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ADDENDUM

ADDENDUM #:	02
DATE:	February 20, 2026
BID DATE:	February 27, 2026, 2:00 PM
SUBMITTED BY:	Verde Design Inc.
PROJECT:	Lodi High School Athletic Field Improvements
VERDE'S PROJECT NO.:	2502700
FILE NAME AND PATH:	Y:\Projects-FO\2025\2502700 - Lodi HS Baseball and Softball Field\Construction Services\Bid Items\20260212_Bid Addendum.docx

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NOTICE TO ALL CONTRACTORS SUBMITTING BIDS FOR THIS WORK AND TO ALL PLAN HOLDERS:

You are hereby notified of the following changes, clarifications or modifications to the original Contract Documents, Project Manual, Drawings, Specifications and subsequent Addenda. This Addendum shall supersede the original Contract Documents, and previous Addenda wherein it contradicts the same and shall take precedence over anything to the contrary therein. All other conditions remain unchanged.

CONFORMANCE WITH CONTRACT DOCUMENTS, PROJECT MANUAL DRAWINGS AND SPECIFICATIONS

All addenda work shall be in strict conformance with the Contract Documents, Project Manual, Drawings and Specifications as they pertain to work of a similar nature.

By: Amy LaTomme, Project Manager
Verde Design

Question Responses:

1. *Please clarify responsibility for the MUSCO Sports Lighting. The specs call for new sport field lighting; however, Note #1 on the Electrical Drawings states "Provide connection to sports lighting provided by others." Please confirm whether the contractor is to furnish and install the full system or provide power connections only*
    a. The contractor is to furnish and install the full Musco Sports Lighting system.
2. Substitution requests are not excepted until after the project is awarded.

The changes, clarifications, or modifications to the Lodi High School Athletic Field Improvements Construction Drawings are as follows:

C0.0 – Cover Sheet

1. Add Alternate #03 7' Tall No Climb Fence with Edgeband has been added to the Bid Alternates.
2. Add Alternate #04 Low Voltage Conduits for security cameras at backstops has been added to the Bid Alternates.

3. Sheet E7.0 Technology Site Plan has been added to the Cover Sheet

L0.1 – Accessibility Plan

1. Accessibility Legend has been revised to include two additional gate callouts – 6’ Tall x 4’ Wide Swing Gate – Accessible and 7’ Tall x 4’ Wide Swing Gate – Accessible with Transom.
2. Gate callouts on Accessibility Legend have been reordered.
3. Gate callouts on Plan have been revised.
4. Add alternate #03 is indicated on the plan sheet

L0.2 – Fire Life Safety Plan

1. Fire, Life & Safety Legend has been revised to include two additional gate callouts – 6’ Tall x 4’ Wide Swing Gate – Accessible and 7’ Tall x 4’ Wide Swing Gate – Accessible with Transom.
2. Gate callouts on Fire, Life & Safety Legend have been reordered.
3. Gate callouts on Plan have been revised.
4. Add alternate 03 is indicated on the plan sheet

L1.2 – Existing Conditions Plan

1. Add alternate 03 is shown on the plan sheet

L2.2 – Erosion Control Plan

1. Add alternate 03 is shown on the plan sheet.

L3.2 – Demolition Plan

1. The demolition work associated with add alternate 03, the demolition and removal of the chain link fence has been indicated on the plan.

L4.2 – Grading Plan

1. Add alternate 03 is shown on the plan sheet

L5.2 – Drainage and Utility Plan

1. Add alternate 03 is shown on the plan sheet

L6.2 – Layout Plan

1. Add alternate 03 and work associated with it is shown on the plan sheet

L7.1-L7.2 – Material and Detail Reference Plan

1. Material Legend has been revised to include two additional gate callouts – 6’ Tall x 4’ Wide Swing Gate – Accessible and 7’ Tall x 4’ Wide Swing Gate – Accessible with Transom.
2. Gate callouts on Material Legend have been reordered.
3. Gate callouts on plans have been revised
4. Work associated with add alternate 03 are shown on L7.2

L8.2 Irrigation Plan

1. Add alternate 03 is shown on the plan sheet.

L9.1 & L9.2 – Planting Plan

1. The sod has been updated to Delta Bluegrass Co. Rye Blue
2. The hydroseed has been updated Delta Bluegrass Co. Sports Turf Mix
3. Add alternate 03 is shown on plan sheet L9.2

D3.2 – Fencing Details

1. Detail K, 6’ Tall x 4’ Wide Swing Gate – Accessible has been added to the sheet.
2. Detail L, 7’ Tall x 4’ Wide Swing Gate – Accessible with Transom has been added to the sheet.

D3.3 – Fencing Details

1. Detail H, Baseboard Connection Detail has been revised to note the S4S Douglas Fir Select to be painted Sherwin Williams 6601 Tangger red.

Electrical Sheets:

All site electrical sheets have been replaced. E7.0 has been added to the plan set.

The changes, clarifications, or modifications to the Lodi High School Athletic Field Improvements Specifications are as follows:

32 18 13 Synthetic Turf Playing Field

Section 2.02 A

Manufacturer has been updated to American Sports Construction, Inc

Section 2.03

Turf Type I has been updated to Apex 100

Section 2.04

Turf Type II has been updated to Apex 100

32 31 13 Chain Link Fencing

Section 2.03 C

Color of baseboards to be Sherwin Williams 6601 Tangger Red.

32 90 00 Planting

Section 2.07 Seed Mixes

Seed Mix type and source has been updated

Section 2.08 Turf Sod

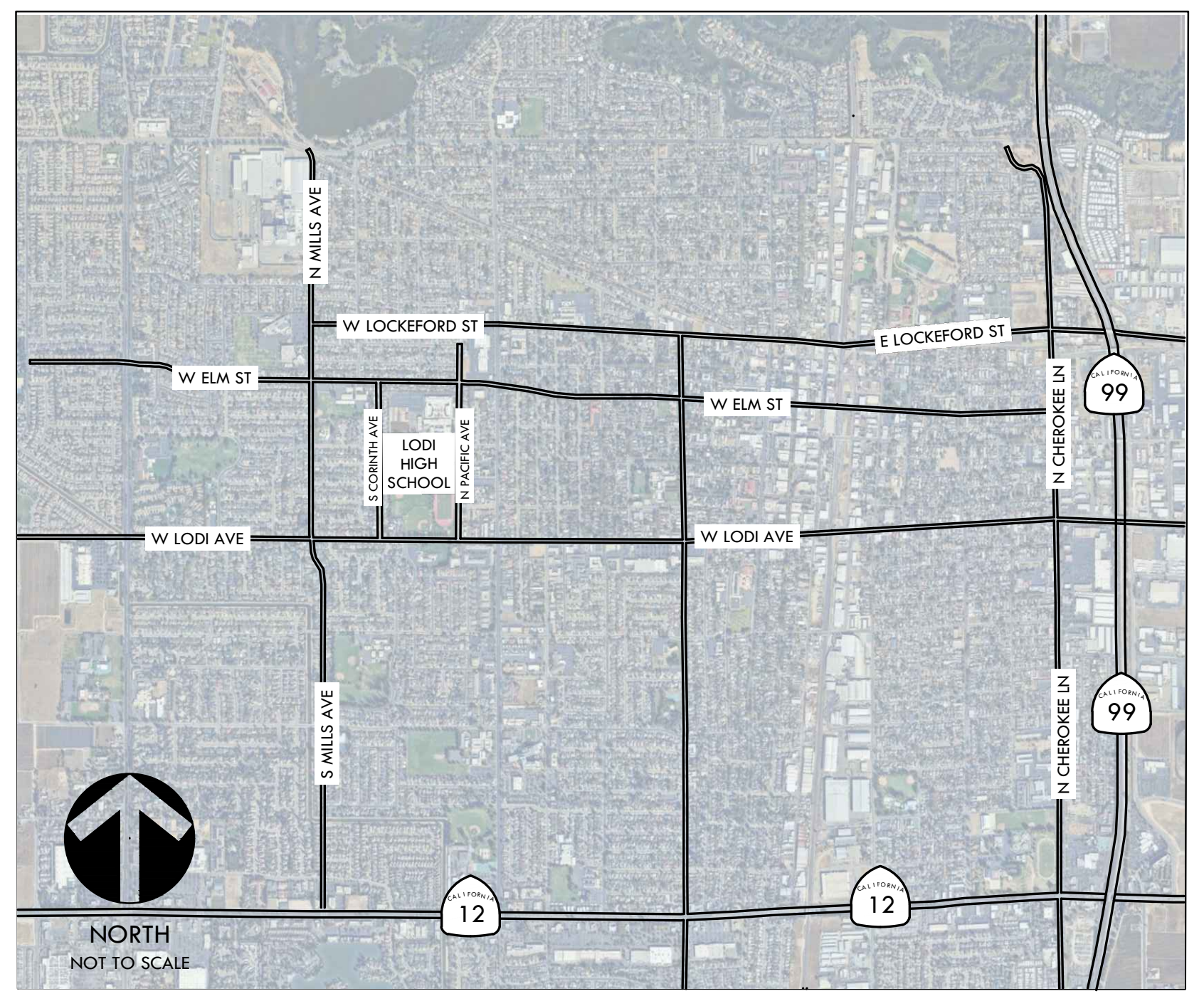
Turf sod type and source has been updated

END OF ADDENDUM

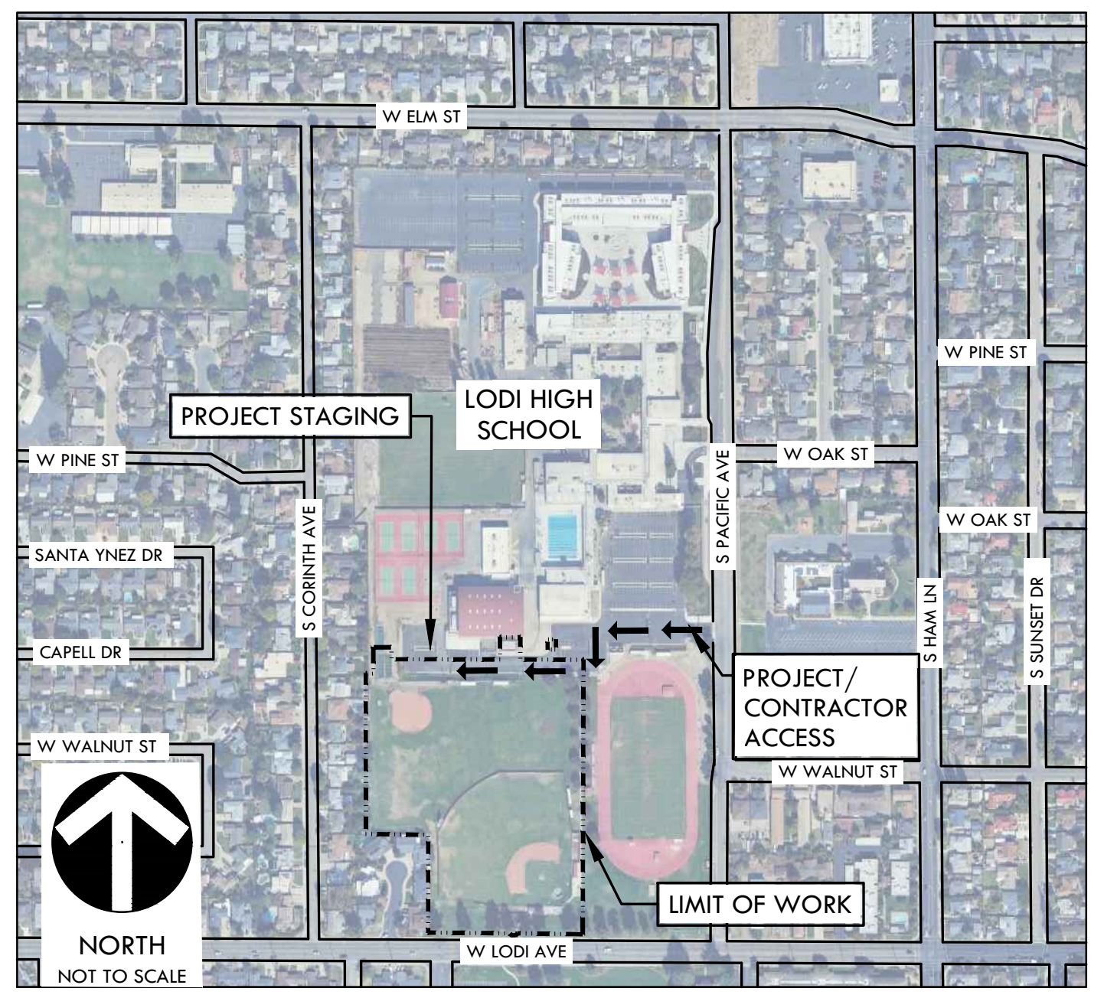
CONSTRUCTION DRAWINGS FOR
LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

3 S PACIFIC AVE
LODI, CA 95242
LODI UNIFIED SCHOOL DISTRICT
DSA PROJECT NO. 02-123587
VERDE DESIGN, INC. PROJECT NO. 2502700

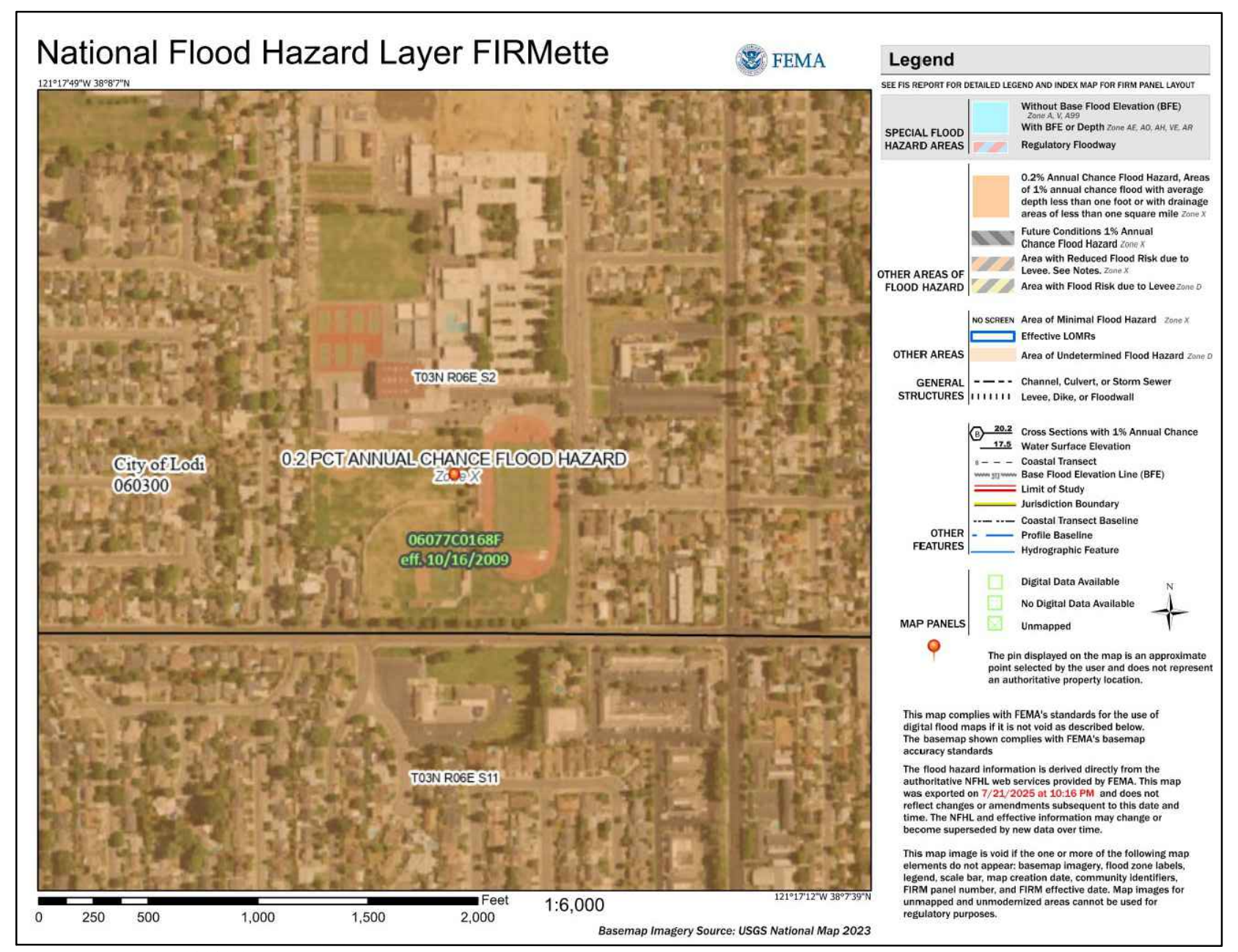
PROJECT MAP



VICINITY MAP



SITE MAP


National Flood Hazard Layer FIRMette
FEMA
Legend
0.2 PCT ANNUAL CHANCE FLOOD HAZARD
Feet
0 250 500 1,000 1,500 2,000
1:6,000
Basemap Imagery Source: USGS National Map 2023

FLOOD MAP

APPLICABLE CODES

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

    2025 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
    2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
        (2021 INTERNATIONAL BUILDING CODE VOLUMES 1-2)
    2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
        (2020 NATIONAL ELECTRICAL CODE)
    2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
        (2021 UNIFORM MECHANICAL CODE)
    2022 CALIFORNIA PLUMBING CODE (CDC), PART 5, TITLE 24 C.C.R.
        (2021 UNIFORM PLUMBING CODE)
    2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
    2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
        (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
    2022 CALIFORNIA EXISTING BUILDING CODE, PART 10, TITLE 24 C.C.R.
        (2021 INTERNATIONAL EXISTING BUILDING CODE)
    2022 CALIFORNIA "GREEN" BUILDING REQUIREMENTS OR CAL GREEN, PART 11, TITLE 24 C.C.R.
    2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
    2022 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

    LIST OF FEDERAL CODES AND STANDARDS (IF APPLICABLE)
    AMERICANS WITH DISABILITIES ACT (ADA), TITLE II OR TITLE III
    FOR TITLE II: UNIFORM FEDERAL ACCESSIBILITY STANDARDS (UFAS)
        28 CFR 35.151(C)
    OR ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 35)
    FOR TITLE III: ADA STANDARDS FOR ACCESSIBLE DESIGN (APPENDIX A OF 28 CFR PART 36)
        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	2022 EDITION
NFPA 14	STANDPIPE SYSTEMS	2022 EDITION
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 20	STATIONARY FIRE PUMPS	2022 EDITION
NFPA 24	PRIVATE FIRE SERVICE MAINS	2022 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED) (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES)	2022 EDITION
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS	2023 EDITION
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2022 EDITION

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS - 2025 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.

PREPARED BY

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2027
STATE OF CALIFORNIA

TIM D. HYDE
No. S3260
Exp. 3-31-27

NATHAN A. HEARN
No. E 23927
3-31-2026
Date Signed: 2/19/2026

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RANCHO CORDOVA, CALIFORNIA

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

SCOPE OF WORK

SCOPE OF WORK TO INCLUDE BUT NOT LIMITED TO: SITE DEMOLITION AND REMOVAL OF EXISTING FENCING, HARDSCAPE, TURF, IRRIGATION, AND EXISTING BASEBALL AND SOFTBALL ELEMENTS AT EXISTING BASEBALL AND SOFTBALL FIELDS. CONSTRUCTION OF NEW SYNTHETIC TURF BASEBALL INFIELDS WITH NATURAL TURF OUTFIELDS. CONSTRUCTION OF NEW SYNTHETIC TURF SOFTBALL INFIELDS WITH NATURAL TURF OUTFIELDS. IMPROVEMENTS AT THE BASEBALL AND SOFTBALL FIELD TO INCLUDE: CONSTRUCTION OF NEW 30' TALL CHAIN LINK BACKSTOP, NEW DUGOUTS WITH METAL STRUCTURE AND PERIMETER FENCING, NEW HOME AND VISITOR BULLPENS, AND NEW FOUL POLES. CONSTRUCTION TO INCLUDE NEW PERIMETER FENCING WITH MOW BANDS, NEW SITE FURNISHINGS AND AMENITIES, NEW DOUBLE GATES FOR MAINTENANCE ACCESS, NEW HARDSCAPE, LANDSCAPE AND IRRIGATION, NEW ELECTRICAL POWER FOR DUGOUTS, BULLPENS, SCORERS' AREA, BATTING CAGE, SPORTSFIELD, AND EGRESS LIGHTING, AND ADA IMPROVEMENTS.

BID ALTERNATES

ADD ALTERNATE #01 BATTING CAGES:
SCOPE OF WORK TO INCLUDE BUT NOT LIMITED TO: ALL WORK RELATED TO THE CONSTRUCTION OF NEW BASEBALL AND SOFTBALL BATTING CAGES AS SHOWN ON THE DRAWINGS.

ADD ALTERNATE #02 20' TALL PROTECTIVE NETTING:
SCOPE OF WORK TO INCLUDE BUT NOT LIMITED TO: ALL WORK RELATED TO THE CONSTRUCTION OF 20' TALL TOTAL HEIGHT PROTECTIVE NETTING AS SHOWN ON THE DRAWINGS.

ADD ALTERNATE #03 7' TALL NO CLIMB FENCE WITH EDGEBAND:
SCOPE OF WORK TO INCLUDE BUT NOT LIMITED TO: ALL WORK RELATED TO THE CONSTRUCTION OF 7' TALL NO CLIMB FENCE WITH EDGEBAND AS SHOWN ON THE DRAWINGS.

ADD ALTERNATE #04 LOW VOLTAGE CONDUITS
SCOPE OF WORK TO INCLUDE BUT NOT LIMITED TO: ALL WORK RELATED TO THE INSTALLATION OF CONDUIT AND CONDUCTORS FOR RECEPTACLES AT BACKSTOPS. PROVIDE CONDUITS WITH PULL STRING FROM EXISTING IDF TO FIBER MEDIA CONVERTER DEVICES AT BACKSTOPS. COORDINATE WITH DISTRICT FOR MORE REQUIREMENTS.

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 DISTRICT'S REPRESENTATIVE 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 SCHOOL 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'S REPRESENTATIVE 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'S REPRESENTATIVE.
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'S REPRESENTATIVE.
7. ALL WORK SHALL CONFORM TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, CALIFORNIA PLUMBING CODE, 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'S REPRESENTATIVE 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'S REPRESENTATIVE 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 THEIR 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 DISTRICT REPRESENTATIVE'S DIRECTION.
25. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT IN THE STREET RIGHT-OF-WAY SHALL NOT BE PERMITTED.

CONTACT INFORMATION

ORGANIZATION	NAME	PHONE
OWNER LODI UNIFIED SCHOOL DISTRICT	JOE PATTY	(209) 712-6363
CIVIL ENGINEER/ LANDSCAPE ARCHITECT VERDE DESIGN INC.	MARK BAGINSKI CHRIS SULLIVAN	(408) 823-1514 (916) 996-5525
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STRUCTURAL ENGINEER AKH STRUCTURAL ENGINEERING	TIM HYDE	(408) 978-1970 EXT. 114

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	L0.2	FIRE LIFE SAFETY PLAN
	L0.3	SITE PLAN
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	L1.2	EXISTING CONDITIONS AND SURVEY PLAN - SOFTBALL FIELD
	L2.1	EROSION AND SEDIMENT CONTROL PLAN - BASEBALL FIELD
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	SB5.2	OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS

DSA SUPPLEMENTARY CONDITIONS

1. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGED DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT PRIOR TO FABRICATION AND INSTALLATION, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR AND DSA IR-6.
3. 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.
4. 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. THE MINIMUM INSPECTOR CLASS REQUIRED IS CLASS 2 PER DSA IR A7.
5. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
6. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. 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, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
7. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
8. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SITE FIRE SAFETY PLAN.

STATEMENT OF GENERAL CONFORMANCE

APPLICATION NO. 02-123587
FILE NO. 39-H4

THE DRAWINGS IDENTIFIED AS FOLLOWS:

☒ ALL DRAWING SHEETS INCLUDED IN THIS SET NOT BEARING MY STAMP AND SIGNATURE
☒ DRAWING SHEETS DENOTED IN THE SHEET INDEX AS FOLLOWS: *
☒ DRAWING SHEETS INCLUDED UNDER THE FOLLOWING PC APPROVALS: 04-122814; 04-124534;

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS (PLANS) IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2. COORDINATION WITH MY DRAWINGS (PLANS) AND SPECIFICATIONS AND ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

PER TITLE 24, PART 1, SECTION 4-316(b): THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1.

