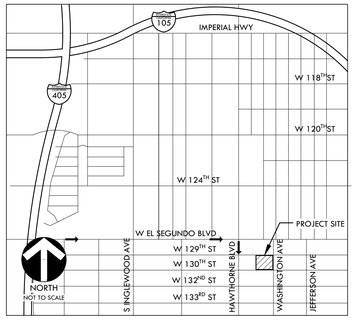
CONSTRUCTION DRAWINGS FOR

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

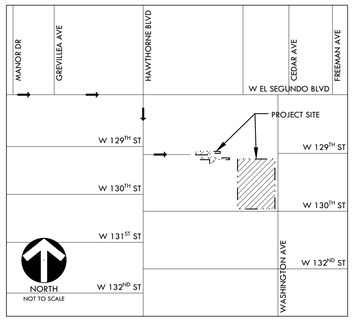
4366 W 129TH STREET
HAWTHORNE, CA 90250
HAWTHORNE SCHOOL DISTRICT PROJECT NO. 2214601
VERDE DESIGN, INC. PROJECT NO. 2223000

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

PROJECT MAP



VICINITY MAP



SITE MAP

PREPARED BY

REGISTERED PROFESSIONAL ENGINEER — DEVIN CONWAY — No. C-56494 — Signature — EXPIRATION DATE: June 30, 2027 — CIVIL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — Lic. C-21340 — Exp. 10-31-27 — STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER — STEPHEN R. ZAUTCKE — No. E 10372 — Exp. 09-30-28 — ELECTRICAL — STATE OF CALIFORNIA

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Riverside, CA 92501
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Costa Mesa, CA 92626
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fbaengr.com

CONTACT INFORMATION

ORGANIZATION	NAME	PHONE	EMAIL
OWNER			
HAWTHORNE SCHOOL DISTRICT	MARISELA VAZQUEZ	(310) 263-3962	mvasquez@hawthorne.k12.ca.us
CIVIL ENGINEER/ LANDSCAPE ARCHITECT			
VERDE DESIGN INC.	DEVIN CONWAY	(408) 850-3420	devin@verdedesigninc.com
	CHRIS GIANNINI	(951) 221-3142	chrisg@verdedesigninc.com
ARCHITECT			
RUHNAU CLARKE ARCHITECTS	ALVIN FLORES	(951) 684-4664	aflores@ruhnauclarke.com
ELECTRICAL ENGINEER			
FBA ENGINEERING	BILL ZAVRSNICK	(949) 852-9995	billz@fbaengr.com

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.

APPLICABLE CODES

1. 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 (CDC), 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 II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS) — 28 CFR 35.151(C)
   OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 35)
   FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36) — 28 CFR 36.406
   2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN

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) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES)	2025 EDITION
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)

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

3. ALL EXISTING FIRE EXTINGUISHING SYSTEMS ARE IN COMPLIANCE WITH UL 300, CBC 904.11, CFC 904.11.

GENERAL NOTES

1. 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.
2. NO CONSTRUCTION SHALL COMMENCE WITHOUT THE OFFICIAL NOTICE TO PROCEED FROM THE DISTRICT .
3. 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.
4. 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.
5. 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 .
6. 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 .
7. 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.
8. ALL NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO, THE WRITTEN SPECIFICATIONS AND DETAILS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
9. 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".
10. DIMENSIONS ON WORKING DRAWINGS TAKE PRECEDENCE OVER MEASURED ELEMENTS. CONTRACTOR SHALL NOT SCALE DRAWINGS.
11. ALL TYPICAL DETAILS SHALL APPLY UNLESS NOTED OTHERWISE.
12. CONTRACTOR SHALL PROVIDE ADEQUATE DUST CONTROL AND KEEP MUD AND DEBRIS OFF THE PUBLIC RIGHT-OF-WAY AT ALL TIMES.
13. ALL TRENCHES AND EXCAVATIONS SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH THE APPLICABLE SECTIONS OF CALIFORNIA AND FEDERAL O.S.H.A. REQUIREMENTS AND OTHER APPLICABLE SAFETY ORDINANCES. CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR TRENCH SHORING DESIGN AND INSTALLATION.
14. ANY ALTERATIONS OF EXISTING FACILITIES TO ACCOMMODATE THE INSTALLATION OF NEW WORK SHALL BE REVIEWED BY THE DISTRICT PRIOR TO COMMENCING WORK.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. ALL EQUIPMENT SHALL BE FABRICATED FROM FIELD VERIFIED DIMENSIONS AND APPROVED SHOP DRAWINGS. COORDINATE MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
23. 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.
24. 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.
25. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.
26. 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.
27. 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.
28. 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.
29. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.

SHEET INDEX

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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
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E0.2	SINGLE LINE DIAGRAM & PANEL SCHEDULE
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E2.0	ELECTRICAL SPECIFICATIONS
E2.1	ELECTRICAL SPECIFICATIONS
E2.2	FIRE ALARM SYSTEM INFORMATION
E2.3	ENLARGED RESTROOM PLAN

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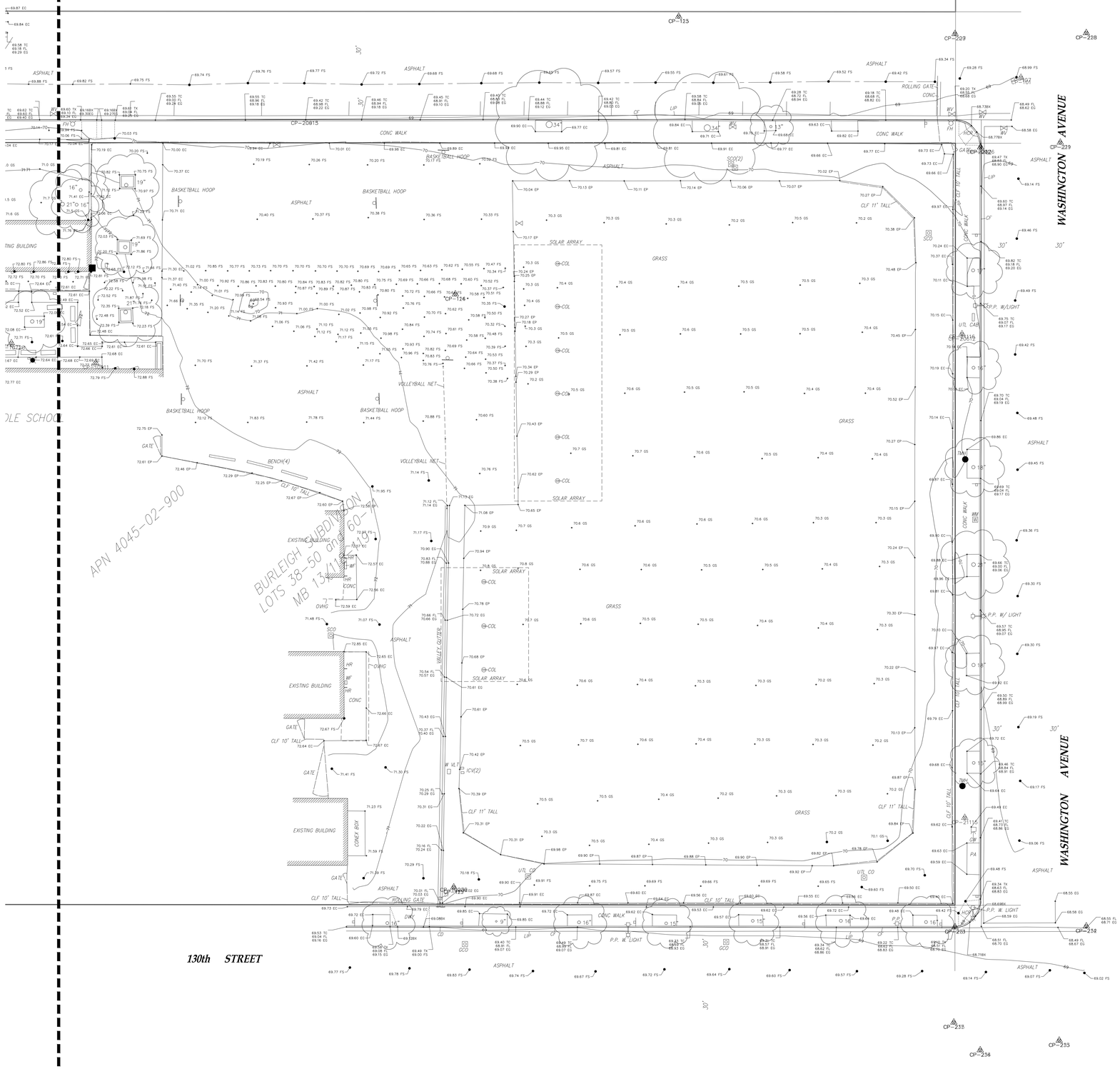
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PLOT DATE: 09-01-26 PLOTTED BY: station14

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

DSA SUBMITTAL - 06/10/26

C0.0

COVER SHEET



SHEET INFO AND REFERENCE

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

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: 66.238 FEET

DESCRIPTION: I&TAG IS#2625 IN CB @ S B/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 SURVEYOUR 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
GV	GAS VALVE
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
- 100 CONTOUR
- 100.00 SPOT ELEVATION
- CONTROL POINT
- SIGN
- ADA STALL
- DECIDUOUS TREE
- BOLLARD
- BASKETBALL HOOP

NORTH
0' 10' 20' 40' 80'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
3685 Main St. Suite 350
Riverside, CA 92501
tel: 951.221.3142
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — DAVID CHRISTIAN CRUZ — C-56494 — CIVIL — exp. June 30, 2027 — STATE OF CALIFORNIA

LICENSED ARCHITECT — DAVID CLARK — No. C-23409 — exp. 03-31-27 — STATE OF CALIFORNIA

CONSULTANT

IMEG
PH: 909.477.6915
www.imegcorp.com
901 Via Piemonte, Suite 400
Ontario, CA 91764

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
1		
2		
3		
4		
5		
6		

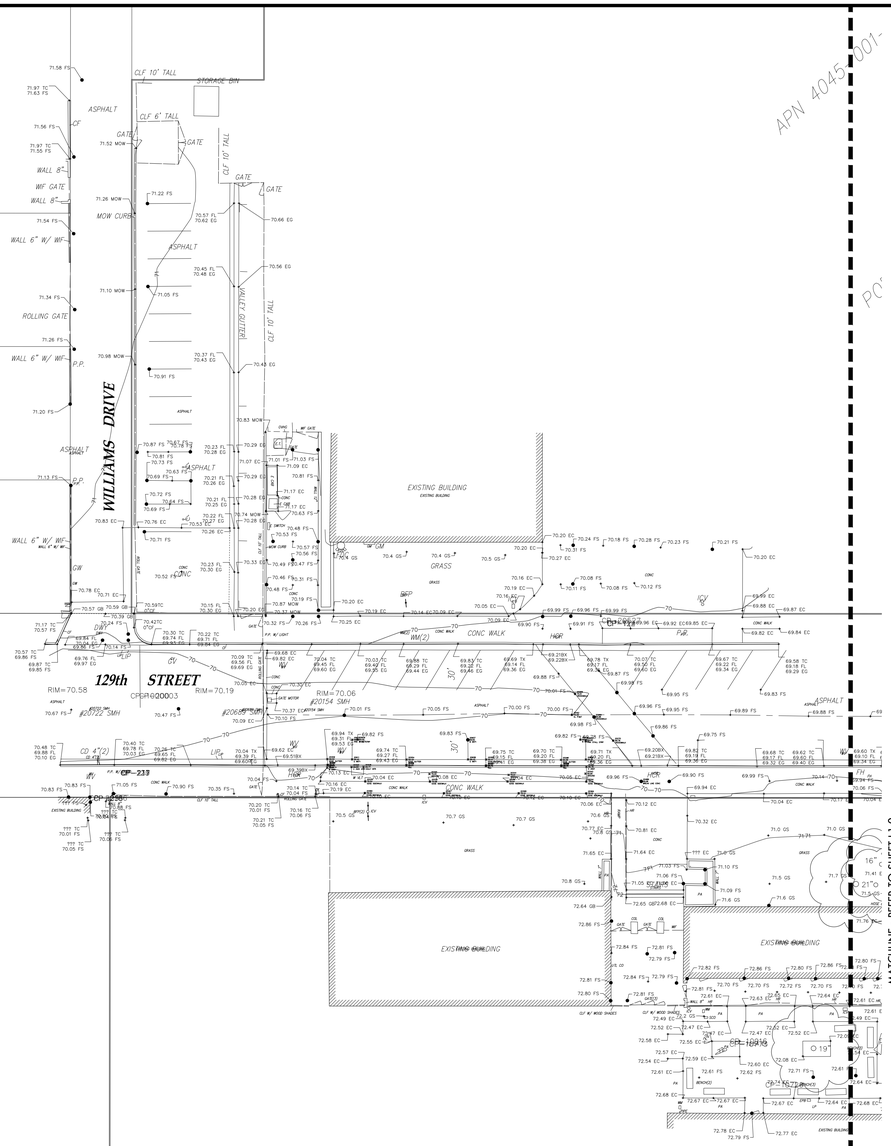
DRAWN BY	CHECKED BY
IMEG	DC/CG
DATE ISSUED	SCALE
06/10/2026	

PROJ. NO. 2223000

SHEET NO. L1.0

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DRAWING NAME: Y:\Projects-R\2022\2223000 - Hawthorne MS T&F Assess\CAD_L1.0-EXC.dwg
PLOT DATE: 06-01-26 PLOTTED BY: station14



90'

HAWTHORNE BLVD.

90'

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

DESCRIPTION: I&TAG IS#2625 IN CB @ S B/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 SURVEYOUR 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
GV	GAS VALVE
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
- PROJECT BOUNDARY LINE
- PARCEL LINE
- UNDERLYING LOT LINE
- RIGHT-OF-WAY LINE
- BREAKLINE
- CENTERLINE
- 100 CONTOUR
- 100.00 SPOT ELEVATION
- CONTROL POINT
- SIGN
- ADA STALL
- DECIDUOUS TREE
- BOLLARD
- BASKETBALL HOOP

NORTH
0' 10' 20' 40' 80'

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DATE: 10/12/2026

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tel: 951.221.3142
faxx 408.985.7260
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STAMP

REGISTERED PROFESSIONAL ENGINEER — DAVID CHANG — C-56494 — EXPIRATION DATE: June 30, 2027 — STATE OF CALIFORNIA

LICENSED ARCHITECT — CHRISTOPHER CLARK — No. C-33409 — EXPIRATION DATE: 03-31-27 — STATE OF CALIFORNIA

CONSULTANT

IMEG
PH: 909.477.6915
www.imegcorp.com
901 Via Piemonte, Suite 400
Ontario, CA 91764

SHEET TITLE

EXISTING CONDITIONS SURVEY PLAN

PROJECT NAME

HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

PROJECT ADDRESS

4366 W 129TH ST, HAWTHORNE, CA 90250

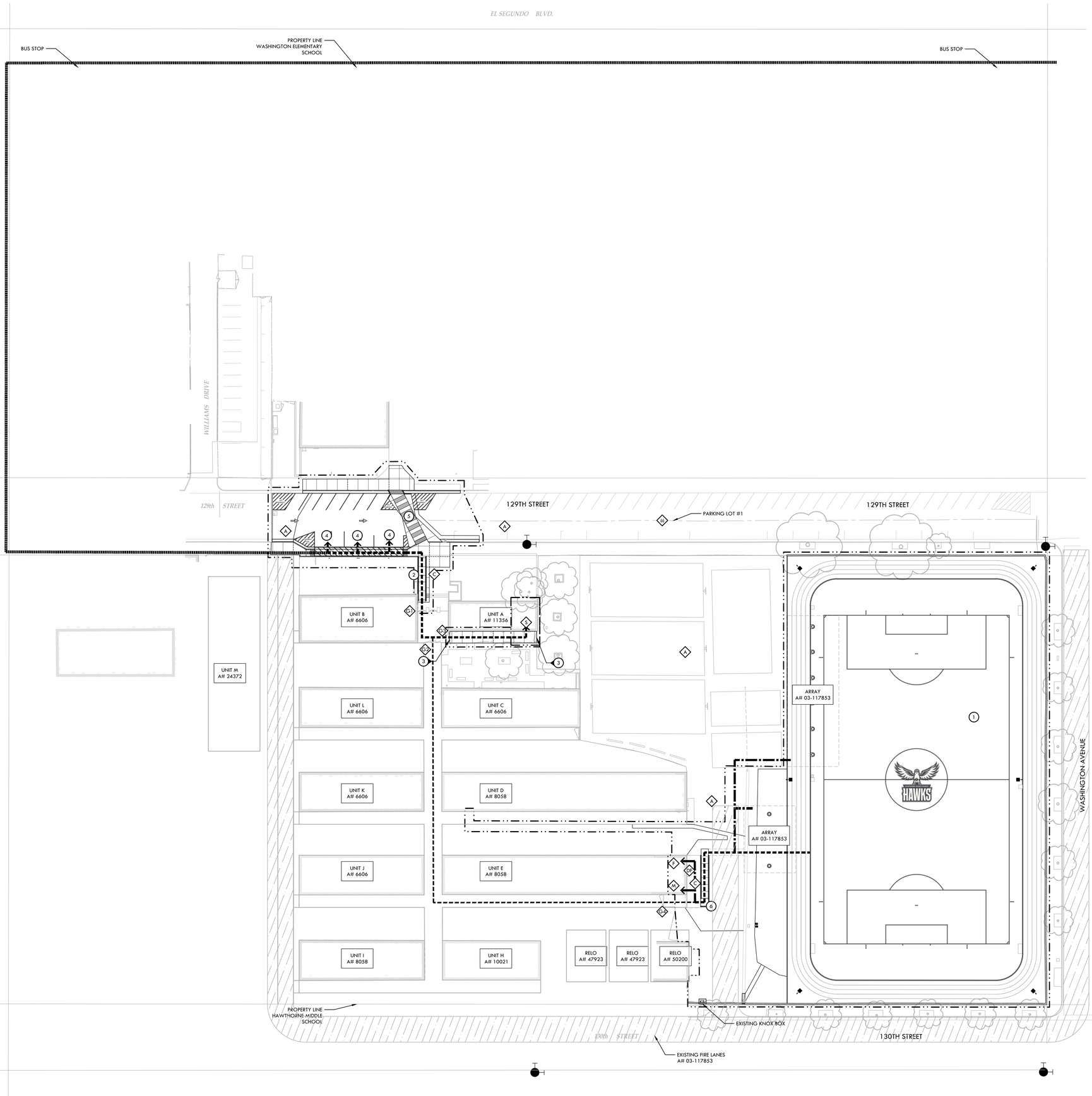
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
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DRAWN BY: IMEG	CHECKED BY: DC/CG
DATE ISSUED: 06/10/2026	SCALE:
PROJ. NO.: 2223000	
SHEET NO.: L1.1	

DRAWING NAME: Y:\Projects-R\2022\2223000 - Hawthorne MS T&F Assess\CAD_L1.0-EXC.dwg
PLOT DATE: 09-01-26 PLOTTED BY: station14

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ACCESSIBILITY PLAN NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING ½" BEVELED AT 1:2 MAX. SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ½" 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 80". 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 CONSTRICTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLAINT 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 @ S=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.
◇ 68	NUMBER OF EXISTING PARKING STALLS
1	PROPOSED ALL-WEATHER TRACK & SYNTHETIC TURF FIELD
2	UPGRADE EXISTING ACCESSIBLE RAMP, REFER TO MATERAILS PLAN, SHEET L8.0
3	NEW CONCRETE PAVING AT PATH OF TRAVEL, REFER TO GRADING PLAN, SHEET L5.0
4	PROPOSED ADA COMPLIANT PARKING STALLS. REFER TO DETAIL F, SHEET L2.1
5	NEW CONCRETE CROSSWALK, REFER TO GRADING PLAN, SHEET L5.0
6	PROPOSED SLOPED WALKWAY, REFER TO GRADING PLAN, SHEET L5.0 AND MATERIAL PLAN L8.0
◇ C	EXISTING CONCRETE PAVING
◇ A	EXISTING ASPHALT PAVING
◇ DF	EXISTING ACCESSIBLE DRINKING FOUNTAIN, REFER TO DETAIL K, SHEET L2.1
◇ G1	EXISTING WROUGHT IRON ORNAMENTAL GATE REMAIN OPEN DURING SCHOOL HOURS, REFER TO DETAIL A, SHEET L2.1
◇ G-A	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.
◇ G-B	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.
◇ G-C	EXISTING CHAINLINK SWING GATE REMAIN OPEN DURING SCHOOL HOURS, REFER TO DETAIL D, SHEET L2.1
◇ M	EXISTING MEN'S ACCESSIBLE RESTROOM, PER PLAN 9, SHEET AS1.1
◇ F	EXISTING WOMEN'S ACCESSIBLE RESTROOM, PER PLAN 9, SHEET AS1.1
◇ S	EXISTING STAFF ACCESSIBLE RESTROOM, PER PLAN 0, SHEET AS1.1
	(E) FIRE HYDRANT
KB	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 118-208.2

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

NORTH
0' 15' 30' 60' 90'

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REGISTERED PROFESSIONAL ENGINEER — DAVID CHUNG — C-56494 — CIVIL — STATE OF CALIFORNIA — EXPIRATION June 30, 2027

LICENSED ARCHITECT — DAVID CLARK — No. C-23409 — STATE OF CALIFORNIA — DATE 03.31.21

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

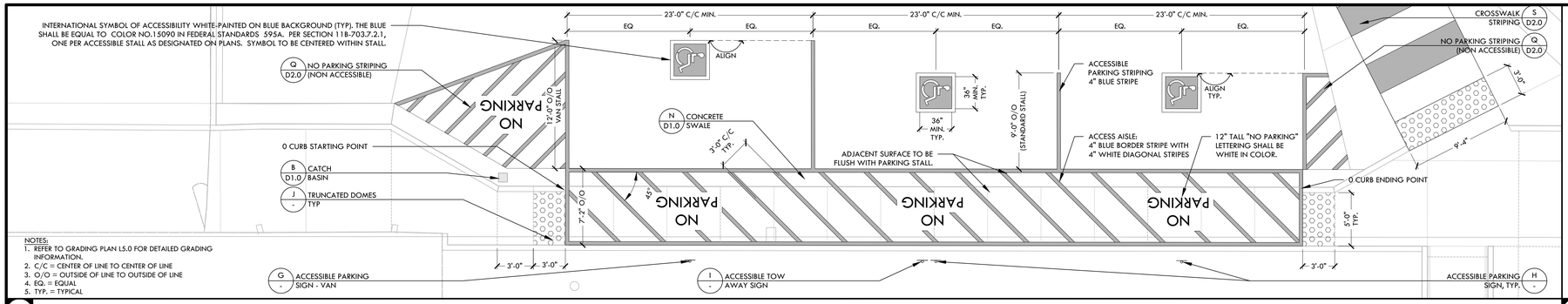
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AC/XH	DC/CG
DATE ISSUED	SCALE
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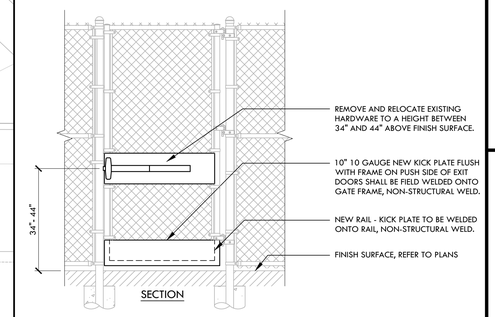
PROJ. NO.
2223000

SHEET NO.
L2.0

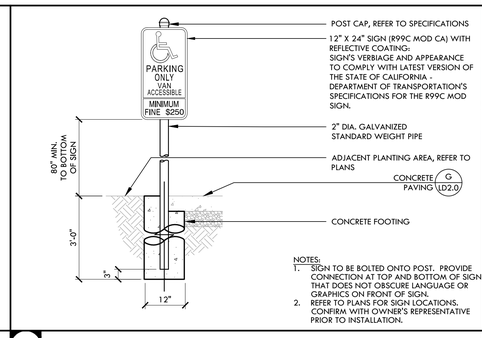
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PLOT DATE: 09-16-26 PLOTTED BY: station14



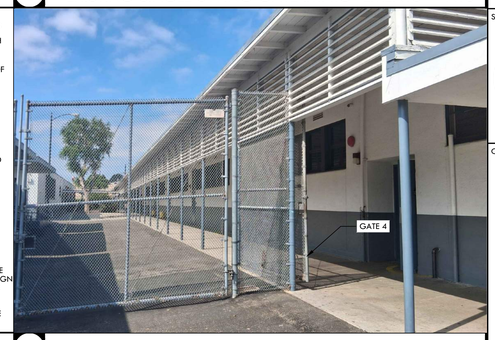
F ACCESSIBLE PARKING STALL



E EXISTING SINGLE SWING GATE IMPROVEMENTS NTS



G ACCESSIBLE PARKING SIGN - VAN NTS



D GATE G4 - REMAIN OPEN DURING SCHOOL HOURS

P



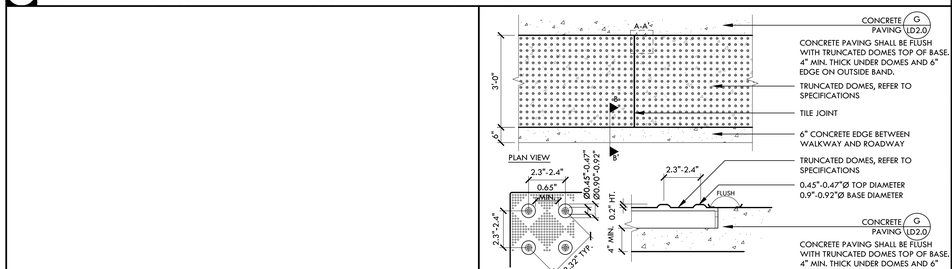
L

K EXISTING ACCESSIBLE DRINKING FOUNTAIN REFERENCE IMAGES



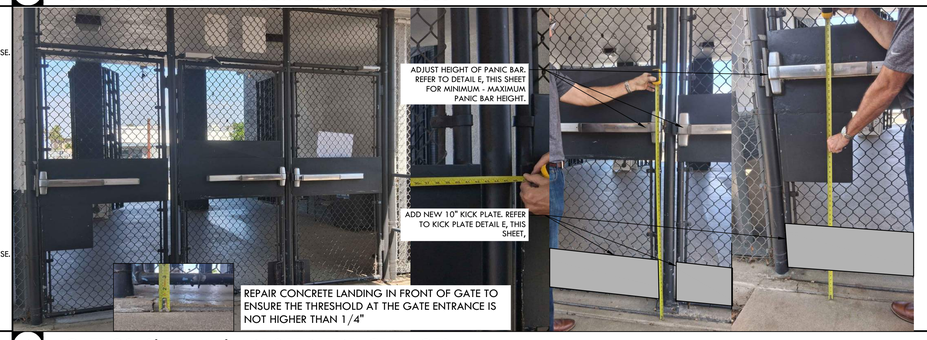
C GATE G3- 8' TALL X 4'WIDE SITE REFERENCE IMAGES

N



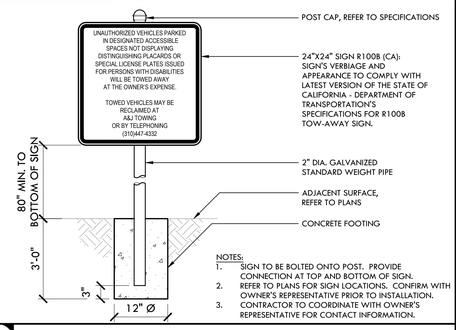
NOTE:
TRUNCATED DOMES, TYP. PER CALIFORNIA BUILDING CODE SECTIONS 118.705.1.2.2 AND 118.705.1.2.5, SHALL BE INSTALLED IN AREAS WITH 36" WIDE DETECTABLE WARNING STRIP. COLOR: FEDERAL YELLOW FS 33538. REFER TO SPECIFICATIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