SIGNATURE		DATE
		12-17-2025
PRINTED NAME	**LICENSE NUMBER**	**EXPIRATION DATE**
TIM D. HYDE	S3260	03-31-2027

LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS
BID ADDENDUM 02- 02/20/2026
C0.0
COVER SHEET

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

DRAWING NAME: Y:\Projects-F0\2025\2502700 - Lodi HS Baseball and Softball Field\CAD_CVR-DSA.dwg
PLOT DATE: 02-20-26 PLOTTED BY: station23

PARKING COUNTS PER CBC 11B-208.2

TOTAL (e)	(e) STANDARD	(e) ◇#A	(e) ◇#V	TOTAL ADA STALLS REQUIRED	REQUIRED ◇#V	TOTAL NEW ADA PARKING REQUIRED
282	271	9A	2V	7	2V	0

PROPOSED PARKING (RE-STRIPE OF SOME EXISTING)

TOTAL	STANDARD	◇#A	◇#V	TOTAL ADA STALLS REQUIRED	REQUIRED ◇#V	TOTAL NEW ADA PARKING PROVIDED
266	266	10A	3V	7	2V	1A, 1V

ACCESSIBILITY LEGEND

SYM	DESCRIPTION	DTL
G1	6' TALL X 4' WIDE SWING GATE - ACCESSIBLE	K D3.2
G2	6' TALL X 4' WIDE SWING GATE WITH PANIC HARDWARE	A D3.2
G3	7' TALL X 4' WIDE SWING GATE - ACCESSIBLE WITH TRANSOM	L D3.2
G4	7' TALL X 4' WIDE SWING GATE WITH PANIC HARDWARE	B D3.2
G5	7' TALL X 4' WIDE SWING GATE WITH TRANSOM & PANIC HARDWARE	C D3.2
G6	7' TALL X 8' WIDE DOUBLE SWING GATE WITH TRANSOM & PANIC HARDWARE	D D3.2
G7	6' TALL X 12' WIDE DOUBLE SWING GATE	E D3.2
G8	6' TALL X 24' WIDE DOUBLE SWING GATE	F D3.2
G9	EXISTING MAINTENANCE GATE	
G10	EXISTING PEDESTRIAN GATE	

ACCESSIBILITY PLAN NOTES

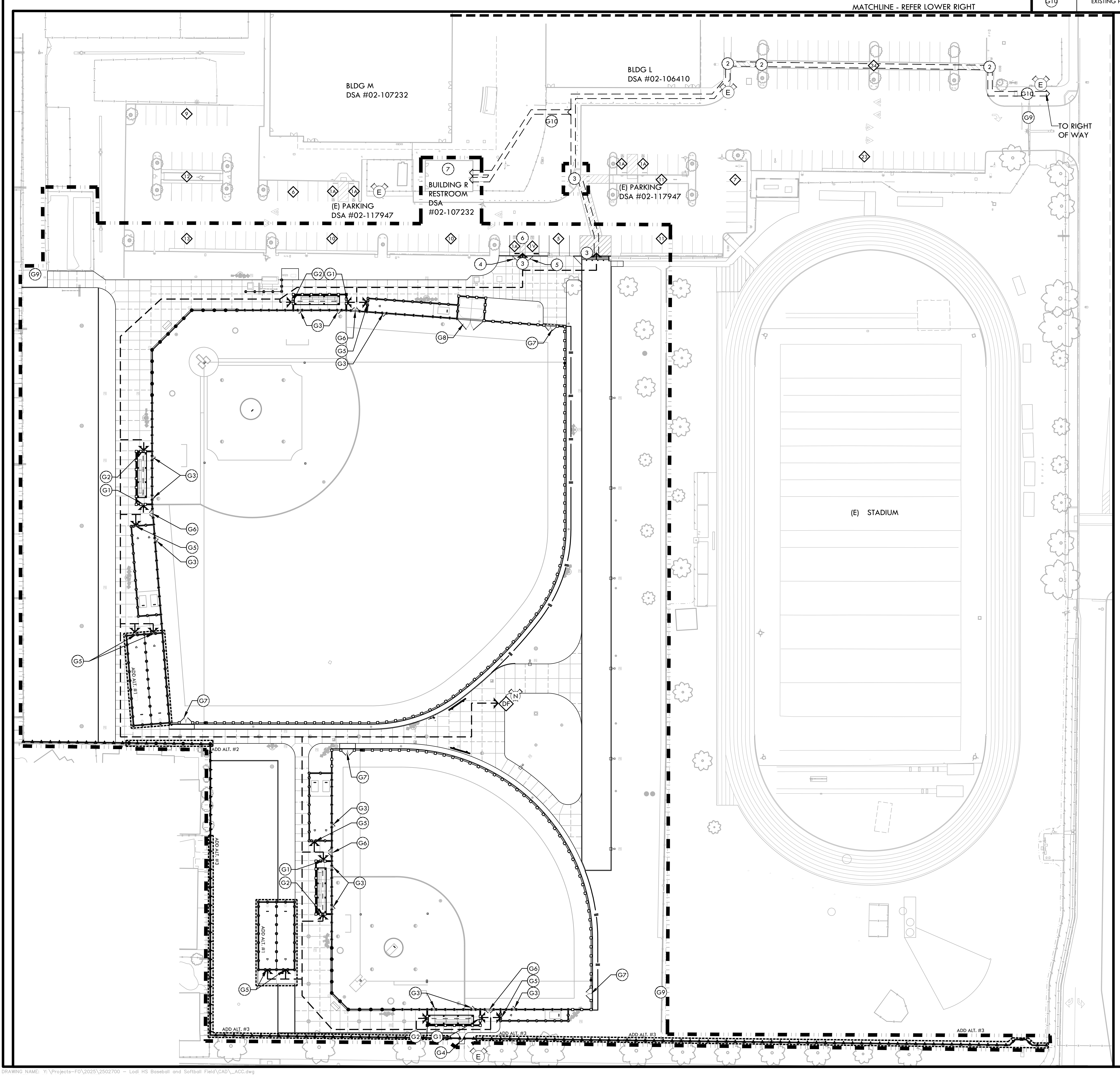
1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM, AND IS AT LEAST 48" WIDE. SURFACE IS SLIP-RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS SLOPE DOES NOT EXCEED 2%, AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE NOTED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FROM OBJECTS PROTRUDING MORE THAN 4" FROM WALL BETWEEN 27" AND 80" AFF. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
2. CONTRACTOR SHALL VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED, OR WILL BE REMOVED, UNDER THIS PROJECT, AND THAT THE PATH OF TRAVEL COMPLIES WITH CBC SECTION 11B.
3. CONTRACTOR TO ENSURE ACCESS THROUGH CAMPUS BY PROVIDING STRATEGIC CONSTRUCTION FENCING AND TRENCH LIDS AT APPROPRIATE LOCATIONS. VERIFY LOCATIONS WITH OWNER REPRESENTATIVE. SCHEDULE TRENCHING TO BE COMPLETED DURING PERIODS OF LEAST INTERRUPTION FOR CAMPUS USE.
4. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CONSTRUCTION CHANGE DIRECTIVE (CCD) DETAILING AND SPECIFYING THE WORK REQUIRED TO BRING CONDITIONS INTO COMPLIANCE WITH TITLE 24 SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

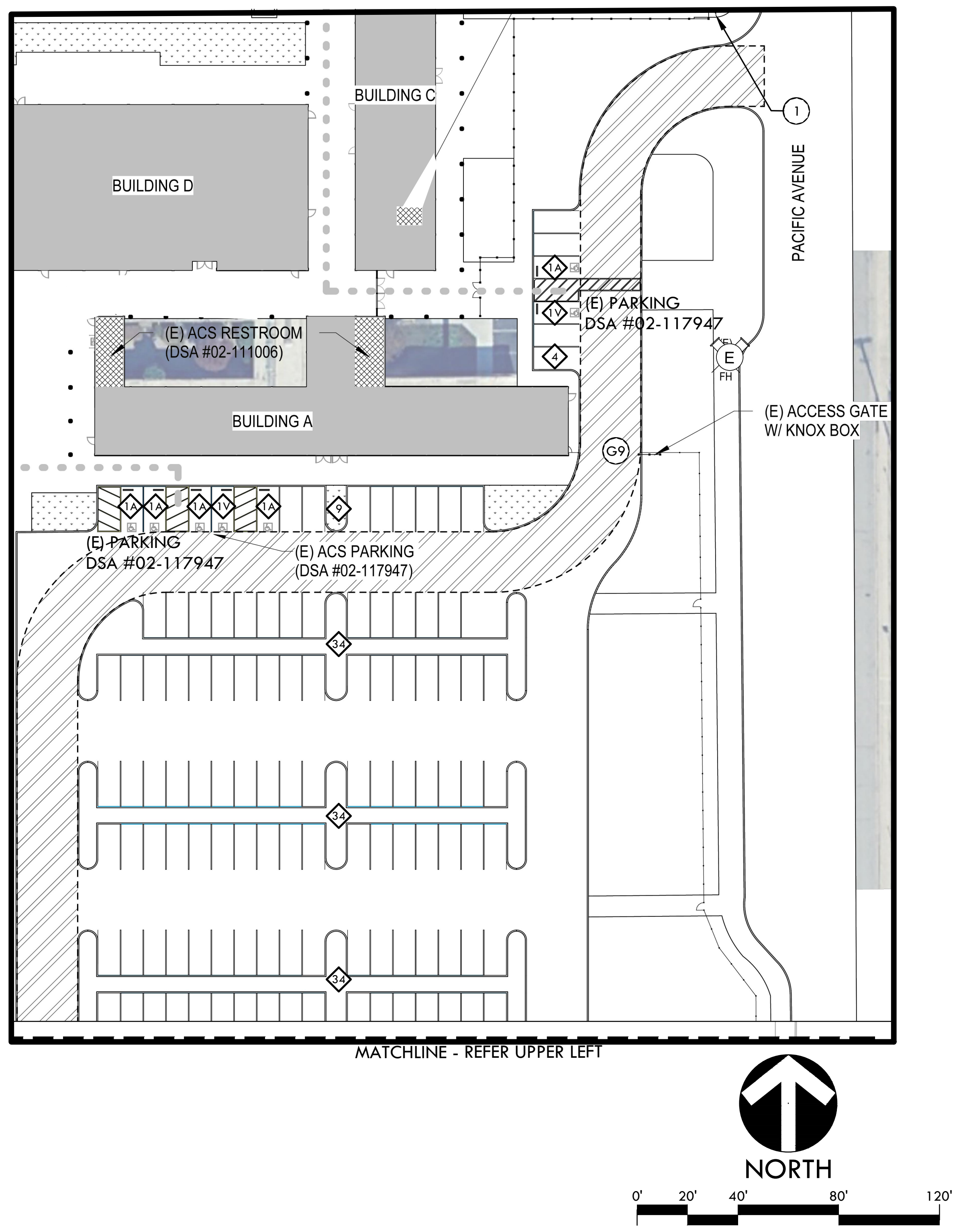
DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS **FOR PATH OF TRAVEL REQUIREMENTS AND STRUCTURAL REPAIRS**. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTION OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF POT ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A "CONSTRUCTION CHANGE DOCUMENT" (FORM **DSA 140**).

ACCESSIBILITY LEGEND

SYM	DESCRIPTION	DTL
▬ ¦ ▬ ¦ ▬	PROJECT LIMIT OF WORK	
═ ⇒	EXISTING PEDESTRIAN ACCESS (02-115633, 110113 & 105134)	
– – →	PROPOSED PEDESTRIAN ACCESS	
◇DF	PROPOSED DRINKING FOUNTAIN - PEDESTAL	A D1.2
E	EXISTING FIRE HYDRANT	
N	PROPOSED FIRE HYDRANT- SHALL BE PER CITY STANDARDS	
◇#A	ACCESSIBLE PARKING STALLS (DSA 02-117947). THE IOR SHALL INSPECT AND VERIFY THE EXISTING CONDITIONS ARE COMPLIANT. IF NOT COMPLIANT CONTRACTOR SHALL MAKE CORRECTIONS TO BRING THEM TO CURRENT CODE.	
◇#V	ACCESSIBLE VAN PARKING STALLS (DSA 02-117947). THE IOR SHALL INSPECT AND VERIFY THE EXISTING CONDITIONS ARE COMPLIANT. IF NOT COMPLIANT CONTRACTOR SHALL MAKE CORRECTIONS TO BRING THEM TO CURRENT CODE.	
◇#	NUMBER OF EXISTING PARKING STALLS (DSA 02-117947)	
①	EXISTING TOW AWAY SIGN	
②	EXISTING TRUNCATED DOMES	
③	PROPOSED DETECTABLE WARNING	L D2.1
④	ACCESSIBLE PARKING STALL SIGN	G D2.2
⑤	ACCESSIBLE PARKING STALL SIGN - VAN	H D2.2
⑥	ADA PARKING STALL	K D2.2
⑦	EXISTING RESTROOM BUILDING MODIFICATIONS	A D6.1





VERDE DESIGN
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fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

MARK S. BAGINSKI
No. 4089
EXPIRATION DATE:
JULY 2027

CONSULTANT

KEYMAP

SHEET TITLE
ACCESSIBILITY
PLAN

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
△		
△		
△		
△		
△		

DRAWN BY
HM

CHECKED BY
CS/MB

DATE ISSUED
02/20/2026

SCALE
1"=40'-0"

PROJ. NO.
2502700

SHEET NO.
L0.1

ACCESSIBILITY PLAN

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

BASEBALL AND SOFTBALL DUGOUT CODE ANALYSIS
OCCUPANCY: A-3
CONSTRUCTION TYPE: V B
FIRE SPRINKLERS: NOT REQUIRED
ROOF COVERING: METAL DECK - CLASS A
OCCUPANT LOAD: 20
EGRESS WIDTH: 48 IN
ALLOWABLE HEIGHT: 40 FT
ALLOWABLE AREA: 6000 SQ. FT., 1 STORY
ACTUAL HEIGHT: 10'-3"
ACTUAL AREA: 658 SQ FT

OCCUPANCY LOAD

CALCULATIONS (PER CBC 1004.5-6)

AREA OF ASSEMBLY: 22,256 SF
OCCUPANCY LOAD FACTOR: 30 NET

DUGOUT OCCUPANT LOAD: 20

GATE EXIT REQUIREMENTS

VENUE	OCCUPANCY	CALCULATIONS FOR PROPOSED OCCUPANCY USE-ASSEMBLY W/ FIXED SEATS (PER CBC 1004.2.1 & CBC 1005.3.2)	REQUIRED EXIT WIDTH
BASEBALL AREA (INCLUDING DUGOUTS)	60	TOTAL OCCUPANCY LOAD = 60 PEOPLE REQUIRED EXIT WIDTH: 60people(.2") = 12"=1.0'	MIN. 32"
SOFTBALL AREA (INCLUDING DUGOUTS)	60	TOTAL OCCUPANCY LOAD = 60 PEOPLE REQUIRED EXIT WIDTH: 60people(.2") = 12"=1.0'	MIN. 32"
		TOTAL REQUIRED EXIT WIDTH PER FIELD	MIN. 32"
		EXIT WIDTH PROVIDED PER FIELD	96" = 8'

SAFE DISPERSAL AREA

▨	PROPOSED SAFE DISPERSAL AREA	
AREA	OCCUPANCY	CALCULATIONS (PER CBC 1004.2.1)
A SOFTBALL AREA (INCLUDING DUGOUTS)	60	TOTAL OCCUPANCY LOAD = 60 PEOPLE REQUIRED SAFE DISPERSAL AREA: 60 X 5 SQ FT = 300 SQ FT.
B NOT USED		
C BASEBALL AREA (INCLUDING DUGOUTS)	60	TOTAL OCCUPANCY LOAD = 60 PEOPLE REQUIRED SAFE DISPERSAL AREA: 60 X 5 SQ FT = 300 SQ FT.

FIRE, LIFE & SAFETY LEGEND

SYM	DESCRIPTION		SYM	DESCRIPTION	
G3	7' TALL X 4' WIDE SWING GATE - ACCESSIBLE WITH TRANSOM	L D3.2	▬ ▬	PROJECT LIMIT OF WORK	
G4	7' TALL X 4' WIDE SWING GATE WITH PANIC HARDWARE	B D3.2	▨	EXISTING FIRE DEPARTMENT ACCESS (02-117947)- ROUTE IS TO BE A MIN 20' WIDE BY 14' VERTICAL CLEARANCE AND RATED 96,000 LBS.	
G5	7' TALL X 4' WIDE SWING GATE WITH TRANSOM & PANIC HARDWARE	C D3.2	▬	PROPOSED FIRE DEPARTMENT ACCESS - ROUTE IS TO BE A MIN 20' WIDE BY 14' VERTICAL CLEARANCE AND RATED 96,000 LBS.	
G6	7' TALL X 8' WIDE DOUBLE SWING GATE WITH TRANSOM & PANIC HARDWARE	D D3.2	- - -	SAFE DISPERSAL ROUTE	
G7	6' TALL X 12' WIDE DOUBLE SWING GATE	E D3.2	— —	CURB/ROADWAY SHALL BE PAINTED RED AND CLEARLY MARKED WITH THE WORDS IN WHITE PAINT "FIRE LANE – NO PARKING CVC 22500.1" (REFER ALSO TO SPECIFICATIONS AND DSA PL 07-03 FOR MORE INFORMATION)	N D2.2
G8	6' TALL X 24' WIDE DOUBLE SWING GATE	F D3.2	E	EXISTING FIRE HYDRANT	
G9	EXISTING MAINTENANCE GATE		N	PROPOSED FIRE HYDRANT - SHALL FOLLOW CITY STANDARDS	
G10	EXISTING PEDESTRIAN GATE		G1	6' TALL X 4' WIDE SWING GATE - ACCESSIBLE	K D3.2
1	EXISTING RESTROOM BUILDING MODIFICATIONS	A D6.1	G2	6' TALL X 4' WIDE SWING GATE WITH PANIC HARDWARE	A D3.2

FIRE/LIFE SAFETY PLAN NOTES

1. THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO MODIFY THE FACILITY FOR ACCESSIBILITY IN ACCORDANCE WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS. SHOULD ANY CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS SUCH THAT THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, A CONSTRUCTION CHANGE DIRECTIVE (CCD) DETAILING AND SPECIFYING THE WORK REQUIRED TO BRING CONDITIONS INTO COMPLIANCE WITH TITLE 24 SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.

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

LOCAL FIRE AUTHORITY REVIEW

PROJECT INFORMATION

School District/Owner: Lodi Unified School District
Project Name/School: Lodi High School Athletic Field Improvements
Project Address: 3 S Pacific Ave, Lodi, CA 95242

FIRE & LIFE SAFETY INFORMATION

1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☒
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☒
3.	Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☒
	Refer to the following website for FHSZ locations: Fire Hazard Severity Zones in State Responsibility Area	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

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

School District Acceptance of Acceptable Design Alternates

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

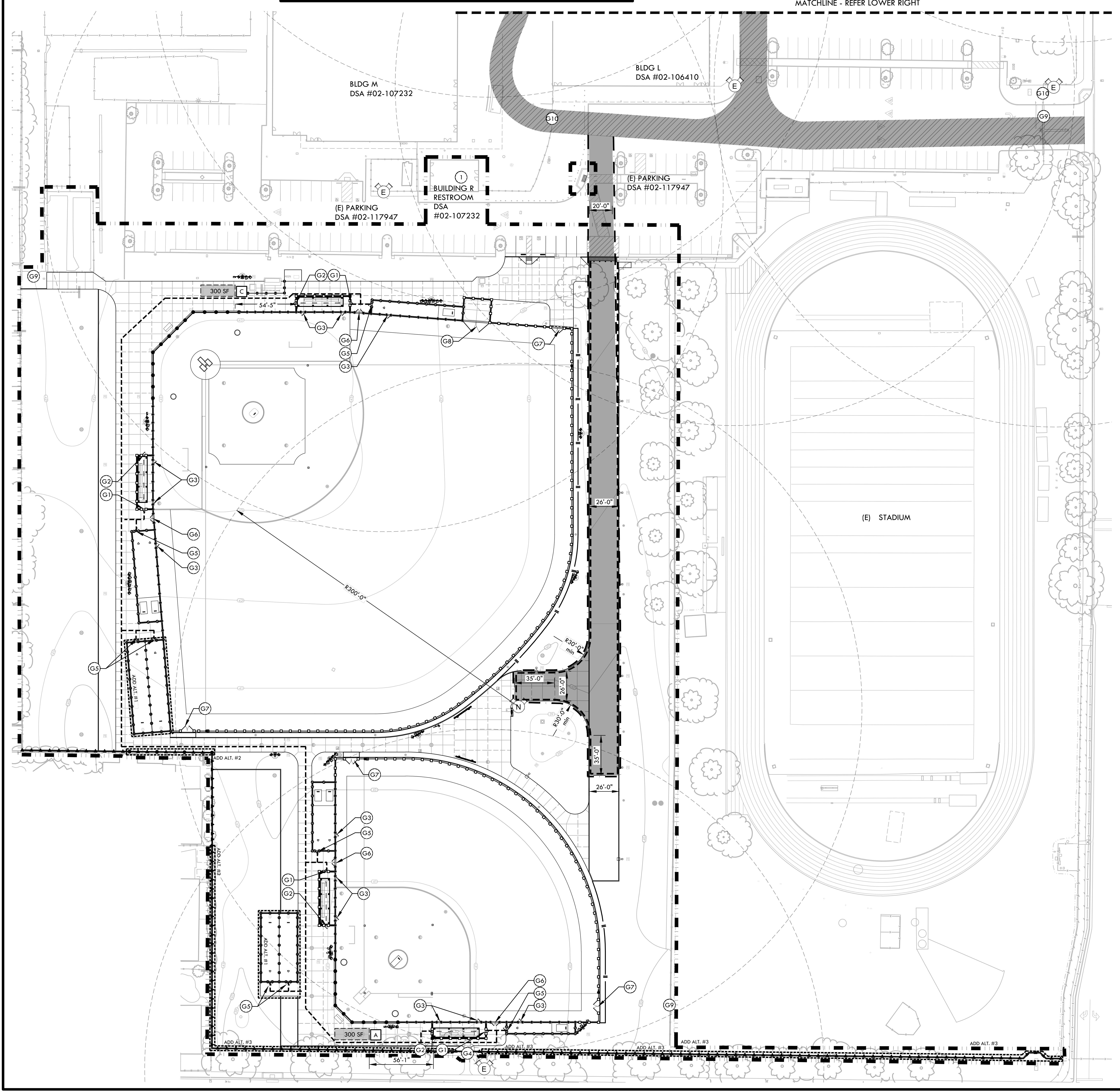
Accepted by: ______________________ Title: ______________________

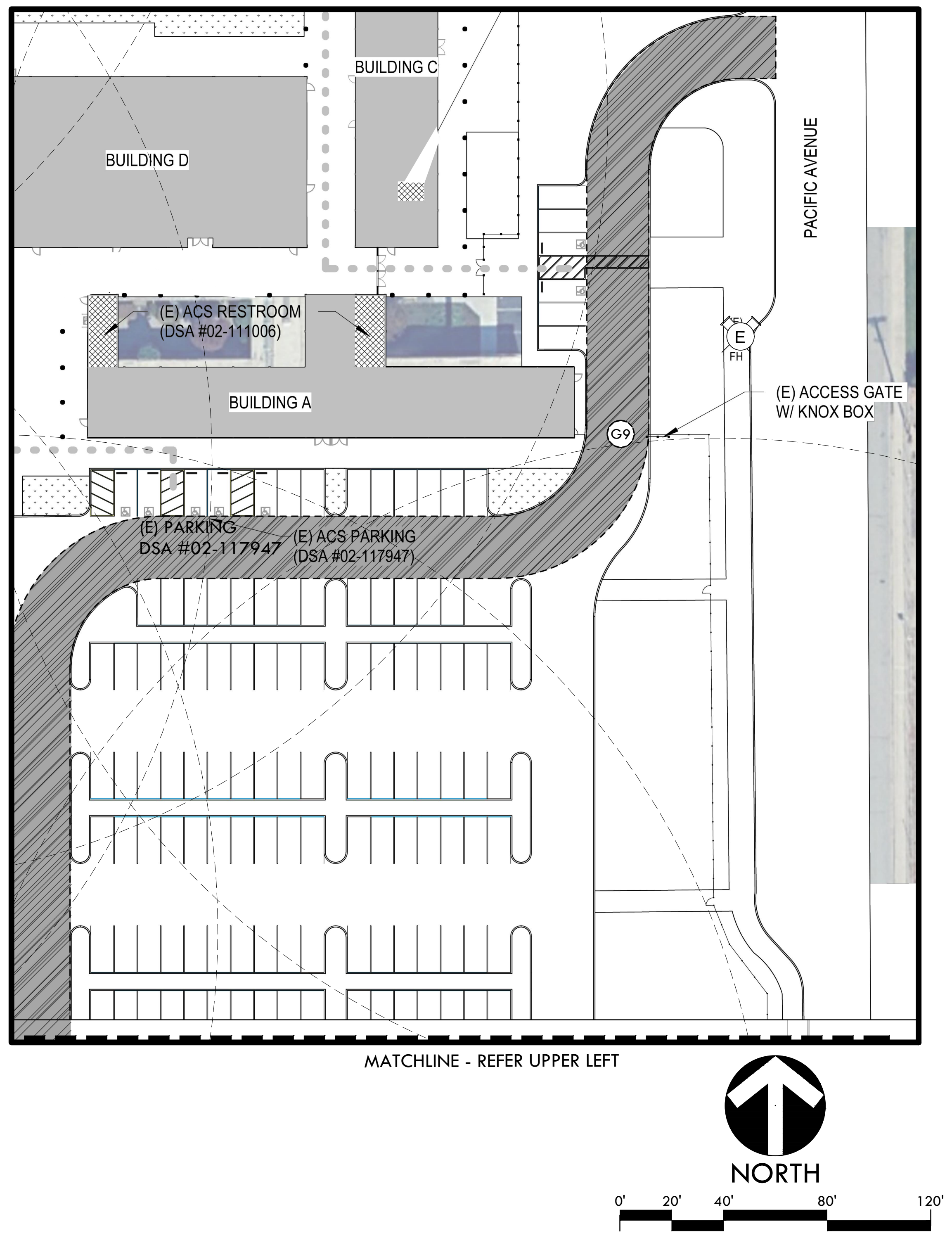
Signature: ______________________ Date: ______________________