J TRUNCATED DOMES (RECESSED) NTS

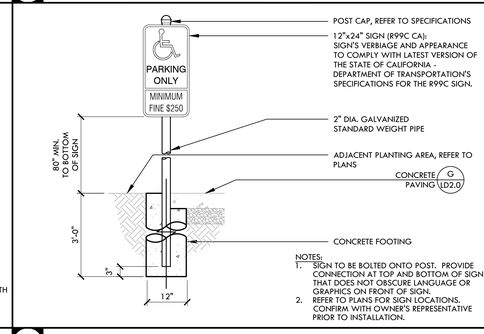


B GATE G2- 8' TALL X 4'WIDE SITE REFERENCE IMAGES

M



I PARKING TOW AWAY SIGN NTS



H ACCESSIBLE PARKING SIGN NTS



NOTE: REFER TO GRADING PLAN L5.0 FOR MORE DETAILED INFORMATION

A GATE G1- REMAIN OPEN DURING SCHOOL HOURS

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tel: 951.221.31.42
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CONSULTANT

SHEET TITLE
ACCESSIBLE 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

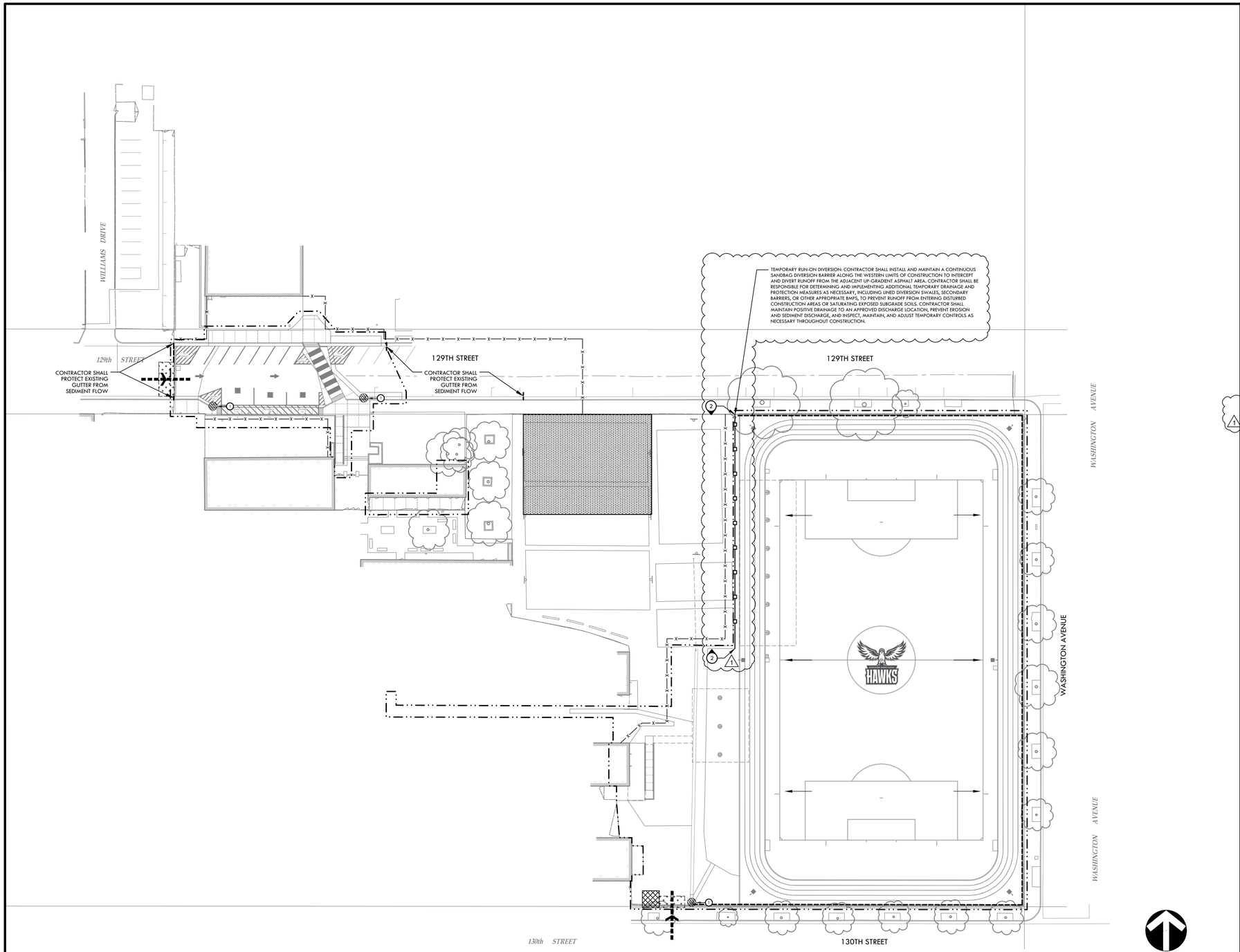
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ACCESSIBLE DETAILS

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

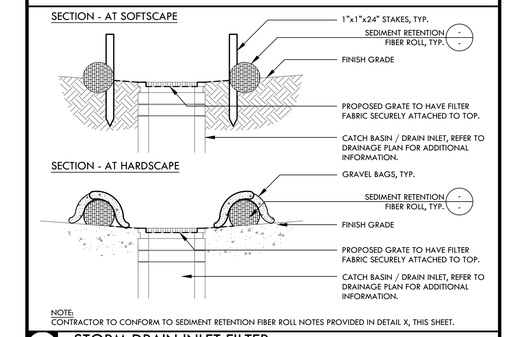


EROSION AND SEDIMENT CONTROL NOTES

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.

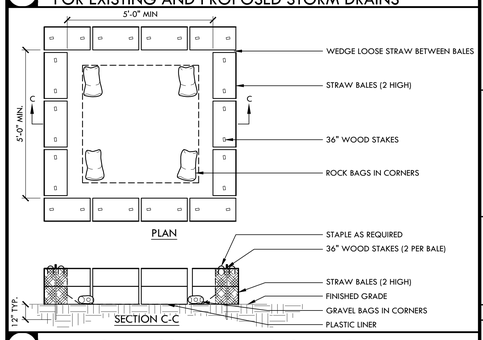
EROSION AND SEDIMENT CONTROL LEGEND

SYM	DESCRIPTION	DTL REF
	LIMIT OF WORK	
x x x	TEMPORARY CONSTRUCTION FENCING	
	PROJECT ACCESS	
	DIRECTION OF SURFACE FLOW	
	CONSTRUCTION STAGING AREA - PLACE HOLDER	
1	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 - -
2	SAND BAG	

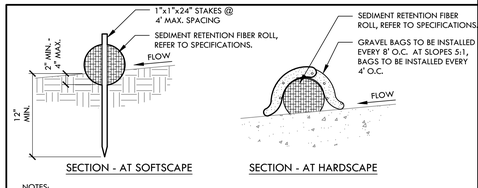


NOTE:
CONTRACTOR TO CONFORM TO SEDIMENT RETENTION FIBER ROLL NOTES PROVIDED IN DETAIL X, THIS SHEET.

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

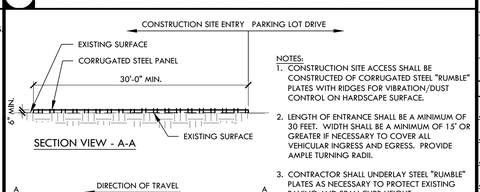


B TEMPORARY CONCRETE WASHOUT FACILITY



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 ABUTTING 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



NOTES:
1. CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF CORRUGATED STEEL "RUMBLE" PLATES WITH RIDGES FOR VIBRATION/DUST CONTROL ON HARDSCAPE SURFACE.
2. LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 30 FEET. WIDTH SHALL BE A MINIMUM OF 15' OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADII.
3. CONTRACTOR SHALL UNDERLAY STEEL "RUMBLE" PLATES AS NECESSARY TO PROTECT EXISTING PAVING AND SPAN CURB HEIGHT.
4. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL RINSING.
5. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY.
6. TEMPORARY ACCESS RUMBLE PLATES SHALL BE REMOVED AT THE END OF THE PROJECT. AFFECTED AREA SHALL BE RETURNED TO AS WAS OR BETTER CONDITION.

C RUMBLE PLATE CONSTRUCTION ENTRY — NTS

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faxs 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — DARYN CONWAY — No. C-56494 — Signature — EXPIRATION June 30, 2027 — C.I.V.I.L. — STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME
HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

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

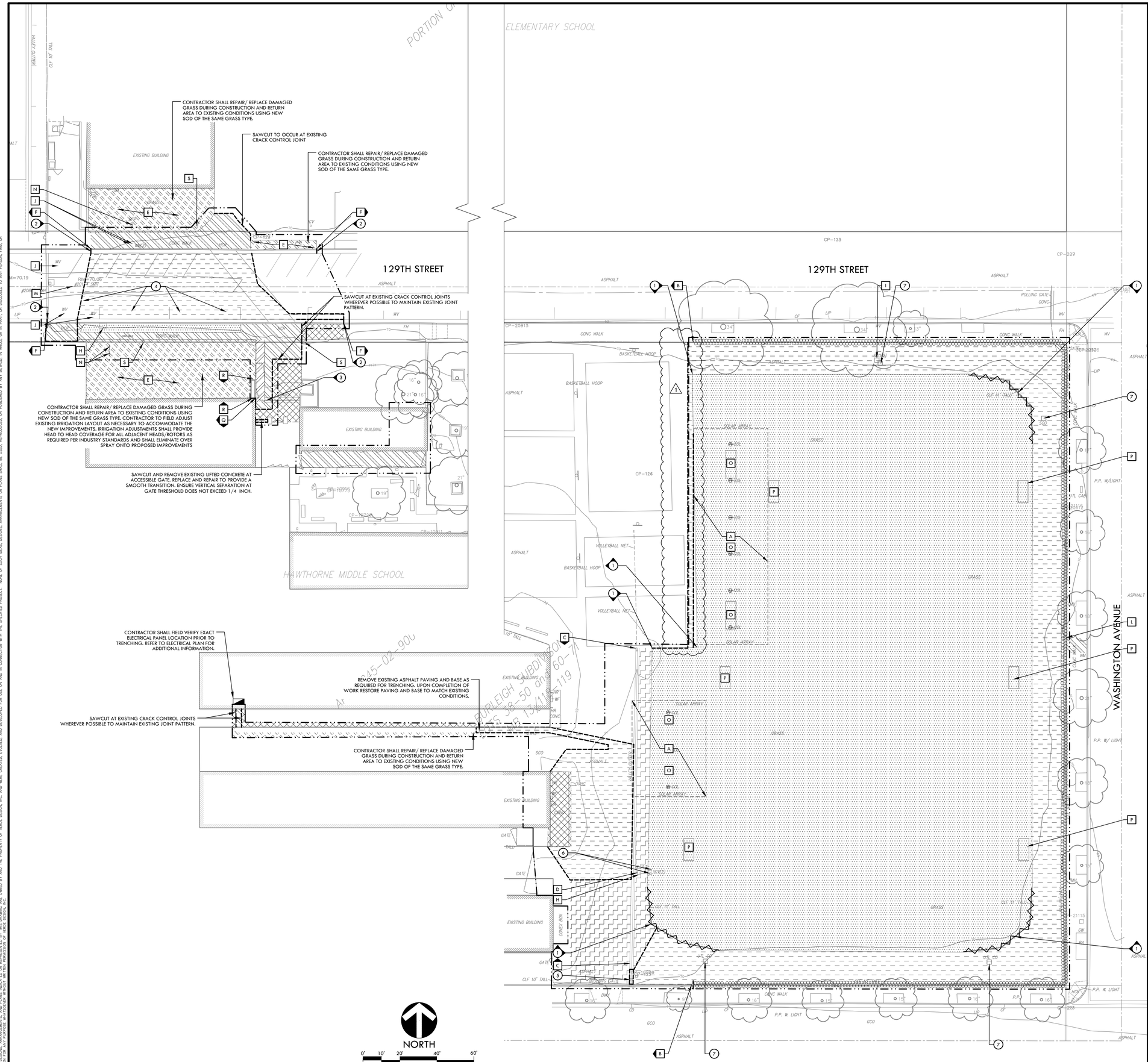
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
1	Drainage changes required for SWPPP compliance	10/21/26

DRAWN BY	CHECKED BY
AC	DC/CG
DATE ISSUED	SCALE
06/10/2026	1" = 30'-0"
PROJ. NO.	2223000
SHEET NO.	L3.0

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DRAWING NAME: Y:\Projects-R\2022\2223000 - Hawthorne MS T&F Assess\CAD_L3.0-ECP.dwg
PLOT DATE: 11-03-26 PLOTTED BY: station14



DEMOLITION NOTES

1. THE CONTRACTOR SHALL PERFORM ALL CLEARING, DEMOLITION, REMOVAL OF OBSTRUCTIONS AND SITE PREPARATIONS NECESSARY FOR THE PROPER EXECUTION OF ALL WORK CONTAINED IN THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND PROVIDE THE REQUIRED COORDINATION FOR THEIR TEMPORARY DISCONNECTION, PROTECTION, REMOVAL AND/OR STORAGE AS MAY BE REQUIRED DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT TO DETERMINE WHETHER TEMPORARY SERVICES ARE NECESSARY.
3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID SUBMITTAL TO DETERMINE THE EXACT EXTENT AND DEPTH OF SITE DEMOLITION REQUIRED AND VERIFY COMPLIANCE WITH DRAWINGS. THE DISTRICT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT. NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
5. ALL EXISTING ITEMS ARE TO REMAIN UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING, AT CONTRACTOR'S EXPENSE, ANY EXISTING ITEM DAMAGED OR DESTROYED BY CONSTRUCTION OPERATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES. THE DAMAGED ITEMS SHALL BE RESTORED TO AN "AS-WAS" OR BETTER CONDITION OR REPLACED PER THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
6. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL INSTALL SELF-SUPPORTING INTERLOCKING CHAIN-LINK TEMPORARY CONSTRUCTION FENCING TO ENCLOSE AND SECURE THE PROJECT AREA LIMIT OF WORK. THE FENCING SHALL CONTAIN PEDESTRIAN AND/OR VEHICULAR ACCESS GATES AS NECESSARY AND SHALL BE MINIMUM 6 FEET HIGH WITH A TOP AND BOTTOM RAIL WITH KNUCKLED TOP AND BOTTOM SELVAGE (NO BARBED WIRE PERMITTED). ALL FENCE SHALL INCLUDE FULL HEIGHT SCREEN SHADE CLOTH COVERING. THE CONSTRUCTION FENCING WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
7. PRIOR TO ANY DEMOLITION WORK, CONTRACTOR SHALL PROTECT ALL EXISTING PLANT MATERIAL NOT SCHEDULED FOR REMOVAL BY INSTALLING TEMPORARY 4 FOOT HIGH "BLAZE ORANGE" CONSTRUCTION SAFETY FENCING AT THE DRIPLINE OR PERIMETER. THE FENCING SHALL BE SECURED WITH DRIVEN METAL STAKES. ALL TREE PROTECTION WORK SHALL BE SUBJECT TO THE DISCRETION OF THE DISTRICT'S REPRESENTATIVE.
8. DEMOLITION SHALL INCLUDE THE REMOVAL OF ITEM AND ANY FOUNDATION OR STRUCTURAL SUPPORT RELATED TO ITEM FOR PLANT MATERIAL THIS SHALL INCLUDE STUMPS AND ROOTS OVER 2 INCHES IN DIAMETER. DISPOSAL SHALL BE OFF-SITE IN A LEGAL MANNER ACCEPTABLE TO THE DISTRICT'S REPRESENTATIVE AND IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, AND OTHER PERTINENT INFORMATION.
10. EXISTING UTILITY BOXES THAT ARE TO BE PROTECTED IN PLACE SHALL BE ADJUSTED AS NECESSARY TO MEET FLUSH WITH FINAL FINISH SURFACE ELEVATIONS.

DEMOLITION LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK / CONSTRUCTION FENCING
	SAWCUT EXISTING PAVING
	DEMOLISH AND REMOVE EXISTING FENCE, INCLUDING GATES, POSTS, FABRIC, AND FOOTINGS
	EXISTING CHAIN LINK FENCE FABRIC AND BOTTOM RAIL TO BE REMOVED AND PROTECTED FOR RE-USE AFTER NEW CONCRETE EDGEBAND IS INSTALLED. EXISTING FENCE POST AND TOP RAIL TO REMAIN, PROTECT IN PLACE, UNLESS NOTED OTHERWISE. EXISTING CONCRETE CURB UNDER FENCE TO BE DEMOLISHED AND REMOVED.
	EXISTING SURFACE VEGETATION AND TOPSOIL TO BE REMOVED PER SPECIFICATIONS. REFER TO SPECIFICATIONS FOR INFORMATION. REMOVE EXCESS SOIL FROM SITE. SEE GRADING PLAN AND SYNTHETIC TURF DETAILS. EXISTING IRRIGATION LATERAL LINES, VALVES, AND IRRIGATION HEADS TO BE REMOVED. MAINLINE TO BE PROTECTED IN PLACE.
	EXISTING ASPHALT PAVING AND BASE, TO BE DEMOLISHED AND REMOVED. CONTRACTOR TO SAWCUT ASPHALT. EDGES SHALL BE CUT CLEAN,WITHOUT CRUMBLING. ASPHALT PATCHING WILL BE NECESSARY BETWEEN SAWCUT EDGES AND PROPOSED IMPROVEMENT.
	EXISTING CONCRETE PAVING, INCLUDING BASE MATERIAL, TO BE DEMOLISHED AND REMOVED.
	EXISTING ACCESSIBLE RAMP, INCLUDING RAILING AND BASE MATERIAL, TO BE DEMOLISHED AND REMOVED.
	EXISTING CONCRETE TO REMAIN, INCLUDING STEPS, UNLESS NOTED OTHERWISE. PROTECT IN PLACE.
	CONTRACTOR SHALL PROTECT EXISTING GRASS/VEGETATION/PLANTING. IRRIGATION SHALL BE MAINTAINED DURING CONSTRUCTION.
	EXISTING PAINT STRIPING TO BE REMOVED WHERE IT EXIST, EXISTING ASPHALTIC PAVING TO REMAIN, PROTECT IN PLACE.

DEMOLITION ITEMS

ITEMS TO BE DEMOLISHED AND/OR REMOVED

1. EXISTING HEADER TO BE DEMOLISHED AND REMOVED.
2. EXISTING CURB AND GUTTER TO BE DEMOLISHED AND REMOVED.
3. EXISTING CONCRETE STEPS TO BE DEMOLISHED AND REMOVED. INSTALL NEW CONCRETE STEPS IN THE SAME LOCATION TO MATCH EXISTING.
4. EXISTING PARKING STALL STRIPING TO BE REMOVED FOR NEW ACCESSIBLE PARKING STRIPING, REFER TO MATERIALS PLAN SHEET L8.0.
5. EXISTING CATCH BASIN AND PORTION OF CONCRETE SWALE TO BE REMOVED AND REPLACED WITH NEW. NEW CATCH BASIN COVER TO BE ACCESSIBLE COMPLIANT. EXISTING ASSOCIATED APPURTENANCES TO REMAIN, PROTECT IN PLACE. REFER TO DRAINAGE PLAN SHEET L6.0.
6. EXISTING IRRIGATION CONTROL VALVE BOX TO REMOVED.
7. EXISTING QUICK COUPLING VALVES AND VALVE BOXES TO BE REMOVED. ALL FORMER QUICK COUPLER LOCATIONS TO BE CAPPED.

ITEMS TO BE PROTECTED OR RELOCATED

- A EXISTING PHOTOVOLTAIC STRUCTURE, INCLUDING ASSOCIATED APPURTENANCES TO REMAIN, PROTECT IN PLACE.
- B EXISTING CHAIN LINK FENCE, GATE, POST, INCLUDING EDGEBAND TO REMAIN. PROTECT IN PLACE, UNLESS NOTED OTHERWISE.
- C EXISTING CONCRETE SWALE TO REMAIN, PROTECT IN PLACE.
- D PROTECT EXISTING IRRIGATION MAINLINE P.O.C. IN PLACE. CONNECT THE EXISTING MAINLINE TO THE NEW QUICK COUPLING VALVE SYSTEM SERVING THE SYNTHETIC TURF FIELD. REFER TO THE IRRIGATION PLAN SHEET I.9.0.
- E EXISTING PLANTER AREA TO REMAIN, PROTECT IN PLACE.
- F EXISTING CURB AND GUTTER TO REMAIN, PROTECT IN PLACE, UNLESS NOTED OTHERWISE.
- G EXISTING SIGN TO REMAIN, PROTECT IN PLACE.
- H EXISTING WATER UTILITY VAULT TO REMAIN, PROTECT IN PLACE. PRIOR TO FINAL FINISH SURFACE, BOX TO BE BROUGHT TO FINAL FINISH GRADE. REPLACE VALVE BOX WITH NEW CONCRETE VALVE BOX, REFER TO MATERIALS PLAN SHEET L8.0.
- I EXISTING CLEAN OUT BOX TO REMAIN, PROTECT IN PLACE. PRIOR TO FINAL FINISH SURFACE, BOX TO BE BROUGHT TO FINAL FINISH GRADE.
- J EXISTING WATER BOX TO REMAIN, PROTECT IN PLACE. PRIOR TO FINAL FINISH SURFACE, BOX TO BE BROUGHT TO FINAL FINISH GRADE.
- L LOCATE LIGHT POST CENTERED BETWEEN THE EXISTING FENCE POSTS AND ENSURE PROPER ALIGNMENT. REFER MATERIALS PLAN SHEET L8.0 AND ELECTRICAL PLAN SHEET E1.0 FOR LIGHT POST LOCATION.
- M EXISTING MANHOLE TO REMAIN, PROTECT IN PLACE.
- N EXISTING BACKFLOW PREVENTER TO REMAIN, PROTECT IN PLACE.
- O EXISTING PORTABLE BLEACHERS TO BE SALVAGED AND TURNED OVER TO THE DISTRICT.
- P EXISTING PORTABLE SOCCER GOAL(S) TO BE SALVAGED AND TURNED OVER TO THE DISTRICT.
- Q EXISTING BUILDING TO REMAIN, PROTECT IN PLACE.
- R EXISTING RAISED PLANTER TO REMAIN, PROTECT IN PLACE.
- S EXISTING IRRIGATION CONTROL VALVE BOX TO REMAIN, PROTECT IN PLACE.

VERDE DESIGN
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STAMP

REGISTERED PROFESSIONAL ENGINEER — DAVID CONNELL — No. C-56494 — Signature — EXPIRATION June 30, 2027 — CIVIL — STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
DEMOLITION 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
1	Paving changes required for SWPPP compliance	10/21/26

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06/10/2026	1"=20'-0"

PROJ. NO. 2223000

SHEET NO. L4.0

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DRAWING NAME: Y:\Projects-R\2022\2223000 – Hawthorne MS T&F Assess\CAD_L4.0-DEM.dwg
PLOT DATE: 11-03-26 PLOTTED BY: station14

GRADING NOTES

1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: THIS TOPOGRAPHIC SURVEY WAS PROVIDED BY IMEG , (TELEPHONE): (909) 477-6915 (ADDRESS): 901 VIA PIEMONTE, ONTARIO, CA 91764.
2. 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.
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4. 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 AWAITING RESPONSE.
5. ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT.

GRADING LEGEND

SYM	DESCRIPTION	SYM	DESCRIPTION
70	PROPOSED CONTOUR	R	RIDGE LINE
FE 70.00	PROPOSED FINISH GRADE ELEVATION OF EDGEBAND		CENTER LINE OF SWALE
FG 70.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE		CONFORM TO EXISTING GRADE
FT 70.00	PROPOSED ELEVATION OF TOP OF SYNTHETIC TURF INFILL		FLOW DIRECTION IN SOFTSCAPE - PLACE HOLDER
FS 70.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE	69	EXISTING CONTOUR
FSR 70.00	PROPOSED FINISH SURFACE ELEVATION OF THE RAMP	69.18	EXISTING ELEVATION
FL 70.00	FLOW LINE OF SWALE	G8 G8 G8	GRADE BREAK LINE
RIM 70.00	LOW POINT/ RIM ELEVATION OF DRAIN		LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
EX +/- 70.00	EXISTING ELEVATION TO CONFORM TO		
TC 70.00	PROPOSED ELEVATION OF TOP OF CURB		

ENLARGEMENT A

ENLARGEMENT B

MATCHLINE - SEE BELOW LEFT

MATCHLINE - SEE ABOVE

NORTH

0' 5' 10' 20' 30'

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 = 5556 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

129TH STREET

130TH STREET

WASHINGTON AVENUE

ENLARGEMENT C

NORTH

0' 10' 20' 40' 60'

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Riverside, CA 92501
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fax: 408.985.7260
www.VerdeDesignInc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — DAVIN COMBES — No. C-56494 — Signature — EXPIRATION June 30, 2027 — CIVIL — STATE OF CALIFORNIA

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

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XH	DC/CG
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06/10/2026	PER PLAN
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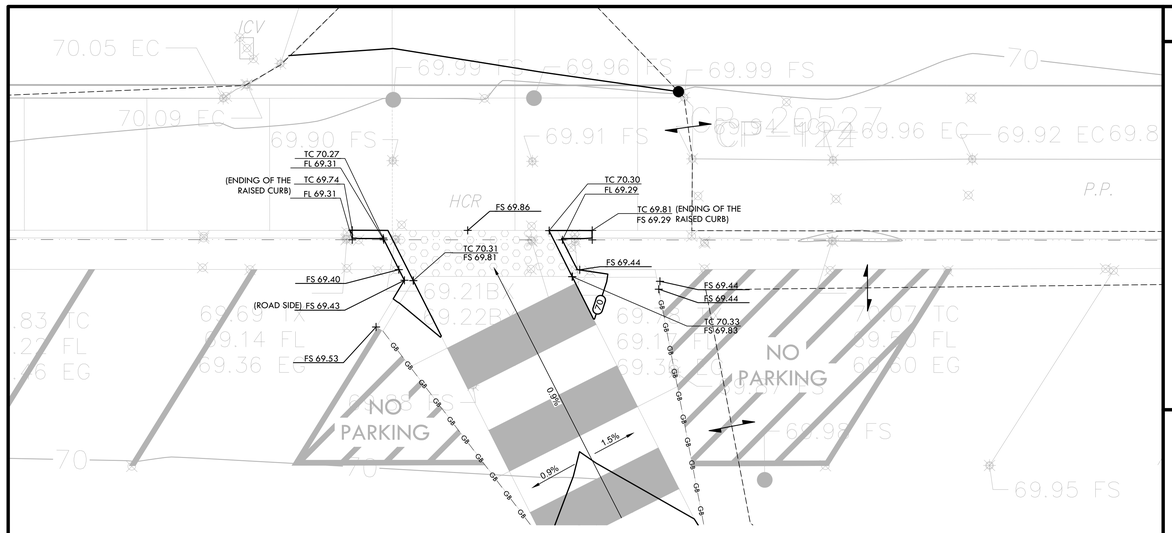
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GRADING NOTES