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name:
LFA Review Official:
Title: Work Phone:
Work Email:
LFA Reviewer's Signature: ______________________ Date: ______________________

MATCHLINE - REFER LOWER RIGHT





MATCHLINE - REFER UPPER LEFT

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fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2027
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
FIRE LIFE SAFETY PLAN

PROJECT NAME
LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

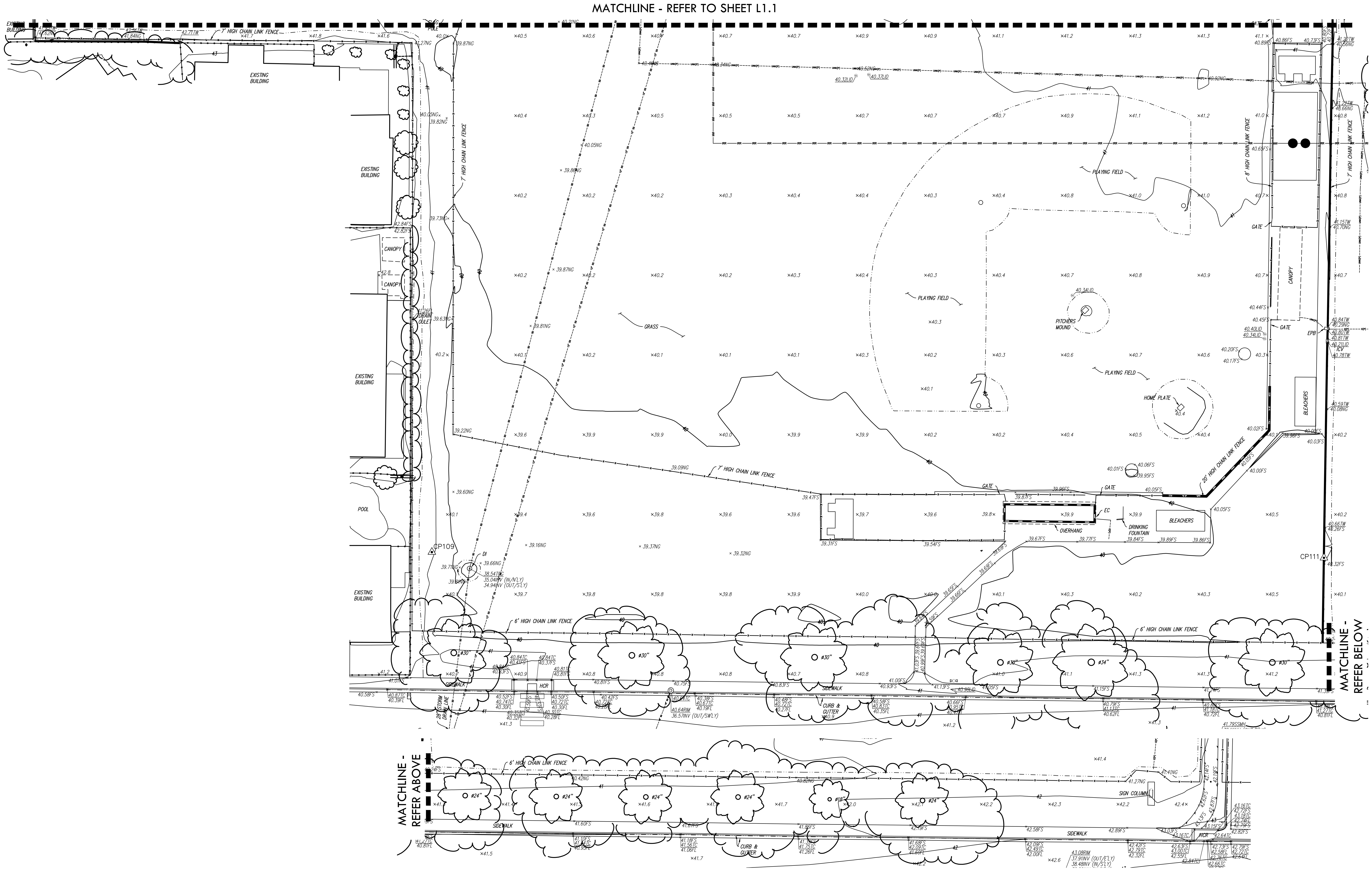
NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

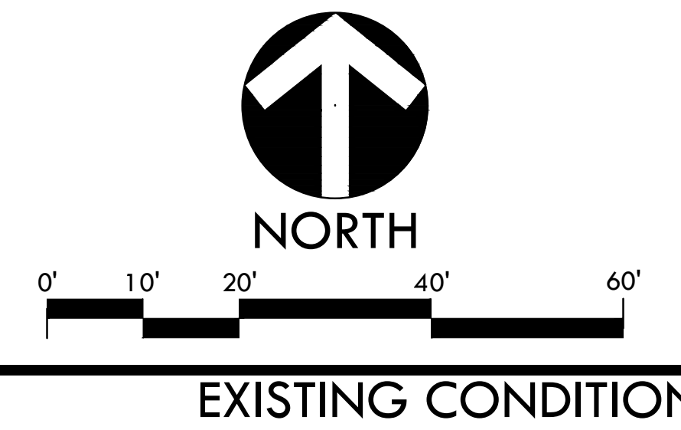
DRAWN BY: HM
CHECKED BY: CS/MB
DATE ISSUED: 02/20/2026
SCALE: 1"=40'-0"
PROJ. NO.: 2502700
SHEET NO.: L0.2

FIRE LIFE SAFETY PLAN

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

DRAWING NAME: Y:\Projects-F0\2025\2502700 - Lodi HS Baseball and Softball Field\CAD_FLS.dwg
PLOT DATE: 02-20-26 PLOTTED BY: station23





EXISTING CONDITIONS LEGEND

▭	ASPHALT PAVEMENT
	BACKFLOW PREVENTER
⌖	BUILDING HEIGHT TAKEN AT THIS LOCATION
▨	CONCRETE PAVEMENT
△	CONTROL POINT
	DOOR
	FIRE HYDRANT
◉	FOUND MONUMENT AS NOTED
(ICV)	IRRIGATION CONTROL VALVE
	LIGHT STANDARD
●	POWER POLE
(S)	SEWER MANHOLE
	SIGN
	STAIRS SHOWING DOWNWARD DIRECTION
(D)	STORM DRAIN MANHOLE
	TRAFFIC LIGHT
(T)	TELECOM MANHOLE
	TREE (TYPICAL)
⊗	WATER VALVE
APN	ASSESSOR'S PARCEL NUMBER
CB	CATCH BASIN
℄	CENTERLINE
CD	CURB DRAIN
Ø	DIAMETER OF EXISTING TREE
EC	ELECTRIC CABINET
EPB	ELECTRIC PULL BOX
EV	ELECTRIC VAULT
FS	FINISH SURFACE
FL	FLOW LINE
GPB	GAS PULL BOX
GV	GAS VAULT
HCR	HANDICAP RAMP
INV	INVERT
ICV	IRRIGATION CONTROL VALVE
NG	NATURAL GROUND
TPB	TELCO PULL BOX
TV	TELCO VAULT
TB	TRASH BIN
TW	TOP OF WALL
WM	WATER METER
WPB	WATER PULL BOX
	BLOCK WALL
	CANOPY
	CENTERLINE
	CHAIN LINK FENCE
	CONCRETE/RETAINING WALL
	EASEMENT LINE
E(P)	ELECTRIC LINE (PAINTED)
	FLOW LINE
G(P)	GAS LINE (PAINTED)
	INTERIOR LOT LINE
	OVERHANG
	PROPERTY LINE
	RIGHT-OF-WAY
SS	SANITARY SEWER LINE
SD	STORM DRAIN LINE
T(P)	TELECOM LINE (PAINTED)
UNK(P)	UNKNOWN LINE (PAINTED)
W(P)	WATER LINE (PAINTED)
	WOOD FENCE
	WROUGHT IRON FENCE

CONTROL POINTS

CP#	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP100	2235760.61'	6334152.77'	44.07'	SET MAGNETIC NAIL & TIN
CP101	2234894.11'	6334376.00'	43.54'	SET MAGNETIC NAIL & TIN
CP102	2235808.91'	6334372.66'	44.06'	SET MAGNETIC NAIL & TIN
CP103	2235677.44'	6333914.29'	42.83'	SET MAGNETIC NAIL & TIN
CP104	2235747.25'	6333613.44'	42.88'	SET MAGNETIC NAIL & TIN
CP105	2235381.04'	6334185.68'	42.72'	SET 60D W/ CHASER
CP107	2235826.04'	6333440.59'	42.15'	SET MAGNETIC NAIL & TIN
CP108	2235433.40'	6333584.70'	41.31'	SET 60D W/ CHASER
CP109	2234999.29'	6333583.49'	40.57'	SET 60D W/ CHASER
CP110	2235476.79'	6334019.27'	41.74'	SET 60D W/ TIN
CP111	1980091.63'	6333975.20'	40.34'	SET SCRIBED X

UTILITY STATEMENT

BURIED UTILITIES AND/OR PIPELINES SHOWN HEREON ARE PER VISIBLE AND APPARENT SURFACE EVIDENCE, RECORD DRAWINGS OF THE CONSTRUCTED UTILITY LINES OBTAINED FROM RELIABLE AND RESPONSIBLE SOURCES NOT CONNECTED WITH CALVADA SURVEYING, INC. OR MARKINGS PROVIDED BY AN INDEPENDENT LOCATING CONTRACTOR. NO GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY OR THOROUGHNESS OF SUCH INFORMATION. IF MORE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES OR PIPE LINES ARE REQUIRED, THE UTILITY OR PIPELINE WILL HAVE TO BE VERIFIED BY FIELD POTHOLING. CALVADA SURVEYING, INC. AND THE SURVEYOR OF RECORD SHALL NOT BE HELD LIABLE FOR THE LOCATION OF OR THE FAILURE TO NOTE THE LOCATION OF NON-VISIBLE UTILITIES OR PIPELINES.

BASIS OF BEARINGS

THE BASIS OF HORIZONTAL CONTROL FOR THIS PROJECT IS CALIFORNIA COORDINATE SYSTEM NAD83 ZONE 3, (2010.00) DETERMINED LOCALLY BY THE FOLLOWING N.G.S. CONTINUOUS OPERATING REFERENCE STATIONS (C.O.R.S.):

N.G.S.C.O.R.S. P256:
NORTHING = 2163691.37' EASTING = 6243030.72'

N.G.S.C.O.R.S. P268:
NORTHING = 2361036.15' EASTING = ,6233457.67'

BENCHMARK

ELEVATIONS SHOWN HEREON ARE BASED UPON CITY OF LODI BENCHMARK NO. 268, ELEVATION 41.30 FEET (NAVD 88).

DESCRIPTION:
12.5' W/ CHAIN LINK FENCE SEPARATING TRACK AND BASEBALL FIELDS OF LODI HIGH SCHOOL, TOC.

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
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fax: 916.415.6525
www.VerdeDesignInc.com

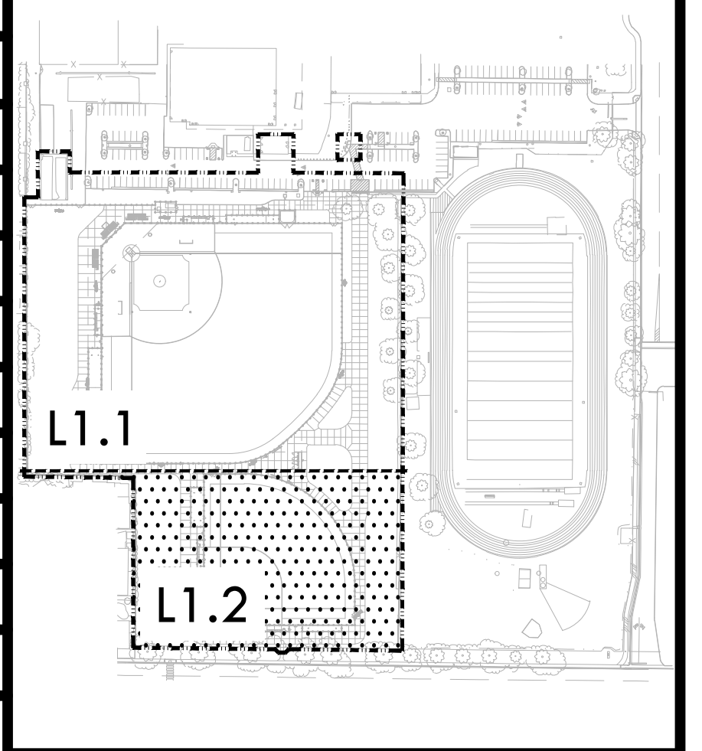
STAMP

LICENSED LAND SURVEYOR
Armando D. DuPont
L.S. 7780
12/02/2025
STATE OF CALIFORNIA

CONSULTANT

CALVADA SURVEYING, INC.
411 Jenks Circle, Suite 205, Corona, CA 92878
Phone: 951-280-9960 Fax: 951-280-9746
Toll Free: 800-CALVADA www.calvada.com
EST. 1989

KEYMAP



SHEET TITLE

EXISTING CONDITIONS AND SURVEY PLAN - SOFTBALL FIELD

PROJECT NAME

LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
△		
△		
△		
△		
△		

DRAWN BY CALVADA	CHECKED BY CS/MB
DATE ISSUED 02/20/2026	SCALE 1" = 20'-0"

PROJ. NO.
2502700

SHEET NO.
L1.2

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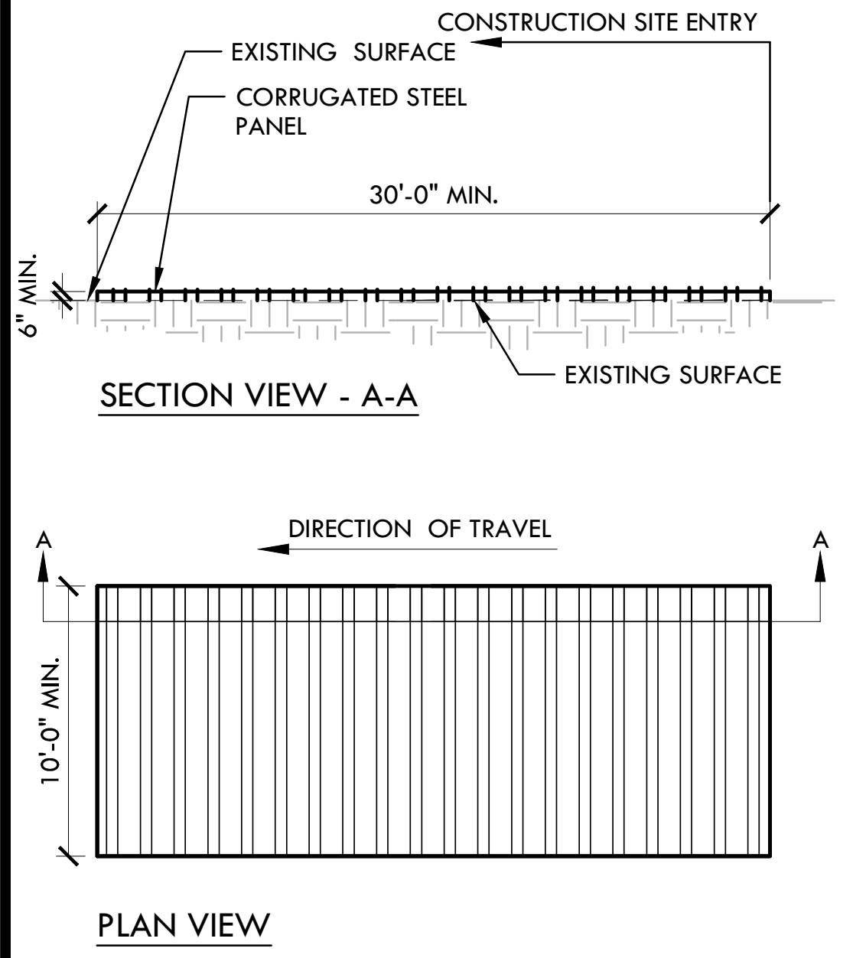

CONSTRUCTION SITE ENTRY
EXISTING SURFACE
CORRUGATED STEEL PANEL
30'-0" MIN.
6" MIN.
EXISTING SURFACE
SECTION VIEW - A-A
DIRECTION OF TRAVEL
A
A
10'-0" MIN.
PLAN VIEW

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 MIN. 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.

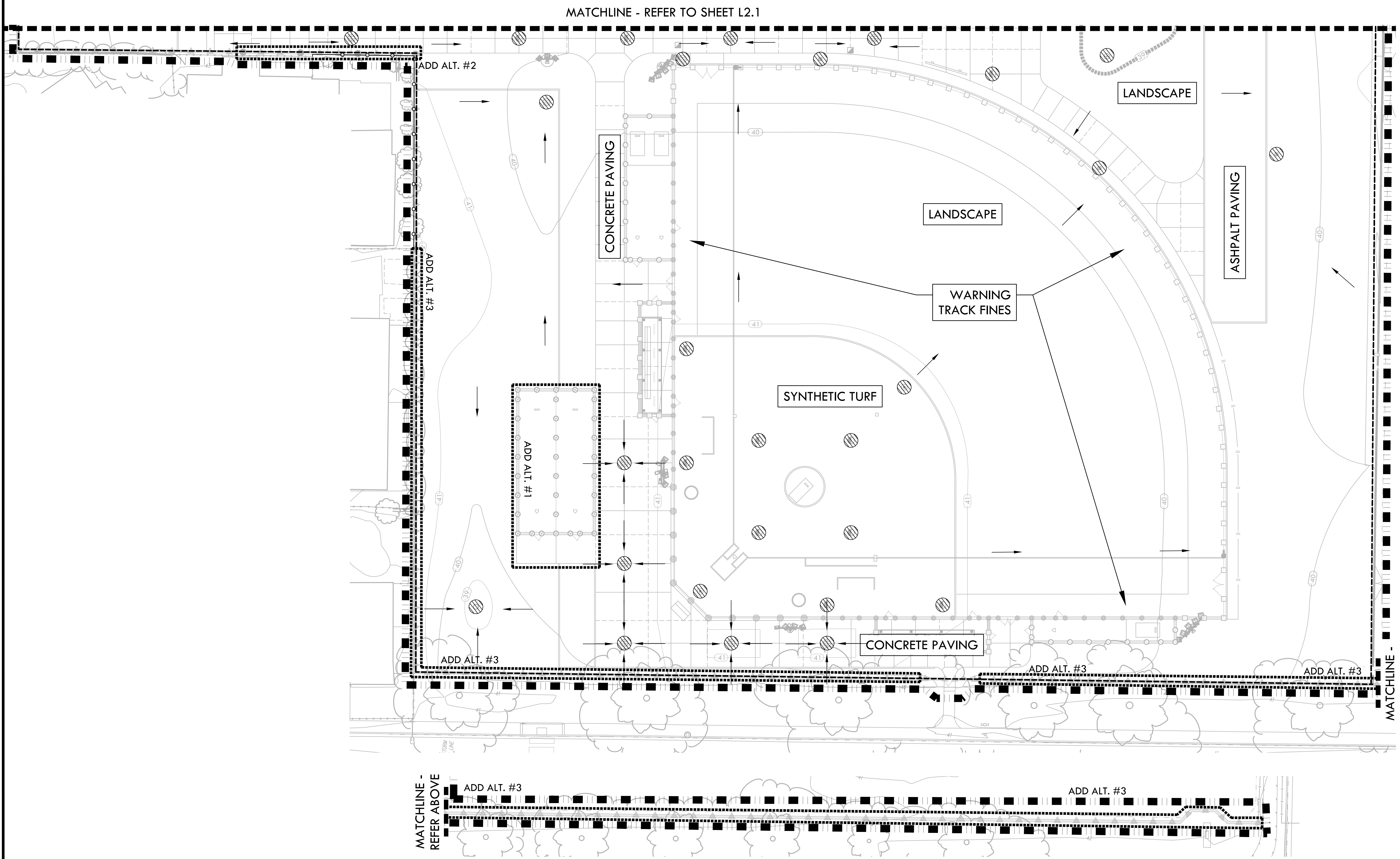
D CONSTRUCTION ENTRY NTS

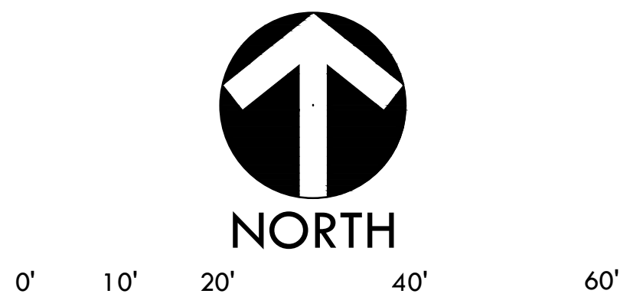
EROSION AND SEDIMENT CONTROL NOTES

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.