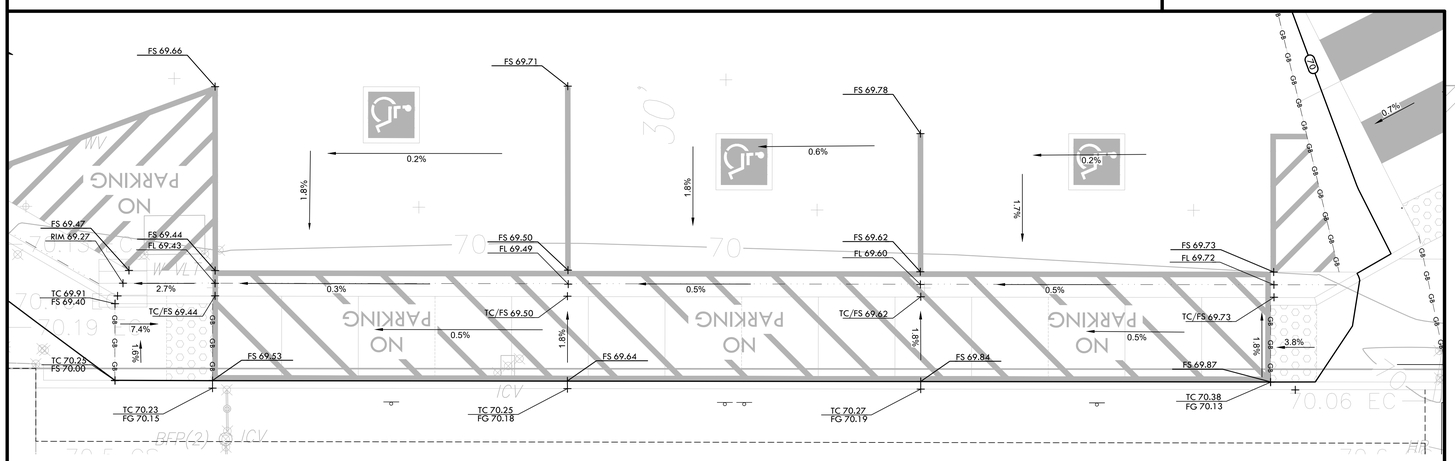
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GRADING LEGEND

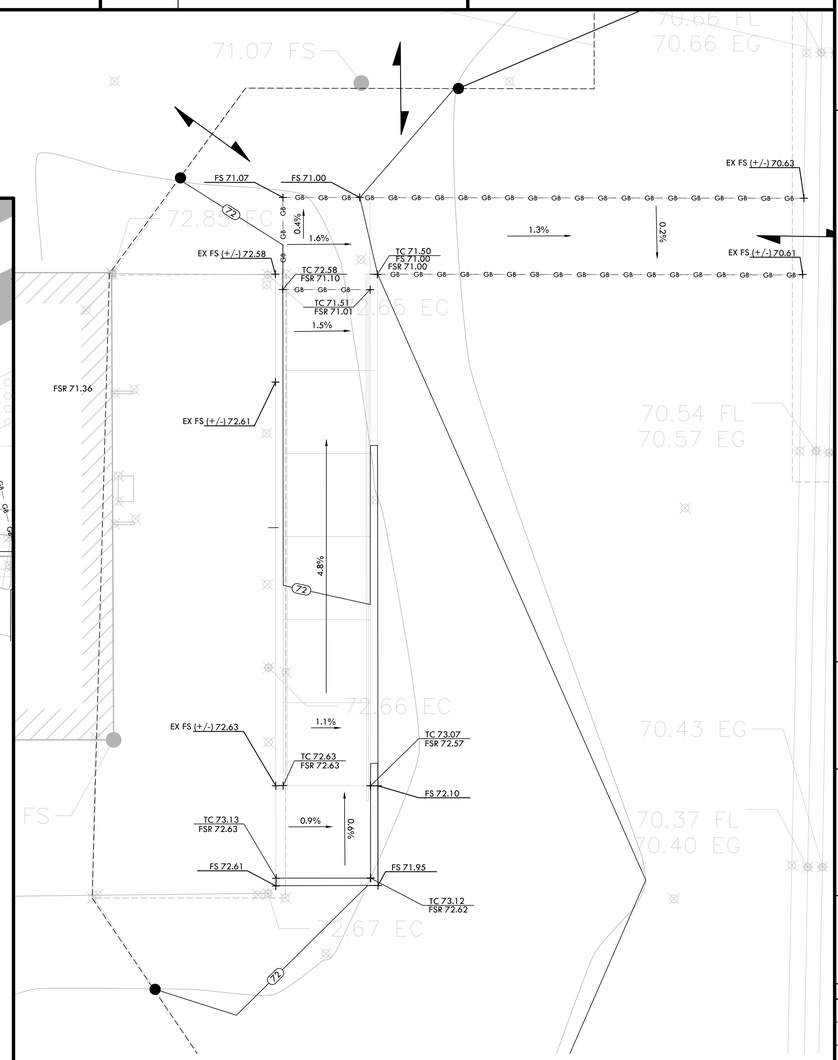
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EX +/- 70.00	EXISTING ELEVATION TO CONFORM TO		
TC 70.00	PROPOSED ELEVATION OF TOP OF CURB		



ENLARGEMENT A



ENLARGEMENT B



ENLARGEMENT C

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DRAWING NAME: Y:\Projects-R\2022\2223000 – Hawthorne MS T&F Assess\CAD_LS\5.0-GRD_030.dwg
PLOT DATE: 09-01-26 PLOTTED BY: station14

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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REGISTERED PROFESSIONAL ENGINEER — DAVID CLARK — C-56494 — Exp. June 30, 2027 — CIVIL — STATE OF CALIFORNIA

LICENSED ARCHITECT — DAVID CLARK — No. C-23405 — Exp. 03-31-27 — STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
GRADING PLAN

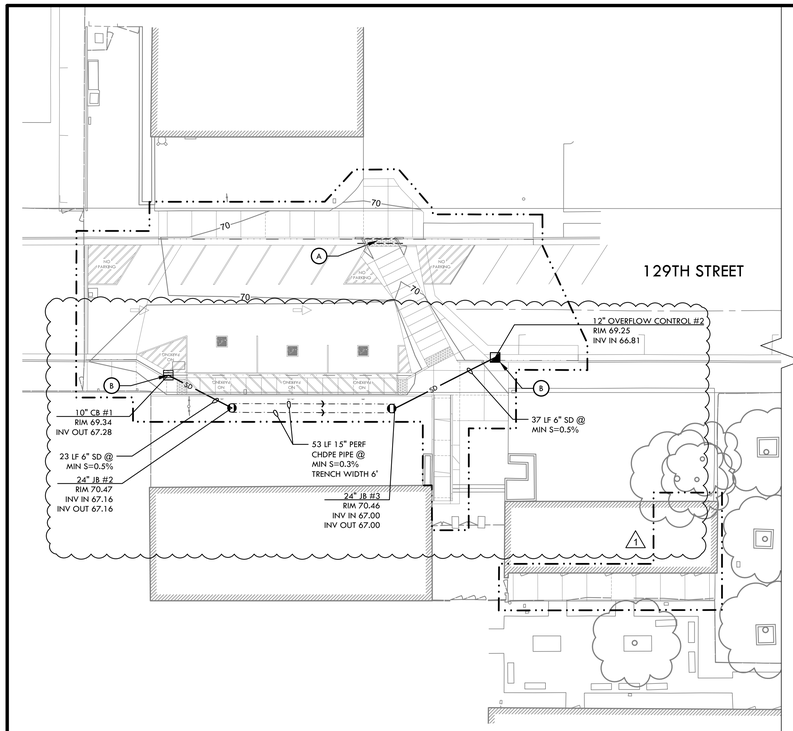
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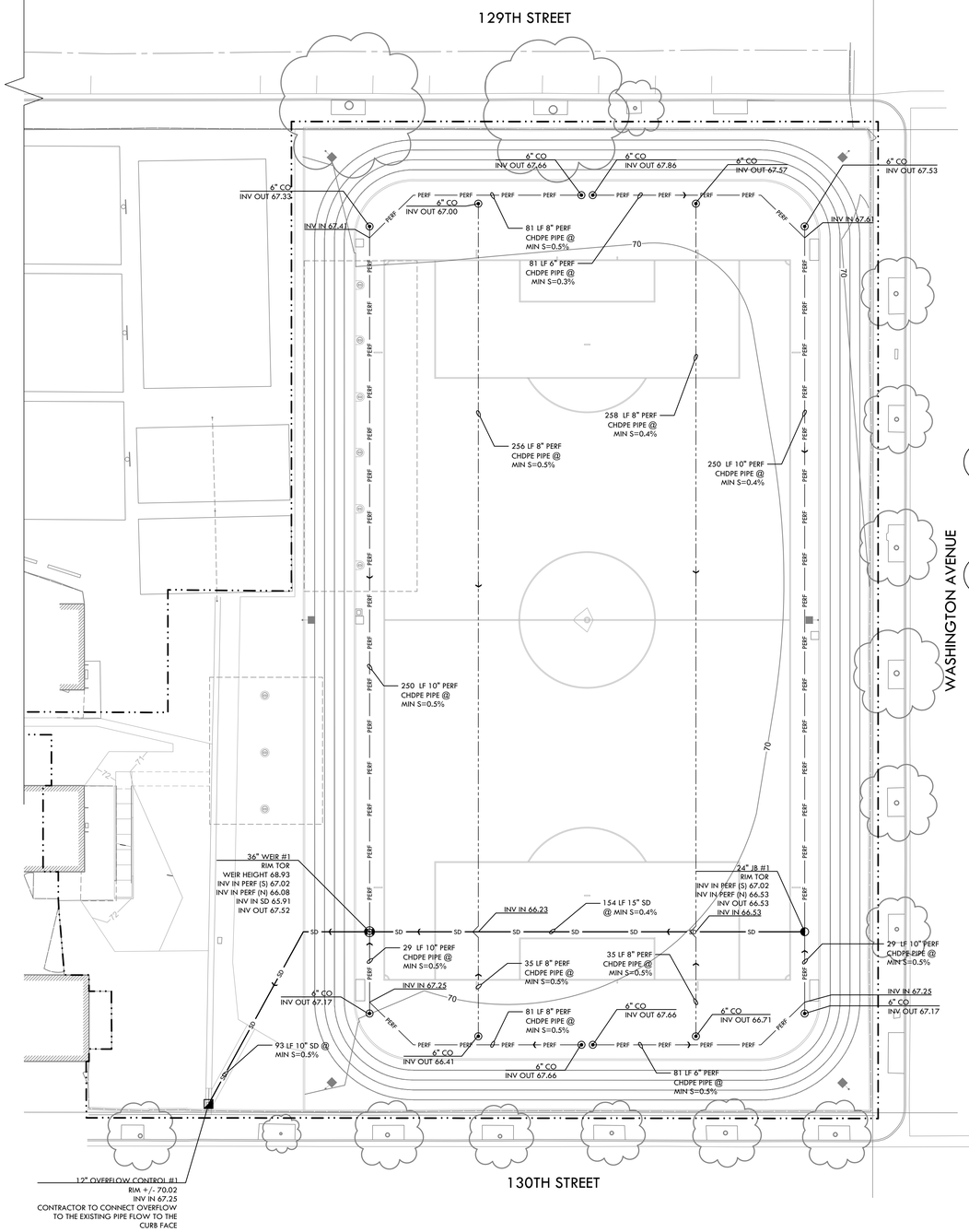
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1		
2		
3		
4		
5		
6		

DRAWN BY: XH	CHECKED BY: DC/CG
DATE ISSUED: 06/10/2026	SCALE: PER PLAN
PROJ. NO.: 2223000	
SHEET NO.: L5.1	





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 UNDER GROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.
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" ENVELOPE OUTSIDE AND INSIDE DIAMETER OF PIPE.
7. PRIOR TO ALL DRAINAGE AND UTILITY WORK, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL POTENTIAL DRAINAGE CONNECTIONS AND EXISTING UTILITY BY POTHOLING. IN ADDITION, ALL DOWNSTREAM CONNECTIONS TO EXISTING STRUCTURES SHALL BE THE START OF THESE OPERATIONS, AND GRADES SHALL BE VERIFIED.
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)
3	CONTROL WEIR AT JUNCTION BOX (J / D1.0)
1	JUNCTION BOX AT SOFTSCAPE, SIZE PER PLAN (C / D1.1)
SD	SOLID WALL STORM DRAIN (A / D1.0)
	PERFORATED SUBDRAIN TYPE 1 (G / D1.0)
PERF	PERFORATED SUBDRAIN (F / D1.0)
1	PERFORATED SUBDRAIN IN SOFT SCAPE (B / D1.1)
A	DRAINAGE CULVERT UNDER RAISED CROSS WALK (K / D1.0)
B	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

NORTH

0' 10' 20' 40' 60'

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SPORT PLANNING & DESIGN
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faxx 408.985.7260
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STAMP

REGISTERED PROFESSIONAL ENGINEER
DAVID CHRISTY COMBS
No. C - 56494
Signature
EXPIRATION June 30, 2027
CIVIL
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
DRAINAGE PLAN

PROJECT NAME
HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

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

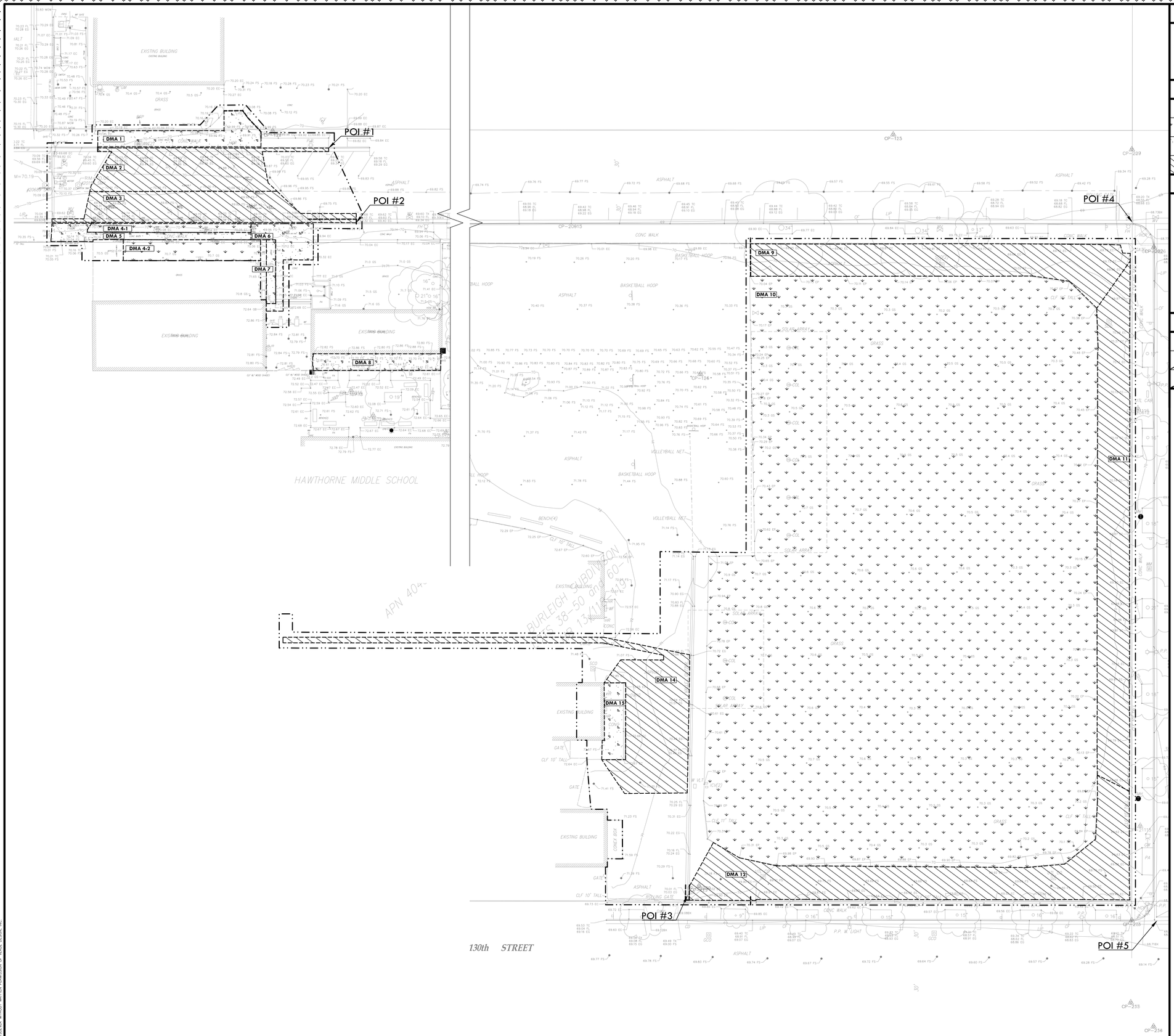
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
1	Drainage changes required for SWPPP compliance	10/21/26

DRAWN BY	CHECKED BY
XH	DC/CG
DATE ISSUED	SCALE
06/10/2026	1"=20'-0"
PROJ. NO.	2223000
SHEET NO.	L6.0

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DRAWING NAME: Y:\Projects-RI\2022\2223000 – Hawthorne MS T&F Assess\CAD_L6.0-DRN.dwg
PLOT DATE: 11-04-26 PLOTTED BY: station14



STORM WATER CONTROL NOTES

1. REFER TO POST-CONSTRUCTION STORMWATER QUALITY PLAN FOR INFORMATION OF DMA'S AND BMP'S.
2. REFER TO EXISTING CONDITIONS PLANS FOR MORE INFORMATION OF EXISTING NATURAL HYDROLOGIC FEATURES, DRAINAGE, UTILITIES AND EASEMENTS.
3. REFER TO DRAINAGE AND UTILITY PLANS FOR MORE INFORMATION OF PROPOSED DRAINAGE DESIGN.

STORM WATER CONTROL LEGEND

SYM	IMPERVIOUS / PERVIOUS	DESCRIPTION	RUNOFF COEFFICIENT (C)
	PERVIOUS	LANDSCAPING	0.30
	IMPERVIOUS	CONCRETE PAVING	0.95
	IMPERVIOUS	ASPHALT	0.95

DRAINAGE MANAGEMENT AREAS

DMA #	AREA (SQFT)	CN	Type of Surface	DMA Type	Connects to
1	890	98	Impervious	Drains to Curb & Gutter	POI#1
2	2094	98	Impervious	Drains to Curb & Gutter	POI#1
3	1962	98	Impervious	Drains to Curb & Gutter	POI#2
4-1	403	39	Pervious	Drains to Curb & Gutter	POI#2
4-2	801	39	Pervious	Drains to Curb & Gutter	POI#2
5	522	98	Impervious	Drains to Curb & Gutter	POI#2
6	621	98	Impervious	Drains to Curb & Gutter	POI#2
7	168	98	Impervious	Drains to Curb & Gutter	POI#2
8	616	98	Impervious	Drains to planter	–
9	3652	98	Impervious	Drains to Curb & Gutter	POI#4
10	60460	39	Pervious	Drains to Catch Basin	POI#3
11	4514	98	Impervious	Drains to Curb & Gutter	POI#4
12	5167	98	Impervious	Drains to Curb & Gutter	POI#5
13	472	98	Impervious	Drains to Catch Basin	POI#3
14	3210	98	Impervious	Drains to Catch Basin	POI#3

LEGEND

SYM	DESCRIPTION
	DMA LIMITS
	PROJECT LIMITS

NORTH

0' 10' 20' 40' 80'

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STAMP

REGISTERED PROFESSIONAL ENGINEER
DARVIN COMBES
No. C-56494
Signature
EXPIRATION June 30, 2027
CIVIL
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
STORMWATER CONTROL PLAN PRE- CONSTRUCTION

PROJECT NAME
HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

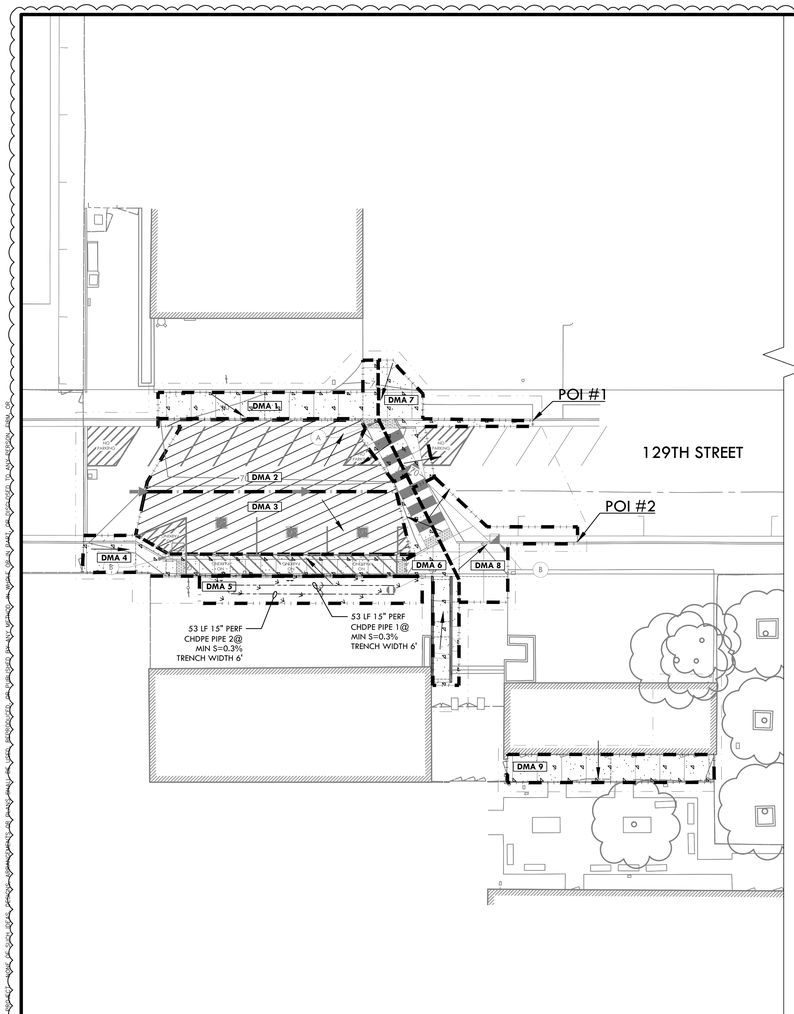
PROJECT ADDRESS
4366 W 129TH ST, HAWTHORNE, CA 90250

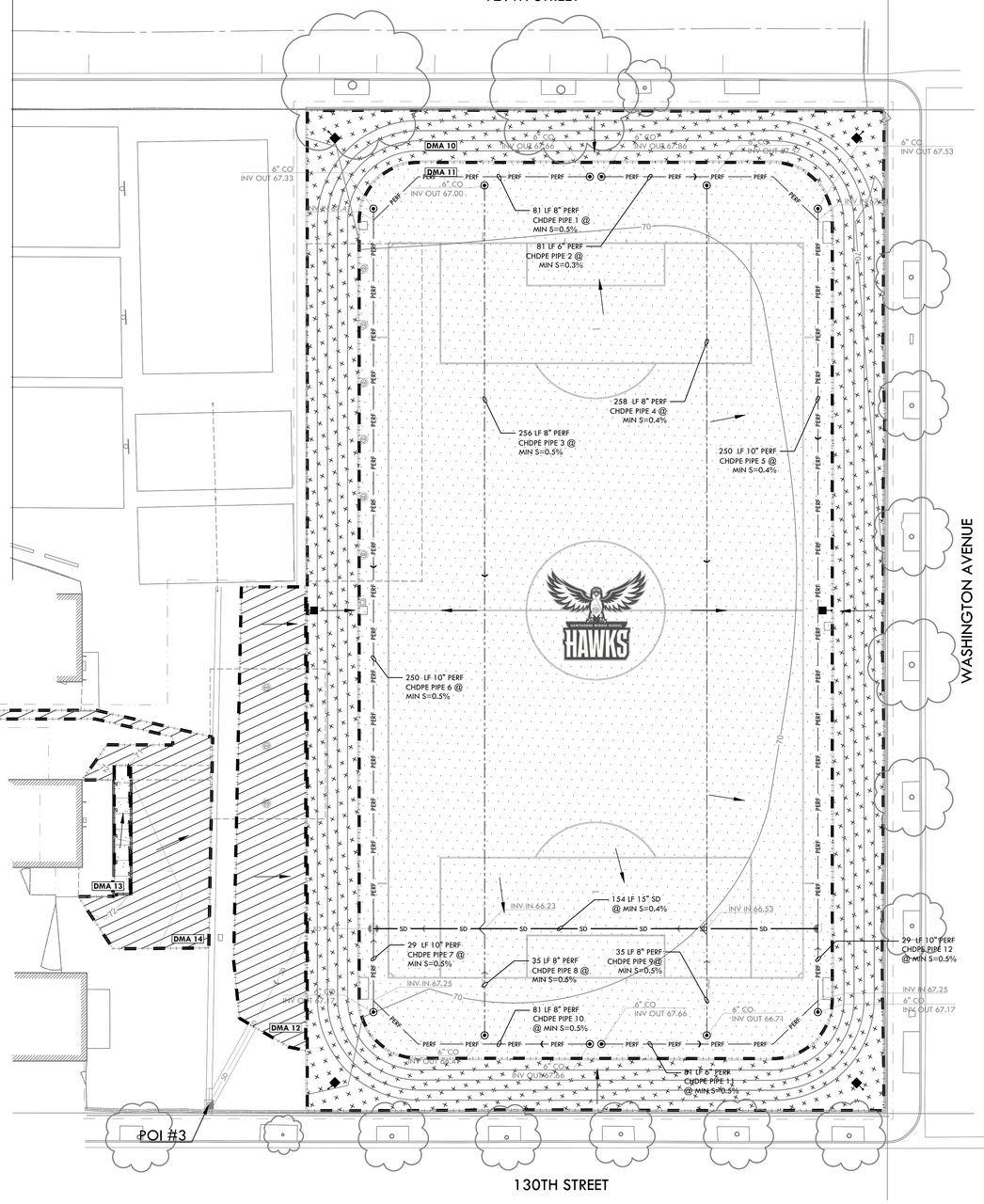
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
1	SWPPP Calculations	10/21/26

DRAWN BY: XH	CHECKED BY: DC/CG
DATE ISSUED: 06/10/2026	SCALE:
PROJ. NO.: 2223000	
SHEET NO.: L6.1	

DRAWING NAME: Y:\Projects-R\2022\223000 - Hawthorne MS T&F Assess\Stormwater\SWCP CAD\SWCP-PRE.dwg
PLOT DATE: 11-04-26 PLOTTED BY: stylon14





STORM WATER CONTROL NOTES

1. REFER TO POST-CONSTRUCTION STORMWATER QUALITY PLAN FOR INFORMATION OF DMA'S AND BMP'S.
2. REFER TO EXISTING CONDITIONS PLANS FOR MORE INFORMATION OF EXISTING NATURAL HYDROLOGIC FEATURES, DRAINAGE, UTILITIES AND EASEMENTS.
3. REFER TO DRAINAGE AND UTILITY PLANS FOR MORE INFORMATION OF PROPOSED DRAINAGE DESIGN.
4. SEE ATTACHMENT F FOR DETENTION VOLUME CALCULATIONS WITHIN PERFORATED PIPE TRENCHES FOR ASSOCIATED POI.