EROSION AND SEDIMENT CONTROL LEGEND

SYM	DESCRIPTION	DTL REF
▬ ▬	LIMIT OF WORK	
⊘	STORM DRAIN INLET FILTER FOR EXISTING AND PROPOSED STORM DRAINS	A L2.1
- - -	SEDIMENT RETENTION FIBER ROLL	B L2.1
o—o	TEMPORARY CONSTRUCTION FENCING	
▩	TEMPORARY CONCRETE WASHOUT FACILITY - PROVIDE A WASHOUT BIN FOR CONSTRUCTION WASHOUT AND REMOVE AT END OF CONSTRUCTION.	C L2.1
⠿	CONSTRUCTION STAGING AREA	
+ +	CONSTRUCTION ENTRY	D L2.2
→	DIRECTION OF SURFACE FLOW	


MATCHLINE - REFER TO SHEET L2.1
ADD ALT. #2
ADD ALT. #3
CONCRETE PAVING
LANDSCAPE
LANDSCAPE
ASHPALT PAVING
WARNING TRACK FINES
SYNTHETIC TURF
ADD ALT. #1
CONCRETE PAVING
ADD ALT. #3
ADD ALT. #3
ADD ALT. #3
MATCHLINE - REFER BELOW
MATCHLINE - REFER ABOVE
ADD ALT. #3
ADD ALT. #3
40
41
38


NORTH
0'
10'
20'
40'
60'

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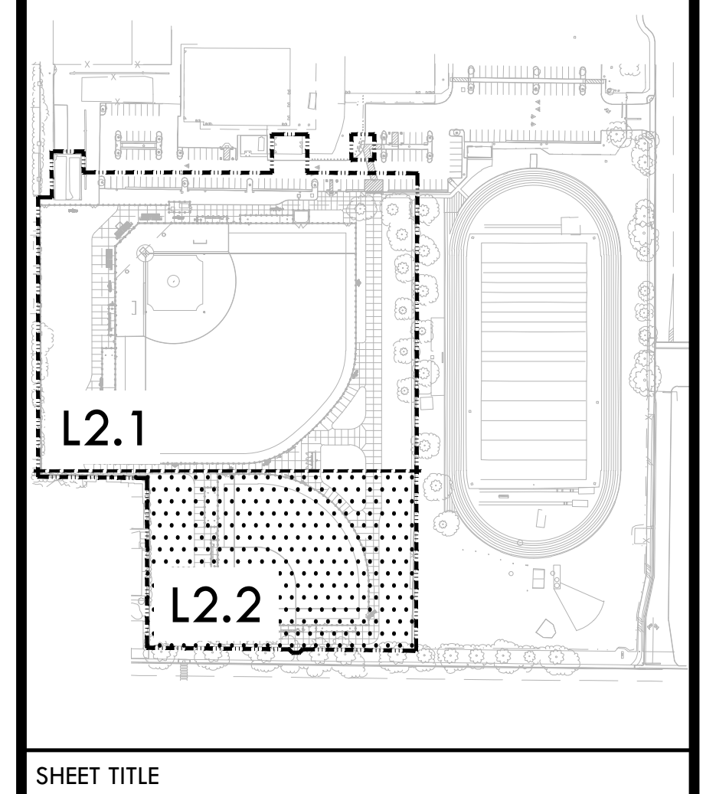
STAMP

MARK S. BAGINSKI
No. 4069
Signature
EXPIRATION DATE: JULY 2027

CONSULTANT

KEYMAP



SHEET TITLE
EROSION AND SEDIMENT CONTROL PLAN - SOFTBALL FIELD

PROJECT NAME
LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS
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LODI, CA
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DRAWN BY HM	CHECKED BY CS/MB
DATE ISSUED 02/20/2026	SCALE 1" = 20'-0"
PROJ. NO. 2502700	
SHEET NO. L2.2	

EROSION AND SEDIMENT CONTROL PLAN - SOFTBALL FIELD

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DRAWING NAME: Y:\Projects-FO\2025\2502700 - Lodi HS Baseball and Softball Field\CAD_SWP.dwg
PLOT DATE: 02-20-26 PLOTTED BY: station23

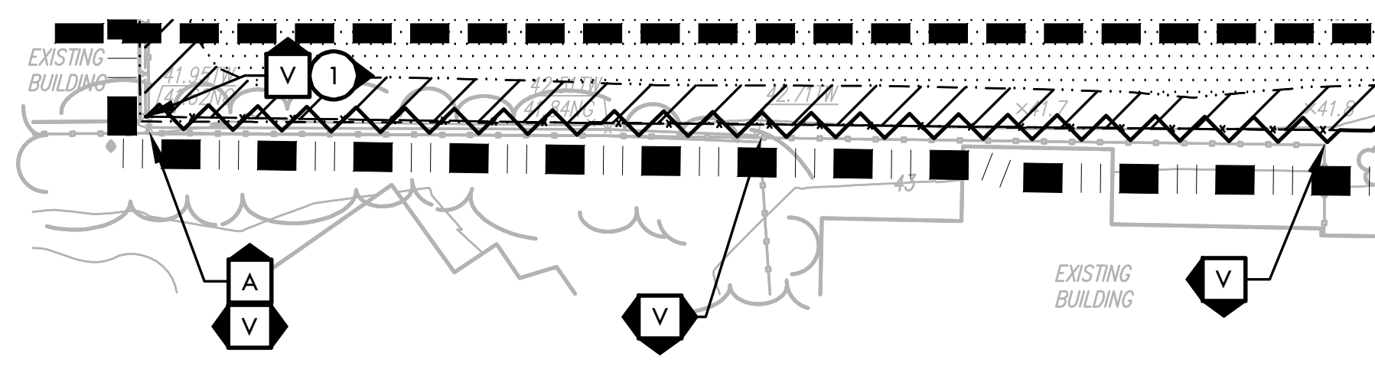
ITEMS TO BE DEMOLISHED	
⑰	CUT AND CAP EXISTING MAINLINE.
⑱	EXISTING MAINLINE TO BE DEMOLISHED AND REMOVED.
⑲	EXISTING FOULPOLE AND FOOTING TO BE DEMOLISHED AND REMOVED.
⑳	EXISTING UNKNOWN UNDERGROUND UTILITY LINE TO BE DEMOLISHED AND REMOVED.
㉑	DEMOLISH POWER AND DATA CONDUITS IN DUGOUT. CUT EXISTING CONDUIT AND ABANDON AT 24" BELOW GRADE. REMOVE ALL WIRES AND EQUIPMENT ABOVE-GRADE BACK TO SOURCE. BACKFILL CONDUIT WITH DIRT. REFER TO ELECTRICAL PLAN.
㉒	EXISTING SURVEY MARKER TO BE REMOVED.

ITEMS TO BE DEMOLISHED	
⑤	EXISTING IRRIGATION EQUIPMENT, MAINLINE, LATERALS, AND HEADS TO BE DEMOLISHED AND REMOVED.
⑥	EXISTING BACKSTOP, BRICK WALL AND/OR BASEBOARDS, AND FOOTINGS TO BE DEMOLISHED AND REMOVED.
⑦	EXISTING BULLPEN, FENCING, GATE, NETTING, FOOTINGS, ELECTRICAL AND RELATED STRUCTURES TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
⑧	EXISTING DRINKING FOUNTAIN, INCLUDING BASE AND FOOTING, TO BE DEMOLISHED AND REMOVED. CAP EXISTING WATER AND SEWER LINE IF REMAINING.
⑨	EXISTING BASE, MOUND AND HOME PLATE TO BE DEMOLISHED AND REMOVED.
⑩	EXISTING BLEACHER TO BE TURNED OVER TO THE DISTRICT.
⑪	EXISTING BENCH TO BE DEMOLISHED AND REMOVED.
⑫	EXISTING ACCESSIBLE RAMP INCLUDING CURBS TO BE DEMOLISHED AND REMOVED.
⑬	EXISTING SCOREBOARD, BEAMS, FOOTINGS, ELECTRICAL AND RELATED STRUCTURES TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
⑭	EXISTING FLAG POLE AND FOOTING TO BE DEMOLISHED AND REMOVED.
⑮	EXISTING CONCRETE DUGOUT STRUCTURE TO BE DEMOLISHED AND REMOVED.
⑯	EXISTING TREE IRRIGATION TO BE DEMOLISHED AND REMOVED.

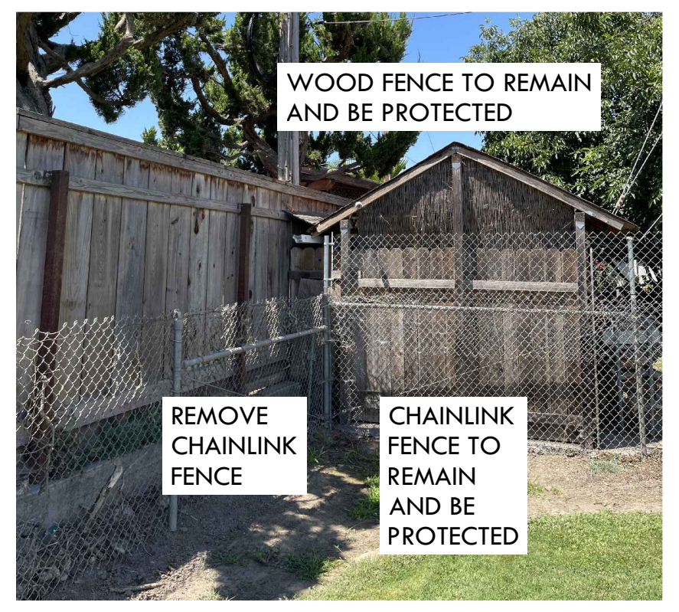
ITEMS TO BE DEMOLISHED	
①	EXISTING FENCING, GATE, EDGEBAND, AND/OR CURB AND GUTTER, INCLUDING FOOTING TO BE DEMOLISHED AND REMOVED. SEE NOTE ON SHEET L3.2 FOR FENCE REMOVAL NEXT TO RESIDENTIAL WOOD FENCES.
②	EXISTING SIGN AND ASSOCIATED FOOTING TO BE DEMOLISHED AND REMOVED.
③	EXISTING ELECTRICAL, COMMUNICATION, AND DATA LINES AND COMPONENTS TO BE DEMOLISHED AND REMOVED. REFER TO ELECTRICAL PLANS.
④	EXISTING EQUIPMENT AND PORTA POTTY UNITS TO BE RELOCATED. REFER TO DISTRICT FOR LOCATION.

ITEMS TO BE PROTECTED OR RELOCATED	
S	EXISTING UTILITY POLE AND GUY WIRE AND ASSOCIATED LINES AND BOXES TO REMAIN AND BE PROTECTED. CONTRACTOR TO BE AWARE OF LOW HANGING UTILITY LINE FROM THESE POLES.
T	EXISTING PORTABLE BATTING CAGE TO BE REMOVED AND RELOCATED PER DISTRICT.
U	EXISTING STORAGE CONTAINER TO BE TURNED OVER TO THE DISTRICT.
V	EXISTING WOOD FENCE AND TALL CURB TO REMAIN AND BE PROTECTED.

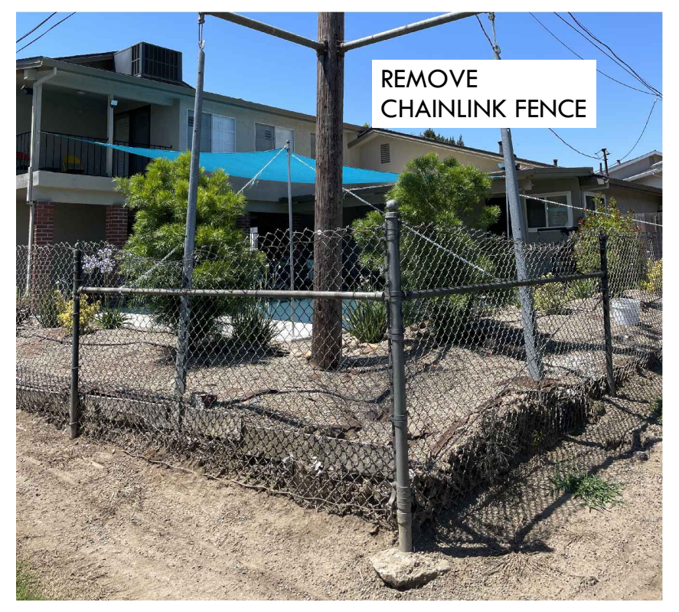
NOTE:
WOOD FENCES AT RESIDENCE SIDE ARE TO REMAIN AND BE PROTECTED. SEE PHOTOS ON THIS PAGE FOR MORE INFORMATION.



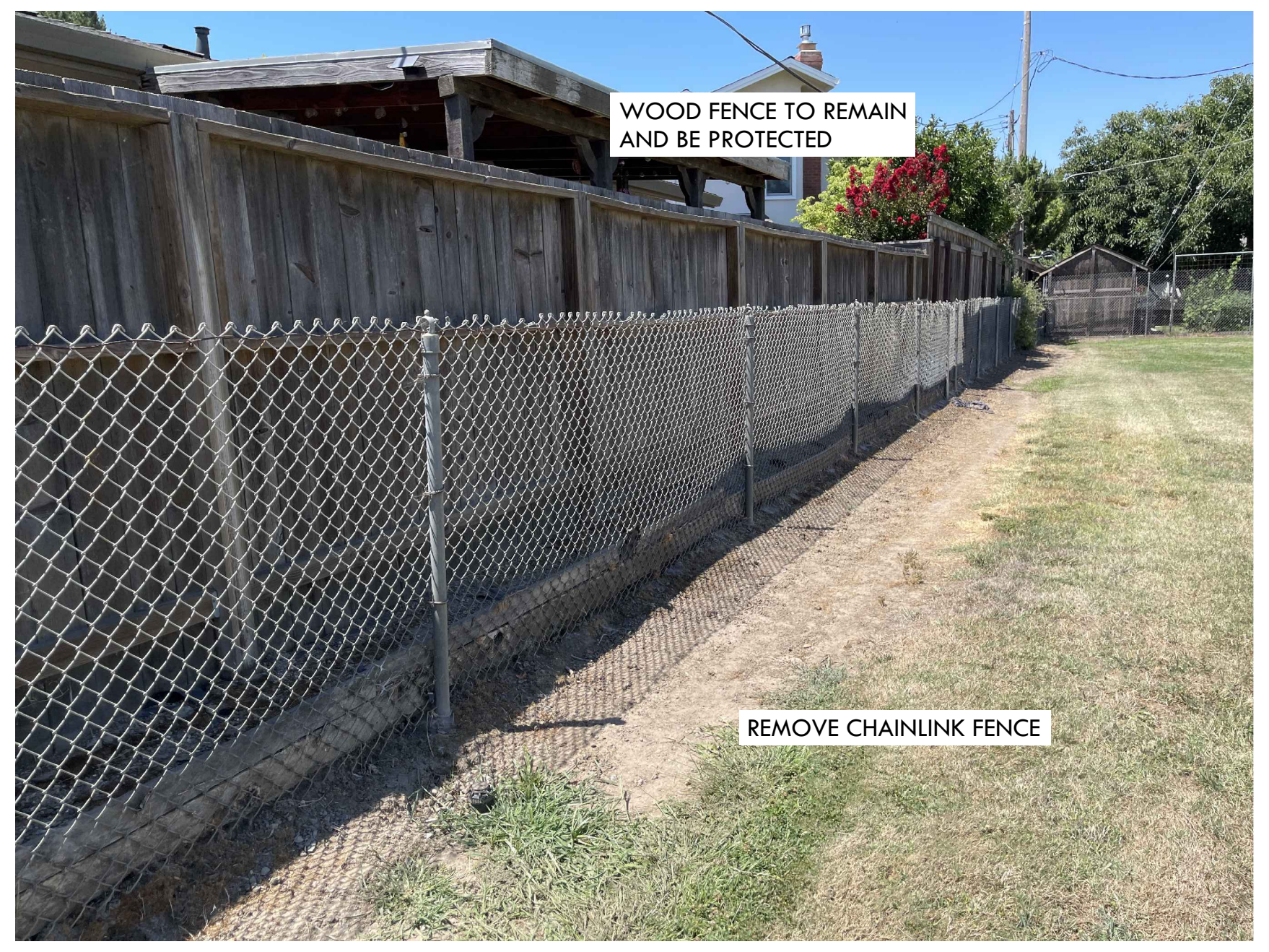
SITE PHOTO


WOOD FENCE TO REMAIN AND BE PROTECTED
REMOVE CHAINLINK FENCE
CHAINLINK FENCE TO REMAIN AND BE PROTECTED

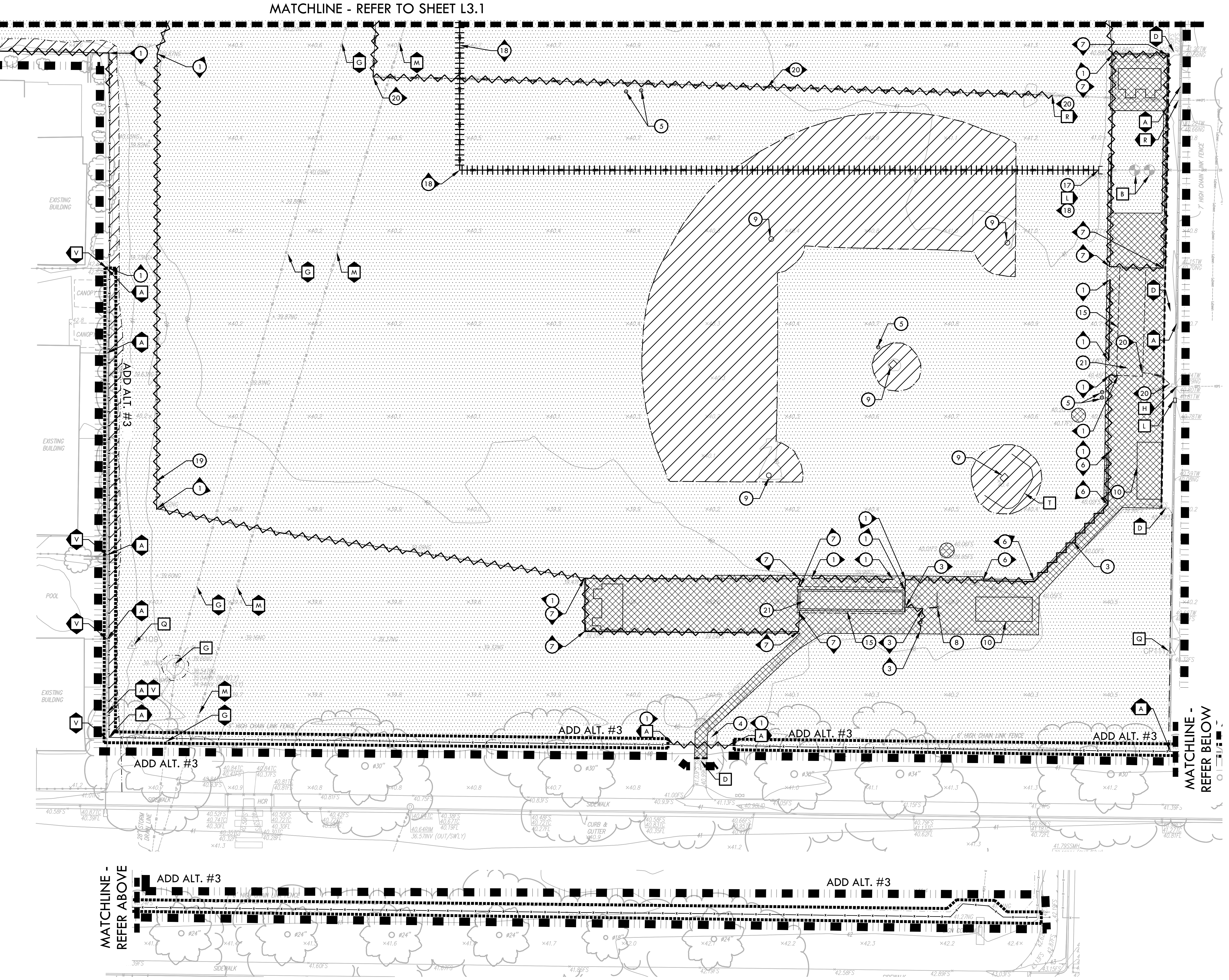
WEST CORNER



EAST CORNER



EAST TO WEST



NOTE:
IF ADDITIVE ALTERNATE #03 IS ACCEPTED, THE EXISTING CHAIN LINK FENCE WILL BE DEMOLISHED AND REMOVED WITHIN THE AREAS INDICATED BY THE DASHED LINE NOTED AS ADD ALT.#03.

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 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). SHALL INCLUDE FULL HEIGHT GREEN 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. EXISTING IRRIGATION EQUIPMENT, MAINLINE, LATERALS, AND HEADS TO REMAIN AND BE PROTECTED UNLESS OTHERWISE NOTED ON PLAN. EXISTING IRRIGATION SYSTEM TO BE OPERABLE DURING CONSTRUCTION.
9. REFER TO SPECIFICATIONS FOR ADDITIONAL CLEARING, GRUBBING, TOPSOIL STOCKPILING AND OTHER PERTINENT INFORMATION.

DEMOLITION LEGEND

SYM	DESCRIPTION
▬	LIMIT OF WORK
# →	KEY LEGEND CALLOUT - ITEMS TO BE DEMOLISHED AND REMOVED
# →	KEY LEGEND CALLOUT - ITEMS TO REMAIN AND BE PROTECTED
⁚	SURFACE VEGETATION TO BE REMOVED PER SPECIFICATIONS. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION.
▽	EXISTING BIORETENTION BASIN TO REMAIN AND BE PROTECTED. IF ANY DAMAGE OCCURS DURING CONSTRUCTION, CONTRACTOR IS RESPONSIBLE TO RETURN IT TO AS FOUND CONDITION.
+	EXISTING CONCRETE BATTING CAGE FENCING AND FLATWORK TO REMAIN. EXISTING BATTING CAGE NETTING TO BE REUSED. REMOVE ALL RUBBER MATS, PADS, AND CLEAR ALL WEEDS AND OTHER DEBRIS TO ALLOW FOR NEW WORK.
▧	EXISTING ASPHALT PAVEMENT TO REMAIN. PARKING STALLS TO BE RE-STRIPED PER PLAN.
▨	DECOMPOSED GRANITE, INFIELD FINES, AB &/OR SAND TO BE REMOVED PER SPECIFICATIONS. REMOVE EXCESS SOIL FROM SITE & DISPOSE IN LEGAL MANNER. REFER TO EARTHWORK SPECIFICATIONS FOR INFORMATION.
▩	DEMOLISH AND REMOVE EXISTING HARDSCAPE PAVING INCLUDING BASE MATERIAL. CONTRACTOR TO DISPOSE OF IN A LEGAL MANNER.
○—○	TEMPORARY CONSTRUCTION FENCING
⩘	DEMOLISH AND REMOVE EXISTING CURB, UTILITY LINE, AND/OR FENCE, INCLUDING POSTS, FABRIC, CURBS, EDGEBANDS AND FOOTINGS
╫	DEMOLISH AND REMOVE EXISTING MAINLINE AND ASSOCIATED REMOTE CONTROL VALVES AND LATERAL LINES AND HEADS
- - -	SAWCUT
— —	LIMIT OF CLEAR AND GRUB
Ⓟ	TREE TO REMAIN AND BE PROTECTED, REFER TO SPECIFICATIONS

ITEMS TO BE PROTECTED OR RELOCATED	
A	EXISTING FENCE, GATE, EDGEBANDS AND/OR CURB AND GUTTER TO REMAIN AND BE PROTECTED.
B	EXISTING IRRIGATION VALVES TO REMAIN AND BE PROTECTED. THESE VALVES ARE TO REMAIN OPERABLE DURING CONSTRUCTION.
C	EXISTING BUILDING TO REMAIN AND BE PROTECTED.
D	EXISTING HARDSCAPE TO REMAIN AND BE PROTECTED.
E	EXISTING CONCRETE SWALE TO REMAIN AND BE PROTECTED.
F	EXISTING LIGHT FIXTURE, POST, ELECTRICAL COMPONENTS, AND FOOTING TO REMAIN AND BE PROTECTED.
G	EXISTING CATCH BASINS OR DRAIN STRUCTURES INCLUDING LINES TO REMAIN AND BE PROTECTED. THE OUTLET PIPES OF THESE CATCH BASINS ARE TO REMAIN AND BE PROTECTED. CONTRACTOR TO ADJUST RIM ELEVATION TO PROPOSED FINISH GRADE ELEVATION IF REQUIRED.
H	EXISTING ELECTRICAL PULL BOX, ELECTRICAL, COMMUNICATION, AND DATA LINES AND COMPONENTS TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS FOR INFORMATION.
I	EXISTING ELECTRICAL TRANSFORMER TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS.
J	EXISTING ELECTRICAL CABINET TO REMAIN AND BE PROTECTED. REFER TO ELECTRICAL PLANS.
K	EXISTING WATER VALVE TO REMAIN AND BE PROTECTED.
L	EXISTING IRRIGATION EQUIPMENT, MAINLINE, LATERALS, AND HEADS TO REMAIN AND BE PROTECTED. EXISTING IRRIGATION SYSTEM TO BE OPERABLE DURING CONSTRUCTION.
M	EXISTING SANITARY SEWER STRUCTURES INCLUDING LINES TO REMAIN AND BE PROTECTED. CONTRACTOR TO ADJUST RIM ELEVATION TO PROPOSED FINISH GRADE ELEVATION IF REQUIRED.
N	EXISTING WATER STRUCTURES INCLUDING LINES TO REMAIN AND BE PROTECTED.
O	EXISTING WATER FOUNTAIN AND RAIL TO REMAIN AND BE PROTECTED.
P	EXISTING ELECTRICAL VAULT, SIGNAL VAULT, AND FIRE ALARM PULL BOX AND RELATED EXISTING CONDUITS TO REMAIN AND BE PROTECTED. RAISE UP THE EXISTING GROUND BOXES TO BE FLUSH WITH FINISHED GRADE AND PROVIDE TRAFFIC RATED LIDS. VERIFY CONDUIT LOCATIONS BEFORE ANY WORK IS DONE. REFER TO ELECTRICAL PLANS.
Q	SURVEY MARKER TO REMAIN AND BE PROTECTED.
R	EXISTING UNKNOWN LINES TO REMAIN AND PROTECTED.