STORM WATER CONTROL LEGEND

SYM	IMPERVIOUS / PERVIOUS	DESCRIPTION	RUNOFF COEFFICIENT (C)
	PERVIOUS	LANDSCAPING	0.30
	PERVIOUS	SYNTHETIC TURF	0.75
	IMPERVIOUS	ALL WEATHER TRACK SURFACE	0.95
	IMPERVIOUS	CONCRETE PAVING	0.95
	IMPERVIOUS	ASPHALT	0.85

DRAINAGE MANAGEMENT AREAS

DMA	AREA	CN	TYPE OF SURFACE	DMA Type	Connects to
1	805	98	HARDSCAPE	Discharge to Catch Basin	POI #1
2	1640	98	HARDSCAPE	Discharge to Catch Basin	POI #1
3	1726	98	HARDSCAPE	Discharge to Infiltration Basin	BASIN #1*
4	870	98	HARDSCAPE	Discharge to Infiltration Basin	BASIN #1*
5	647	39	LANDSCAPE	Discharge to Infiltration Basin	BASIN #1*
6	611	98	HARDSCAPE	Discharge to Infiltration Basin	BASIN #1*
7	537	98	HARDSCAPE	Discharge to Catch Basin	POI #1
8	791	98	HARDSCAPE	Discharge to Infiltration Basin	POI #2
9	616	98	HARDSCAPE	Discharge to Street	POI #4
10	18625	98	HARDSCAPE	Discharge to Infiltration Basin	BASIN #2*
11	50586	98	SYNTHETIC TURF	Discharge to Infiltration Basin	BASIN #2*
12	3692	98	HARDSCAPE	Discharge to Infiltration Basin	BASIN #2*
13	254	98	HARDSCAPE	Discharge to Catch Basin	POI #3
14	2595	98	HARDSCAPE	Discharge to Catch Basin	POI #3

* Basin #1 — 1 perforated drain lines with associated 3-foot-wide Drain rock trenches underneath the natural turf

Basin #2 — perforated drain lines with associated 3-foot-wide Drain rock trenches underneath the synthetic turf

LEGEND

SYM	DESCRIPTION
	DMA LIMITS
	PROJECT LIMITS
	FLOW DIRECTION

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REGISTERED PROFESSIONAL ENGINEER — DAYIN CORREA — No. C-56494 — Signature — EXPIRATION June 30, 2027 — C.I.V.I.L. — STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
STORMWATER CONTROL PLAN POST- CONSTRUCTION

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
1	SWPPP Design and Calculation	10/21/26

DRAWN BY	CHECKED BY
AC/RC	DC/CG
DATE ISSUED	SCALE
06/10/2026	1"=20'-0"

PROJ. NO. 2223000

SHEET NO. L6.2

NORTH
0' 10' 20' 40' 60'

POST-CONSTRUCTION DRAINAGE MANAGEMENT AREA SUMMARY - RUNOFF VOLUME AT PARKING LOT NORTH POI#1

85TH PERCENTILE RAINFALL DEPTH (P): 0.87 INCH Source: Los Angeles Civic Center

CN 98

SOIL RETENTION S 0.204082

INITIAL ABSTRACTION Ia 0.0408163

SINCE INITIAL ABSTRACTION IS SMALLER THAN RAIN FALL DEPTH, RUNOFF DEPTH >0

RUNOFF DEPTH (Q) Q=((P−Ia)*(P−Ia))/(P-Ia+S)

DMA #	Area	CN	Runoff Depth (inch)	Runoff Volume (cf)	TYPE OF SURFACE	Disconnected
1	805	98	0.665	44.64	HARDSCAPE	N
2	1640	98	0.665	90.94	HARDSCAPE	N
7	537	98	0.665	29.78	HARDSCAPE	N
Total Runoff Volume(B)	2982			**165.35**	CF (A)	

Existing Runoff Volume at Parking North = Post Construction Runoff Volume at Corridor

POST-CONSTRUCTION DRAINAGE MANAGEMENT AREA SUMMARY - RUNOFF VOLUME AT PARKING LOT SOUTH POI#2

85TH PERCENTILE RAINFALL DEPTH (P): 0.87 INCH Source: Los Angeles Civic Center

CN 98

SOIL RETENTION S 1139.425

INITIAL ABSTRACTION Ia 227.88506

SINCE INITIAL ABSTRACTION IS SMALLER THAN RAIN FALL DEPTH, RUNOFF DEPTH >0

RUNOFF DEPTH (Q) Q=((P−Ia)*(P−Ia))/(P-Ia+S)

DMA #	Area	CN	Runoff Depth (inch)	Runoff Volume (cf)	TYPE OF SURFACE	Disconnected
3	3207	98	0.665	177.83	HARDSCAPE	Y
4	870	98	0.665	48.24	HARDSCAPE	Y
6	611	98	0.665	33.88	HARDSCAPE	Y
8	791	98	0.665	43.86	HARDSCAPE	N
Total Runoff Volume(B)	5479			**259.95**	CF (A)	

Existing Runoff Volume at Parking **27.04** CF (B)

LANDSCAPE RUNOFF VOLUME

CN 39

SOIL RETENTION S 15.64103

INITIAL ABSTRACTION Ia 3.1282051

SINCE INITIAL ABSTRACTION IS GREATER THAN RAIN FALL DEPTH, RUNOFF DEPTH =0

DMA #	Area	CN	Runoff Depth (inch)	Runoff Volume (cf)
5	647	39	0.000	0.00
Total	647		0.000 CF (C)	

TOTAL VOLUME TO STORE IN BASIN 1 **(A)-(B)+(C)** **232.91 cf**

POST-CONSTRUCTION DRAINAGE MANAGEMENT AREA SUMMARY - RUNOFF VOLUME AT CORRIDOR

85TH PERCENTILE RAINFALL DEPTH (P): 0.87 INCH Source: Los Angeles Civic Center

CN 98

SOIL RETENTION S 1139.425

INITIAL ABSTRACTION Ia 227.88506

SINCE INITIAL ABSTRACTION IS SMALLER THAN RAIN FALL DEPTH, RUNOFF DEPTH >0

RUNOFF DEPTH (Q) Q=((P−Ia)*(P−Ia))/(P-Ia+S)

DMA #	Area	CN	Runoff Depth (inch)	Runoff Volume (cf)	TYPE OF SURFACE	Disconnected
9	616	98	0.665	34.16	HARDSCAPE	N

Existing Runoff Volume at Corridor = Post Construction Runoff Volume at Corridor

POI#3

SYNTHETIC TURF RUNOFF VOLUME

CN 98

SOIL RETENTION S 0.204082

INITIAL ABSTRACTION Ia 0.0408163

SINCE INITIAL ABSTRACTION IS SMALLER THAN RAIN FALL DEPTH, RUNOFF DEPTH >0

RUNOFF DEPTH (Q) Q=((P−Ia)*(P−Ia))/(P-Ia+S)

DMA#	Area	CN	Runoff Depth (inch)	Runoff Volume (cf)
11	50586	98	0.665	2805.04
Total Runoff Volume	50,586			2805.04

Porous Pavement credit (per SMART) 1,065.91 cf

Runoff Volume to be stored on site (A) **2805.04-1065.91=** **1739.13 cf**

HARDSCAPE RUNOFF VOLUME

CN 98

PER CALCULATION UNDER SYNTHTIC TURF WITH THE SAME CN VALUE , RUNOFF DEPTH >0

DMA #	Area	CN	Runoff Depth (inch)	Runoff Volume (cf)	TYPE OF SURFACE	Disconnected
10	18625	98	0.665	1032.77	HARDSCAPE	Y
12	3692	98	0.665	204.72	HARDSCAPE	Y
Total Runoff Volume(B)	22317			1237.50	(B)	

Total Runoff Volume to be stored in BASIN 1(=A+B) **1739.13+1237.50 =** **2976.63 cf**

POST-CONSTRUCTION DRAINAGE MANAGEMENT AREA SUMMARY - RUNOFF VOLUME AT ASPHALT SLOPE

HARDSCAPE RUNOFF VOLUME

85TH PERCENTILE RAINFALL DEPTH (P): 0.87 INCH Source: Los Angeles Civic Center

SOIL RETENTION S 1139.425

INITIAL ABSTRACTION Ia 227.88506

CN 98

SINCE INITIAL ABSTRACTION IS SMALLER THAN RAIN FALL DEPTH, RUNOFF DEPTH >0

DMA #	Area	CN	Runoff Depth (inch)	Runoff Volume (cf)	TYPE OF SURFACE	Disconnected
13	254	98	0.665	14.08		
14	2595	98	0.665	143.90	HARDSCAPE	
Total Runoff Volume(B)	2849			157.98		

Existing Runoff Volume at ASPALT SLOPE > Post Construction Runoff Volume at ASPALT SLOPE

POI 2 POST-CONSTRUCTION DRAINAGE MANAGEMENT AREA SUMMARY - RUNOFF VOLUME STORAGE - BASIN #1

Storage in Perf pipes 6"

Basin No.	Pipe number refer to L6.4	Pipe Length[1] [L] (ft)	Pipe Diameter[1] [D] (ft)	Pipe Slope[1] [S] (%)	Pipe Angle[2] (Degrees)	h1[3][water level in pipe] (ft)	Invert Elevation at High Point	Invert Elevation at tie-in[1]	Top of Weir Elevation[5]	Top of Pipe at the High Point	Length of pipe -full	Length of pipe - partially full	length of pipe -Empty	Volume (full portion)	Volume [Pipe tilted] from site4(cf)	Trench Width[6] [w](ft)	R[bottom of pipe to bottom of trench] (ft)	H[7] [bottom of pipe to water table] (f)	L[6][ROCK] (lf)	Volume[9] [ROCK] - triangle(cf)	Volume[9] [ROCK] - trapezoid(cf)	Total Storage [Pipe + Rock Void] (cf)
Basin #1	1	53	1.25	0.003	0.17	1.25	67.16	67	69.25	68.41	53	0	0	65.01	0.00	3	0.25	2.25	53.00	N/A	111.92	176.93
Basin #1	2	53	1.25	0.003	0.17	1.25	67.16	67	69.25	68.41	53	0	0	65.01	0.00	3	0.25	2.25	53.00	N/A	111.92	176.93

Volume Provided	354
Volume Required	150
Storage Surplus	204

Check Drawdown time
Basin 1

Infiltration capacity = Basin area * infiltration Rate / 12 * 72 hours / 1.3 (factor of safety)
Storage Volume 353.9 cf
Infiltration capacity 1188.83077 cf
Infiltration Capacity > Storage Volume

POI 3,4 POST-CONSTRUCTION DRAINAGE MANAGEMENT AREA SUMMARY - RUNOFF VOLUME STORAGE - BASIN #2

Storage in Perf pipes 6"

Basin No.	Pipe number refer to L6.4	Pipe Length[1] [L] (ft)	Pipe Diameter[1] [D] (ft)	Pipe Slope[1] [S] (%)	Pipe Angle[2] (Degrees)	h1[3][water level in pipe] (ft)	Invert Elevation at High Point	Invert Elevation at tie-in[1]	Top of Weir Elevation[5]	Top of Pipe at the High Point	Length of pipe -full	Length of pipe - partially full	length of pipe - Empty	Volume (full portion)	Volume [Pipe tilted] from site4(cf)	Trench Width[6] [w](ft)	R[bottom of pipe to bottom of trench] (ft)	H[7] [bottom of pipe to water table] (f)	L[6][ROCK] (lf)	Volume[9] [ROCK] - triangle(cf)	Volume[9] [ROCK] - trapezoid(cf)	Total Storage [Pipe + Rock Void] (cf)
Basin #2	2	81	0.50	0.003	0.18	0.50	67.86	67.61	68.93	68.36	81	0	0	15.90	0.00	3	0.25	1.32	81.00	N/A	117.33	133.23
Basin #2	11	81	0.50	0.005	0.29	0.50	67.66	67.25	68.93	68.16	81	0	0	15.90	0.00	3	0.25	1.68	81.00	N/A	141.15	157.04
																					Total Volume Provided (CF)	290

Storage in Perf pipes 8"

Basin No.	Pipe number refer to L6.4	Pipe Length[1] [L] (ft)	Pipe Diameter[1] [D] (ft)	Pipe Slope[1] [S] (%)	Pipe Angle[2] (Degrees)	h1[3][water level in pipe] (ft)	Invert Elevation at High Point	Invert Elevation at tie-in[1]	Top of Weir Elevation[5]	Top of Pipe at the High Point	Length of pipe -full	Length of pipe - partially full	length of pipe - Empty	Volume (full portion)	Volume [Pipe tilted] from site4(cf)	Trench Width[6] [w](ft)	R[bottom of pipe to bottom of trench] (ft)	H[7] [bottom of pipe to water table] (f)	L[6][ROCK] (lf)	Volume[9] [ROCK] - triangle(cf)	Volume[9] [ROCK] (cf)	Total Storage [Pipe + Rock Void] (cf)
Basin #2	1	81	0.67	0.003	0.18	0.67	67.66	67.41	68.93	68.33	81	0	0	28.26	0.00	3	0.25	1.52	81.00	N/A	130.02	158.28
Basin #2	3	256	0.67	0.003	0.17	0.67	67.00	66.23	68.93	67.67	256	0	0	89.32	0.00	3	0.25	2.7	256.00	N/A	658.21	747.53
Basin #2	4	258	0.67	0.004	0.23	0.67	67.57	66.53	68.93	68.24	258	0	0	90.01	0.00	3	0.25	2.4	258.00	N/A	545.51	635.53
Basin #2	8	35	0.67	0.005	0.29	0.67	66.41	66.23	68.93	67.08	35	0	0	12.21	0.00	3	0.25	2.7	35.00	N/A	100.83	113.04
Basin #2	9	35	0.67	0.005	0.29	0.67	66.71	66.53	68.93	67.38	35	0	0	12.21	0.00	3	0.25	2.4	35.00	N/A	89.81	102.02
Basin #2	10	81	0.67	0.005	0.29	0.67	67.66	67.25	68.93	68.33	81	0	0	28.26	0.00	3	0.25	1.68	81.00	N/A	136.82	165.08
																					Total Volume Provided (CF)	1,921

Storage in Perf pipes 10"

Basin No.	Pipe number refer to L6.4	Pipe Length[1] [L] (ft)	Pipe Diameter[1] [D] (ft)	Pipe Slope[1] [S] (%)	Pipe Angle[2] (Degrees)	h1[3][water level in pipe] (ft)	Invert Elevation at High Point	Invert Elevation at tie-in[1]	Top of Weir Elevation[5]	Top of Pipe at the High Point	Length of pipe -full	Length of pipe - partially full	length of pipe - Empty	Volume (full portion)	Volume [Pipe tilted] from site4(cf)	Trench Width[6] [w](ft)	R[bottom of pipe to bottom of trench] (ft)	H[7] [bottom of pipe to water table] (f)	L[6][ROCK] (lf)	Volume[9] [ROCK] (cf)	Total Storage [Pipe + Rock Void] (cf)
Basin #2	5	250	0.83	0.002	0.14	0.83	67.61	67.02	68.93	68.44	250	0	0	136.28	0.00	3	0.25	1.91	250.00	N/A	441.86	578.15
Basin #2	6	250	0.83	0.005	0.29	0.83	67.33	66.08	68.93	68.16	250	0	0	136.28	0.00	3	0.25	2.85	250.00	N/A	601.99	738.27
Basin #2	7	29	0.83	0.005	0.30	0.83	67.17	67.02	68.93	68.00	29	0	0	15.81	0.00	3	0.25	1.91	29.00	N/A	57.96	73.76
																					Total Volume Provided (CF)	1,390

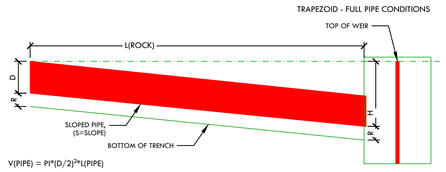
Volume Provided	3,602
Volume Required	2,977
Storage Surplus	625

Check Drawdown time
Basin 2

Infiltration capacity = Basin area * infiltration Rate / 12 * 72 hours / 1.3 (factor of safety)
Storage Volume 3601.9 cf
Infiltration capacity 16116.508 cf
Infiltration Capacity > Storage Volume

SHEET NOTES:

1. Pipe Label, Pipe Length, Pipe Diameter, Pipe Slope, and elevation at tie-in information refer to Drainage plan
2. Pipe Angle = Inverse Tan (Slope)
3. h1 = Pipe Diameter size when H > Pipe Diameter size; h1=H when H<Pipe Diameter. When h1 nmuber is minus, means 0 water storage in this pipe section.
4. Volume[Pipe] refer to pipe storage volume calculation
   Pipe Volume Calculation use tilted cylindrical tank fomular, if the top of pipe elevation at the high end is higher than water/weir level, section of the water filled trench is a triangle
   Pipe Volume Calculation use tilted cylindrical tank fomular +cylinder, if the trench bottom elevation at the high end is lower than water/weir level, section of the water filled trench is a trapezoid
   Pipe Volume Calculation use cylinder, if the whole pipe is full
5. Weir elevation per Drainage Plan
6. Trench Width and R[bottom of pipe to bottom of trench] refer to Perforated Subdrain
7. H[bottom of pipe to water table] = Weir elevation - elevation at tie-in
8. Rock length L(Rock) only calculate the rock saturated with water
   L[ROCK] = (R+H)/Slope S, if section of the water filled in trench is a triangle
   L(ROCK) = Pipe length, if section of water filled in trench is a trapezoid
9. Volume[ROCK] refer to trench storage volume calculation

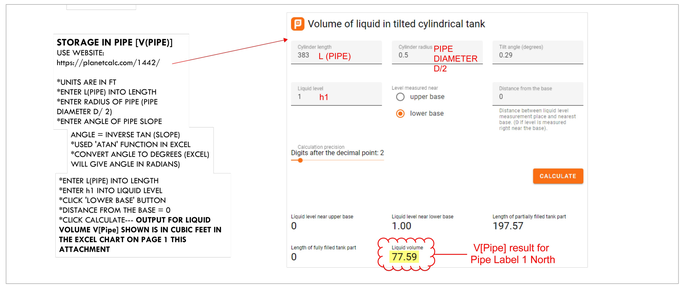


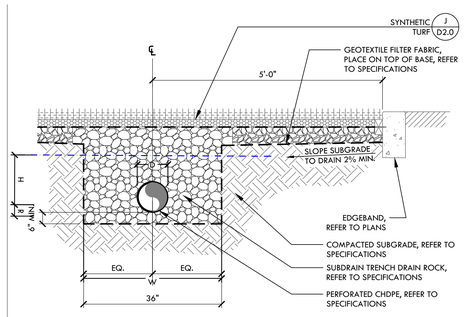
V(PIPE) = PI*(D/2)^2*L(PIPE)

L(ROCK) = L(PIPE)

STORAGE IN ROCK PROFILE V(ROCK)

= (((h1+R)+(H+R)) *L(ROCK))/2*3(TRENCH WIDTH))-VOLUMESTORED IN PIPE (FULL + TILTED))*0.35





PERFORATED SUBDRAIN NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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www.VerdeDesigninc.com

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REGISTERED PROFESSIONAL ENGINEER
DAVID CHRISTOPHER GOSSETT
No. C-56494
Signature
EXPIRATION DATE June 30, 2027
CIVIL
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
STORMWATER CONTROL PLAN POST- CONSTRUCTION

PROJECT NAME
HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

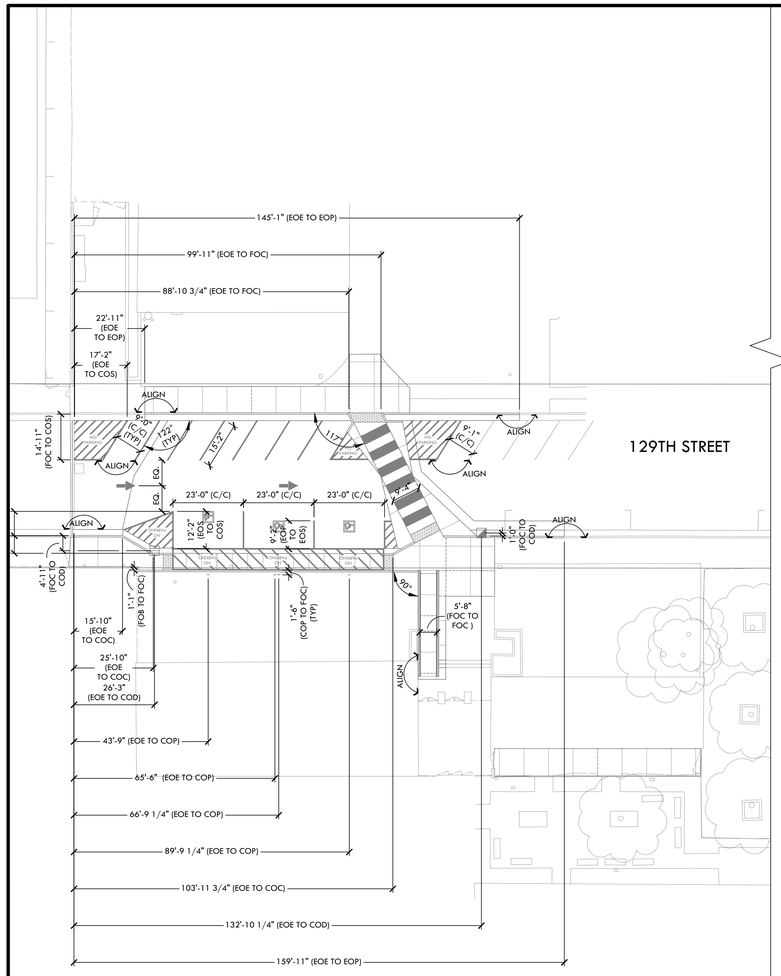
PROJECT ADDRESS
4366 W 129TH ST, HAWTHORNE, CA 90250

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

NO.	REVISIONS	DATE
1	SWPPP Calculation	10/21/26

DRAWN BY	CHECKED BY
AC/RC	DC/CG
DATE ISSUED 06/10/2026	SCALE 1"=20'-0"
PROJ. NO. 2223000	
SHEET NO. L6.2.1	

DRAWING NAME: Y:\Projects-RI\2022\2223000 - Hawthorne MS T&F Assess\Stormwater\SWQP CAD\SWQP-POST.dwg
PLOT DATE: 11-24-26 PLOTTED BY: ajolon1A



LAYOUT NOTES

1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS AND REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY THE CONTRACTOR AS NECESSARY. NOTIFY THE DISTRICTS REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCY ARISE AND REDIRECT WORK TO AVOID DELAYS.
2. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD AND CHALKED, STRING LINED OR FLAGGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY MINOR ADJUSTMENTS MADE TO ACHIEVE OVERALL DESIGN LAYOUT SHALL BE ACCEPTED BY THE OWNER PRIOR TO CONSTRUCTION.
3. ALL LAYOUT AND GRADES SHALL BE COMPLETED BY A LICENSED SURVEYOR.

LAYOUT LEGEND

SYM.	DESCRIPTION
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
℄	CENTER LINE
EQ.	EQUAL
(C/C)	CENTER OF LINE STIPE TO CENTER OF LINE OF STRIPE
(COC)	CORNER OF CURB
(COD)	CENTER OF DRAIN
(COP)	CENTER OF POST
(COS)	CENTER OF STRIPE
(EOE)	EDGE OF EXISTING PAVEMENT EDGEBAND
(EOP)	EDGE OF PAVEMENT
(EOS)	EDGE OF STRIPING
(FOC)	FACE OF CURB
(RAD)	RADIUS POINT
(TYP)	TYPICAL
(TAN)	TANGENT POINT

NORTH
0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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REGISTERED PROFESSIONAL ENGINEER C-56494 CIVIL EXPIRATION June 30, 2027 STATE OF CALIFORNIA

LICENSED ARCHITECT GREER CLARK No. C-23240 EXP. 03-31-27 STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
HORIZONTAL CONTROL 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

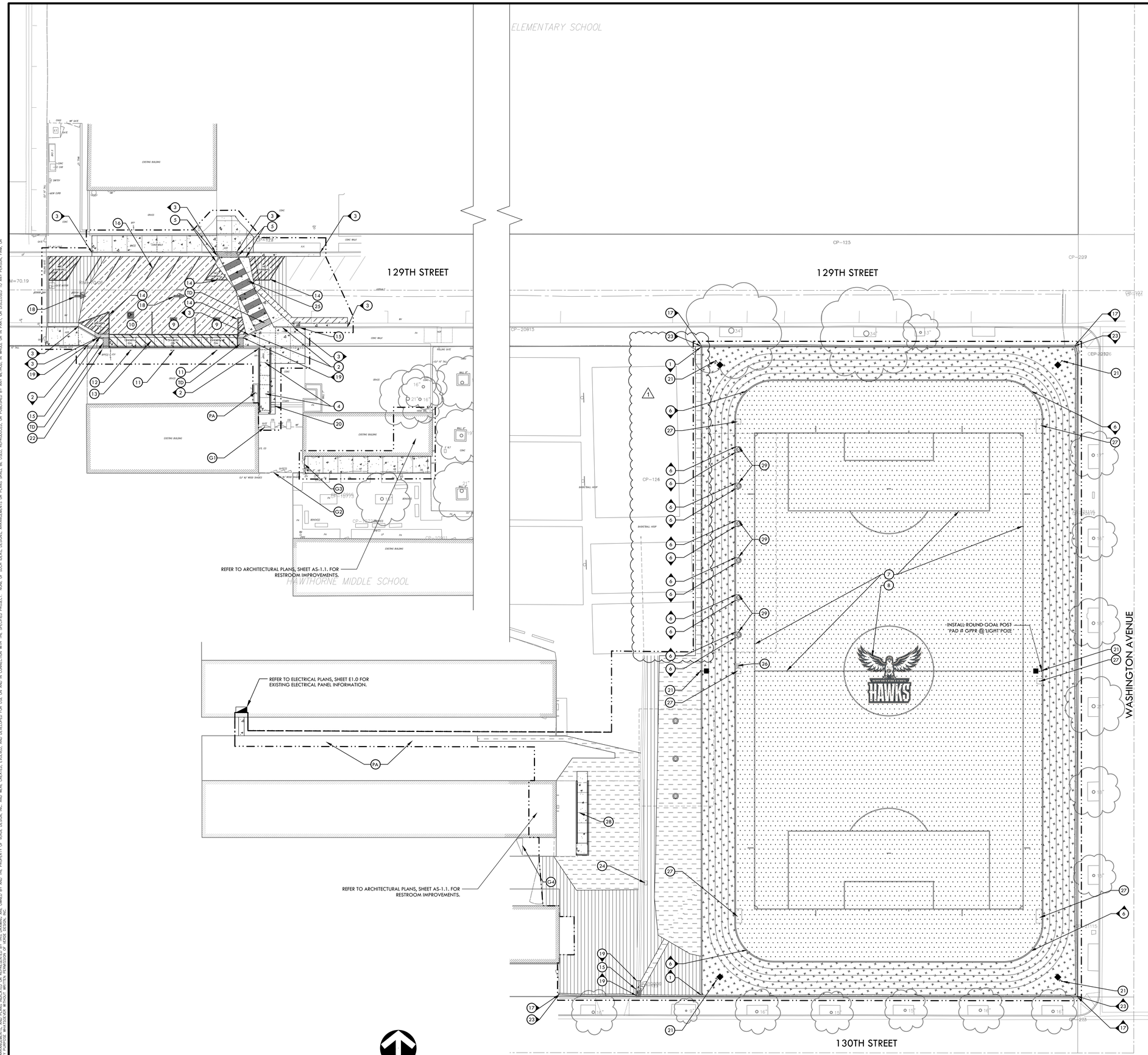
NO.	REVISIONS	DATE
1		
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3		
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6		

DRAWN BY	CHECKED BY
AC	DC/CG
DATE ISSUED: 06/10/2026	SCALE: 1"=20'-0"
PROJ. NO.: 2223000	
SHEET NO.: L7.0	

HORIZONTAL CONTROL PLAN

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



MATERIAL NOTES

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

MATERIAL LEGEND

SYM	DESCRIPTION	DTL
	LIMIT OF WORK	
	SYNTHETIC TURF (GREEN)	J D2.0
	CONCRETE PAVING	G D2.0
	SCORE JOINT	E D2.0
	EXPANSION JOINT	F D2.0
	ASPHALT PAVING - PEDESTRIAN	E D2.0
	ASPHALT PAVING - VEHICULAR	E D2.0
	SLURRY COAT ON THE SURFACE OF EXISTING ASPHALT PAVING, REFER TO SPECIFICATIONS	
	ALL-WEATHER TRACK SURFACING	I D2.0
TD	TRUNCATED DOMES - RECESSED	J L2.1
PA	PLANTING AREA	
G1 G2 G3 G4	GATE IMPROVEMENTS- REFER TO ACCESSIBLE DETAILS, SHEET L2.1	
1	6" WIDE - EDGEBAND WITH ALL-WEATHER TRACK SURFACING	L D2.0 / L D2.1
2	6" WIDE - CURB	O D2.0
3	CURB AND GUTTER	H D1.0
4	RAMP - WITH 6" WIDE TALL CURB	A D2.1
5	6" WIDE - RAISED CURB AT CULVERT	P D2.0
6	SYNTHETIC TURF CONNECTION	K D2.0
7	SOCCER FIELD STRIPING	J D2.1
8	TURF FIELD STRIPING GRAPHICS	K D2.1
9	ACCESSIBLE STALL - PARALLEL	F L2.1
10	ACCESSIBLE STALL - VAN	F L2.1
11	ACCESSIBLE PARKING SIGNAGE	H L2.1
12	ACCESSIBLE PARKING SIGNAGE - VAN	G L2.1
13	ACCESSIBLE PARKING ISLE STRIPING	F L2.1
14	NO PARKING STRIPING (NON-ACCESSIBLE)	Q D2.0
15	DRAINAGE STRUCTURE IN CONCRETE SWALE. REFER TO DRAINAGE & UTILITY PLAN	N D1.0
16	RE-STRIPE PARKING	
17	12" WIDE EDGEBAND AT EXISTING FENCE	M D2.0
18	DIRECTIONAL ARROW STRIPING	R D2.0
19	CONCRETE SWALE	N D1.0
20	REPAIR STAIRS AT EXISTING STAIRS	C D2.1
21	SPORTS FIELD LIGHTING. REFER TO ELECTRICAL PLANS.	
22	PARKING TOW AWAY SIGN	I L2.1
23	REPLACE EXISTING CHAIN LINK FABRIC WITH NEW CHAIN LINK FABRIC. RE-INSTALL EXISTING MID-RAIL AND BOTTOM FENCE RAIL.	
24	EXISTING WATER BOX TO REMAIN, PROTECT IN PLACE. REFER TO DEMOLITION PLAN. REPLACE VALVE BOX WITH NEW CONCRETE VALVE BOX	
25	CROSSWALK STRIPING	S D2.0
26	UTILITY BOX AT SYNTHETIC TURF, REFER TO ELECTRICAL PLANS.	
27	IRRIGATION VALVE. REFER TO IRRIGATION PLAN	
28	WALKWAY WITH 6" WIDE TALL CURB AND RAILING	A D2.1
29	6" WIDE SYNTHETIC TURF EDGEBAND AT SOLAR ARRAY COLUMN	D D2.1

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REGISTERED PROFESSIONAL ENGINEER — DARYN COMBES — No. C-56494 — Signature — EXPIRATION June 30, 2027 — CIVIL — STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
MATERIAL AND DETAIL REFERENCE PLAN

PROJECT NAME
HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

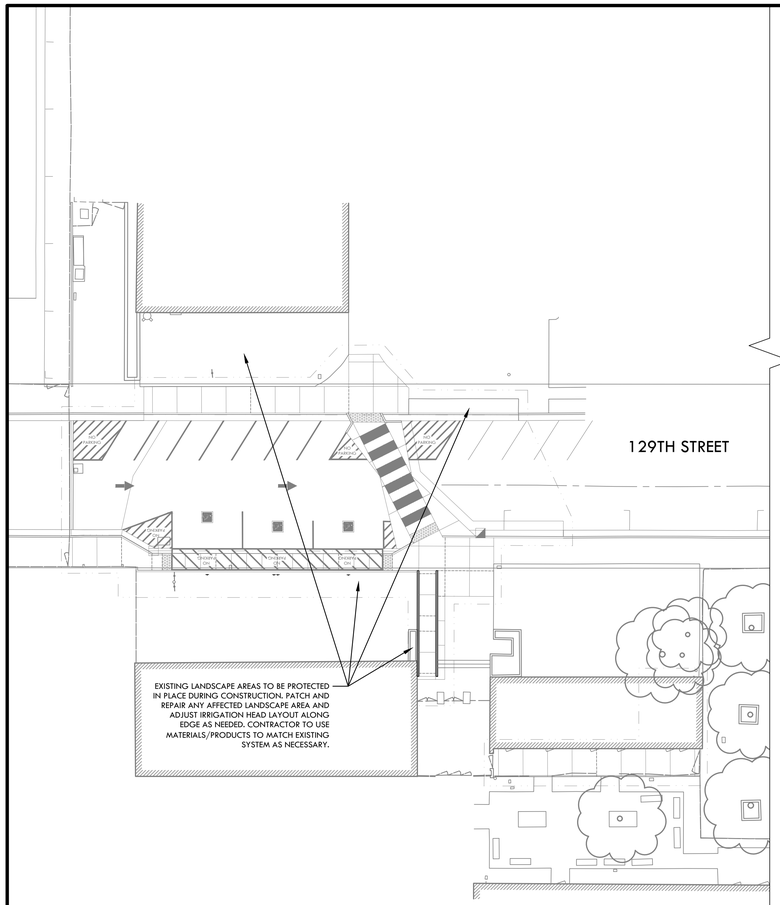
PROJECT ADDRESS
4366 W 129TH ST, HAWTHORNE, CA 90250

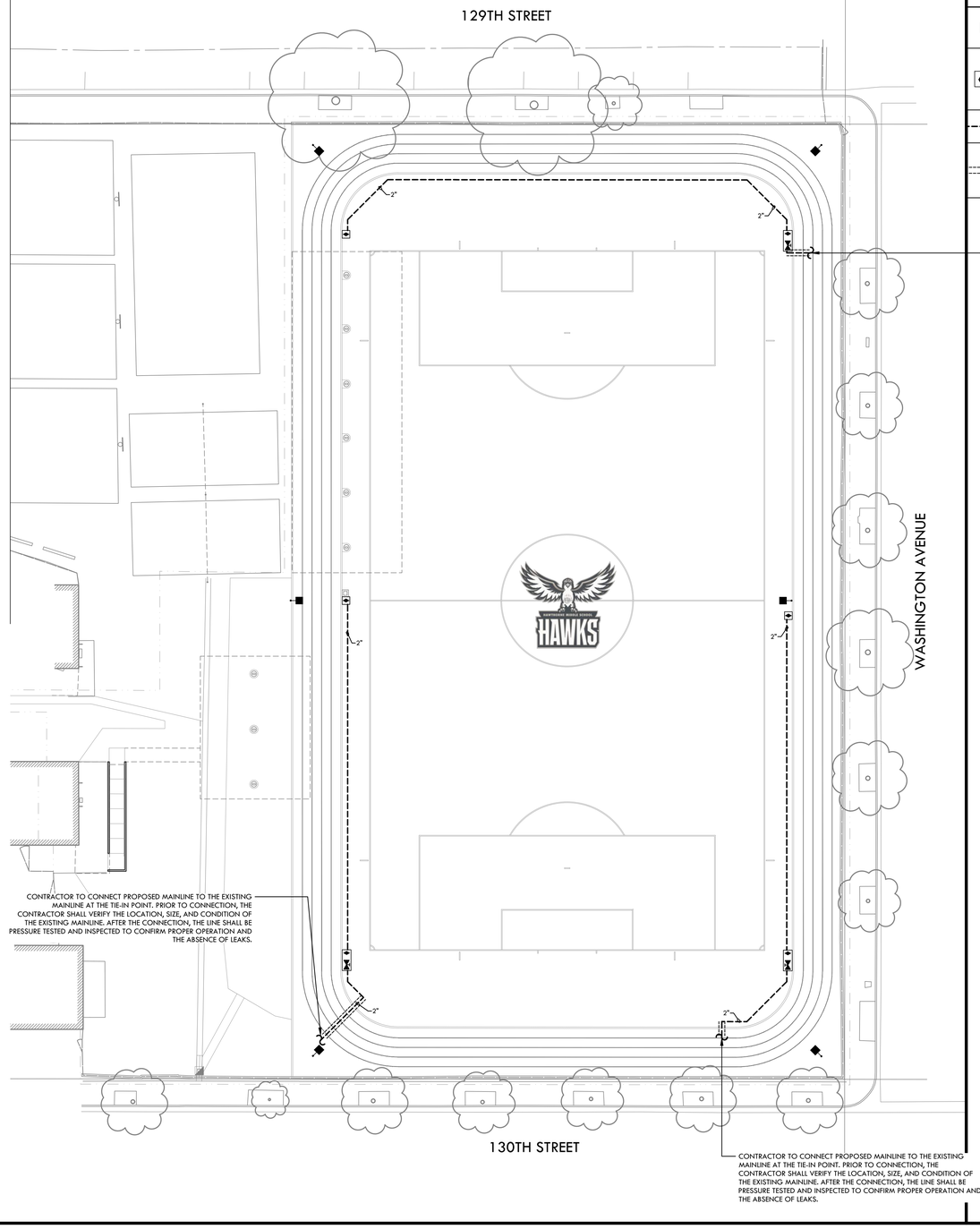
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE
1	Paving changes required for SWPPP compliance	10/21/26

DRAWN BY	CHECKED BY
GA	DC/CG
DATE ISSUED 06/10/2026	SCALE 1"=20'-0"
PROJ. NO. 2223000	
SHEET NO. L8.0	

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IRRIGATION NOTES

1. 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.
2. CONTRACTOR SHALL COORDINATE ELECTRICAL SUPPLY WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR SHALL STUB APPROPRIATE POWER SUPPLY IN VICINITY OF CONTROLLER LOCATION.
3. 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.
4. CONTRACTOR SHALL PROGRAM CONTROLLER TO ENSURE PROPER IRRIGATION. BASED ON PLANT TYPE, EXPOSURE AND SEASON.
5. 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.
6. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO HEAD LOCATIONS IN FIELD AS NECESSARY.
7. 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 HEADY DUTY QUICK CONNECT VALVE BOX FOR SYNTHETIC INFILL TURF (SPORTSFIELD SPECIALTIES MODEL # TCITQCV 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: COMBOX FOR SYNTHETIC INFILL FURF (SPORTSFIELD SPECIALTIES MODEL# CBIT 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.		A,B 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

NORTH
0' 10' 20' 40' 60'

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

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faxx 408.985.7260
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REGISTERED PROFESSIONAL ENGINEER — DAVID CHANG — C-56494 — CIVIL — STATE OF CALIFORNIA — Expiration Date: June 30, 2027

LICENSED ARCHITECT — DAVID CLARK — No. C-23409 — Exp. 03-31-27 — STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
IRRIGATON 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
1		
2		
3		
4		
5		
6		

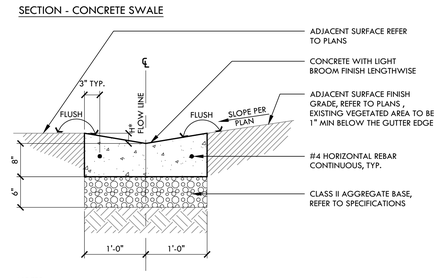
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AC/RC	DC/CG
DATE ISSUED: 06/10/2026	SCALE: 1"=20'-0"
PROJ. NO.: 2223000	
SHEET NO.: L9.0	

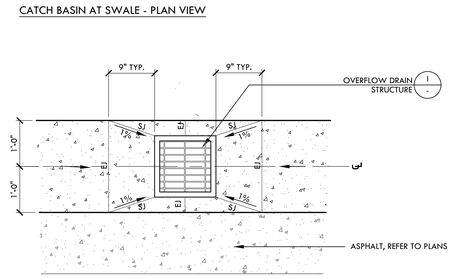
IRRIGATION & PLANTING PLAN

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DRAWING NAME: Y:\Projects-R\2022\2223000 - Hawthorne MS T&F Assess\CAD_L9.0-IRR.dwg
PLOT DATE: 09-16-26 PLOTTED BY: station14

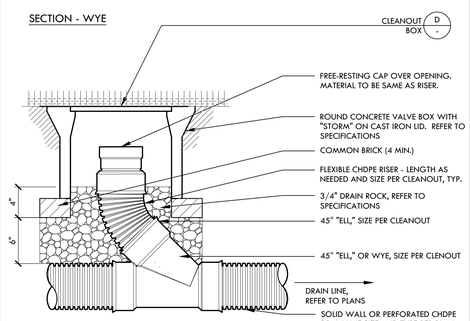
N CONCRETE SWALE — NTS



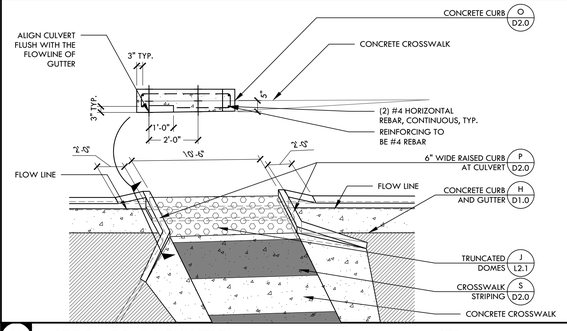


NOTES:
1. PROVIDE SCORE JOINTS 8' ON CENTER AND ALIGN WITH FENCE POSTS.
2. SJ = SAWCUT JOINT, EJ = EXPANSION JOINT, REFER TO DETAIL F, SHEET D 2.0
3. H* = 0.018' MAX ADJACENT TO ADA STALL, H* PER GRADING PLAN AT THE REGULAR STALL

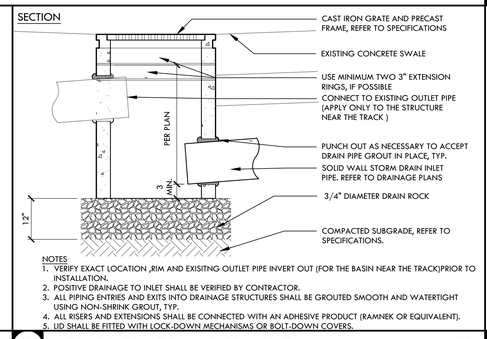
E STORM DRAIN CLEANOUT — NTS



K STORM DRAIN CULVERT — NTS

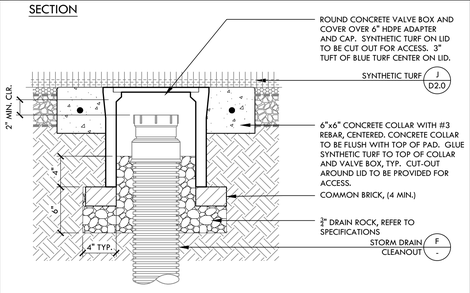


I OVERFLOW DRAIN STRUCTURE — NTS

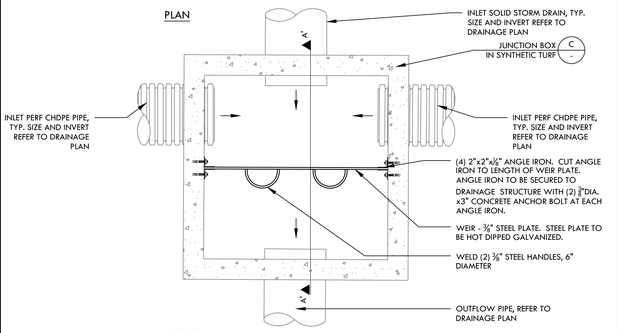


NOTES
1. VERIFY EXACT LOCATION ,RIM AND EXISITNG OUTLET PIPE INVERT OUT (FOR THE BASIN NEAR THE TRACK)PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4. ALL RISERS AND EXTENSIONS SHALL BE CONNECTED WITH AN ADHESIVE PRODUCT (RAMNEK OR EQUIVALENT).
5. LID SHALL BE FITTED WITH LOCK-DOWN MECHANISMS OR BOLT-DOWN COVERS.

D CLEANOUT IN SYNTHETIC TURF - ACCESSIBLE — NTS

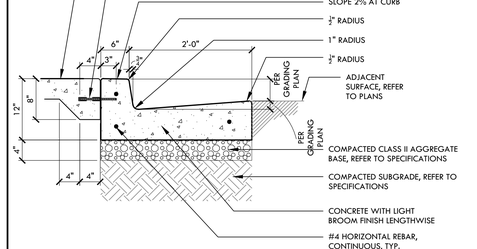


C

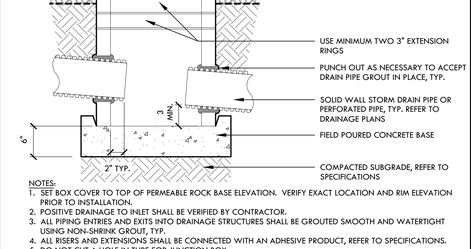


SECTION - A-A'

H CONCRETE CURB AND GUTTER AT CONCRETE SIDEWALK — NTS



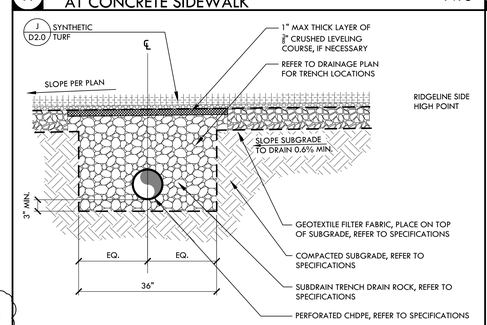
C JUNCTION BOX - SYNTHETIC TURF — NTS



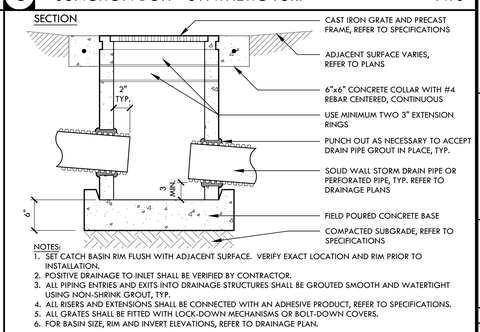
NOTES:
1. SET CATCH BASIN RIM FLUSH WITH ADJACENT SURFACE. VERIFY EXACT LOCATION AND RIM PRIOR TO INSTALLATION.
2. POSITIVE DRAINAGE TO INLET SHALL BE VERIFIED BY CONTRACTOR.
3. ALL PIPING ENTRIES AND EXITS INTO DRAINAGE STRUCTURES SHALL BE GROUTED SMOOTH AND WATERTIGHT USING NON-SHRINK GROUT, TYP.
4.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

N

G PERFORATED SUBDRAIN TYPE 1 — NTS



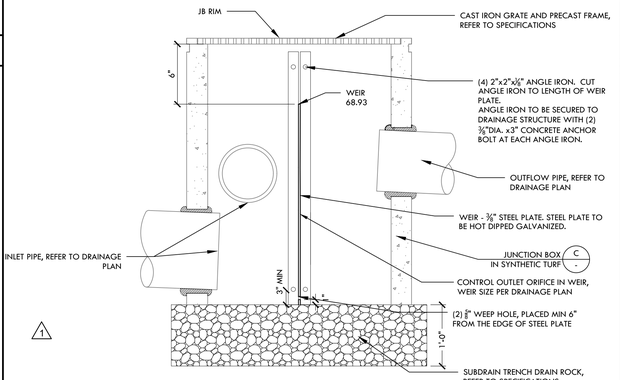
B CATCH BASIN — NTS



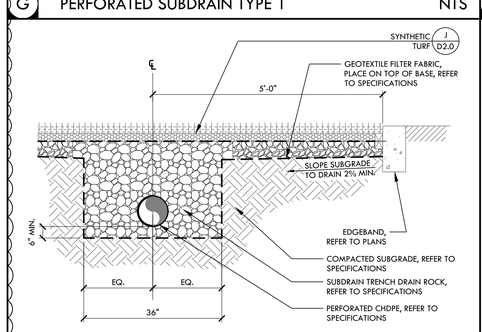
NOTE:
CONTRACTOR TO INSTALL SURFACING IMPROVEMENTS PER DRAWINGS. SECTIONS FOR SURFACING IMPROVEMENTS SHALL SUPERCEDE BACKFILL FOR STORM DRAINS.

O

J CONTROL WEIR AT JUNCTION BOX — NTS



F PERFORATED SUBDRAIN — NTS



A TRENCH BACKFILL - SOLID WALL STORM/SEWER — NTS

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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Riverside, CA 92501
tel: 951.221.31.42
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www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — DARYN CORREA — No. C-56494 — Signature — EXPIRATION June 30, 2027 — CIVIL — STATE OF CALIFORNIA

CONSULTANT

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

NO.	REVISIONS	DATE
1	Drainage changes required for SWPPP compliance	10/21/26

DRAWN BY	CHECKED BY
XH	DC/CG
DATE ISSUED 06/10/2026	SCALE
PROJ. NO. 2223000	
SHEET NO. D1.0	

DRAINAGE DETAILS

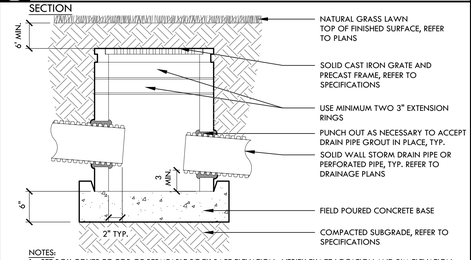
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DRAWING NAME: Y:\Projects-R\2022\2223000 - Hawthorne MS T&F Assess\CAD_LD1.0-DRN.dwg
PLOT DATE: 11-04-26 PLOTTED BY: station14

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

E — JUNCTION BOX - SOFTSCAPE — NTS

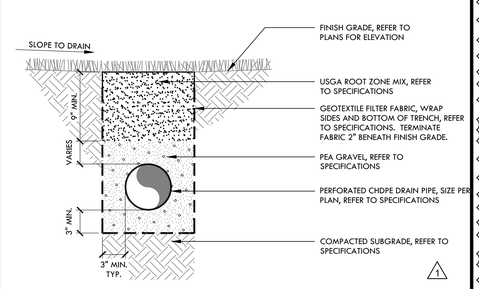
SECTION



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

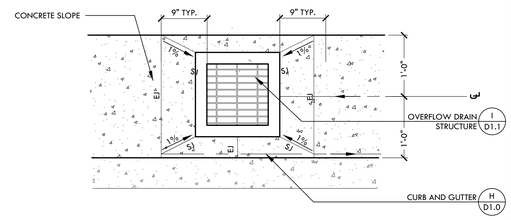
C — JUNCTION BOX - SOFTSCAPE — NTS

SECTION



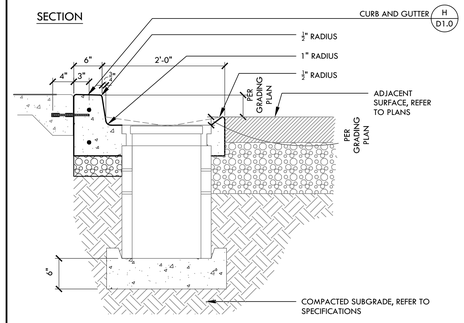
B — FRENCH DRAIN IN SOFTSCAPE — NTS

OVERFLOW DRAIN STRUCTURE AT CURB & GUTTER - PLAN VIEW

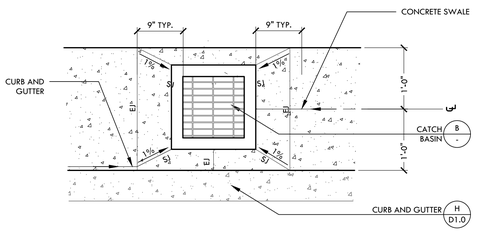


A — CATCH BASIN AT CURB & GUTTER — NTS

SECTION



CATCH BASIN AT CURB & GUTTER - PLAN VIEW



NOTES:
1. SJ = SAWCUT JOINT, EJ = EXPANSION JOINT, REFER TO DETAIL F, SHEET D 2.0

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3		
4		
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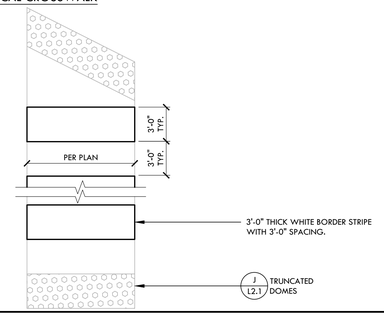
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DATE ISSUED 06/10/2026	SCALE
PROJ. NO. 2223000	
SHEET NO. D1.1	

DRAINAGE DETAILS

DRAWING NAME: Y:\Projects-R\2022\2223000 – Hawthorne MS T&F Assess\CAD_\D1.0-DRN.dwg
PLOT DATE: 11-04-26 PLOTTED BY: station14

S CROSSWALK STRIPING NTS

PLAN - TYPICAL CROSSWALK

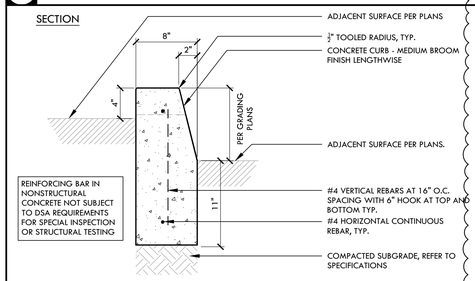


R DIRECTIONAL ARROW STRIPING NTS

PLAN

Q NO PARKING STRIPING (NON-ACCESSIBLE) NTS

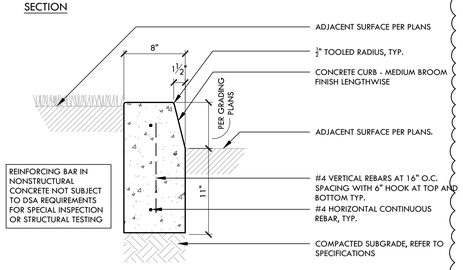
SECTION



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION.

P 6" WIDE RAISED CURB AT CULVERT NTS

SECTION

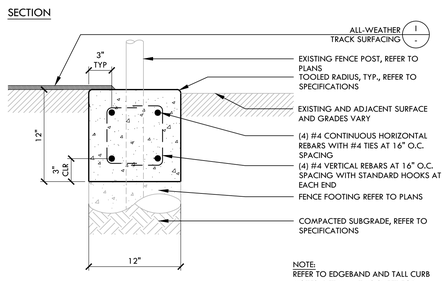


NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION.

O 6" WIDE CURB NTS

N

SECTION



NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION.

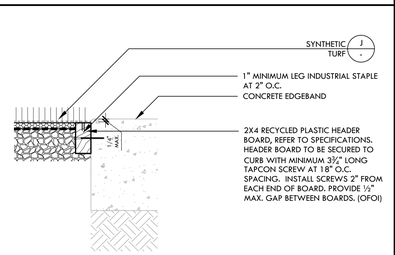
M 12" WIDE EDGEBAND UNDER FENCE NTS

SECTION

NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL A, THIS SHEET FOR ADDITIONAL INFORMATION.

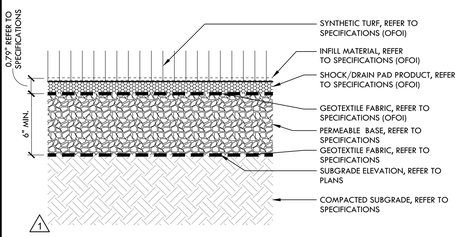
L 6" WIDE SYNTHETIC TURF EDGEBAND AT TRACK NTS

SECTION



K SYNTHETIC TURF CONNECTION NTS

SYNTHETIC TURF SECTION

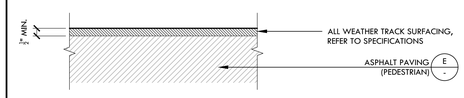


NOTE:
REFER TO SYNTHETIC TURF NOTES, DETAIL C, THIS SHEET.

J SYNTHETIC TURF WITH SHOCK/DRAIN PAD NTS

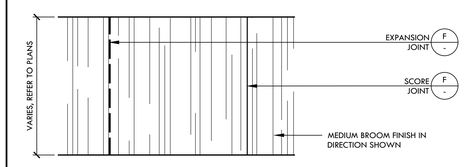
I ALL-WEATHER TRACK SURFACING NTS

SECTION



NOTE:
TRACK SURFACING SHALL BE ADHERED A MINIMUM OF 3" ONTO ADJACENT TRACK CONCRETE EDGEBANDS.

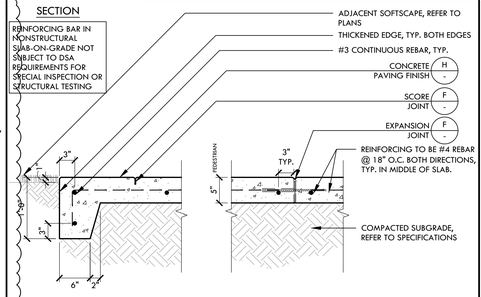
PLAN



NOTE:
PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

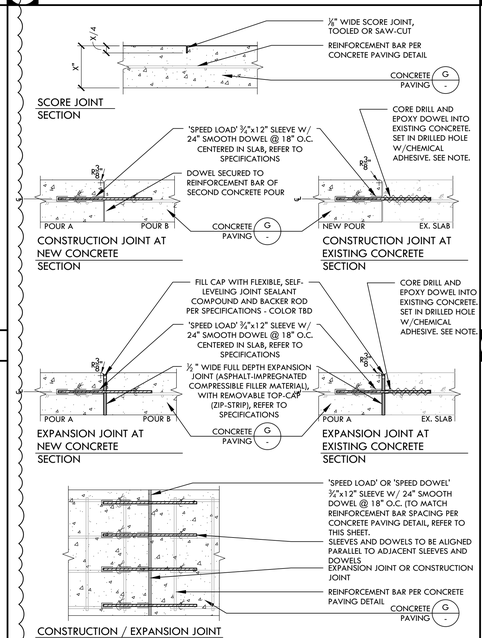
H CONCRETE PAVING FINISH NTS

SECTION



NOTE:
PROVIDE SCORE JOINTS 5' O.C. AND 10' O.C. FOR EXPANSION JOINT UNLESS OTHERWISE NOTED.