NORTH

0' 10' 20' 40' 60'

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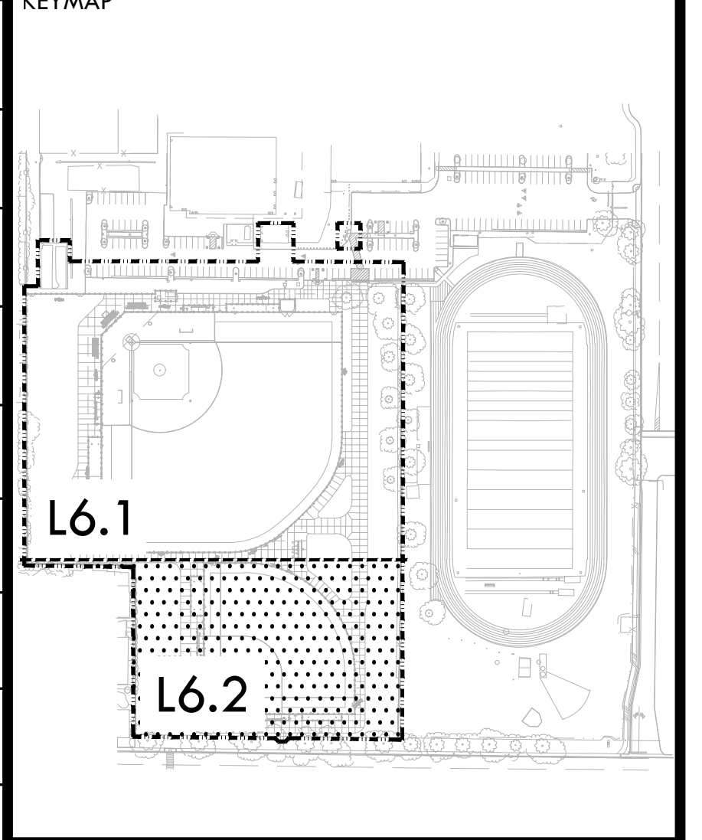
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

MARK S. BAGINSKI
No. 4089
EXPIRATION DATE: JULY 2027

CONSULTANT

KEYMAP



SHEET TITLE
DEMOLITION PLAN - SOFTBALL FIELD

PROJECT NAME
LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

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DRAWN BY	CHECKED BY
AW	CS/MB

DATE ISSUED	SCALE
02/20/2026	1"=20'-0"

PROJ. NO.
2502700

SHEET NO.
L3.2

DEMOLITION PLAN - SOFTBALL FIELD

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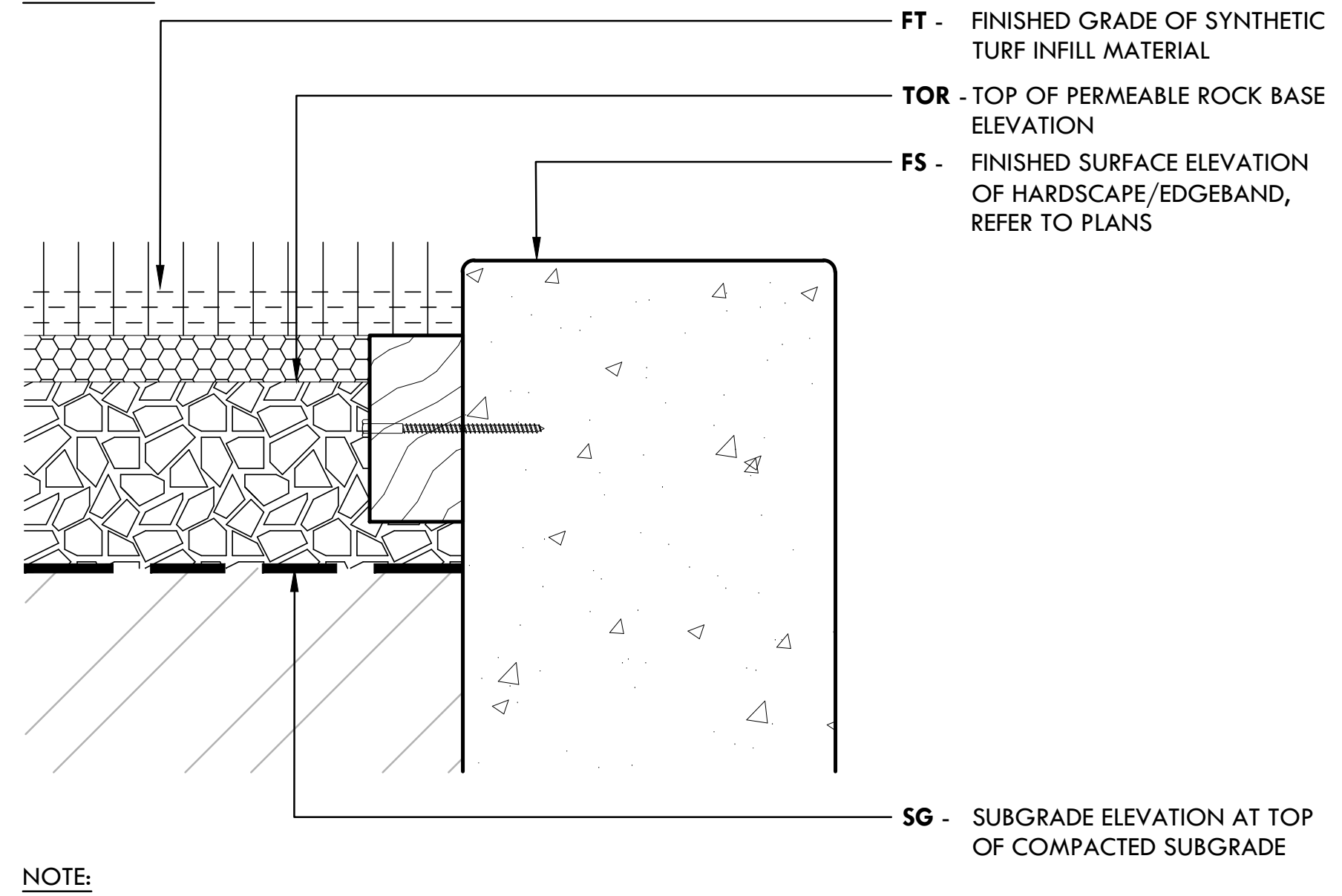

SECTION
FT - FINISHED GRADE OF SYNTHETIC TURF INFILL MATERIAL
TOR - TOP OF PERMEABLE ROCK BASE ELEVATION
FS - FINISHED SURFACE ELEVATION OF HARDSCAPE/EDGEBAND, REFER TO PLANS
SG - SUBGRADE ELEVATION AT TOP OF COMPACTED SUBGRADE

NOTE:
FOR REFERENCE ONLY, REFER TO SYNTHETIC TURF & CONNECTION DETAIL H, D2.1.

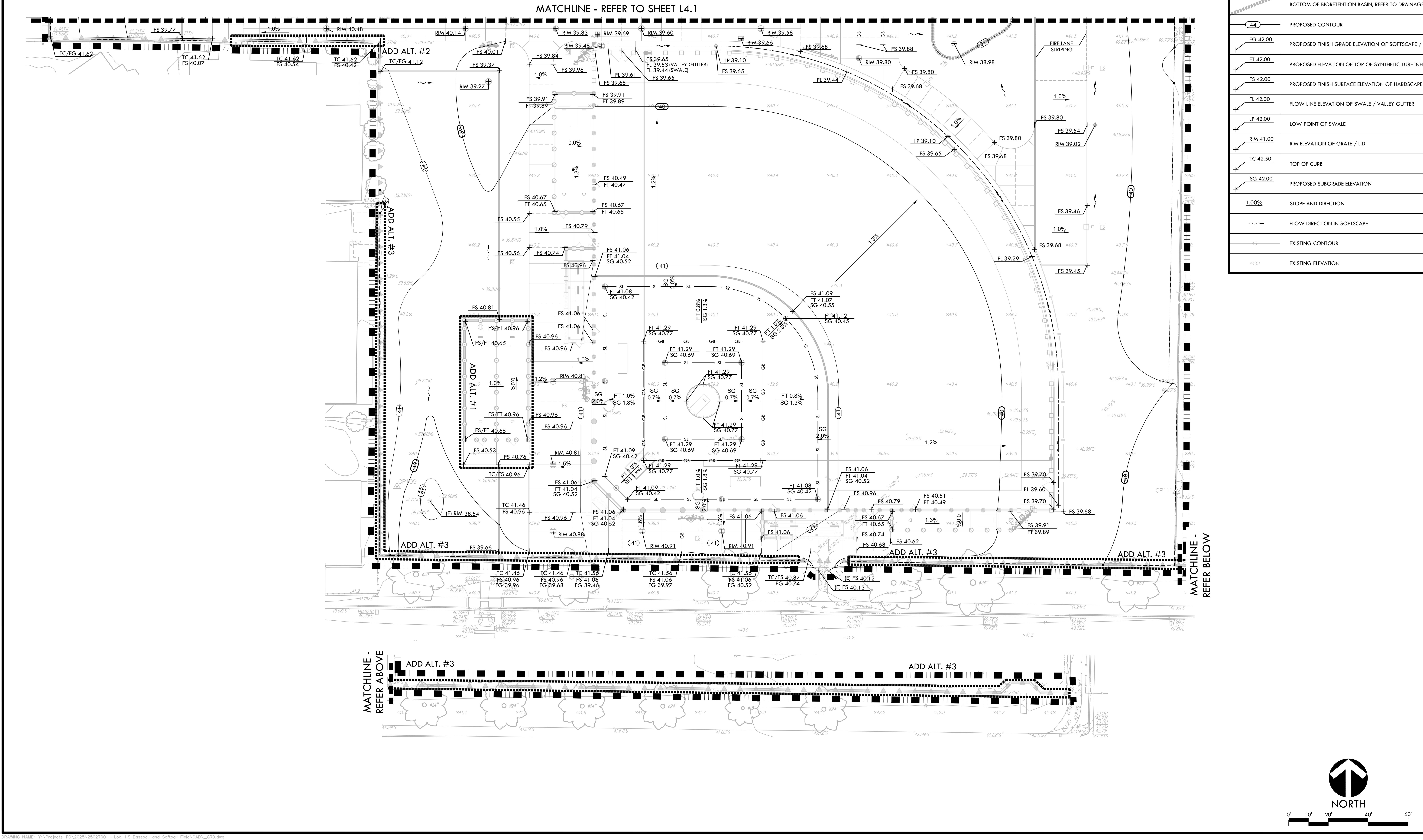
1 SYNTHETIC TURF GRADING CALLOUT DIAGRAM NTS

GRADING NOTES

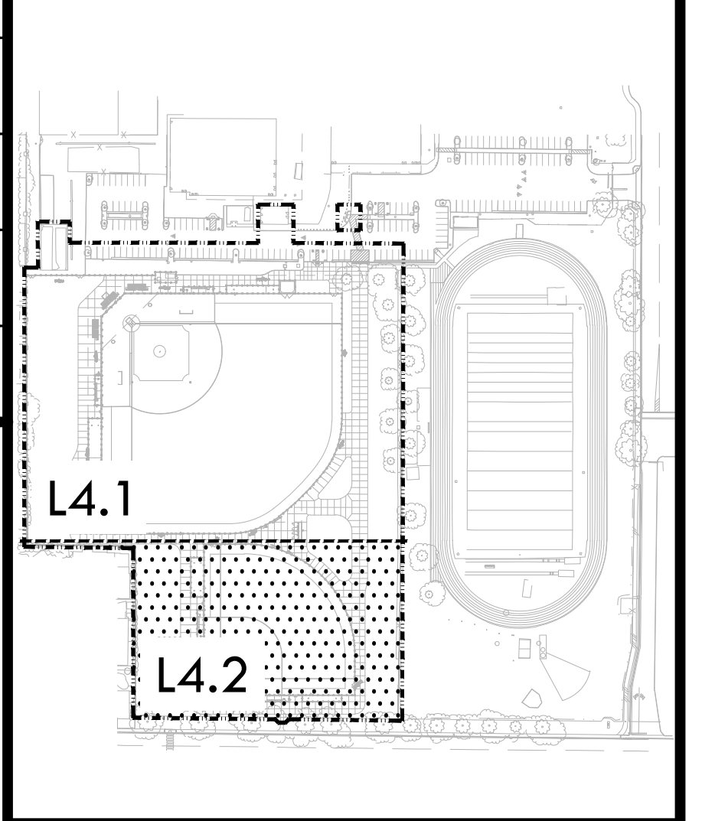
1. EXISTING GRADES ARE BASED ON INFORMATION PROVIDED BY: CALVADA. CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE START OF GRADING, NOTIFY THE DISTRICT'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS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

GRADING LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
	LIMIT OF GRADING - CONFORM TO EXISTING GRADES AT THIS LINE
SL	LOW POINT OF SUBGRADE
GB GB	GRADE BREAK
	CENTERLINE OF SWALE
	BOTTOM OF BIORETENTION BASIN, REFER TO DRAINAGE PLANS.
44	PROPOSED CONTOUR
FG 42.00	PROPOSED FINISH GRADE ELEVATION OF SOFTSCAPE / FINES
FT 42.00	PROPOSED ELEVATION OF TOP OF SYNTHETIC TURF INFILL
FS 42.00	PROPOSED FINISH SURFACE ELEVATION OF HARDSCAPE
FL 42.00	FLOW LINE ELEVATION OF SWALE / VALLEY GUTTER
LP 42.00	LOW POINT OF SWALE
RIM 41.00	RIM ELEVATION OF GRATE / LID
TC 42.50	TOP OF CURB
SG 42.00	PROPOSED SUBGRADE ELEVATION
1.00%	SLOPE AND DIRECTION
~	FLOW DIRECTION IN SOFTSCAPE
43	EXISTING CONTOUR
×43.1	EXISTING ELEVATION


MATCHLINE - REFER TO SHEET L4.1
ADD ALT. #2
ADD ALT. #3
ADD ALT. #1
FIRE LANE STRIPING
TC/FG 41.62
TC 41.62
FS 40.07
TC 41.62
FS 40.54
TC 41.62
FS 40.42
TC/FG 41.12
FS 39.77
RIM 40.48
1.0%
RIM 40.14
FS 40.01
FS 39.37
RIM 39.27
RIM 39.48
FS 39.84
FS 39.96
RIM 39.83
RIM 39.69
RIM 39.60
FS 39.65
FL 39.53 (VALLEY GUTTER)
FL 39.44 (SWALE)
FS 39.65
FL 39.61
FS 39.65
LP 39.10
FS 39.65
RIM 39.66
RIM 39.58
FS 39.68
FL 39.44
FS 39.88
RIM 39.80
FS 39.80
FS 39.68
RIM 38.98
FS 39.91
FT 39.89
0.0%
1.3%
1.2%
1.3%
1.0%
FS 39.80
FS 39.54
RIM 39.02
LP 39.10
FS 39.65
FS 39.80
FS 39.68
FS 40.49
FT 40.47
FS 40.67
FT 40.65
FS 40.67
FT 40.65
FS 40.55
FS 40.79
FS 40.56
FS 40.74
FS 40.96
FS 41.06
FT 41.04
SG 40.52
FS 39.46
FS 39.68
FL 39.29
FS 39.45
FT 41.08
SG 40.42
FS 41.09
FT 41.07
SG 40.55
FS 41.12
FT 41.12
SG 40.45
FT 0.8%
SG 1.3%
FT 1.0%
SG 2.0%
SG 2.0%
FT 41.29
SG 40.77
FT 41.29
SG 40.69
FT 1.0%
SG 1.8%
SG 0.7%
FT 0.8%
SG 1.3%
FS 40.81
FS/FT 40.96
FS/FT 40.65
FS 40.96
FS 40.96
FS 41.06
FS 41.06
RIM 40.81
1.0%
FS/FT 40.96
FS/FT 40.65
FS 40.53
FS 40.76
TC/FS 40.96
RIM 40.81
1.5%
FS 41.06
FT 41.04
SG 40.52
TC 41.46
FS 40.96
(E) RIM 38.54
FS 40.96
RIM 40.88
FS 41.06
FT 41.04
SG 40.52
FT 41.09
SG 40.42
FT 1.0%
SG 1.8%
FT 41.08
SG 40.42
FS 41.06
FT 41.04
SG 40.52
FS 40.96
FS 40.79
FS 40.51
FT 40.49
FS 41.06
FS 41.06
FS 41.06
FS 40.67
FT 40.65
FS 40.74
FS 40.62
FS 40.68
FS 39.70
FL 39.60
FS 39.70
FS 39.68
FS 39.91
FT 39.89
1.2%
SG 2.0%
RIM 40.91
RIM 40.91
FS 39.66
TC 41.46
FS 40.96
FG 39.96
TC 41.46
FS 40.96
FG 39.68
TC 41.56
FS 41.06
FG 39.46
TC 41.56
FS 41.06
FG 39.97
TC 41.56
FS 41.06
FG 40.52
TC/FS 40.87
FG 40.74
(E) FS 40.12
(E) FS 40.13
MATCHLINE - REFER BELOW
MATCHLINE - REFER ABOVE
CP109
CP111
NORTH
0' 10' 20' 40' 60'

KEYMAP



VERDE DESIGN
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tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2027
STATE OF CALIFORNIA

CONSULTANT

SHEET TITLE
GRADING
PLAN -
SOFTBALL FIELD

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
△		
△		
△		
△		
△		

DRAWN BY DK	CHECKED BY CS/MB
DATE ISSUED 02/20/2026	SCALE 1"=20'-0"

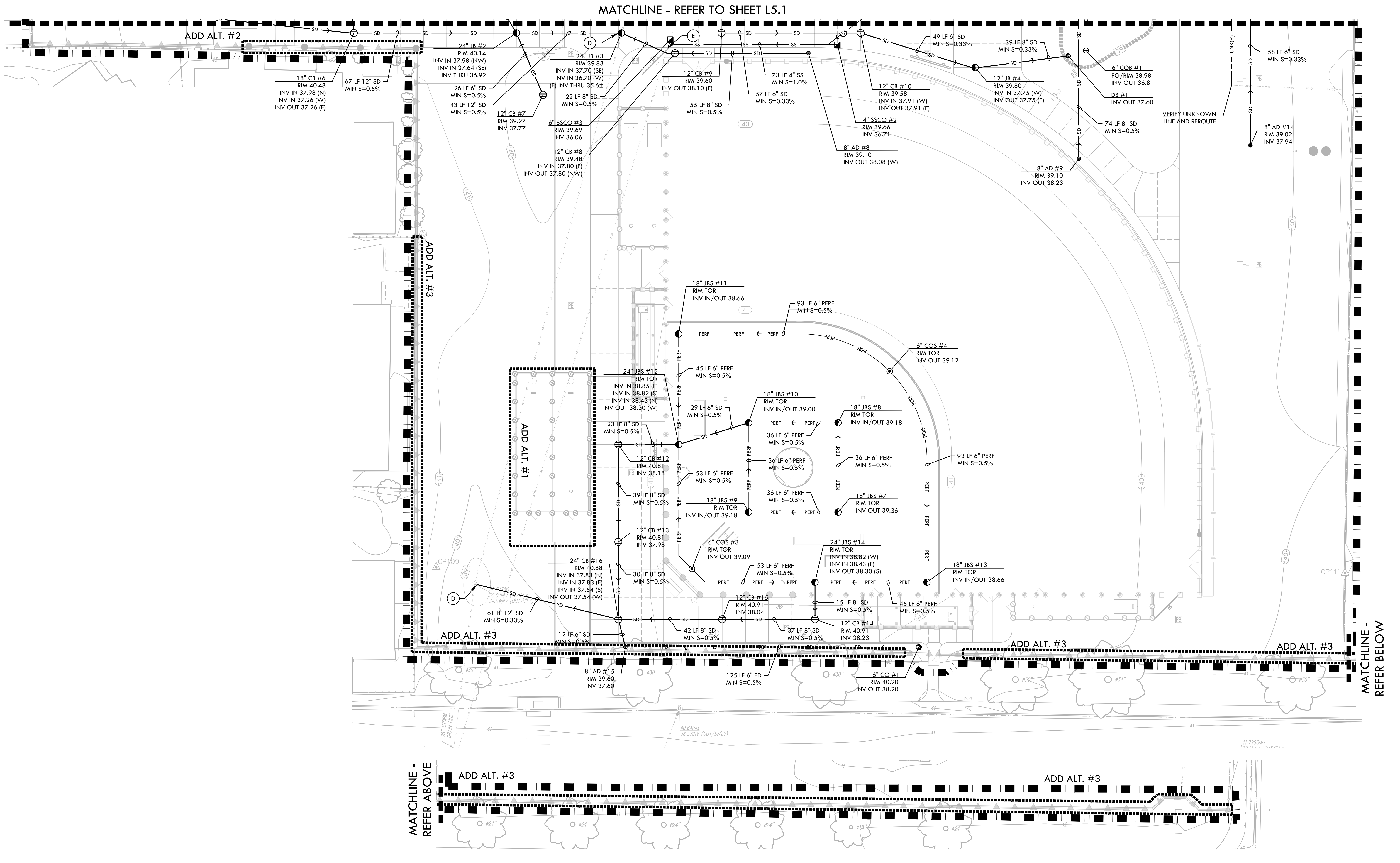
PROJ. NO.
2502700

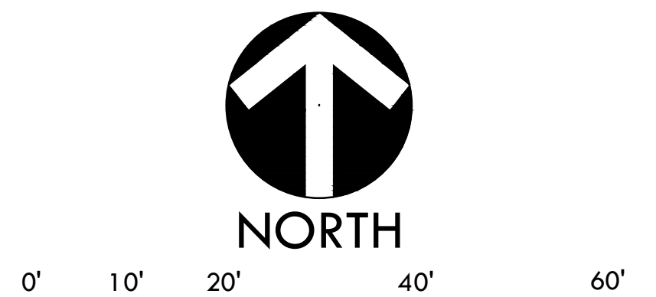
SHEET NO.
L4.2

GRADING PLAN - SOFTBALL FIELD

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

DRAWING NAME: Y:\Projects-FO\2025\2502700 - Lodi HS Baseball and Softball Field\CAD_GRD.dwg
PLOT DATE: 02-20-26 PLOTTED BY: station23


MATCHLINE - REFER TO SHEET L5.1
ADD ALT. #2
SD
SS
18" CB #6
RIM 40.48
INV IN 37.98 (N)
INV IN 37.26 (W)
INV OUT 37.26 (E)
67 LF 12" SD
MIN S=0.5%
24" JB #2
RIM 40.14
INV IN 37.98 (NW)
INV IN 37.64 (SE)
INV THRU 36.92
26 LF 6" SD
MIN S=0.5%
43 LF 12" SD
MIN S=0.5%
12" CB #7
RIM 39.27
INV 37.77
24" JB #3
RIM 39.83
INV IN 37.70 (SE)
INV IN 36.70 (W)
(E) INV THRU 35.6±
22 LF 8" SD
MIN S=0.5%
6" SSCO #3
RIM 39.69
INV 36.06
12" CB #8
RIM 39.48
INV IN 37.80 (E)
INV OUT 37.80 (NW)
D
E
12" CB #9
RIM 39.60
INV OUT 38.10 (E)
55 LF 8" SD
MIN S=0.5%
57 LF 6" SD
MIN S=0.33%
73 LF 4" SS
MIN S=1.0%
12" CB #10
RIM 39.58
INV IN 37.91 (W)
INV OUT 37.91 (E)
4" SSCO #2
RIM 39.66
INV 36.71
8" AD #8
RIM 39.10
INV OUT 38.08 (W)
49 LF 6" SD
MIN S=0.33%
12" JB #4
RIM 39.80
INV IN 37.75 (W)
INV OUT 37.75 (E)
39 LF 8" SD
MIN S=0.33%
6" COB #1
FG/RIM 38.98
INV OUT 36.81
DB #1
INV OUT 37.60
74 LF 8" SD
MIN S=0.5%
8" AD #9
RIM 39.10
INV OUT 38.23
UNK(P)
VERIFY UNKNOWN
LINE AND REROUTE
58 LF 6" SD
MIN S=0.33%
8" AD #14
RIM 39.02
INV 37.94
ADD ALT. #3
ADD ALT. #1
18" JBS #11
RIM TOR
INV IN/OUT 38.66
93 LF 6" PERF
MIN S=0.5%
PERF
6" COS #4
RIM TOR
INV OUT 39.12
45 LF 6" PERF
MIN S=0.5%
24" JBS #12
RIM TOR
INV IN 38.85 (E)
INV IN 38.82 (S)
INV IN 38.43 (N)
INV OUT 38.30 (W)
18" JBS #10
RIM TOR
INV IN/OUT 39.00
18" JBS #8
RIM TOR
INV IN/OUT 39.18
29 LF 6" SD
MIN S=0.5%
23 LF 8" SD
MIN S=0.5%
36 LF 6" PERF
MIN S=0.5%
12" CB #12
RIM 40.81
INV 38.18
53 LF 6" PERF
MIN S=0.5%
93 LF 6" PERF
MIN S=0.5%
39 LF 8" SD
MIN S=0.5%
18" JBS #9
RIM TOR
INV IN/OUT 39.18
18" JBS #7
RIM TOR
INV OUT 39.36
12" CB #13
RIM 40.81
INV 37.98
6" COS #3
RIM TOR
INV OUT 39.09
24" JBS #14
RIM TOR
INV IN 38.82 (W)
INV IN 38.43 (E)
INV OUT 38.30 (S)
18" JBS #13
RIM TOR
INV IN/OUT 38.66
24" CB #16
RIM 40.88
INV IN 37.83 (N)
INV IN 37.83 (E)
INV IN 37.54 (S)
INV OUT 37.54 (W)
30 LF 8" SD
MIN S=0.5%
53 LF 6" PERF
MIN S=0.5%
12" CB #15
RIM 40.91
INV 38.04
15 LF 8" SD
MIN S=0.5%
45 LF 6" PERF
MIN S=0.5%
61 LF 12" SD
MIN S=0.33%
42 LF 8" SD
MIN S=0.5%
37 LF 8" SD
MIN S=0.5%
12" CB #14
RIM 40.91
INV 38.23
12 LF 6" SD
MIN S=0.5%
8" AD #15
RIM 39.60
INV 37.60
125 LF 6" FD
MIN S=0.5%
6" CO #1
RIM 40.20
INV OUT 38.20
CP109
CP111
ø30"
40.64RIM
36.57INV (OUT/SW'LY)
28" STORM DRAIN LINE
MATCHLINE - REFER BELOW
MATCHLINE - REFER ABOVE


NORTH
0'
10'
20'
40'
60'

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 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 & UTILITY LEGEND

SYM	DESCRIPTION	DETAIL NUMBER / SHEET NUMBER
▬ ▬	LIMIT OF WORK	
⊜	CATCH BASIN, SIZE PER PLAN (CB)	B / D1.1
⊜	AREA DRAIN, SIZE PER PLAN (AD)	O / D1.1
◐	JUNCTION BOX, SIZE PER PLAN (JB)	B,C / D1.1
◐	JUNCTION BOX IN SYNTHETIC TURF, SIZE PER PLAN (JBS)	D / D1.1
⊙	CLEANOUT IN SYNTHETIC TURF (COS)	G / D1.1
⊕	CLEANOUT IN BIORETENTION AREA (COB)	K / D1.1
▶	CLEANOUT IN SOFTSCAPE (CO)	E / D1.1
◩	SANITARY SEWER CLEANOUT (SSCO)	I / D1.1
⋈	NIBCO GATE VALVES 2" AND SMALLER SHALL BE NIBCO T-113 LF. FOR VALVES ABOVE 2" IN SIZE UTILIZE NIBCO F-619 FLANGED VALVE WITH SQUARE OPERATING NUT.	
⊡	OVERFLOW RISER (OFR) WITH GRATE/STANDPIPE AT BIORETENTION AREA, SIZE PER PLAN	N / D1.1
◀	ENERGY DISSIPATOR (ED)	L / D1.1
○	DRAINAGE BUBBLER (DB)	R / D1.1
N	FIRE HYDRANT	B / D1.2
◀	THRUST BLOCK	D / D1.2
SD	SOLID WALL STORM DRAIN	A / D1.1
PERF	PERFORATED SUBDRAIN LINE	H / D1.1
FD	FRENCH DRAIN	Q / D1.1
SS	SANITARY SEWER LINE	A / D1.1
DOM	DOMESTIC WATER LINE	A / D1.1
▨	BIORETENTION AREA (BOTTOM OF BIORETENTION BASIN)	M / D1.1
▭	TRENCH DRAIN (TD)	J / D1.1
Ⓐ	DOMESTIC WATER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.	
Ⓑ	DOMESTIC WATER CONNECTION TO DRINKING FOUNTAIN	
Ⓒ	DOMESTIC WATER STUB FOR FUTURE CONNECTION	
Ⓓ	STORM DRAIN POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.	
Ⓔ	SANITARY SEWER POINT OF CONNECTION. CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATION PRIOR TO INITIATING DRAINAGE IMPROVEMENTS. ANY DISCREPANCY TO BE PROVIDED TO DISTRICT IN WRITING.	
Ⓕ	SANITARY SEWER CONNECTION TO DRINKING FOUNTAIN	
Ⓖ	SANITARY SEWER STUB FOR FUTURE CONNECTION	
Ⓗ	PROTECT (E) STRUCTURE, REPLACE GRATE WITH SOLID LID AND BURY IN PLACE.	
(E)	EXISTING	
INV	INVERT	
LF	LINEAR FEET	
MIN	MINIMUM	
RIM	RIM ELEVATION	
S=0.5%	SLOPE	
TOR	TOP OF ROCK	
N, S, W, E	NORTH, SOUTH, WEST, EAST	

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

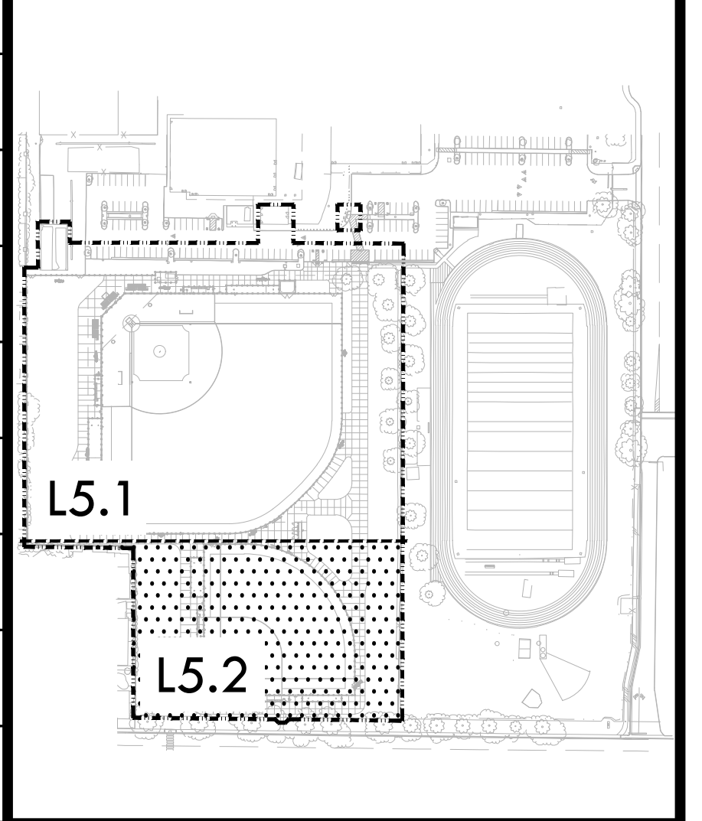
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE:
JULY 2027
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

DRAINAGE AND UTILITY PLAN - SOFTBALL FIELD

PROJECT NAME

LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
△		
△		
△		
△		
△		

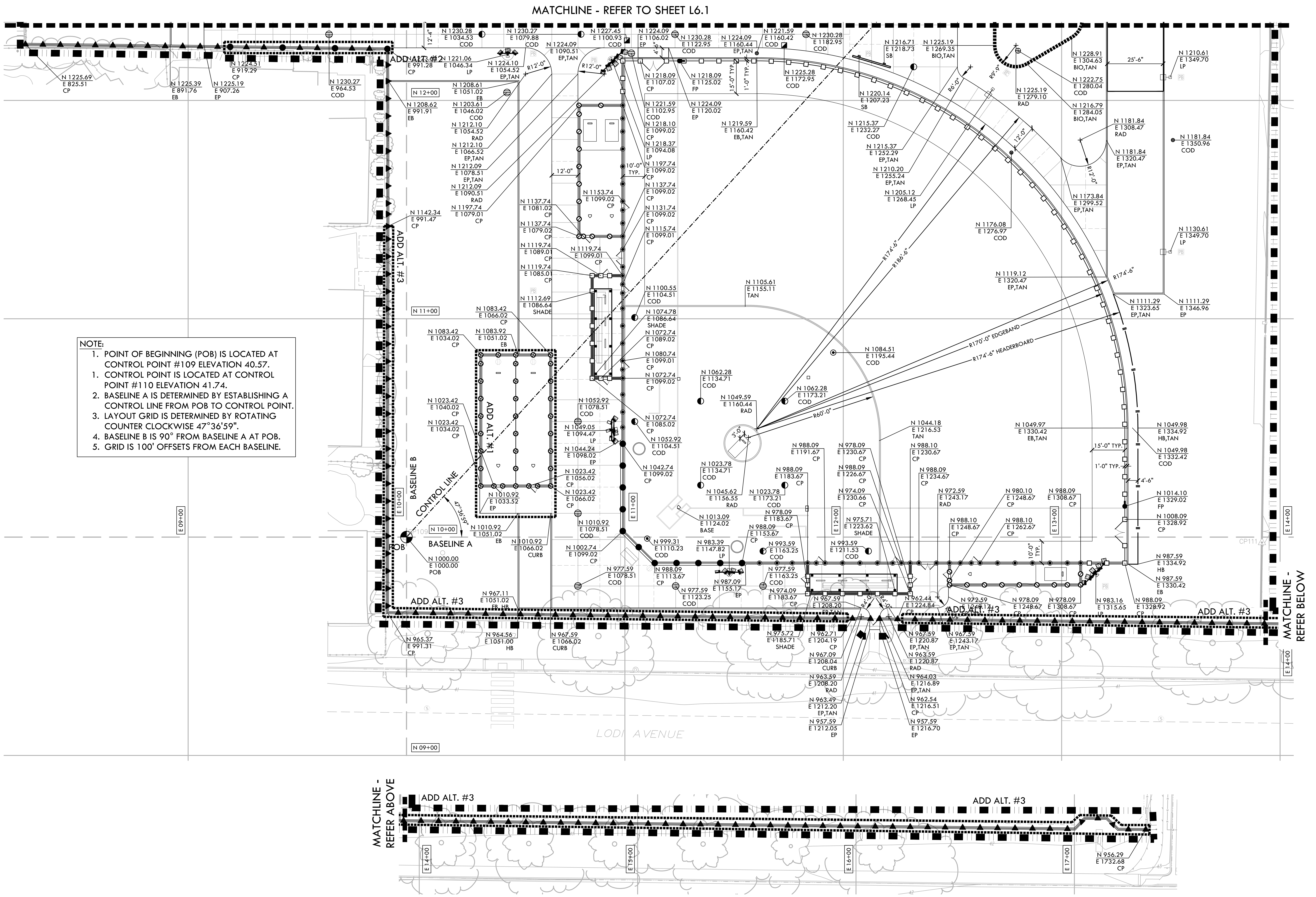
DRAWN BY DK	CHECKED BY CS/MB
DATE ISSUED 02/20/2026	SCALE 1"=20'-0"

PROJ. NO.
2502700

SHEET NO.
L5.2

DRAINAGE AND UTILITY PLAN - SOFTBALL FIELD

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


MATCHLINE - REFER TO SHEET L6.1
ADD ALT. #2
ADD ALT. #3
ADD ALT. #1
BASELINE A
BASELINE B
CONTROL LINE
47°36'59"
POB
N 1000.00
E 1000.00
POB
N 12+00
N 11+00
N 10+00
N 09+00
E 09+00
E 10+00
E 11+00
E 12+00
E 13+00
E 14+00
E 15+00
E 16+00
E 17+00
LODI AVENUE
MATCHLINE - REFER BELOW
MATCHLINE - REFER ABOVE
R170'-0" EDGEBAND
R174'-6" HEADERBOARD
R174'-6"
R170'-0"
R60'-0"
R12'-0"
R12'-0"
25'-6"
12'-0"
10'-0" TYP.
15'-0" TYP.
1'-0" TYP.
4'-6"
3'-0"
N 1230.28
E 1034.53
COD
N 1230.27
E 1079.88
COD
N 1227.45
E 1100.93
COD
N 1224.09
E 1106.02
EP
N 1230.28
E 1122.95
COD
N 1224.09
E 1160.44
EP,TAN
N 1221.59
E 1160.42
COD
N 1230.28
E 1182.95
COD
N 1216.71
E 1218.73
SB
N 1225.19
E 1269.35
BIO,TAN
N 1228.91
E 1304.63
BIO,TAN
N 1210.61
E 1349.70
LP
N 1222.75
E 1280.04
COD
N 1216.79
E 1284.05
BIO,TAN
N 1181.84
E 1308.47
RAD
N 1181.84
E 1350.96
COD
N 1181.84
E 1320.47
EP,TAN
N 1173.84
E 1299.52
EP,TAN
N 1130.61
E 1349.70
LP
N 1111.29
E 1323.65
EP,TAN
N 1111.29
E 1346.96
LP
N 1119.12
E 1320.47
EP,TAN
N 1176.08
E 1276.97
COD
N 1225.69
E 825.51
CP
N 1225.39
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SHADE
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E 1220.87
RAD
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EP,TAN
N 962.54
E 1216.51
CP
N 957.59
E 1216.70
EP
N 956.29
E 1732.68
CP
NORTH
0'
10'
20'
40'
60'

LAYOUT NOTES

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

LAYOUT LEGEND

SYM	DESCRIPTION
	LIMIT OF WORK
POB	POINT OF BEGINNING
⊙	ANCHOR POINT FOR CONTROL LINE
R10'	RADIUS POINT / CENTER MARK
90°	PROPOSED ANGLE BETWEEN ELEMENTS
ALIGN	ALIGN EDGES OF ELEMENTS
X"	DISTANCE BETWEEN ELEMENTS
	BASELINE
	CONTROL LINE
N 6+21.95 E 4+97.08	NORTHING/EASTING LAYOUT COORDINATE CALLOUT
(BASE)	HOME BASE
(BIO)	EDGE OF BIORETENTION AREA
(BOL)	CENTER OF BOLLARD
(COD)	CENTER OF DRAINAGE STRUCTURE
(CP)	CENTER OF POST
(CSP)	CENTER OF SIGN POST
(CTD)	CENTER OF TRENCH DRAIN
(CURB)	CURB
(DF)	DRINKING FOUNTAIN
(DFR)	DRINKING FOUNTAIN RAIL
(DOMES)	EDGE OF TRUNCATED DOMES
(EB)	EDGEBAND
(EP)	EDGE OF PAVEMENT
(FH)	FIRE HYDRANT
(FLG)	CENTER OF FLAG POLE
(FP)	CENTER OF FOUL POLE
(HB)	EDGE OF HEADERBOARD
(LP)	CENTER OF LIGHTING POLE
(RAD)	RADIUS POINT
(SB)	CENTER OF SCOREBOARD FOOTING
(SHADE)	CENTER OF SHADE STRUCTURE FOOTING
(TAN)	TANGENT POINT

NOTE:
1. POINT OF BEGINNING (POB) IS LOCATED AT CONTROL POINT #109 ELEVATION 40.57.
1. CONTROL POINT IS LOCATED AT CONTROL POINT #110 ELEVATION 41.74.
2. BASELINE A IS DETERMINED BY ESTABLISHING A CONTROL LINE FROM POB TO CONTROL POINT.
3. LAYOUT GRID IS DETERMINED BY ROTATING COUNTER CLOCKWISE 47°36'59".
4. BASELINE B IS 90° FROM BASELINE A AT POB.
5. GRID IS 100' OFFSETS FROM EACH BASELINE.

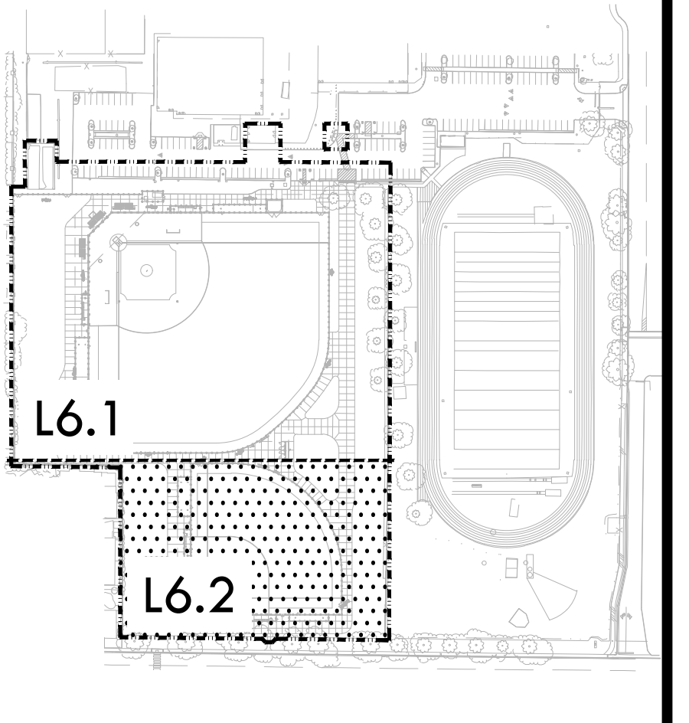
VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2027
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

LAYOUT
PLAN -
SOFTBALL FIELD

PROJECT NAME

LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY AJ	CHECKED BY CS/MB
DATE ISSUED 02/20/2026	SCALE 1"=20'-0"
PROJ. NO. 2502700	
SHEET NO. L6.2	

LAYOUT PLAN - SOFTBALL FIELD

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

DRAWING NAME: Y:\Projects-FO\2025\2502700 - Lodi HS Baseball and Softball Field\CAD_LAY.dwg
PLOT DATE: 02-20-26 PLOTTED BY: station23

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
㉟	DRINKING FOUNTAIN	A / D1.2
㊱	RAMP	N / D2.1
㊲	DRIVEWAY	O / D2.1
㊳	EXISTING RESTROOM BUILDING MODIFICATIONS	A / D6.1
㊴	FIRE LANE STRIPING	N / D2.2
㊵	PATHWAY LIGHTS	

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
㉙	ASPHALT PATCH	C / D2.1
㉚	CONCRETE VALLEY GUTTER	M / D2.1
㉛	MUSCO LIGHTING, REFER TO MUSCO AND ELECTRICAL PLANS	
㉜	EXISTING BATTING CAGE RESURFACE	K / D4.2
㉝	FIRE HYDRANT	B / D1.2
㉞	ADA PARKING STALL	K / D2.2

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
㉓	FENCE CAP - YELLOW (REFER TO SPECIFICATIONS)	J / D4.1
㉔	OUTFIELD DISTANCE BANNERS, REFER TO SPECIFICATIONS	
㉕	BOLLARD - REMOVABLE	K / D2.1
㉖	SHOVEL CUT EDGE	H / D4.2
㉗	INFIELD FINES TO SYNTHETIC TURF EDGE	J / D2.1
㉘	NATURAL TURF TO SYNTHETIC TURF EDGE	I / D2.1

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
⑲	BATTING CAGE - ADDITIVE ALTERNATE #1	A / D4.4
⑳	FENCE IN INFIELD FINES	I / D4.2
㉑	FOUL POLE	J / D4.1
㉒	FENCE CAP - BLACK (REFER TO SPECIFICATIONS)	J / D4.1

MATERIAL LEGEND

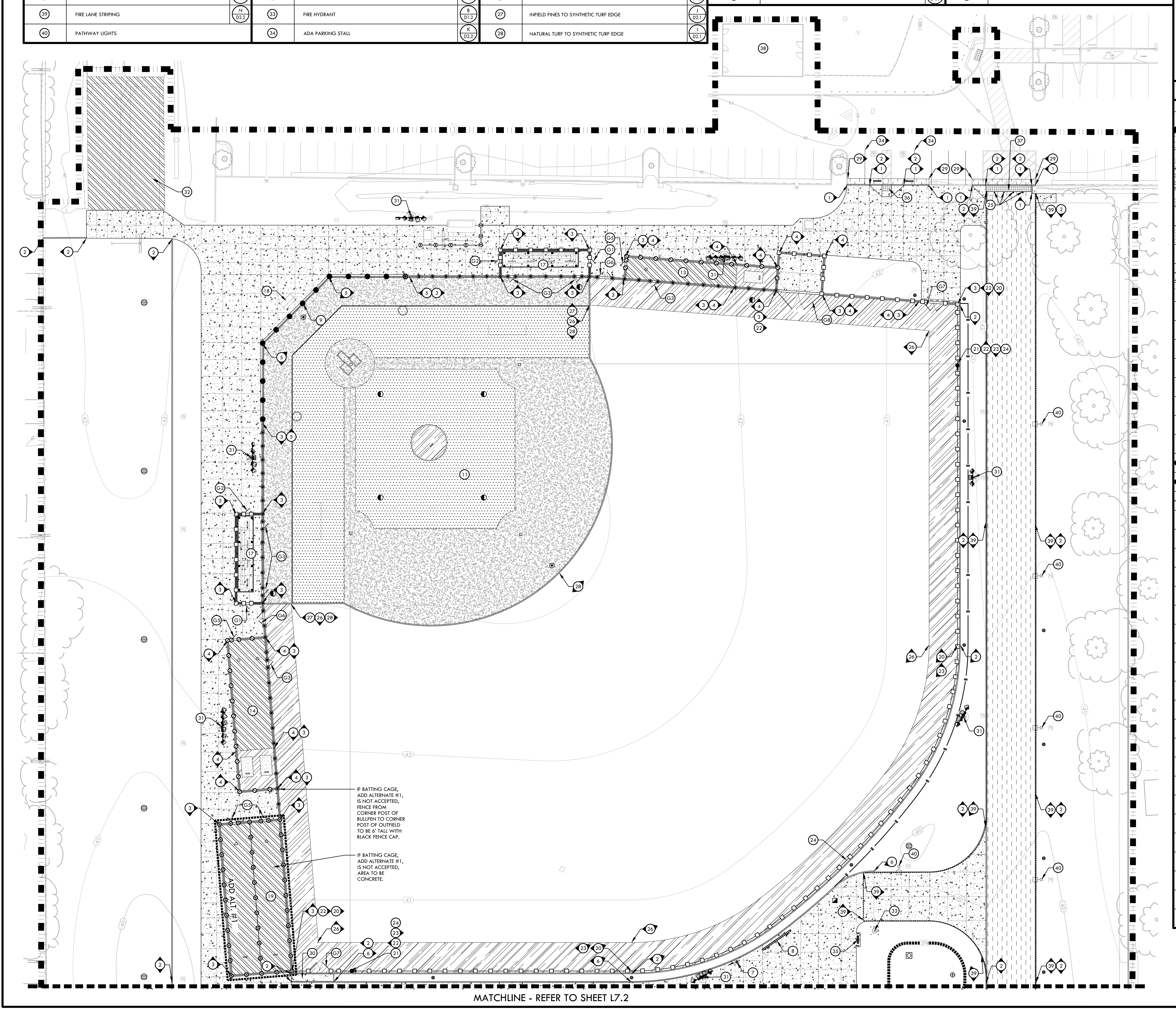
SYM	DESCRIPTION	DTL REF
⑮	SOFTBALL SINGLE BULLPEN	B / D4.3
⑯	SOFTBALL DOUBLE BULLPEN	C / D4.3
⑰	DUGOUT	F,G,I / D4.1
⑱	SCORER'S TABLE, REFER TO SPECIFICATIONS	J / D4.1