G CONCRETE PAVING NTS



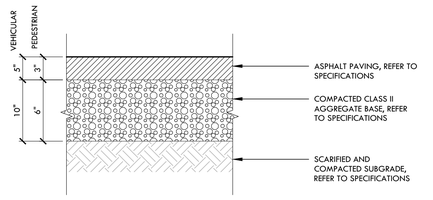
EPOXY SHEAR DOWELS IN NONSTRUCTURAL SLAB-ON-GRADE NOT SUBJECT TO DSA REQUIREMENTS FOR SPECIAL INSPECTION OR STRUCTURAL TESTING

NOTE:
USE HILTI HIT-HY 200-R V3 ADHESIVE ANCHOR SYSTEM, ICC ESR-4868 FOR HIT-HY 200 ADHESIVE ANCHORS IN CONCRETE, INSTALL PER DSA IR A-5.

F CONCRETE JOINTS NTS

E ASPHALT PAVING NTS

SECTION



NOTES PERTAIN TO ALL GATE AND FENCE DETAILS:

1. PLACE FENCE FABRIC ON TRACK SIDE. FENCE FABRIC ON PERIMETER FENCING IS TO BE ON FIELD SIDE.
2. BOTTOM RAIL TO BE 2" FROM FINISH GRADE, FENCE FABRIC BOTTOM EDGE TO BE 1" FROM FINISH GRADE.
3. SUBMIT SHOP DRAWINGS FOR ACCEPTANCE BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
4. GATES IN PATH OF TRAVEL MUST MEET ENTRY AND EXIT DOOR REQUIREMENTS.
5. REFER TO PLANS FOR EDGEBAND TYPE UNLESS OTHERWISE NOTED.
6. REFER TO DETAIL M, THIS SHEET FOR FENCING WITH CURBS.
7. TACK WELD HINGES TO POSTS AT GATES.
8. THE PIPE SIZES INDICATED ARE NPS FOR: STANDARD GALV. PIPE SCHEDULE 40.

D GATE AND FENCE NOTES NTS

NOTES PERTAIN TO ALL DETAILS WITH SYNTHETIC TURF:

1. IDENTIFIED FINISH GRADES OF SYNTHETIC TURF SHALL BE THE TOP OF INFILL MATERIAL. INFILL MATERIAL SHALL BE ½" BELOW ADJACENT SURFACES UNLESS EDGE IS A VERTICAL CURB.
2. SOCCER FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE WHITE LINES.
3. NO MANUFACTURER, CONTRACTOR OR VENDOR LOGOS ARE TO BE INSTALLED UNLESS SPECIFIED.
4. NO CUT OUTS IN TURF SHALL BE MADE UNLESS OTHERWISE NOTED AND ESPECIALLY NO CUT OUTS IN THE FIELD OF PLAY. QUICK COUPLERS ARE THE ONLY UTILITIES TO BE CUT THROUGH TURF. QUICK COUPLERS ARE LOCATED ON THE PERIMETER AND OUT OF THE FIELD OF PLAY AREAS.

C SYNTHETIC TURF NOTES NTS

NOTES PERTAIN TO ALL DETAILS WITH ALL-WEATHER TRACK SURFACING:

1. TRACK SURFACING SHALL BE ADHERED A MINIMUM OF 3" ONTO ADJACENT TRACK CONCRETE EDGEBANDS AND/OR TRACK DRAINS.
2. FINISH SURFACE ELEVATIONS SHOWN ON DRAWINGS IN TRACK SURFACING AREAS IS OF THE PAVING UNDERNEATH, EDGEBAND OR CURB PER PLANS.
3. UTILITY BOXES SHALL BE LOCATED IN THE TRACK AREA CORNERS OR IN ADJACENT ASPHALT. THE ONLY UTILITY BOX THAT MAY LOCATED IN THE TRACK AREA IF NECESSARY IS THE PULL BOX FOR THE LIGHT POST ON THE EAST SIDE OF THE TRACK CENTERED ON THE FIELD.

B ALL-WEATHER TRACK SURFACING NOTES NTS

NOTES PERTAIN TO ALL EDGEBAND AND CURB DETAILS:

1. FOR EDGEBANDS AND CURBS WITH FENCING, INSTALL EXPANSION JOINTS AT ALL CORNERS, BEGINNINGS, AND ENDINGS OF RADII, AND AT ALL FENCE POSTS. INSTALL SCORE JOINTS AT 5' O.C. MAXIMUM AND/OR EVENLY SPACED AND CENTERED BETWEEN FENCE POSTS AND AT EACH FENCE POST
2. FOR EDGEBAND AND CURBS WITHOUT FENCING, INSTALL SCORE JOINTS AT 10' O.C. MAX. SPACING AND FIBER EXPANSION JOINTS EVERY 20' MAX. ON STRAIGHT RUNS. ON CURVED RUNS, FIBER EXPANSION JOINTS SHALL BE SPACED 10' O.C., WITH ALTERNATING SCORE JOINTS AT 5' O.C. SPACING.
3. ALL EXPANSION JOINTS SHALL BE SEALED, PER SPECIFICATIONS.

NOTES PERTAIN TO ALL TALL CURB DETAILS:

1. PROVIDE EXPANSION JOINTS AT FENCE POST LOCATIONS AT 10' O.C. MAX. SPACING, CENTERED ON EACH FENCE POST.
2. PROVIDE EXPANSION JOINTS AT EACH LOCATION WHERE AN ELEVATION STEP OCCURS BETWEEN CHANGING CURB/EDGEBAND TYPES.
3. AT EXPANSION JOINTS, PROVIDE A 24" LONG #4 DOWEL AT EACH CURB HORIZONTAL REBAR, CENTERED ON THE JOINT, AS PER DETAIL.
4. EXPANSION JOINTS SHALL BE INSTALLED WITH A ¾" CHAMFER BUILT INTO THE FORM WORK, IN ADDITION TO THE FIBER EXPANSION JOINT MATERIAL.
5. PROVIDE A CONTROL JOINT AT EACH FENCE POST WHERE APPLICABLE. THE VERTICAL AND HORIZONTAL JOINT SHALL BE A ¾" CHAMFER BUILT INTO THE FORM WORK.
6. ALL EXPANSION JOINTS SHALL BE SEALED PER SPECIFICATION.
7. NO SCORE JOINTS ARE REQUIRED ON TALL CURBS.

FINISHES:
EDGEBANDS AND CURBS: MEDIUM BROOM
WALL AND TALL CURBS: MEDIUM SAND BLAST - TOP AND SIDES

A EDGEBAND AND TALL CURB NOTES NTS

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REGISTERED PROFESSIONAL ENGINEER — DAVID CHRISTOPHER GOSS — No. C-56494 — Signature — EXPIRATION June 30, 2027 — CIVIL — STATE OF CALIFORNIA

CONSULTANT

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1	Edgeband & turf connection changes	10/21/26

DRAWN BY	CHECKED BY
XH / AC	DC/CG
DATE ISSUED: 06/10/2026	SCALE
PROJ. NO.: 2223000	
SHEET NO.: D2.0	

CONSTRUCTION DETAILS

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DRAWING NAME: Y:\Projects-R\2022\2223000 – Hawthorne MS T&F Assess\CAD_\D2.0-CON.dwg
PLOT DATE: 11-04-26 PLOTTED BY: station14

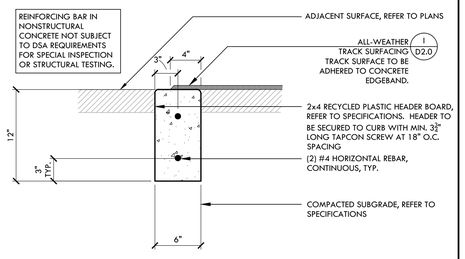
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O

M

SECTION

REINFORCING BAR IN NONSTRUCTURAL CONCRETE NOT SUBJECT TO DSA REQUIREMENTS FOR SPECIAL INSPECTION OR STRUCTURAL TESTING.

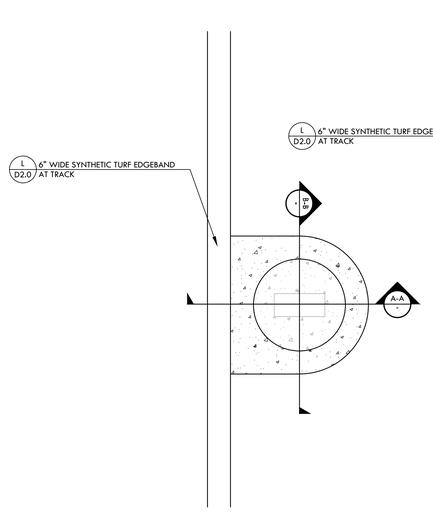


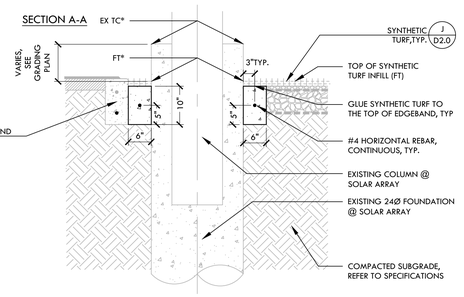
NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, SHEET 2.0, DETAIL A, FOR ADDITIONAL INFORMATION.

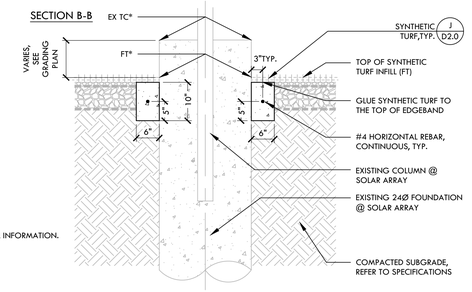
N

L

6" WIDE CURB AT ALL WEATHER TRACK SURFACE NTS







NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL A, SHEET D2.0 FOR ADDITIONAL INFORMATION.
* EX TC= TOP OF EXISTING FOUNDATION, FT = TOP OF SYNTHETIC TURF INFILL

REINFORCING BAR IN NONSTRUCTURAL CONCRETE NOT SUBJECT TO DSA REQUIREMENTS FOR SPECIAL INSPECTION OR STRUCTURAL TESTING.

D

6" WIDE SYNTHETIC TURF EDGEBAND AT SOLAR ARRAY COLUMN NTS



MEASUREMENTS & QUANTITIES	
FEATURES/MATERIALS	DETAILS
TOTAL AREA OF TURF	50,586 SF
FLORIDA BLUE TURF AREA	13,611 SF
GREEN TURF AREA	36,975 SF
TURF PERIMETER	916 LF

TENCATE
tencate-americas.com

OWNER:
Hawthorne School District
Hawthorne Middle School
4366 W 129th St, Hawthorne, CA 90250
(310) 676-0167

PROJECT:
SYNTHETIC TURF SOCCER FIELD

PROJECT LOCATION:
HAWTHORNE, CALIFORNIA

COMMENTS:
All drawings and written material appearing herein constitute original unpublished work, and may not be duplicated, used or disclosed without the written consent of TenCate.
Drawing scale accurate ONLY when printed on 11x17 paper. For visual purposes only; actual color may vary.

DRAWN BY:
01 - J. DEL RIO
DATE:
NOVEMBER 2, 2026
REVISION:
3
SHEET TITLE:
COLOR RENDERING
SHEET NUMBER:
1
© 2026
SCALE: 1:30
0 15 30 45

K

TURF FIELD STRIPING GRAPHICS

C

STAIRS NTS

REINFORCING BAR IN NONSTRUCTURAL CONCRETE NOT SUBJECT TO DSA REQUIREMENTS FOR SPECIAL INSPECTION OR STRUCTURAL TESTING.

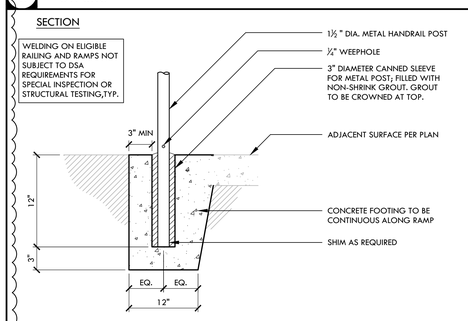
STAIR ENLARGEMENT

G

RAILING CANNED SLEEVE NTS

SECTION

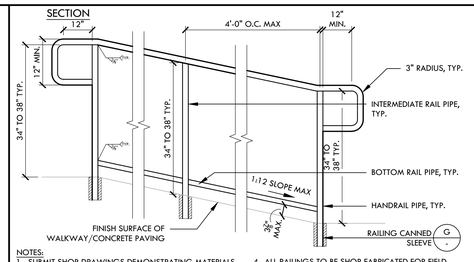
WELDING ON ELIGIBLE RAILING AND RAMPS NOT SUBJECT TO DSA REQUIREMENTS FOR SPECIAL INSPECTION OR STRUCTURAL TESTING,TYP.



B

HANDRAIL NTS

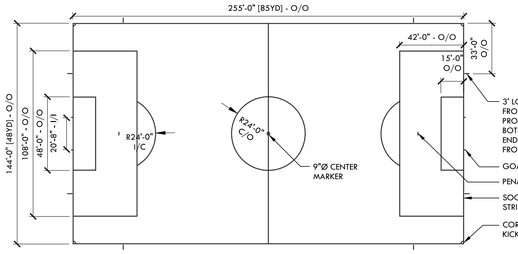
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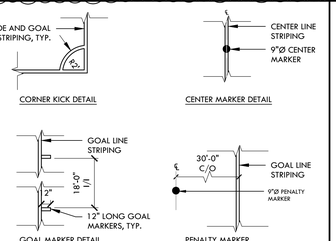


NOTES:
1. SUBMIT SHOP DRAWINGS DEMONSTRATING MATERIALS, WELDS, AND PROPOSED INSTALLATION CONFORM TO THE PLANS AND SPECIFICATIONS. REFER TO SPECIFICATIONS.
2. ALL PIPE TO BE 1½" (1.90" O.D.) DIAMETER .145" THICKNESS SCHEDULE 40 PIPE WITH PRIMERED FINISH.
3. ALL JOINTS SHALL BE ⅜" FILLET WELD; GRIND SMOOTH JOINTS; TREAT ALL FINISHED WELDS WITH GALVANIZING.
4. ALL RAILINGS TO BE SHOP FABRICATED FOR FIELD INSTALLATION.
5. PROVIDE 4.5" FROM THE CENTER OF HANDRAIL TO CURB/WALL ADJACENT TO HANDRAIL.
6. ALL RAILING AND POSTS TO RECEIVE TWO COATS OF PRIMER AND TWO COATS OF PAINT. PAINT COLOR TO MATCH EXISTING RAILING AT SCHOOL ENTRY

J

SOCCER FIELD STRIPING NTS





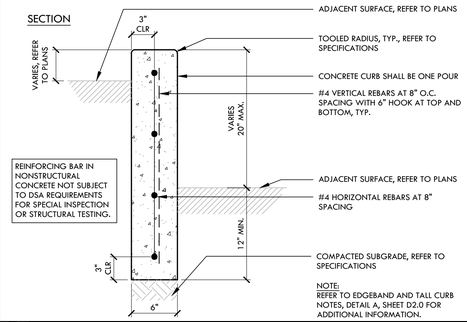
NOTES:
1. O/O = OUTSIDE OF LINE TO OUTSIDE OF LINE
2. O/I = OUTSIDE OF LINE TO INSIDE OF LINE
3. O/C = OUTSIDE OF LINE TO CENTER OF LINE
4. I/I = INSIDE OF LINE TO INSIDE OF LINE
5. I/C = INSIDE OF LINE TO CENTER OF LINE
6. C/C = CENTER OF LINE TO CENTER OF LINE
7. SOCCER FIELD STRIPING SHALL BE INLAID OR TUFTED 4" WIDE YELLOW LINES. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE.
8. [illegible]

F

6" WIDE TALL CURB NTS

SECTION

REINFORCING BAR IN NONSTRUCTURAL CONCRETE NOT SUBJECT TO DSA REQUIREMENTS FOR SPECIAL INSPECTION OR STRUCTURAL TESTING.

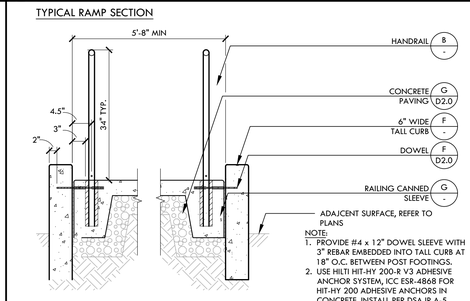


NOTE:
REFER TO EDGEBAND AND TALL CURB NOTES, DETAIL A, SHEET D2.0 FOR ADDITIONAL INFORMATION.

A

RAMP/WALKWAY - WITH 6" WIDE TALL CURB NTS

TYPICAL RAMP SECTION



NOTE:
1. PROVIDE #4 x 12" DOWEL SLEEVE WITH 3" REBAR EMBEDDED INTO TALL CURB AT 18" O.C. BETWEEN POST FOOTINGS.
2. USE HILTI HIT-HY 200-R V3 ADHESIVE ANCHOR SYSTEM, ICC ESR-4868 FOR HIT-HY 200 ADHESIVE ANCHORS IN CONCRETE, INSTALL PER DSA IR A-5.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
3685 Main St. Suite 350
Riverside, CA 92501
tel: 951.221.3142
faxx 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER
DARWIN CORREA
No. C-56494
Signature
EXPIRATION June 30, 2027
CIVIL
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
CONSTRUCTION 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

NO.	REVISIONS	DATE
1	Edgeband & turf connection changes OFOI product change	11/04/26

DRAWN BY	CHECKED BY
XH / AC	DC/CG
DATE ISSUED: 06/10/2026	SCALE:
PROJ. NO.: 2223000	
SHEET NO.: D2.1	

DRAWING NAME: V:\Projects-R\2022\2223000 - Hawthorne MS T&F Assess\CAD_LD2.0-CON.dwg
PLOT DATE: 11-04-26 PLOTTED BY: station14

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R M H D

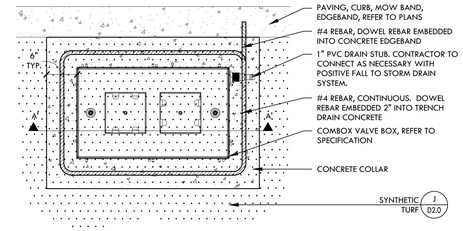
Q L G

P K F C

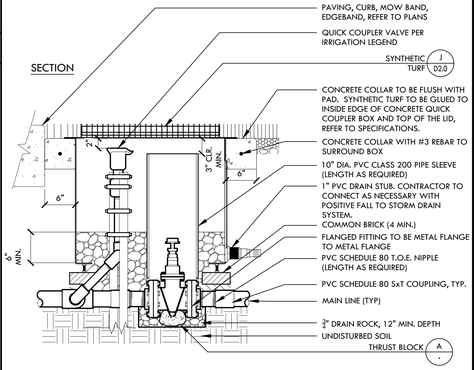
O J B

N I E A

PLAN

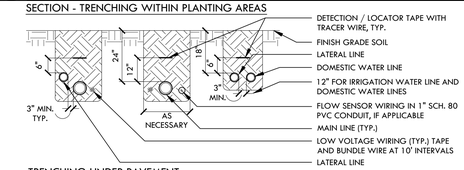


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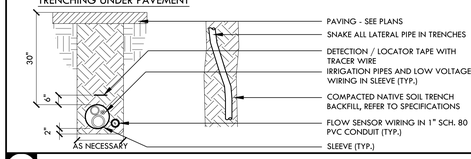


QUICK COUPLER AND & GATE VALVE 2" & LARGER IN COMBOX IN SYNTHETIC TURF NTS

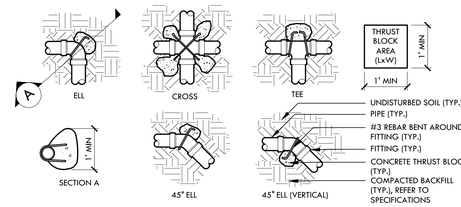
SECTION - TRENCHING WITHIN PLANTING AREAS



TRENCHING UNDER PAVEMENT



IRRIGATION PIPE TRENCHING NTS

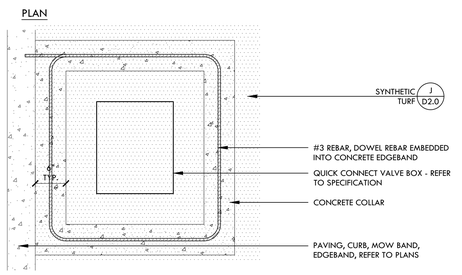


NOTES:

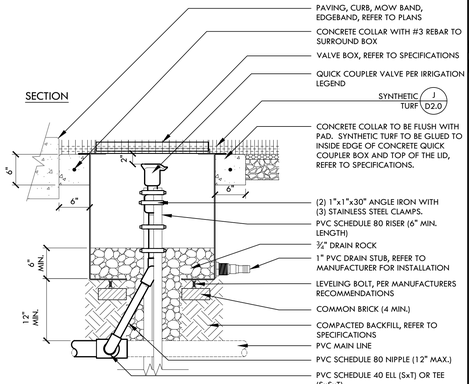
1. SUPPLY LINES 3" DIA. AND LARGER OR GATE VALVES 2½" OR LARGER SHALL RECEIVE CONCRETE THRUST BLOCKS.
2. MIN. THRUST BLOCK AREAS ARE BASE ON A PRESUMPTIVE SOIL BEARING CAPACITY OF 1,500 PSF PER CBC 1806A.2.
3. THRUST BLOCK SHALL EXTEND INTO UNDISTURBED SOIL.
4. CONCRETE SHALL NOT COVER FITTING JOINTS.
5. MAIN LINE PIPING 4" AND LARGER SHALL HAVE DUCTILE IRON FITTINGS WITH JOINT RESTRAINTS INSTALLED AT ALL FLOW DIRECTION CHANGES (CONCRETE THRUST BLOCK NOT REQUIRED).

MINIMUM THRUST BLOCK AREA (LxW)			
	IRRIGATION PIPE		
PIPE SIZE	TEE, DEAD END, 90° BEND	45°,22.5°	
2"	2 SF	1 SF	
3"	4 SF	2 SF	

PLAN



SECTION



QUICK COUPLER IN SYNTHETIC TURF NTS

THRUST BLOCK NTS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
3685 Main St. Suite 350
Riverside, CA 92501
tel: 951.221.31.42
faxs 408.985.7260
www.VerdeDesigninc.com

STAMP

REGISTERED PROFESSIONAL ENGINEER — DAVID CHANG — C-56494 — Exp. June 30, 2027 — CIVIL — STATE OF CALIFORNIA

LICENSED ARCHITECT — DOREEN CLARK — No. C-23409 — Exp. 03-31-27 — STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
IRRIGATION DETAILS

PROJECT NAME
HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

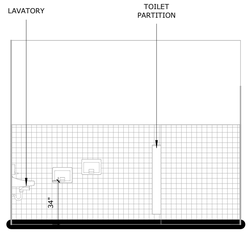
PROJECT ADDRESS
4366 W 129TH ST, HAWTHORNE, CA 90250

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

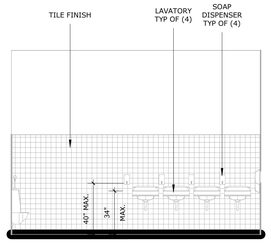
NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
XH	DC/CG
DATE ISSUED 06/10/2026	SCALE
PROJ. NO. 2223000	
SHEET NO. D3.0	

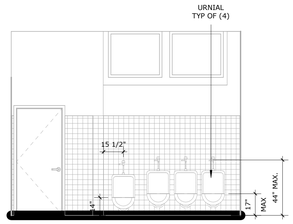
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PLOT DATE: 09-01-26 PLOTTED BY: station14



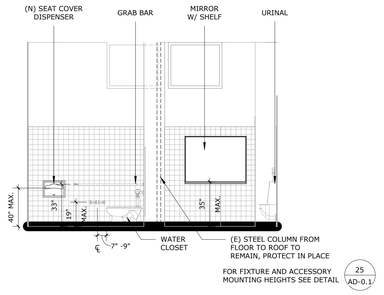
4 BOYS RESTROOM WEST
SCALE: 1/4" = 1'-0"



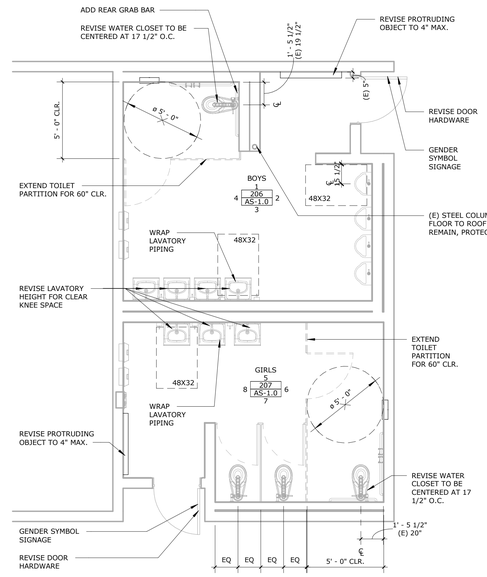
3 BOYS RESTROOM SOUTH
SCALE: 1/4" = 1'-0"



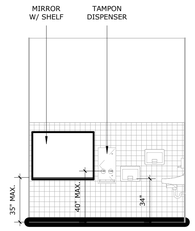
2 BOYS RESTROOM EAST
SCALE: 1/4" = 1'-0"



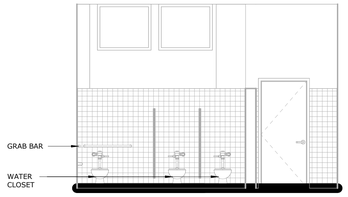
1 BOYS RESTROOM NORTH
SCALE: 1/4" = 1'-0"



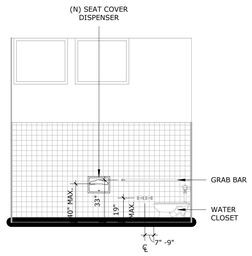
0 (E) ENLARGED RESTROOM PLAN
SCALE: 1/4" = 1'-0"



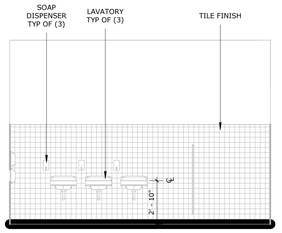
8 GIRLS RESTROOM WEST
SCALE: 1/4" = 1'-0"



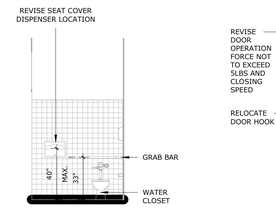
7 GIRLS RESTROOM SOUTH
SCALE: 1/4" = 1'-0"



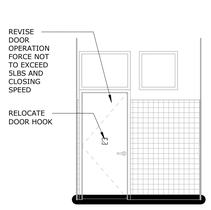
6 GIRLS RESTROOM EAST
SCALE: 1/4" = 1'-0"



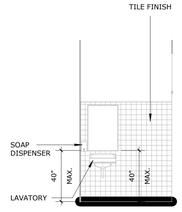
5 GIRLS RESTROOM NORTH
SCALE: 1/4" = 1'-0"



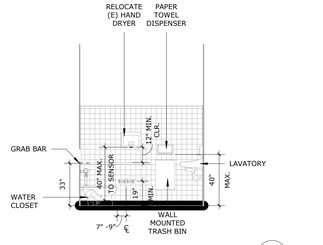
13 UNISEX R.R. WEST
SCALE: 1/4" = 1'-0"



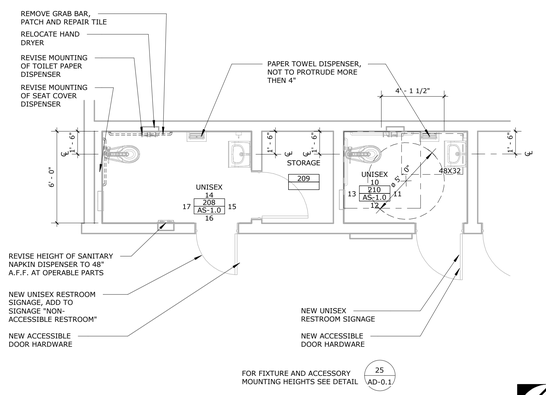
12 UNISEX R.R. SOUTH
SCALE: 1/4" = 1'-0"



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

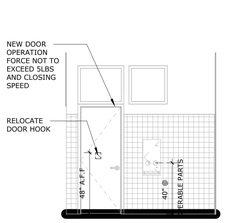


10 UNISEX R.R. NORTH
SCALE: 1/4" = 1'-0"

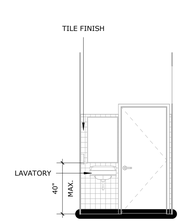


9 (E) ENLARGED RESTROOM PLAN - STAFF
SCALE: 1/4" = 1'-0"

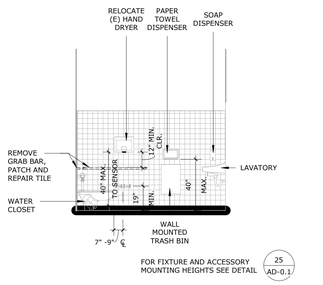
17 UNISEX R.R. WEST
SCALE: 1/4" = 1'-0"



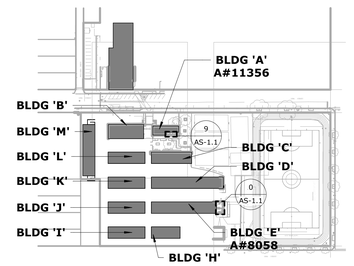
16 UNISEX R.R. SOUTH
SCALE: 1/4" = 1'-0"



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



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



CERTIFIED A#:

A#11356	CERTIFIED
A#8058	CERTIFIED

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
3685 Main St. Suite 350
Riverside, CA 92501
tel: 951.221.3142
fax: 408.985.7260
www.VerdeDesigninc.com

STAMP

LICENSED ARCHITECT — ROGER CLARKE — Exp. 10-31-27 — STATE OF CALIFORNIA

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	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25

NO.	REVISIONS	DATE

DRAWN BY	CHECKED BY
NIELS ACOSTA	ALVIN FLORES
DATE ISSUED: 11/26/2025	SCALE
PROJ. NO.: 2223000	
SHEET NO.: AS-1.1	

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MOUNTING HEIGHTS

DIMENSIONS	ADULTS	PRE-KINDER AGES 3-4	KINDER AGES 5-8	ELEMENTARY AGES 9-12
TOILET OFFSET (CENTERLINE FROM WALL)	17"-18" (USE 17 1/2")	12"	12"-15"	15"-18"
TOILET SEAT HEIGHT (TO TOP OF SEAT)	17"-19"	11"-12"	12"-15"	15"-17"
TOP OF GRAB BAR GRIPPING SURFACE	33"-36"	18"-20"	20"-25"	25"-27"
T.P. DISPENSER OUTLET (CENTERLINE)	19" MIN.	14"	14"-17"	17"-19"
FURTHEST T.P DISPENSER IN FRONT OF W.C (CENTERLINE)	7"-9"	7"-9"	7"-9"	7"-9"
LAVATORY/SINK RIM HEIGHT	34" MAX.	31" MAX.	31" MAX.	31" MAX.
LAVATORY/SINK KNEE CLEARANCE	27" MIN. (29"MIN FOR APRON AT LAVATORY)	PARALLEL APPROACH PERMITTED	AGES 6-8: 24" MIN. AGE 5: PARALLEL APPROACH PERMITTED	24" MIN.
URINAL HEIGHT	17" MAX.	17" MAX.	17" MAX.	17" MAX.
URINAL PROJECTION	13 1/2" MIN.	13 1/2" MIN.	13 1/2" MIN.	13 1/2" MIN.
URINAL FLUSH CONTROL HEIGHT	44" MAX.	44" MAX.	44" MAX.	44" MAX.
HIGH DRINKING FOUNTAIN SPOUT HEIGHT	38"-43"	38"-43"	38"-43"	38"-43"
LOW DRINKING FOUNTAIN APPROACH, SPOUT HEIGHT, AND SPOUT LOCATION FROM FRONT EDGE OF THE UNIT INCLUDING BUMPERS	FRONT APPROACH PER. 11B-306, 36"MAX A.F.F. & 5" MAX FROM FRONT EDGE OF UNIT.	PARALLEL APPROACH PERMITTED IF SPOUT IS 30" MAX A.F.F & 3-1/2"I MAX FROM FRONT EDGE OF UNIT	PARALLEL APPROACH PERMITTED IF SPOUT IS 30" MAX A.F.F & 3-1/2" MAX FROM FRONT EDGE OF UNIT	PARALLEL APPROACH PERMITTED IF SPOUT IS 30" MAX A.F.F & 3-1/2" MAX FROM FRONT EDGE OF UNIT
DRINKING FOUNTAIN OPERABLE PARTS	6" MAX. FROM FRONT EDGE OF THE UNIT	6" MAX. FROM FRONT EDGE OF THE UNIT	6" MAX. FROM FRONT EDGE OF THE UNIT	6" MAX. FROM FRONT EDGE OF THE UNIT
CANTILEVER DRINKING FOUNTAIN PROJECTION	18"-19"	18"-19"	18"-19"	18"-19"
TOE CLEARANCE AT TOILET PARTITION	9" MIN.	12" MIN.	12" MIN.	12" MIN.
SHELF HEIGHT	40"-48"	40"-48"	40" MAX	44" MAX.
MIRROR HEIGHT(BOTTOM EDGE OF REFLECTING SURFACE)	40" MAX (ABOVE LAV. OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV. OR COUNTERTOP)	40" MAX (ABOVE LAV. OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV. OR COUNTERTOP)	40" MAX (ABOVE LAV. OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV. OR COUNTERTOP)	40" MAX (ABOVE LAV.OR COUNTERTOP) 35" MAX. (NOT ABOVE LAV. OR COUNTERTOP)
MIRROR HEIGHT (BOTTOM EDGE OF REFLECTING SURFACE) IN DRESSING, FITTING & LOCKER ROOMS	20" MAX.	20" MAX.	20" MAX.	20" MAX.
RESTROOM DISPENSER & OTHER ACCESSORIES (HEIGHT OF ALL OPERABLE PARTS)	40" MAX.	40" MAX.	40" MAX.	40" MAX.

NOTE:
1. ALL HEIGHT DIMENSIONS ARE A.F.F.(OR A.F.G. FOR EXTERIOR). ALL HORIZONTAL DIMENSIONS ARE TO FACE FINISH.
2. CONTRACTOR TO PROVIDE MOUNTING HEIGHTS INDICATED, VERIFY INTENDED USE OF EACH RESTROOM PRIOR TO ROUGH IN. PROVIDE BACKING PER STRUCTURAL DRAWING AS REQUIRED. THE PROJECTION FROM A SURFACE OR SEMI-RECESSED FIXTURE FROM THE FACE OF THE WALL OR PARTITION SHALL BE LIMITED TO 3" AND NO CLOSER THAN 1-1/2" TO THE TANGENT POINT OF GRAB BAR.

ACCESSORIES & EQUIP. KEYNOTES

ACCESSORIES

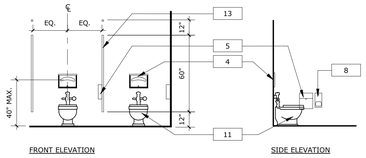
1. 18"WX30"H TEMPERED GLASS MIRROR
2. RECESSED PAPER TOWEL DISPENSER AND WASTE DISPOSAL
3. RECESSED ELECTRIC HAND DRYER
4. SURFACE MOUNTED TOILET SEAT COVER DISPENSER
5. SURFACE MOUNTED TOILET TISSUE DISPENSER.
6. SURFACE MOUNTED LIQUID SOAP DISPENSER INSTALLED AT +40" A.F.F (OVER OBSTRUCTION)
7. GRAB BARS (SIDE=48"L x 1-1/2" DIA, REAR=36"L x 1-1/2" DIA.)
8. SURFACE MOUNTED FEMININE NAPKIN DISPOSAL (WOMENS ONLY).
9. STAINLESS STEEL MIRROR

EQUIPMENT

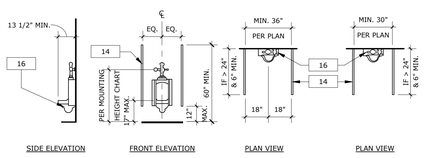
10. ACCESSIBLE LAVATORY
11. NON-ACCESSIBLE WATER CLOSET.
12. NON-ACCESSIBLE URINAL.
13. TOILET PARTITION.
14. URINAL SCREEN.
15. ACCESSIBLE WATER CLOSET.
16. ACCESSIBLE URINAL.

MECHANICAL/PLUMBING

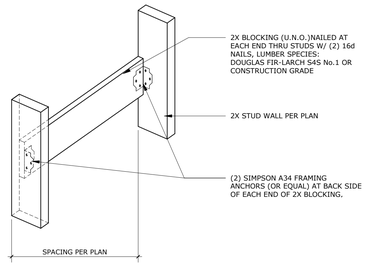
17. INSULATE DRAIN AND SUPPLY PIPING TO PREVENT CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER THE LAVATORY, PER CBC 2022 SEC. 11B-606.5



FRONT ELEVATION — SIDE ELEVATION



SIDE ELEVATION — FRONT ELEVATION — PLAN VIEW — PLAN VIEW



CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SAN SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED GRADE 2 BRAILLE

CHARACTER SIZE:RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH.

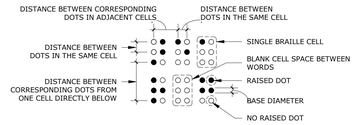
FINISH AND CONTRAST : CONTRAST BETWEEN CHARACTERS, SYMBOLS , AND THEIR BACKGROUNDS MUST BE 70% MINIMUM AND HAVE A NON -GLARE FINISH

PROPORTIONS: VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I" , STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 15 PERCENT WHEN VISUAL AND RAISED ARE COMBINED.

BRAILLE: CONTRACTED CALIFORNIA GRADE 2 BRAILLE SHALL BE USED WHENEVER CONTRACTED BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. MEASURED FROM THE SECOND COLUMN OF DOTS IN THE FIRST CELL TO THE FIRST COLUMN OF DOTS IN THE SECOND CELL. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.

MOUNTING HEIGHT : SIGNS WITH RAISED CHARACTERS AND BRAILLE SHALL BE LOCATED 48" MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE ,MEASURED FROM THE BASELINE OF THE LOWEST LINE OF BRAILLE AND 60" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE ,MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.

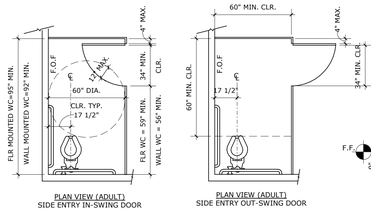
BRAILLE TEMPLATE



BRAILLE DIMENSIONS

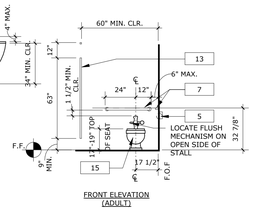
MEASUREMENT RANGE	MIN IN INCHES - MAX IN INCHES
DOT BASE DIAMETER	.059 (1.5mm) - .063 (1.6mm)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL[1]	.100 (2.5mm)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACET CELLS[1]	.300 (7.6mm)
DOT HEIGHT	.025 (.6mm) - .037 (.9mm)
DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW[1]	.395 (10mm) - .400 (10.2mm)
1. MEASURED CENTER TO CENTER	

NON-ACCESSIBLE TOILET ROOM STALL

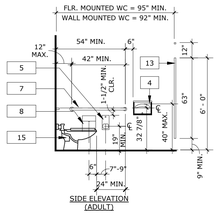


PLAN VIEW (ADULT) SIDE ENTRY IN-SWING DOOR

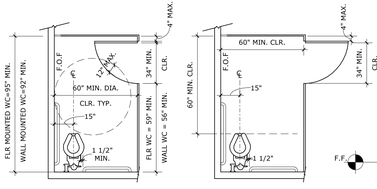
PLAN VIEW (ADULT) SIDE ENTRY OUT-SWING DOOR



FRONT ELEVATION (ADULT)

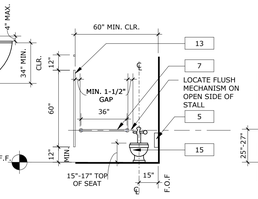


SIDE ELEVATION (ADULT)

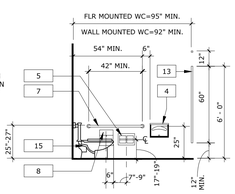


PLAN VIEW (AGES 9-12) SIDE ENTRY IN-SWING DOOR

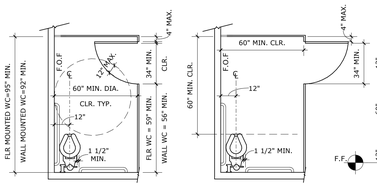
PLAN VIEW (AGES 9-12) SIDE ENTRY OUT-SWING DOOR



FRONT ELEVATION (AGES 9-12)

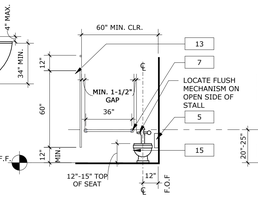


SIDE ELEVATION (AGES 9-12)

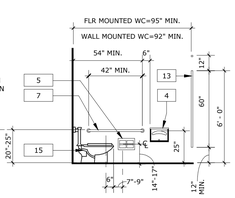


PLAN VIEW (AGES 5-8) SIDE ENTRY IN-SWING DOOR

PLAN VIEW (AGES 5-8) SIDE ENTRY OUT-SWING DOOR



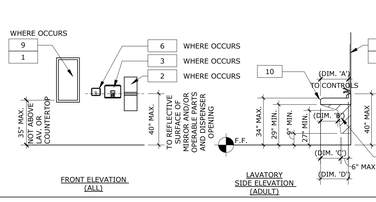
FRONT ELEVATION (AGES 5-8)



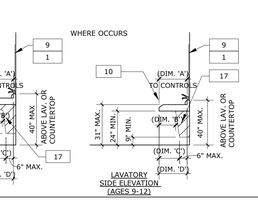
SIDE ELEVATION (AGES 5-8)

ACCESSIBLE TOILET ROOM STALL (SEE EACH FOR AGE)

ACCESSIBLE URINAL (ALL AGES)

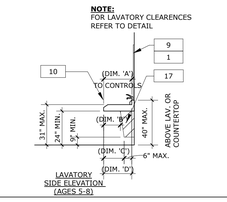


FRONT ELEVATION (ALL)



LAVATORY SIDE ELEVATION (ADULT)

LAVATORY SIDE ELEVATION (AGES 9-12)



LAVATORY SIDE ELEVATION (AGES 5-8)

ACCESSIBLE TOILET ROOM FIXTURES & ACCESSORIES (SEE EACH FOR AGE)

TOILET ROOM FIXTURES AND ACCESSORIES CLEARANCES1

SCALE: 1/4" = 1'-0" REF.: / 25

TYP BLOCKING @ STUD WALL

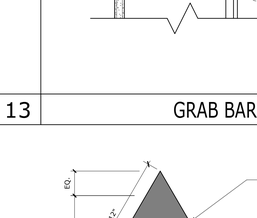
SCALE: 1 1/2" = 1'-0" REF.: / 12



NOTE:
REFER TO MANUFACTURERS INSTALLATION MANUAL FOR SPECIFIC HARDWARE AND ATTACHMENT.

ANCHORAGE TOILET PARTITION

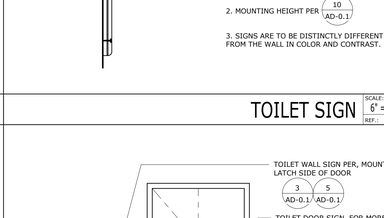
SCALE: 3" = 1'-0" REF.: / 13



NOTE:
FOR MOUNTING HEIGHT REFER TO DETAIL. 25 AD-0.1

GRAB BAR AT STUD WALL1

SCALE: 3" = 1'-0" REF.: / 8



NOTES:
1. ATTACH SIGNS USING (3) THREE FLATHEAD COUNTERSUNK SCREWS TO SOLID BACKING AND ADESIVE TO BACK.
2. MOUNTING HEIGHT PER 10 AD-0.1
3. SIGNS ARE TO BE DISTINCTLY DIFFERENT FROM THE WALL IN COLOR AND CONTRAST.

TOILET SIGN

SCALE: 6" = 1'-0" REF.: / 3

BOY'S /MEN'S WALL SIGN

GIRL'S /WOMEN'S WALL SIGN

UNISEX WALL SIGN
(USE FOR ALL SINGLE -USER RESTROOMS)

TITLE 24 BOY'S /MEN'S DOOR SIGN

TITLE 24 GIRL'S /WOMEN'S DOOR SIGN

NOTES:
1. ALL TEXT /GRAPHICS TO BE WHITE ON CONTRASTING BACKGROUND,TYP.
2. BACKGROUND COLOR T.B.D. BY ARCHITECT , TYP.
3. FOR MORE INFO. ON SIGN PLACEMENT ,REFER TO DETAIL

Ref

TITLE 24 UNISEX DOOR SIGN (USE FOR ALL SINGLE -USER RESTROOMS)

RESTROOM SIGN

SCALE: 2" = 1'-0" REF.: / 10

NOTES:
1.FOR ADDITIONAL INFORMATION, REFER TO DETAILS
2.FOR SIGNAGE REQUIREMENTS,REFER TO DETAIL 2 AD-0.1

TOILET SIGNS

SCALE: 1/2" = 1'-0" REF.: / 4

SIGN ATTACH. FRAMED WALL

SCALE: 3" = 1'-0" REF.: / 5

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

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STAMP



CONSULTANT

RUHNAU CLARKE ARCHITECTS

SHEET 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

NO.	REVISIONS	DATE

DRAWN BY: NIELS ACOSTA
CHECKED BY: ALVIN FLORES
DATE ISSUED: 11/26/2025
SCALE:
PROJ. NO.: 2223000

SHEET NO. AD-0.1

THESE PLANS, SPECIFICATIONS AND DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY THE ARCHITECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY THE ARCHITECT. ALL DRAWINGS, AND ARE CREATIVE, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. ARE THE PROPERTY OF VERDE DESIGN, INC. AND ARE PROTECTED BY AND THE PROPERTY OF VERDE DESIGN, INC. AND ARE CREATIVE, EVOLVED, AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED, REPRODUCED, OR PUBLISHED BY ANY METHOD, IN WHOLE OR IN PART, OR DISCLOSED TO ANY PERSON, FIRM, OR CORPORATION FOR ANY PURPOSE WHATSOEVER EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY THE ARCHITECT.

DEMOLITION NOTES

1. REFER TO LANDSCAPE AND CIVIL DEMOLITION DRAWINGS FOR MOLITION 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 OF 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 INTERPRETATING 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.

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 ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES; AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE, AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

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 ENCASEMENT, 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 WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

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 30" 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.

20. 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.

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

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

25. 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

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

30. 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.

31. GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, BOTH OF THE STATE OF CALIFORNIA AND LOCAL AUTHORITIES HAVING JURISDICTION.

32. PROVIDE GROUND WIRE IN EACH CONDUIT CONTAINING CIRCUITS FEEDING RECEPTACLES. THE CONDUIT SHALL NOT BE PERMITTED TO SERVE AS THE ONLY ELECTRICAL GROUND RETURN PATH.

33. PROVIDE HANDLE TIES AT CIRCUIT BREAKERS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS OF MULTI-WIRE BRANCH CIRCUITS WITH A SHARED NEUTRAL.

34. UNLESS NOTED OTHERWISE ALL 120 VOLT HOMERUNS OVER 100 FEET SHALL BE #10 AWG MINIMUM. ADJUST CONDUIT SIZE ACCORDINGLY.

36. PROVIDE THE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.

37. CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (REFER TO PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS NOTED OTHERWISE.

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.

- DBL E0.2 — PANELBOARD, ADJACENT LINE INDICATES PANEL FRONT. ADJACENT BALLOON 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
- B-5,7,9 — HOMERUN TO PANEL "B" FOR CIRCUITS 5, 7, 9 WITH SEPARATE NEUTRALS.
- 2 / E1.0 — DETAIL CALLOUT, "2" INDICATES DETAIL, "E1.0" INDICATES DRAWING WHERE DETAIL OCCURS.

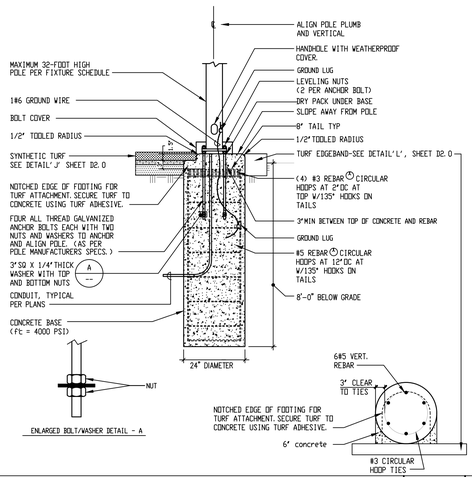
ABBREVIATIONS LIST

+45"	MOUNTING HEIGHT TO CENTER LINE OF DEVICE FROM FINISH FLOOR OR EXTERIOR GRADE	IG	ISOLATED GROUND AND ISOLATED NEUTRAL
1	KEY NOTE CALLOUT. REFER TO CORRESPONDING NOTE ON DRAWING WHERE CALLOUT OCCURS.	J-BOX	JUNCTION BOX
		KVA	KILOVOLT AMPERES
		KW	KILOWATT
A.F.F.	ABOVE FINISH FLOOR	LCL	LONG CONTINUOUS LOAD
A.F.G.	ABOVE FINISH GRADE	LTG, LTS	LIGHTING
AWG	AMERICAN WIRE GAUGE	MCB	MAIN CIRCUIT BREAKER
AMP, A	AMPERE	MLO	MAIN LUGS ONLY
A.I.C.	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)	NEC	NATIONAL ELECTRICAL CODE
		NIC	NOT IN CONTRACT
CIRC.,CKT.	CIRCUIT	PH. or Φ	PHASE
CB	CIRCUIT BREAKER	PROVIDE	FURNISH, INSTALL AND CONNECT.
C	CONDUIT	REC, RECEPT	RECEPTACLE
CLCB	CURRENT LIMITING CIRCUIT BREAKER	RGS	RIGID GALVANIZED STEEL
C.O.	CONDUIT ONLY.	SECONDARY	600 VOLTS AND LESS
CONN	CONNECTED	TYP	TYPICAL
DIA	DIAMETER	U.N.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
GFP	GROUND FAULT PROTECTION	2P	DOUBLE POLE
GRD	GROUND	3P	TRIPLE POLE

LIGHTING FIXTURE SCHEDULE

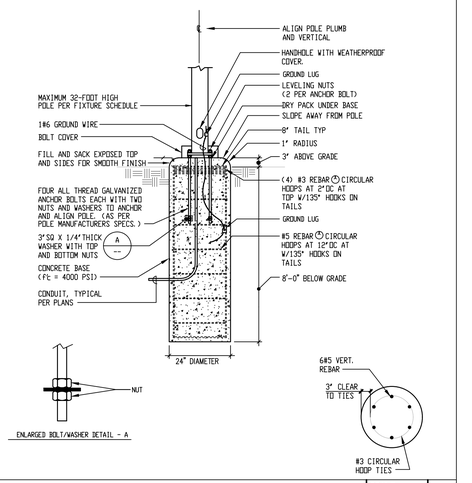
SYMBOL	TYPE	GENERAL DESCRIPTION	MANUFACTURER MODEL #	LUMENS	CCT	SYSTEM WATTAGE	NOTES	MOUNTING
□→	SP1A	SINGLE-HEAD, LED POLE FIXTURE ON ROUND STRAIGHT ALUMINUM POLE. TYPE T3 OPTIC WITH BACKLIGHT CONTROL. 0-10V DIMMABLE. PROVIDE NECESSARY POLE HEIGHT FOR FIXTURE MOUNTING AT 30'-0" A.F.G. FINISH TO BE SELECTED BY LANDSCAPE ARCHITECT.	LITHONIA DSX1 LED-P4-35K-80CRI-BLC3-MVOLT-SPA-[CONTROLS?]-[FINISH?] POLE: RSA-30-6G-DM19AS-[OPTIONS?]-[FINISH?]	11190	3500K	124	CONTRACTOR TO VERIFY EXACT POLE HEIGHT TO MAINTAIN 30'-0" FROM THE BOTTOM OF THE FIXTURE TO FINISHED GRADE PRIOR TO ORDERING.	POLE
□→	SP1B	SINGLE-HEAD, LED POLE FIXTURE ON ROUND STRAIGHT STEEL POLE. TYPE T3 OPTIC WITH BACKLIGHT CONTROL. 0-10V DIMMABLE. PROVIDE NECESSARY POLE HEIGHT FOR FIXTURE MOUNTING AT 30'-0" A.F.G. FINISH TO BE SELECTED BY LANDSCAPE ARCHITECT.	LITHONIA DSX1 LED-P4-35K-80CRI-BLC3-MVOLT-SPA-[CONTROLS?]-[FINISH?] POLE: RSS-30-6G-DM19AS-[OPTIONS?]-[FINISH?]	11190	3500K	124	CONTRACTOR TO VERIFY EXACT POLE HEIGHT TO MAINTAIN 30'-0" FROM THE BOTTOM OF THE FIXTURE TO FINISHED GRADE PRIOR TO ORDERING.	POLE

DO NOT REVIEW - According to IR A-22, light poles under 35' tall, supported on grade are exempt from DSA review.



SEMI-FLUSH POLE BASE DETAIL - TURF | SCALE: NTS | 2

DO NOT REVIEW - According to IR A-22, light poles under 35' tall, supported on grade are exempt from DSA review.