MATERIAL NOTES

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

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
▬ ▬ ▬	LIMIT OF WORK	
⠿	SYNTHETIC TURF WITH BROCK PAD - (GREEN)	G / D2.1
▒	SYNTHETIC TURF WITH BROCK PAD - (INFIELD BROWN)	G / D2.1
▧	SYNTHETIC TURF (NO INFILL)	H / D2.1
▨	INFIELD/WARNING TRACK FINES	L / D4.1
░	INFIELD FINES OVER CLAY	K / D4.1
○○○	DETECTABLE WARNING (SURFACE MOUNT)	L / D2.1
▥	ASPHALT PAVING	B / D2.1
░	CONCRETE PAVING	A / D2.1
- - -	EXPANSION JOINT SCORE JOINT	E / D2.1
▭	TRENCH DRAIN	J / D1.1
⊗—⊗—⊗	42" TALL CHAIN LINK FENCE	D / D3.1
□—□—□	6' TALL CHAIN LINK FENCE	D / D3.1
□‖‖‖□‖‖‖□	6' TALL CHAIN LINK FENCE WITH SLATS	E / D3.1
▲—▲—▲	7' TALL CHAIN LINK FENCE	F / D3.1
⊘—⊘—⊘	10' TALL CHAIN LINK FENCE	F / D3.1
◉—◉—◉	12' TALL CHAIN LINK FENCE	F / D3.1
⊗—⊗—⊗	14' TALL CHAIN LINK FENCE	G / D3.1
●—●—●	30' TALL CHAIN LINK BACKSTOP	I / D3.1
●—▲—▲—●	20' TALL PROTECTIVE NETTING WITH 7' TALL FENCE - ADDITIVE ALTERNATE #2	D / D4.4
—‖—	REDWOOD HEADER BOARD	Q / D5.1
(G1)	6' TALL X 4' WIDE SWING GATE - ACCESSIBLE	K / D3.2
(G2)	6' TALL X 4' WIDE SWING GATE WITH PANIC HARDWARE	A / D3.2
(G3)	7' TALL X 4' WIDE SWING GATE - ACCESSIBLE WITH TRANSOM	L / D3.2
(G4)	7' TALL X 4' WIDE SWING GATE WITH PANIC HARDWARE	B / D3.2
(G5)	7' TALL X 4' WIDE SWING GATE WITH TRANSOM & PANIC HARDWARE	C / D3.2
(G6)	7' TALL X 8' WIDE DOUBLE SWING GATE WITH TRANSOM & PANIC HARDWARE	D / D3.2
(G7)	6' TALL X 12' WIDE DOUBLE SWING GATE	E / D3.2
(G8)	6' TALL X 24' WIDE DOUBLE SWING GATE	F / D3.2
①	6" CURB AT PARKING LOT	E / D2.2
②	6" WIDE EDGEBAND	B / D2.2
③	12" WIDE EDGEBAND WITH FENCE	C / D2.2
④	12" WIDE TALL CURB WITH FENCE	F / D2.2
⑤	18" WIDE BACKSTOP EDGEBAND	D / D2.2
⑥	6" WIDE TALL CURB	M / D2.2
⑦	FLAG POLE (REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS)	
⑧	SCOREBOARD (REFER TO NEVCO, STRUCTURAL, AND ELECTRICAL DRAWINGS, AND SPECIFICATIONS)	
⑨	BASEBALL BACKSTOP (REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS)	A / D3.3
⑩	SOFTBALL BACKSTOP (REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS)	A / D3.4
⑪	BASEBALL INFIELD	A / D4.1
⑫	SOFTBALL INFIELD	A / D4.3
⑬	BASEBALL SINGLE BULLPEN	A / D4.2
⑭	BASEBALL DOUBLE BULLPEN	B / D4.2



IF BATTING CAGE, ADD ALTERNATE #1, IS NOT ACCEPTED, FENCE FROM CORNER POST OF BULLPEN TO CORNER POST OF OUTFIELD TO BE 6' TALL WITH BLACK FENCE CAP.
IF BATTING CAGE, ADD ALTERNATE #1, IS NOT ACCEPTED, AREA TO BE CONCRETE.
ADD ALT. #1
NORTH
0' 10' 20' 40' 60'

MATCHLINE - REFER TO SHEET L7.2

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

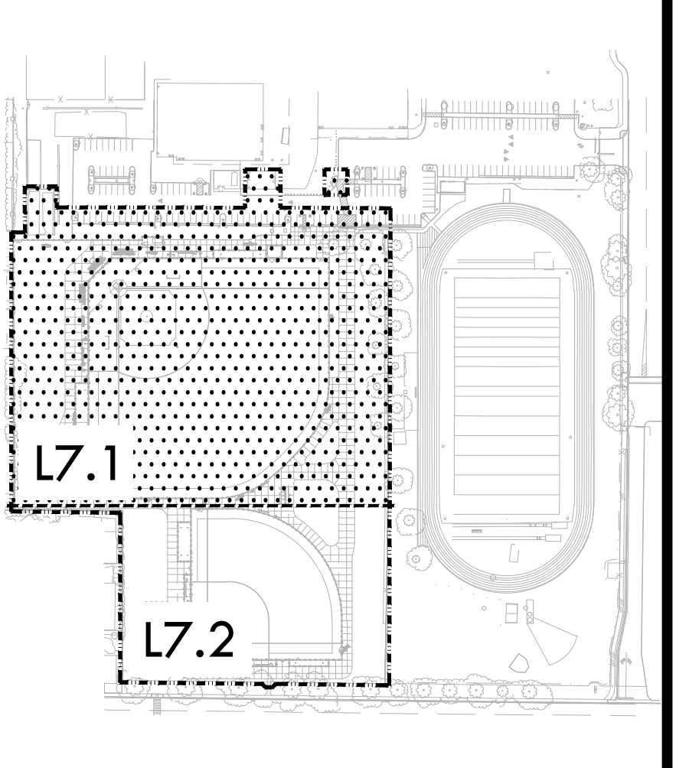
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2027
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

MATERIAL AND
DETAIL REFERENCE PLAN -
BASEBALL FIELD

PROJECT NAME

LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
△		
△		
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△		

DRAWN BY	CHECKED BY
AJ	CS/MB
DATE ISSUED 02/20/2026	SCALE 1"=20'-0"

PROJ. NO.
2502700

SHEET NO.
L7.1

MATERIAL AND DETAIL REFERENCE PLAN - BASEBALL FIELD

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

DRAWING NAME: Y:\Projects-FO\2025\2502700 - Lodi HS Baseball and Softball Field\CAD\L_MAT.dwg
PLOT DATE: 02-20-26 PLOTTED BY: station23

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
㉟	DRINKING FOUNTAIN	A / D1.2
㊱	RAMP	N / D2.1
㊲	DRIVEWAY	O / D2.1
㊳	EXISTING RESTROOM BUILDING MODIFICATIONS	A / D6.1
㊴	FIRE LANE STRIPING	N / D2.2
㊵	PATHWAY LIGHTS	

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
㉙	ASPHALT PATCH	C / D2.1
㉚	CONCRETE VALLEY GUTTER	M / D2.1
㉛	MUSCO LIGHTING, REFER TO MUSCO AND ELECTRICAL PLANS	
㉜	EXISTING BATTING CAGE RESURFACE	K / D4.2
㉝	FIRE HYDRANT	B / D1.2
㉞	ADA PARKING STALL	K / D2.2

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
㉓	FENCE CAP - YELLOW (REFER TO SPECIFICATIONS)	J / D4.1
㉔	OUTFIELD DISTANCE BANNERS, REFER TO SPECIFICATIONS	
㉕	BOLLARD - REMOVABLE	K / D2.1
㉖	SHOVEL CUT EDGE	H / D4.2
㉗	INFIELD FINES TO SYNTHETIC TURF EDGE	J / D2.1
㉘	NATURAL TURF TO SYNTHETIC TURF EDGE	I / D2.1

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
⑲	BATTING CAGE - ADDITIVE ALTERNATE #1	A / D4.4
⑳	FENCE IN INFIELD FINES	I / D4.2
㉑	FOUL POLE	J / D4.1
㉒	FENCE CAP - BLACK (REFER TO SPECIFICATIONS)	J / D4.1

MATERIAL LEGEND

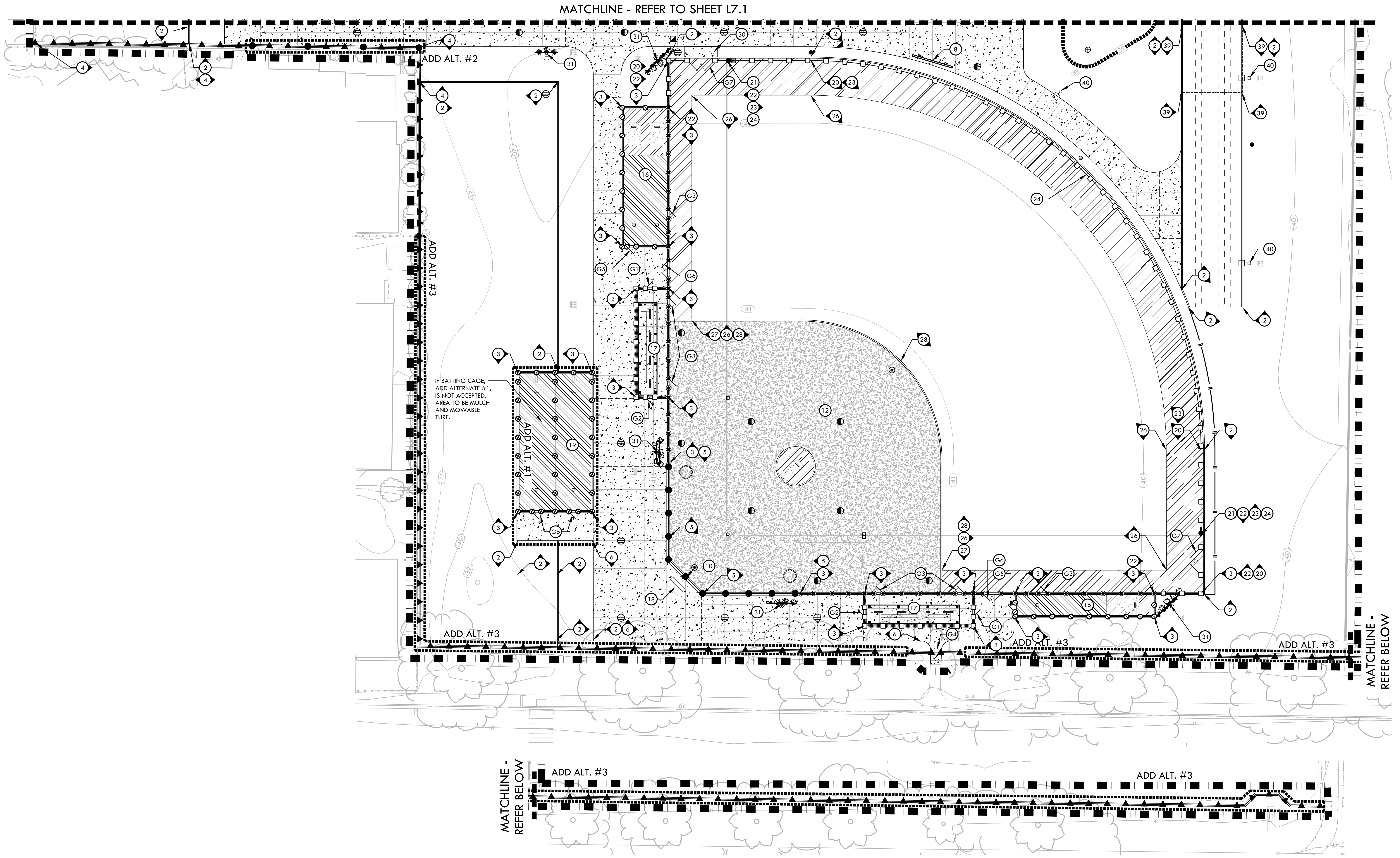
SYM	DESCRIPTION	DTL REF
⑮	SOFTBALL SINGLE BULLPEN	B / D4.3
⑯	SOFTBALL DOUBLE BULLPEN	C / D4.3
⑰	DUGOUT	F,G,I / D4.1
⑱	SCORER'S TABLE, REFER TO SPECIFICATIONS	

MATERIAL NOTES

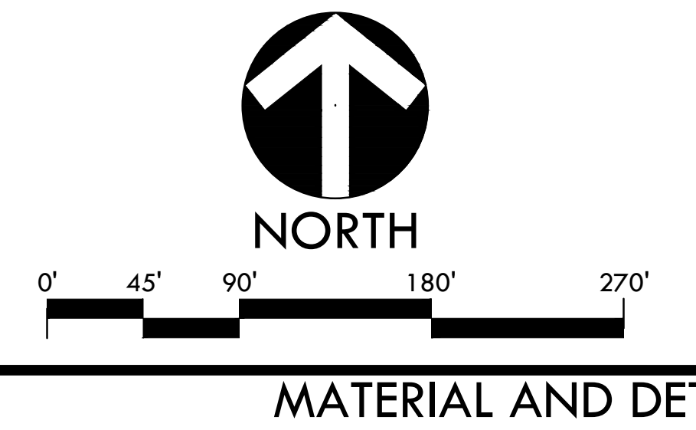
1. THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ELEMENTS INCLUDING UTILITY LOCATIONS & REQUIRED SLEEVING PRIOR TO INSTALLATION. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS & CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. TEMPORARY BENCHMARKS OR REFERENCE POINTS SHALL BE SET BY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

MATERIAL LEGEND

SYM	DESCRIPTION	DTL REF
▬ ▬ ▬	LIMIT OF WORK	
⁘	SYNTHETIC TURF WITH BROCK PAD - (GREEN)	G / D2.1
▒	SYNTHETIC TURF WITH BROCK PAD - (INFIELD BROWN)	G / D2.1
▧	SYNTHETIC TURF (NO INFILL)	H / D2.1
▨	INFIELD/WARNING TRACK FINES	L / D4.1
░	INFIELD FINES OVER CLAY	K / D4.1
○○○	DETECTABLE WARNING (SURFACE MOUNT)	L / D2.1
▥	ASPHALT PAVING	B / D2.1
∴	CONCRETE PAVING	A / D2.1
- - -	EXPANSION JOINT SCORE JOINT	E / D2.1
▭	TRENCH DRAIN	J / D1.1
⊗—⊗—⊗	42" TALL CHAIN LINK FENCE	D / D3.1
□—□—□	6' TALL CHAIN LINK FENCE	D / D3.1
□‖‖‖□‖‖‖□	6' TALL CHAIN LINK FENCE WITH SLATS	E / D3.1
▲—▲—▲	7' TALL CHAIN LINK FENCE	F / D3.1
⊘—⊘—⊘	10' TALL CHAIN LINK FENCE	F / D3.1
◉—◉—◉	12' TALL CHAIN LINK FENCE	F / D3.1
⊗—⊗—⊗	14' TALL CHAIN LINK FENCE	G / D3.1
●—●—●	30' TALL CHAIN LINK BACKSTOP	I / D3.1
●—▲—▲—●	20' TALL PROTECTIVE NETTING WITH 7' TALL FENCE - ADDITIVE ALTERNATE #2	D / D4.4
—‖—	REDWOOD HEADER BOARD	Q / D5.1
G1	6' TALL X 4' WIDE SWING GATE - ACCESSIBLE	K / D3.2
G2	6' TALL X 4' WIDE SWING GATE WITH PANIC HARDWARE	A / D3.2
G3	7' TALL X 4' WIDE SWING GATE - ACCESSIBLE WITH TRANSOM	L / D3.2
G4	7' TALL X 4' WIDE SWING GATE WITH PANIC HARDWARE	B / D3.2
G5	7' TALL X 4' WIDE SWING GATE WITH TRANSOM & PANIC HARDWARE	C / D3.2
G6	7' TALL X 8' WIDE DOUBLE SWING GATE WITH TRANSOM & PANIC HARDWARE	D / D3.2
G7	6' TALL X 12' WIDE DOUBLE SWING GATE	E / D3.2
G8	6' TALL X 24' WIDE DOUBLE SWING GATE	F / D3.2
①	6" CURB AT PARKING LOT	E / D2.2
②	6" WIDE EDGEBAND	B / D2.2
③	12" WIDE EDGEBAND WITH FENCE	C / D2.2
④	12" WIDE TALL CURB WITH FENCE	F / D2.2
⑤	18" WIDE BACKSTOP EDGEBAND	D / D2.2
⑥	6" WIDE TALL CURB	M / D2.2
⑦	FLAG POLE (REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS)	
⑧	SCOREBOARD (REFER TO NEVCO, STRUCTURAL, AND ELECTRICAL DRAWINGS, AND SPECIFICATIONS)	
⑨	BASEBALL BACKSTOP (REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS)	A / D3.3
⑩	SOFTBALL BACKSTOP (REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS)	A / D3.4
⑪	BASEBALL INFIELD	A / D4.1
⑫	SOFTBALL INFIELD	A / D4.3
⑬	BASEBALL SINGLE BULLPEN	A / D4.2
⑭	BASEBALL DOUBLE BULLPEN	B / D4.2



IF BATTING CAGE, ADD ALTERNATE #1, IS NOT ACCEPTED, AREA TO BE MULCH AND MOWABLE TURF.



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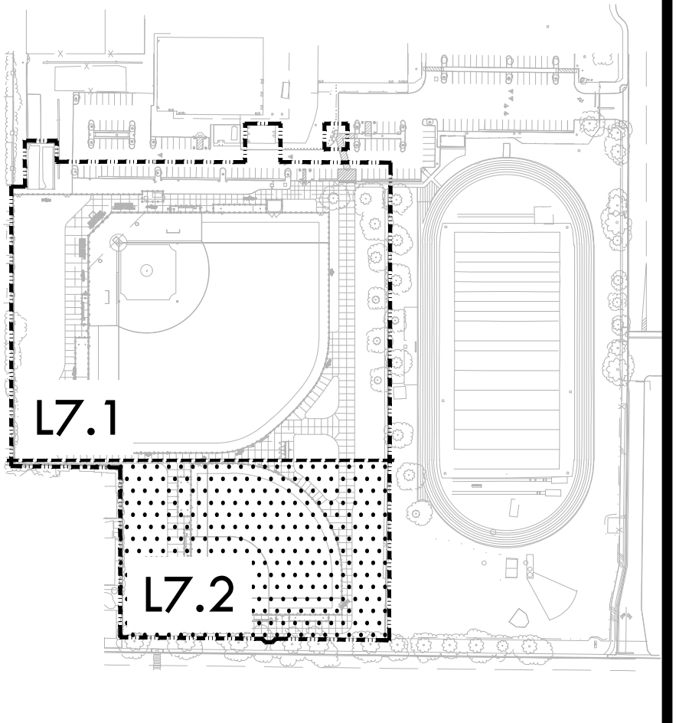
STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2027
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

MATERIAL AND DETAIL REFERENCE PLAN - SOFTBALL FIELD

PROJECT NAME

LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
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DRAWN BY AJ	CHECKED BY CS/MB
DATE ISSUED 02/20/2026	SCALE 1"=20'-0"

PROJ. NO.
2502700

SHEET NO.
L7.2

MATERIAL AND DETAIL REFERENCE PLAN - SOFTBALL FIELD

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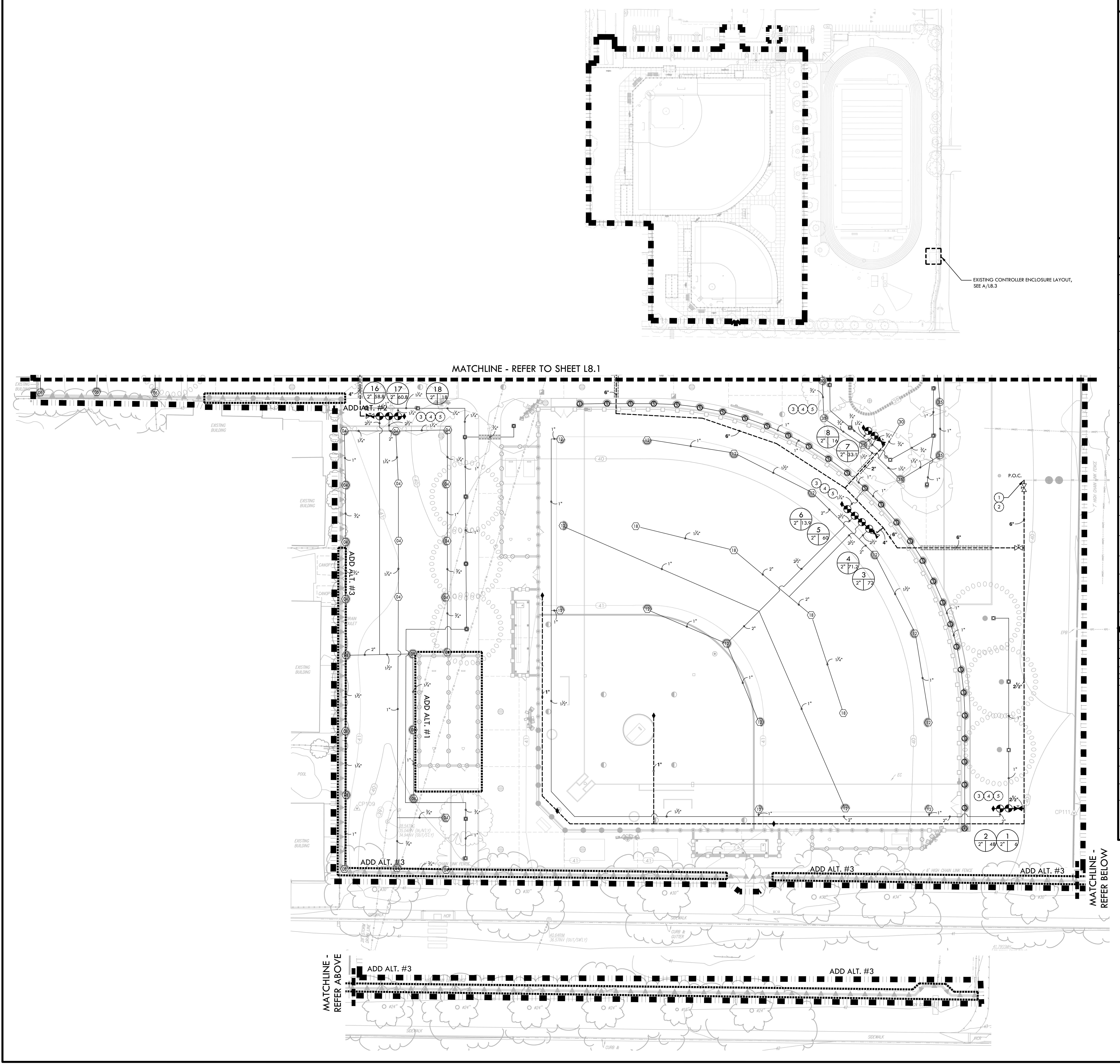

IRRIGATION NOTES

1. THIS SYSTEM IS DESIGNED TO OPERATE AT A MAXIMUM FLOW OF (300) GPM WITH A MINIMUM (60) STATIC P.S.I. AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO BEGINNING WORK. CONTACT OWNER IMMEDIATELY SHOULD DISCREPANCY ARISE AND RE-DIRECT WORK TO AVOID DELAY.
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.
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 MOST WITH DAMPENED BURLAP OR CANVAS.