SEMI-FLUSH POLE BASE DETAIL | SCALE: NTS | 1

SHEET INDEX

E0.1 GENERAL NOTES, SYMBOL LIST, AND FIXTURE SCHEDULE.
E0.2 SINGLE LINE DIAGRAM AND PANEL SCHEDULE
E1.0 SITE ELECTRICAL PLAN
E2.0 ELECTRICAL SPECIFICATIONS
E2.1 ELECTRICAL SPECIFICATIONS
E2.2 FIRE ALARM SYSTEM INFORMATION
E2.3 ENLARGED RESTROOM PLAN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

VERDE DESIGN
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CONSULTANT



09/22/2026

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Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
fbaengr.com
FBA Job Number: 1175.032

SHEET TITLE
GENERAL NOTES, SYMBOL LIST, AND FIXTURE SCHEDULE

PROJECT NAME
HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS

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

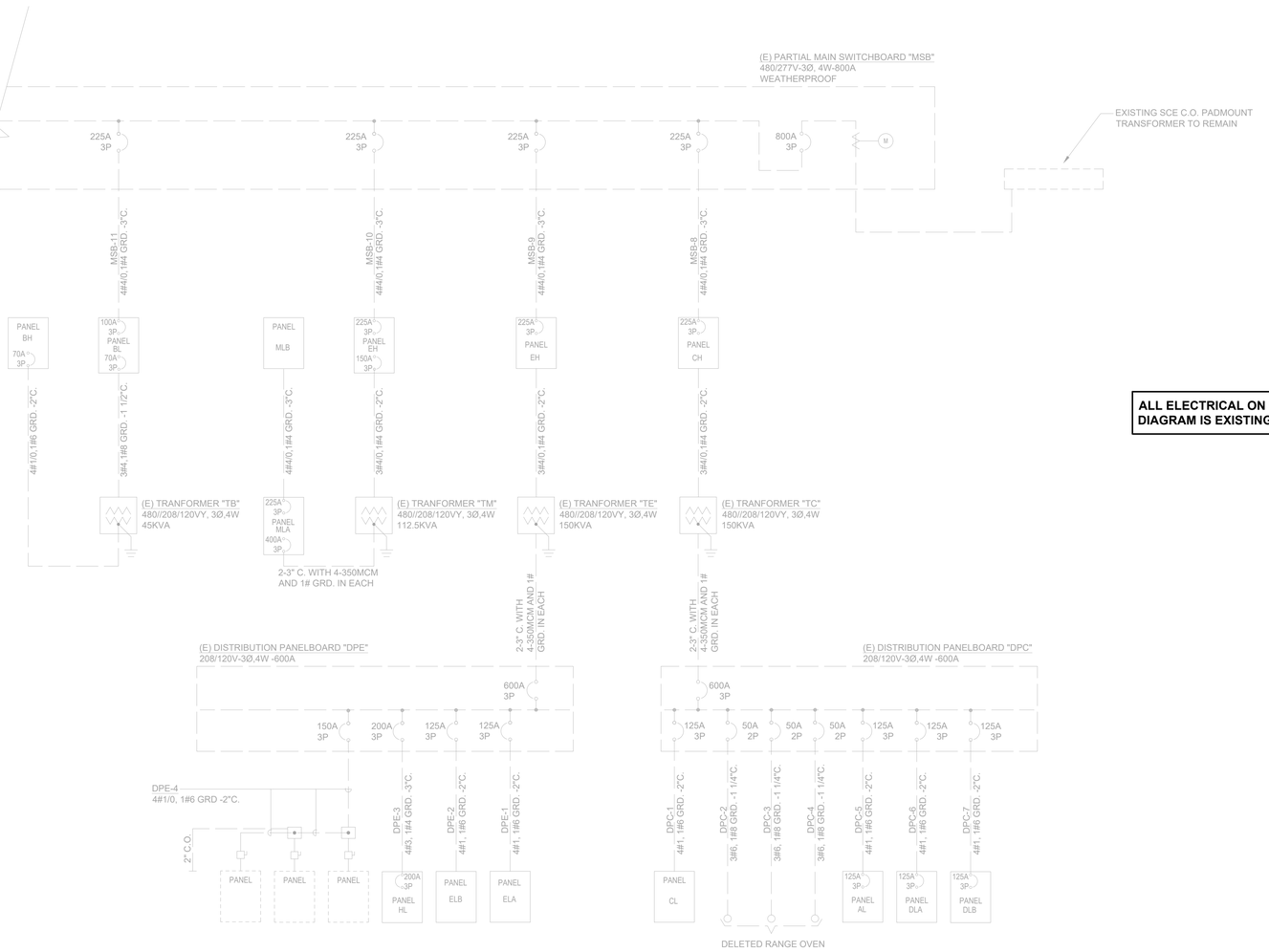
SUBMITTAL	DATE
DESIGN DEVELOPMENT SUBMITTAL	11/26/25
DSA SUBMITTAL	03/10/26

NO.	REVISIONS	DATE

DRAWN BY
CHECKED BY DC/CG
DATE ISSUED 03/10/2026
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PROJ. NO. 2223000
SHEET NO. E0.1

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ALL ELECTRICAL ON SINGLE LINE DIAGRAM IS EXISTING TO REMAIN

SINGLE LINE DIAGRAM

SCALE: N.T.S 1

Panel: (E) DLB **Project:** 1175.032

Location: BUILDING D ELECTRICAL ROOM **Voltage:** 120/208 **A.I.C Rating:**
Supply From: MSB **Phases:** 3 **Main:** 125A
Mounting: SURFACE **Wires:** 4 **Bus:** 225A

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	
	SPARE			20/1				19 20				20/1			SPARE	
	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.

Connected Load

	A	B	C
Phase VA:	3072	3072	2160
Phase A:	25.6	25.6	18.0

Subtotal VA: 8304 VA
Subtotal Amps: 23.0 A

Demand Load

NEC	Demand	Load
L - L.C.L.	125%	930
R - Receptacle	100%	7560
IF > 10kVA	50%	0
K - Kitchen	65%	0
G - General	100%	0
M - Motor	100%	0
M1 - Largest Motor	125%	0
X - X-Ray	100%	0
X1 - X-Ray	50%	0
Other Loads	100%	0

Total VA: 8490 VA
Total Amps: 23.6 A

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SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

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LICENSED ARCHITECT ROGER CLARK No. C-21464 Exp. 10-31-27 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER STEPHEN R. DALTON No. E 10372 Exp. 09-30-26 ELECTRICAL STATE OF CALIFORNIA

09/15/2026

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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

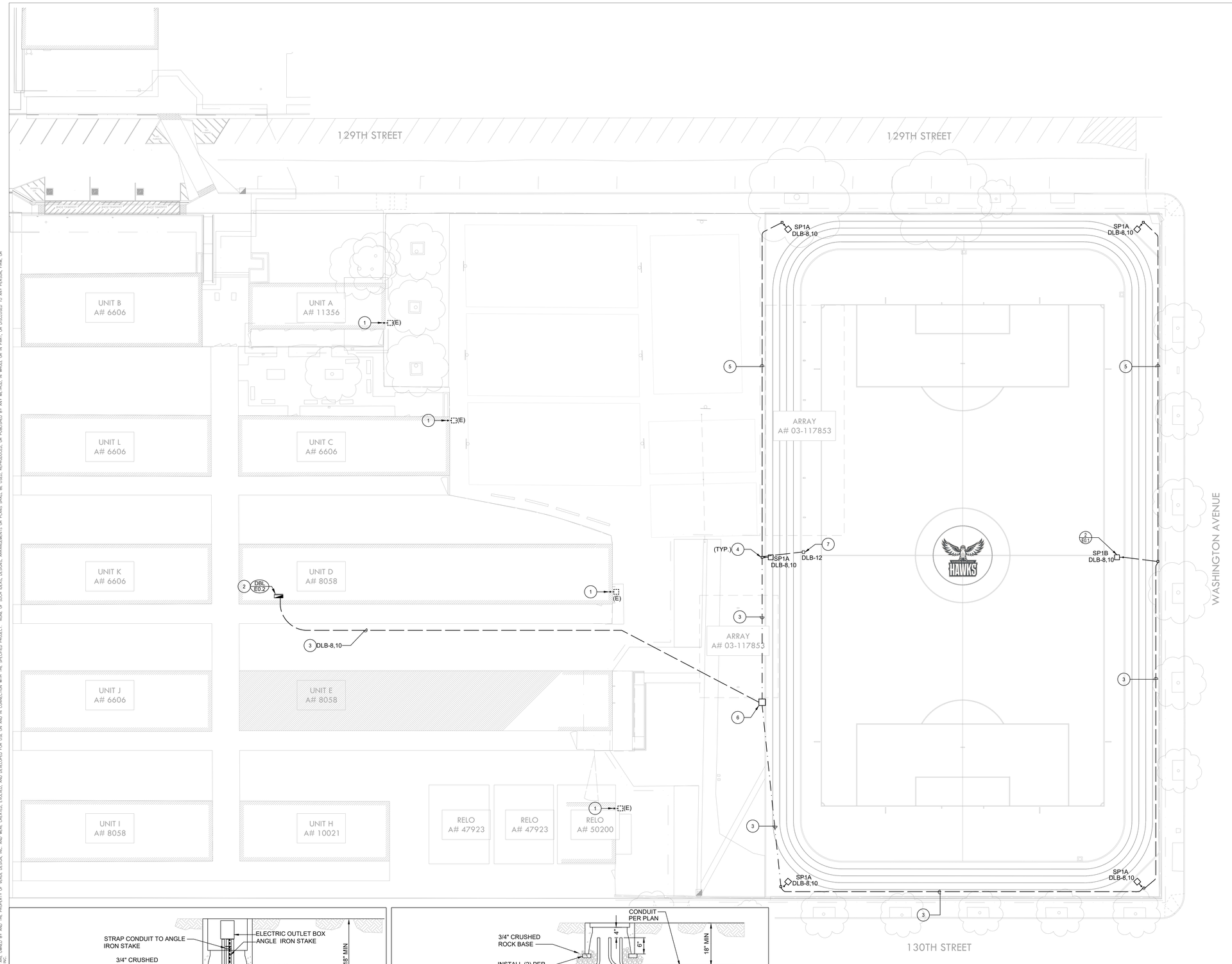
PROJECT ADDRESS
4366 W 129TH ST, HAWTHORNE, CA 90250

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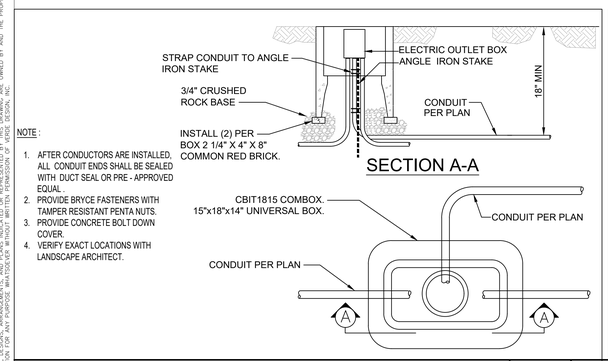
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DATE ISSUED 03/10/2026
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SHEET NO. E0.2

DRAWING SCALE: AS NOTED PLOT DATE: 09-15-26 PLOTTED BY: Glenda Tapia Lastra



KEY NOTES

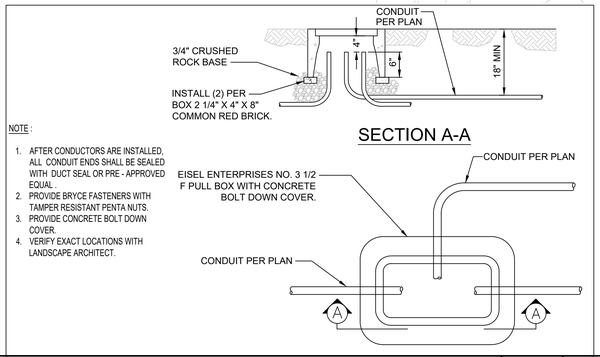
1. EXISTING FLOODLIGHT TO REMAIN. PROTECT IN PLACE.
2. EXISTING PANELBOARD IN BLDG.D TO REMAIN.
3. 3/4" C. 4#8 & 1#8 GRD.
4. 11" X 17" CONCRETE PULLBOX. ROUTE ALL CONDUITS AND WIRING AS SHOWN FROM PULLBOX TO LIGHT POLE AND CONNECT AS REQUIRED. REFER TO DETAIL 2/E1.0.
5. 3/4"C - 2#8 & 1#8 GRD.
6. 11" 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.



NOTE :

1. AFTER CONDUCTORS ARE INSTALLED, ALL CONDUIT ENDS SHALL BE SEALED WITH DUCT SEAL OR PRE - APPROVED EQUAL .
2. PROVIDE BRYCE FASTENERS WITH TAMPER RESISTANT PENTA NUTS.
3. PROVIDE CONCRETE BOLT DOWN COVER.
4. VERIFY EXACT LOCATIONS WITH LANDSCAPE ARCHITECT.

COMBOX + ELEVATION DETAIL | SCALE: NTS | 3



NOTE :

1. AFTER CONDUCTORS ARE INSTALLED, ALL CONDUIT ENDS SHALL BE SEALED WITH DUCT SEAL OR PRE - APPROVED EQUAL .
2. PROVIDE BRYCE FASTENERS WITH TAMPER RESISTANT PENTA NUTS.
3. PROVIDE CONCRETE BOLT DOWN COVER.
4. VERIFY EXACT LOCATIONS WITH LANDSCAPE ARCHITECT.

11" x 17" PULL BOX DETAIL | SCALE: NTS | 2

SITE ELECTRICAL PLAN | SCALE: 1"=20'-0" | 1

SITE PLAN GENERAL NOTES

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

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

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09/21/2026

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fbaengr.com
FBA Job Number: 1175.032

SHEET TITLE
SITE ELECTRICAL 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
CHECKED BY DC/CG
DATE ISSUED 03/10/2026
SCALE
PROJ. NO. 2223000
SHEET NO. E1.0

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DRAWING NAME: S:\1175\00 Hawthorne MS Field & Track Improvements\03_CAD\E1.0_HTMS05-SITE ELECTRICAL PLAN.dwg
PLOT DATE: 09-21-26 PLOTTED BY: Adam

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 conductors 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 "8 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 resubmittals 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: Sealtite Type U.A. with Appleton Series "ST" connectors.

F. Rigid Non-Metallic Conduit (RNMC):

1. Polyvinyl Chloride (PVC)-RNMC

a. PVC-Schedule 40 heavy wall construction.
b. PVC-Schedule 80 extra heavy wall construction.
c. PVC-Type EB.

2. RNMC 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 5-2OR. 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 "FS" 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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DRAWING NAME: G:\PROJECTS\2022\2223000 HAWTHORNE MIDDLE SCHOOL TURF FIELD & TRACK IMPROVEMENTS\CAD\E2.0 ELECTRICAL SPECIFICATIONS.dwg
PLOT DATE: 09-15-25 PLOTTED BY: Sheila Tagle Valdez

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FBA Job Number: 1175.032

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

DRAWN BY	CHECKED BY
	DC/CG
DATE ISSUED	SCALE
03/10/2026	

PROJ. NO.
2223000

SHEET NO.
E2.0

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 micarta 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-made, quick-break, h.p. rated, fusible or non-fusible Class "R", 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 "hall" 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. Tops 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 6-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, trims 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.

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DRAWING NAME: E2.1 ELECTRICAL SPECIFICATIONS.dwg
PLOT DATE: 09-15-26 PLOTTED BY: Glenda Tagle Loaiza

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

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FBA Job Number: 1175.032

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
1		
2		
3		
4		
5		
6		

DRAWN BY	CHECKED BY
	DC/CG
DATE ISSUED	SCALE
03/10/2026	

PROJ. NO.
2223000

SHEET NO.
E2.1

FIRE ALARM SYSTEM EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MANUFACTURER MODEL NO.#	MNT. HEIGHT REQ.	BACKBOX REQ.	CSFM NO.#	NOTES
FACP	FIRE ALARM CONTROL PANEL "FACP"	FIRE-LITE ES-200X	TOP OF BOX BELOW 6' 3"	15"X14.5"X2.65"	7165-0075:0158	
FAPS	FIRE ALARM EXPANDER PANEL	FIRE-LITE FCPS-24	TOP OF BOX BELOW 6' 3"	N/A	7300-0559:1237	
S	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR	FIRE-LITE SD365	FLUSH ON CEILING	4S BOX WITH RING	7272-0075:0502	
#cd	FIRE ALARM WALL HORN/STROBE	WHEELOCK NS-241575W-FR	WALL MNT. +80" A.F.F. TO BOTTOM OF LENSE	4S BOX WITH RING	7125-0785:0142	

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

SYSTEM OUTPUTS \ SYSTEM INPUTS	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							(1)	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 UUJS (REMOTE & PROPRIETARY) BY THE UNDERWRITERS LABORATORY INC. ****

DSA ADDITIONAL NOTES

1. APPLICABLE STANDARD NFPA STANDARD 72 (2025) AS AMENDED IN CBC CHAPTER 35.\
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.
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 (PJI).
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
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.
6. DSA, ARCHITECT, ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
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.
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.
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.
10. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
11. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
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.
13. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE LISTED FOR WET LOCATIONS.
14. ALL FIRE ALARM CIRCUITS, WIRING-CABLES SHALL BE FPL (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PLENUM) 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.
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.
16. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FOOT FROM FIRE SPRINKLERS OR 3'FEET 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.
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.
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" LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION AND BE LABELED AS FOLLOWS.

A. "FIRE ALARM" FOR FIRE ALARM SYSTEMS.
B. "EMERGENCY COMMUNICATIONS" FOR EMERGENCY COMMUNICATIONS SYSTEMS
OR
C. "FIRE ALARM/ECS" FOR COMBINATION FIRE ALARM AND COMMUNICATIONS SYSTEMS.

19. THE INSTALLING CONTRACTOR SHALL PROVIDE A COMPLETED RECORD OF COMPLETION PER THE CURRENT NFPA 72 EDITION (2025), FIGURE 7.8.2(A) THROUGH (I) AS APPLICABLE.
20. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER 2025 CFC SECTION 901.6.2
21. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AND SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
22. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING A FIRE ALARM SYSTEM MONITORING CONTRACT.

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 CONDUIT(S) AS FIELD CONDITIONS REQUIRE. CONTRACTOR TO INSTALL ALL DEVICES ACCORDING TO MANUFACTURERS INSTRUCTIONS AND IN COMPLIANCE WITH ALL APPLICABLE CODES.
8. CONTRACTOR SHALL VERIFY LOCATION OF POST INDICATOR VALVES (PIVs) AND/OR OUTSIDE STEM & YOKE (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 DEVICE, THE FLEX CONDUIT CAN BE NO LONGER THAN 5 FEET.

PROJECT SCOPE OF WORK

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.

FIRE ALARM SYSTEM APPLICABLE CODES-NOTES

FIRE ALARM SUBMITTAL IS A COMPLETE PLAN SUBMITTAL IN ACCORDANCE WITH CFC-901.1 AND 907.1.1.

FIRE ALARM COMPLETE PLAN SUBMITTAL

1.0 PROJECT INFORMATION

A. OCCUPANCY GROUP:

FIRE ALARM NOTE:

REFER TO ARCHITECTURAL DRAWINGS.

B. CONSTRUCTION TYPE:

REFER TO ARCHITECTURAL DRAWINGS.

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).

D. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.

E. PROVIDE A STATEMENT OF COMPLIANCE WHEN REQUESTING INSPECTION CFC 901.2.1

F. THE FIRE ALARM SYSTEM DESIGN FOR THIS PROJECT IS AN FULLY AUTOMATIC ADDRESSABLE SYSTEM .

2.0 APPLICABLE CODES AND STANDARDS

2025 California Administrative Code (CAC), P[art 1, Title 24 CCR
2025 California Building Code (CBC), Part 2, Title 24 CCR
2025 California Electrical Code (CEC), Part 3, Title 24 CCR
2025 California Mechanical Code (CMC), Part 4, Title 24 CCR
2025 California Plumbing Code (CPC), Part 5, Title 24 CCR
2025 California Energy Code, Part 6, Title 24 CCR
2025 California Fire Code (CFC), Part 9, Title 24 CCR
2025 California Existing Building Code (CEBC), Part 10, Title 24 CCR
2025 California Green Building Standards Code (CalGreen), Part 11, title 24 CCR
2025 California Referenced Standards Code, Part 12, title 24 CCR Title 19 CCR, Public Safety, State Fire Marshal Regulations Applicable Standards

For a list of applicable standards, including California Amendments to the NFPA Standards, refer to 2025-CBC Chapter 35 and C2025-FC Chapter 80.

B. PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED) 2025 EDITION

3.0 PROJECT NOTES:

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.

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.

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.

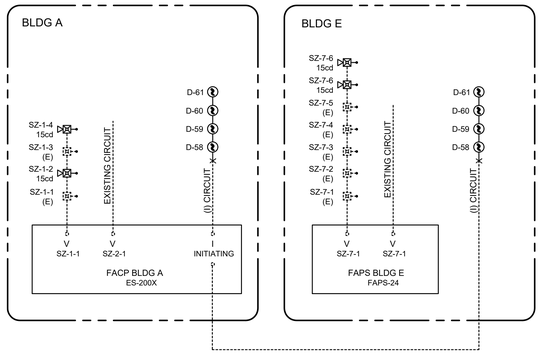
5.0 NEW FIRE ALARM SYSTEM SHALL BE PROVIDED WITH A DOCUMENTATION CABINET AS REQUIRED PER NFPA 72 (2022) REQUIREMENTS. CABINET SHALL BE NSTALLED-LOCATED NEXT TO THE MAIN FIRE ALARM CONTROL PANEL. IF IT CANNOT BE LOCATED NEXT TO THE FACP IT SHALL BE LOCATED AT AN APPROVED LOCATION.

5.1 THE DOCUMENTATION CABINET SHALL HAVE A PROMINENT LABEL AFFIXED TO THE CABINET DOOR, "FIRE ALARM SYSTEM RECORD DOCUMENTS".

5.2 ALL RECORD, TESTING DOCUMENTATION, ASBUILT RECORD PLANS, FIRE ALARM SYSTEM PROGRAM PRINTOUT SHALL BE STORED IN THE CABINET.

5.3 ALL CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.

FIRE ALARM SYSTEM RISER DIAGRAM



FIRE ALARM SYSTEM CALCULATIONS

BATTERY BACKUP CALCULATION-FACP

QTY	BUILDING-A	STAND-BY CURRENT (AMPS)	ALARM CURRENT (AMPS)
	EXISTING LOAD	0.146	1.188
	ADDED DEVICES		
4	SMOKE DETECTOR	0.0011	0.0011
	SUB TOTAL =	**0.1467**	**1.1891**

QTY	FACP NOTIFICAITON CIRCUITS	STAND-BY CURRENT (AMPS)	ALARM CURRENT (AMPS)
	REMOVED		
2	STROBES (RS-241575-VFR)	0.0000	0.2300
	ADDED	0.0000	
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
	REMOVED		
2	STROBES (RS-241575-VFR)	0.0000	0.2300
	ADDED	0.0000	
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.

DETECTOR NOTES-MOUNTING DETAIL

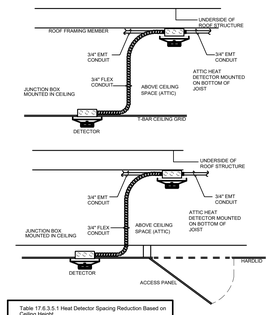
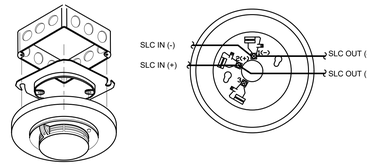


Table 17.5.3.5.1 Heat Detector Spacing Reduction Based on Ceiling Height

Ceiling Height Greater than (>)		Up to and Including		Multiply Listed Spacing by
ft	m	ft	m	
0	0	10	3.0	1.00
10	3.0	12	3.7	0.91
12	3.7	14	4.3	0.84
14	4.3	16	4.9	0.77
16	4.9	18	5.5	0.71
18	5.5	20	6.1	0.64
20	6.1	22	6.7	0.58
22	6.7	24	7.3	0.52
24	7.3	26	7.9	0.46
26	7.9	28	8.5	0.40
28	8.5	30	9.1	0.34



17.5.3 - Detector Coverage. (Heat Detectors)

17.5.3.1.1 Where inaccessible areas are constructed of or contain combustible material, unless otherwise specified in 17.5.3.1.2, they shall be made accessible and shall be protected by a detector(s).

17.5.3.1.2 Detectors shall not be required in combustible blind spaces if any of the following conditions exist:

(1) Where the ceiling is attached directly to the underside of the supporting beams of a combustible roof or floor deck.
(2) Where the concealed space is entirely filled with a noncombustible insulation. (In solid joist construction, the insulation shall be required to fill only the space from the ceiling to the bottom edge of the joist of the roof or floor deck.)
(3) Where there are small concealed spaces over rooms, provided that any space in question does not exceed 50 sc (4.6 m2) in area.

17.6.3.3* Beam Construction.

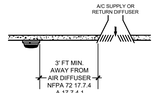
17.6.3.3.1 Spacing. (Heat or Smoke Detectors)

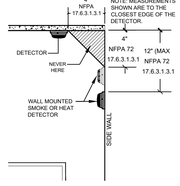
17.6.3.3.1.1 A ceiling shall be treated as a smooth ceiling if the beams project no more than 4 in. (100 mm) below the ceiling.

17.6.3.3.1.2 Where the beams project more than 4 in. (100 mm) below the ceiling, the spacing of spot-type heat detectors at right angles to the direction of beam travel shall be not more than two-thirds of the listed spacing.

17.6.3.3.1.3 Where the beams project more than 18 in. (460 mm) below the ceiling and are more than 8 ft (2.4 m) on center, each bay formed by the beams shall be treated as a separate area.

17.6.3.3.2 Location. Where beams are less than 12 in. (300 mm) in depth and less than 8 ft (2.4 m) on center, detectors shall be permitted to be installed on the bottom of beams.





17.7.1.8* Unless specifically designed and listed for the expected conditions, smoke detectors shall not be installed if any of the following ambient conditions exist:

(1) Temperature below 32°F (0°C)
(2) Temperature above 100°F (38°C)
(3) Relative humidity above 93 percent
(4) Air velocity greater than 300 ft/min (1.5 m/sec)

CENTRAL STATION INFO.

CENTRAL STATION MONITORING INFORMATION

AVANTGUARD MONITORING CENTERS (100523-727)
4699 HARRISON BLVD STE 100
OGDEN UT 84403-4368

BP10390-1 CRZM MONITORING STATIONS S3955-1 UUFX SIGNAL AND FIRE ALARM EQUIPMENT SERVICES.

FIRE ALARM SERVICE/MONITORING COMPANY:

BAY ALARM

SCOTT MCCOY
(818) 335-0216
MARISELA VASQUEZ
(310) 505-8621

STATE LICENSE NUMBER:
CA CSL 880138, ACO 28, CSFM TYPE 1 LICENSE, A-0471

SCHOOL ACCOUNT NUMBER:
2938634

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-125961 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/12/2026

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
3685 Main St. Suite 350
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STAMP

LICENSED ARCHITECT ROGER CLARK No. C-21360 Exp. 10-31-27 STATE OF CALIFORNIA

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER STEPHEN R. ZALTZMAN No. E 10372 Exp. 09-30-26 ELECTRICAL STATE OF CALIFORNIA

09/15/2026

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Costa Mesa, CA 92626
949.852.9995 • 949.852.1657 (fax)
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

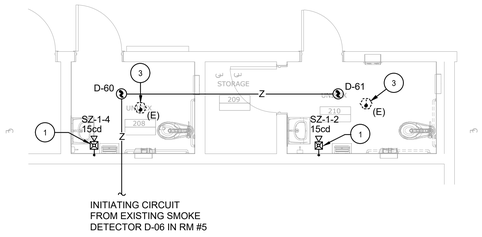
NO.	REVISIONS	DATE

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

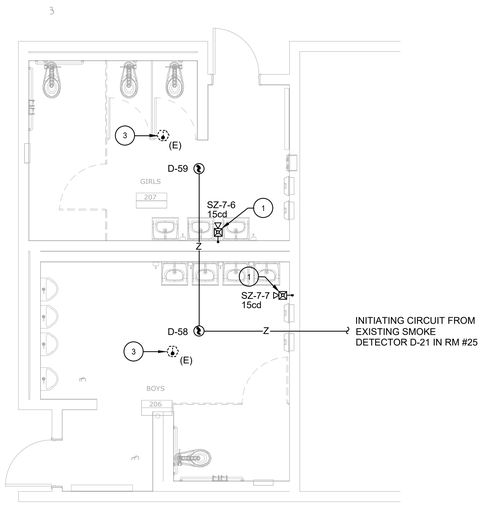
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DRAWING NAME: S:\PROJECTS\2022\2223000 HAWTHORNE MS TURF & TRACK IMPROVEMENTS\CAD\E2.2-FIRE ALARM SYSTEM INFO.dwg
PLOT DATE: 09/15/2026

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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.
3. EXISTING HEAT DETECTOR TO REMAIN. PROTECT IN PLACE.

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PROJECT NAME
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MIDDLE SCHOOL
TURF FIELD & TRACK
IMPROVEMENTS

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DRAWN BY
CHECKED BY DC/CG
DATE ISSUED 03/10/2026
SCALE
PROJ. NO. 2223000
SHEET NO. E2.3

PLOT DATE: 09-15-26 PLOTTED BY: Glenda Yagle Lastra