IRRIGATION LEGEND

SYM.	MANUFAC.	MODEL NO./ DESCRIPTION	RAD.	GPM	PSI	DTL REF
Ⓛ Ⓢ Ⓡ	RAINBIRD	SHRUB ROTARY ON 12IN POP-UP R-VAN-STRIP 1812-SAM-P45	-	-	45	O D5.1
◘	RAINBIRD	ROOT WATERING SYSTEM WITH 4IN DIAMETER X 36IN. LONG WITH LOCKING GRATE, SEMI-RIGID MESH TUBE. CHECK VALVE AND SAND SOCK. RWS-B-C W/ RWS-SOCK 1400 SERIES	-	-	30	G D5.1
04	RAINBIRD	TURF ROTOR, 5IN. POP UP, STAINLESS STEEL RISER, STANDARD NOZZLE 8005-SS 04	33'	3.8	60	N D5.1
06	RAINBIRD	TURF ROTOR, 5IN. POP UP, STAINLESS STEEL RISER, STANDARD NOZZLE 8005-SS 06	38'	6.1	60	
08	RAINBIRD	TURF ROTOR, 5IN. POP UP, STAINLESS STEEL RISER, STANDARD NOZZLE 8005-SS 08	42'	8.4	60	
12	RAINBIRD	TURF ROTOR, 5IN. POP UP, STAINLESS STEEL RISER, STANDARD NOZZLE 8005-SS 12	50'	12	60	
14	RAINBIRD	TURF ROTOR, 5IN. POP UP, STAINLESS STEEL RISER, STANDARD NOZZLE 8005-SS 14	52'	14.3	60	
18	RAINBIRD	TURF ROTOR, 5IN. POP UP, STAINLESS STEEL RISER, STANDARD NOZZLE 8005-SS 18	55'	17.8	60	
30	RAINBIRD	SHRUB ROTOR, 6IN. POP UP, STAINLESS STEEL RISER, MPR NOZZLE 5006-PL-PC-SAM-R-SS-MPR 30	26'	-	35	
35	RAINBIRD	SHRUB ROTOR, 6IN. POP UP, STAINLESS STEEL RISER, MPR NOZZLE 5006-PL-PC-SAM-R-SS-MPR 35	29'	-	35	
◕	RAINBIRD	REMOTE CONTROL VALVE - PEB-PRS-D, SIZE PER PLAN				D D5.1
♦	RAINBIRD	QUICK COUPLING VALVE - 44-NP				C D5.1
⋈	HARCO	GASKET X GASKET IRON, STAINLESS STEEL, BRONZE SHUT OFF VALVE. LATERAL ISOLATION AVAILABLE IN 2IN. WITH VARIABLE RISER. GASKET X GASKT. EPDM SEAL				B D5.1
⋈	NIBCO	GATE VALVES 2.5" AND LARGER SHALL BE NIBCO F-619-RW, SAME SIZE AS MAINLINE PIPE WHERE LOCATED. RESILIENT WEDGE NON-RISING STEM FLOW CONTROL WITH IPS PUSH-ON ENDS				A D5.1
⋈	NIBCO	GATE VALVES 2" AND SMALLER SHALL BE NIBCO PR-113-K				
◕	EXISTING REMOTE CONTROL VALVE					
—IRR—IRR—	EXISTING MAINLINE TO REMAIN AND BE PROTECTED. CONTRACTOR TO VERIFY SIZE AND APPROXIMATE LOCATION PRIOR TO CONSTRUCTION.					
▬	LIMIT OF WORK					
——	LATERAL LINE - SCHEDULE 40 PVC PIPE & SOLVENT WELD FITTINGS, AT 18" DEPTH.					J D5.1
– – –	MAIN LINE - SEE SPECIFICATIONS FOR CLASS AND FITTING AT 24" DEPTH - SIZE AS NOTED.					
- - -	SLEEVES	CLASS 200 PVC. SIZE TO BE TWICE THE SIZE OF TOTAL PIPE DIAMETERS WITHIN THE SLEEVE, OR AS NOTED, WITH 30" COVER.				
①	CONNECT PROPOSED MAIN LINE TO EXISTING MAIN LINE. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATION AND CONNECT LINE SIZED PIPE.					
②	POT HOLE AND LOCATE EXISTING MAIN TO RE-CONNECT TO EXISTING IRRIGATION TO STADIUM. IF EXISTING WIRES ARE DAMAGED FROM EXISTING CONTROLLER TO CONNECTION POINT INSTALL NEW LOW VOLTAGE WIRE TO THIS LOCATION WITHIN NEW 3" CONDUIT.					
③	MAIN LINE LOCATION IS DIAGRAMMATIC. PLACE IN PLANTING AREA WHERE POSSIBLE.					
④	VALVE BOX LOCATIONS ARE DIAGRAMMATIC. PLACE VALVE BOXES IN PLANTING AREA					
⑤	2" MAIN LINE BETWEEN LAST REMOTE CONTROL VALVE AND QUICK QOUPLER, TYP.					
P.O.C.	POINT OF CONNECTION					

1
2" 37.7
CONTROLLER STATION NUMBER
APPROX. GPM FLOW THROUGH VALVE
CONTROL VALVE SIZE

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

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STAMP
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2027

CONSULTANT

KEYMAP
L8.1
L8.2

SHEET TITLE
IRRIGATON
PLAN -
SOFTBALL FIELD

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

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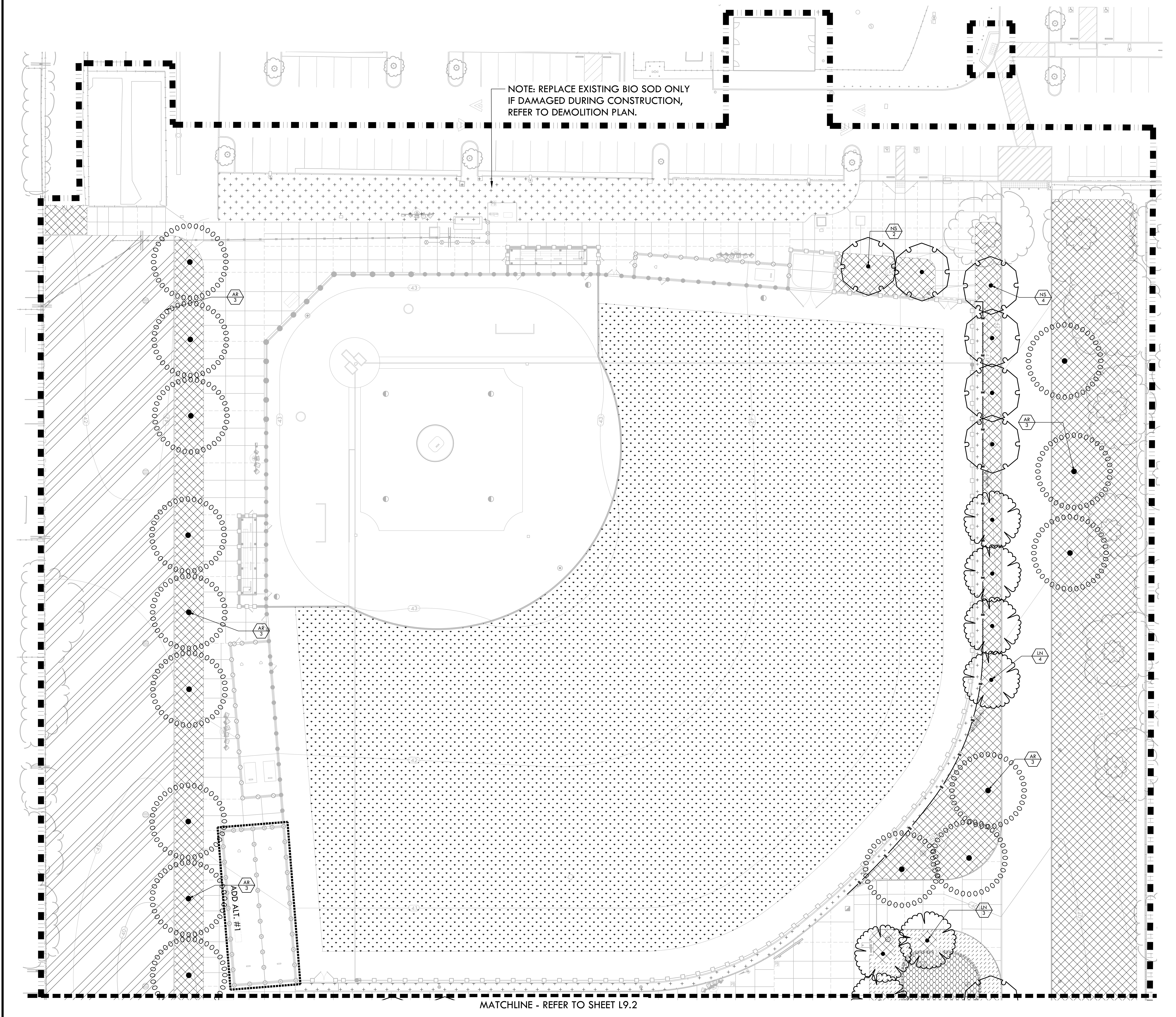
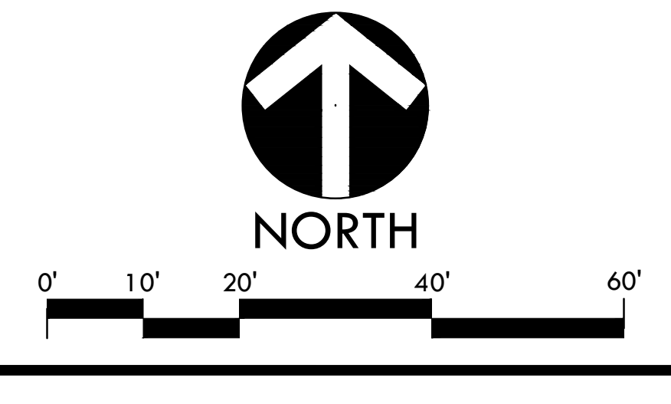
DRAWN BY: AW
CHECKED BY: CS/MB
DATE ISSUED: 02/20/2026
SCALE: 1"=20'-0"
PROJ. NO.: 2502700
SHEET NO.: L8.2



NOTE: REPLACE EXISTING BIO SOD ONLY
IF DAMAGED DURING CONSTRUCTION,
REFER TO DEMOLITION PLAN.

MATCHLINE - REFER TO SHEET L9.2



PLANTING NOTES

1. PLANT COUNTS SHOWN ARE FOR BIDDING REFERENCE ONLY. CONTRACTOR SHALL SUPPLY ALL PLANTS REQUIRED TO FULFILL DESIGN INTENT AS SHOWN.
2. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. OWNER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT OR SEVERE WEATHER.
3. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM OWNER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY OWNER'S REPRERESENTATIVE.
4. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
5. 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.
6. ALL TURF, MULCH, AND PLANTERS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
7. THE WUCOLS CLASSIFICATION FOR THIS LOCATION IS REGION 2 - CENTRAL VALLEY.

PLANTING LEGEND

SYM	QTY	SIZE	BOTANICAL/COMMON NAME	WUCOLS	SPACING/ COMMENTS	DTL REF
TREES						
○ AR	21	15 GAL	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	MEDIUM	PER PLAN	H D5.1
○ LN	9	15 GAL	LAURUS NOBILIS SWEET BAY LAUREL	LOW	PER PLAN	
○ NS	15	15 GAL	NYSSA SYLVATICA TUPELO	MEDIUM	PER PLAN	
BIORETENTION AREA						
▨	347	1 GAL	JUNCUS PATENS CALIFORNIA GRAY RUSH	MEDIUM	24" O.C.	P D5.1
▨	3,359	1 GAL	CAREX PRAEGRACILIS CLUSTERED FIELD SEDGE	MEDIUM	18" O.C.	
MISCELLANEOUS						
▨	SOD - RYE BLUE DELTA BLUEGRASS CO.- REFER TO SPECIFICATIONS					
▨	HYDROSEED - SPORTS TURF MIX DELTA BLUEGRASS CO - REFER TO SPECIFICATIONS					
▨	BIOFILTRATION SOD FROM DELTA BLUEGRASS CO. - REFER TO SPECIFICATIONS					
▨	MULCH - REFER TO SPECIFICATIONS					
─	REDWOOD HEADER BOARD					Q D5.1
▬	LIMIT OF WORK					

PLANT SYMBOL — LJ
PLANT QUANTITY — 10

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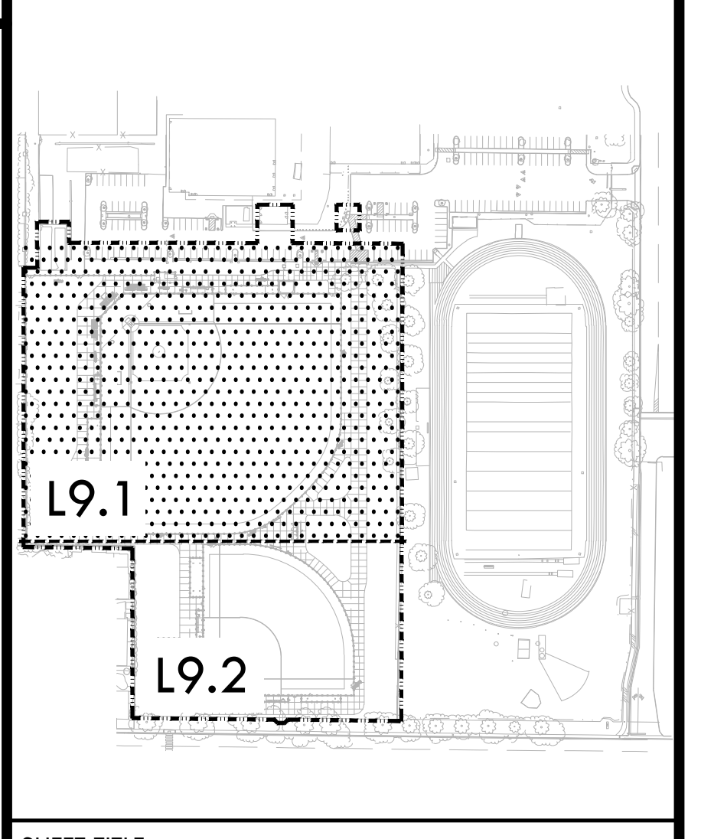
REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE:
JULY 2027
STATE OF CALIFORNIA

CONSULTANT

KEYMAP



SHEET TITLE

PLANTING
PLAN -
BASEBALL FIELD

PROJECT NAME

LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
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DSA BACKCHECK SUBMITTAL	12/17/25

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CHECKED BY
CS/MB

DATE ISSUED
02/20/2026

SCALE
1"=20'-0"

PROJ. NO.
2502700

SHEET NO.
L9.1

PLANTING PLAN - BASEBALL FIELD

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DRAWING NAME: Y:\Projects-FO\2025\2502700 - Lodi HS Baseball and Softball Field\CAD_PLT.dwg
PLOT DATE: 02-20-26 PLOTTED BY: station23

HARDSCAPE SHADE CALCULATION

HARDSCAPE SHADE CALCULATION

40' Diamater Tree	Shade Percentage	Quantity	Total Shade (sf)
Tree Symbol	100% (1,257 sf/tree)	0	-
	75% (943 sf/tree)	1	530
	50% (629 sf/tree)	12	4,248
	25% (314 sf/tree)	4	708
		Sum	5,486

30' Diamater Tree	Shade Percentage	Quantity	Total Shade (sf)
Tree Symbol	100% (706 sf/tree)	0	-
	75% (530 sf/tree)	0	-
	50% (354 sf/tree)	13	4,602
	25% (177 sf/tree)	11	1,947
		Sum	6,549

Total Shade Provided 12,035

New Hardscape(sf)	Shade Required - 20% (sf)	Shade Provided (sf)	Percent Shade
57,503	11,501	12,035	21%

LANDSCAPE SHADE CALCULATION

LANDSCAPE SHADE CALCULATION

40' Diamater Tree	Shade Percentage	Quantity	Total Shade (sf)
Tree Symbol	100% (1,257 sf/tree)	5	3,530
	75% (943 sf/tree)	4	2,120
	50% (629 sf/tree)	12	4,248
	25% (314 sf/tree)	1	177
		Sum	10,075

30' Diamater Tree	Shade Percentage	Quantity	Total Shade (sf)
Tree Symbol	100% (706 sf/tree)	1	706
	75% (530 sf/tree)	11	5,830
	50% (354 sf/tree)	13	4,602
	25% (177 sf/tree)	0	-
		Sum	11,138

Total Shade Provided 21,213

New Landscape(sf)	Shade Required - 20% (sf)	Shade Provided (sf)	Percent Shade
90,393	18,079	21,213	23%

Note: Designated and marked play areas of organized sport activity are not included in the total area calculation per 5.106.12.3

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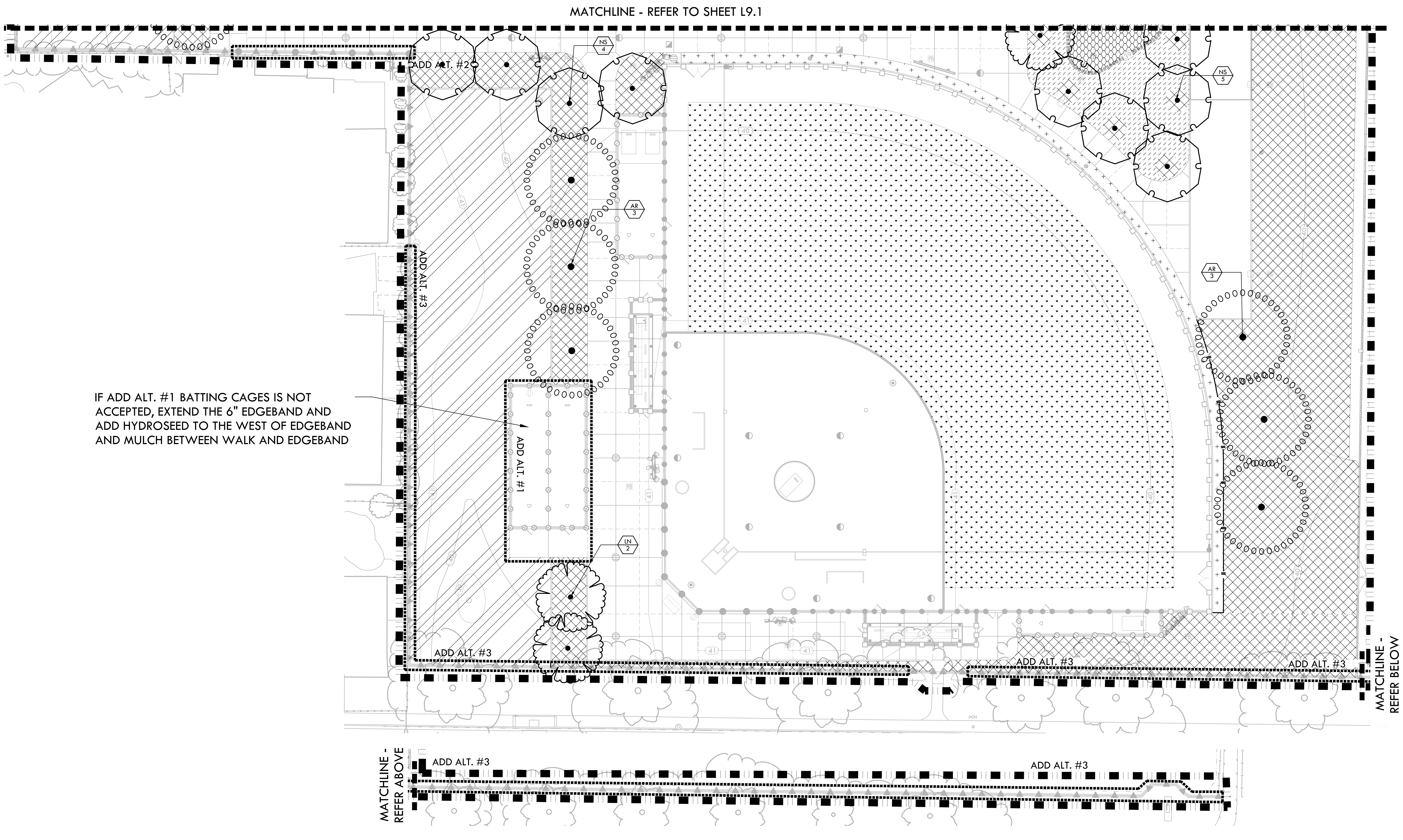
3. CONTRACTOR SHALL PLACE PLANT MATERIALS SO THEY DO NOT INTERFERE WITH IRRIGATION SYSTEM OR INHIBIT REQUIRED COVERAGE. PLANT LOCATIONS MAY BE ADJUSTED AS LONG AS DESIGN INTENT IS NOT COMPROMISED. CONTRACTOR SHALL SET OUT PLANT MATERIAL AS PER PLAN AND RECEIVE ACCEPTANCE FROM OWNER'S REPRESENTATIVE WITH RESPECT TO PLANT HEALTH AND LOCATION PRIOR TO INSTALLATION. CONTRACTOR SHALL GIVE MINIMUM 2 WORKING DAYS NOTICE FOR OBSERVATION AND SHALL HAVE ALL PLANT MATERIAL IN SPECIFIED LOCATIONS FOR REVIEW AT ONE TIME. CONTRACTOR SHALL REPLACE ANY MATERIAL AS REQUESTED BY OWNER'S REPRERESENTATIVE.
4. ALL NON-TURF PLANTING AREAS SHALL RECEIVE A 3" LAYER OF BARK MULCH TOP DRESS (UNLESS NOTED OTHERWISE). REFER TO SPECIFICATIONS.
5. 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.
6. ALL TURF, MULCH, AND PLANTERS TO RECEIVE SOIL AMENDMENTS AND SOIL PREPARATION PER SPECIFICATIONS UNLESS OTHERWISE NOTED.
7. THE WUCOLS CLASSIFICATION FOR THIS LOCATION IS REGION 2 - CENTRAL VALLEY.

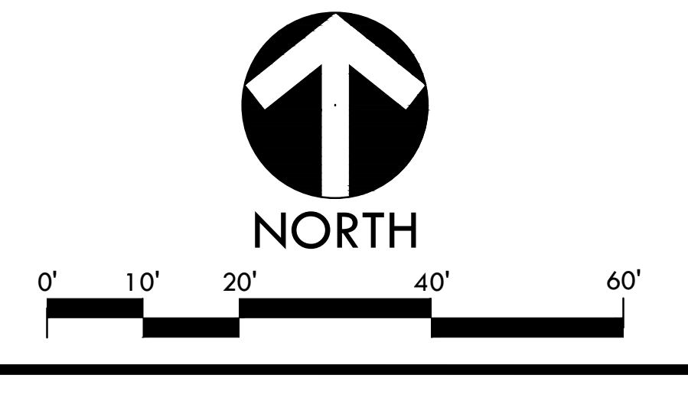
PLANTING LEGEND

SYM	QTY	SIZE	BOTANICAL/COMMON NAME	WUCOLS	SPACING/ COMMENTS	DTL REF
TREES						
AR	21	15 GAL	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	MEDIUM	PER PLAN	H D5.1
LN	9	15 GAL	LAURUS NOBILIS SWEET BAY LAUREL	LOW	PER PLAN	
NS	15	15 GAL	NYSSA SYLVATICA TUPELO	MEDIUM	PER PLAN	
BIORETENTION AREA						
▨	347	1 GAL	JUNCUS PATENS CALIFORNIA GRAY RUSH	MEDIUM	24" O.C.	P D5.1
▨	3,359	1 GAL	CAREX PRAEGRACILIS CLUSTERED FIELD SEDGE	MEDIUM	18" O.C.	
MISCELLANEOUS						
▨	SOD - RYE BLUE DELTA BLUEGRASS CO.- REFER TO SPECIFICATIONS					
▨	HYDROSEED - SPORTS TURF MIX DELTA BLUEGRASS CO - REFER TO SPECIFICATIONS					
▨	BIOFILTRATION SOD FROM DELTA BLUEGRASS CO. - REFER TO SPECIFICATIONS					
▨	MULCH - REFER TO SPECIFICATIONS					
▨	REDWOOD HEADER BOARD					Q D5.1
▨	LIMIT OF WORK					

PLANT SYMBOL — LJ
PLANT QUANTITY — 10



IF ADD ALT. #1 BATTING CAGES IS NOT ACCEPTED, EXTEND THE 6" EDGEBAND AND ADD HYDROSEED TO THE WEST OF EDGEBAND AND MULCH BETWEEN WALK AND EDGEBAND



VERDE DESIGN
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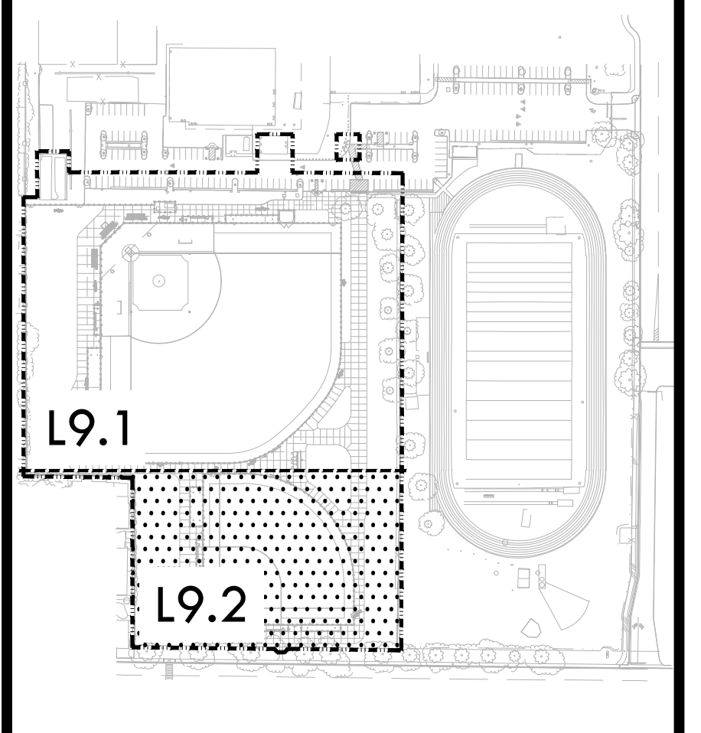
STAMP

MARK S. BAGINSKI
No. 4089
EXPIRATION DATE: JULY 2027

CONSULTANT

KEYMAP



SHEET TITLE

PLANTING PLAN - SOFTBALL FIELD

PROJECT NAME

LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY	CHECKED BY
AL	CS/MB
DATE ISSUED	SCALE
02/20/2026	1"=20'-0"

PROJ. NO.
2502700

SHEET NO.
L9.2

PLANTING PLAN - SOFTBALL FIELD

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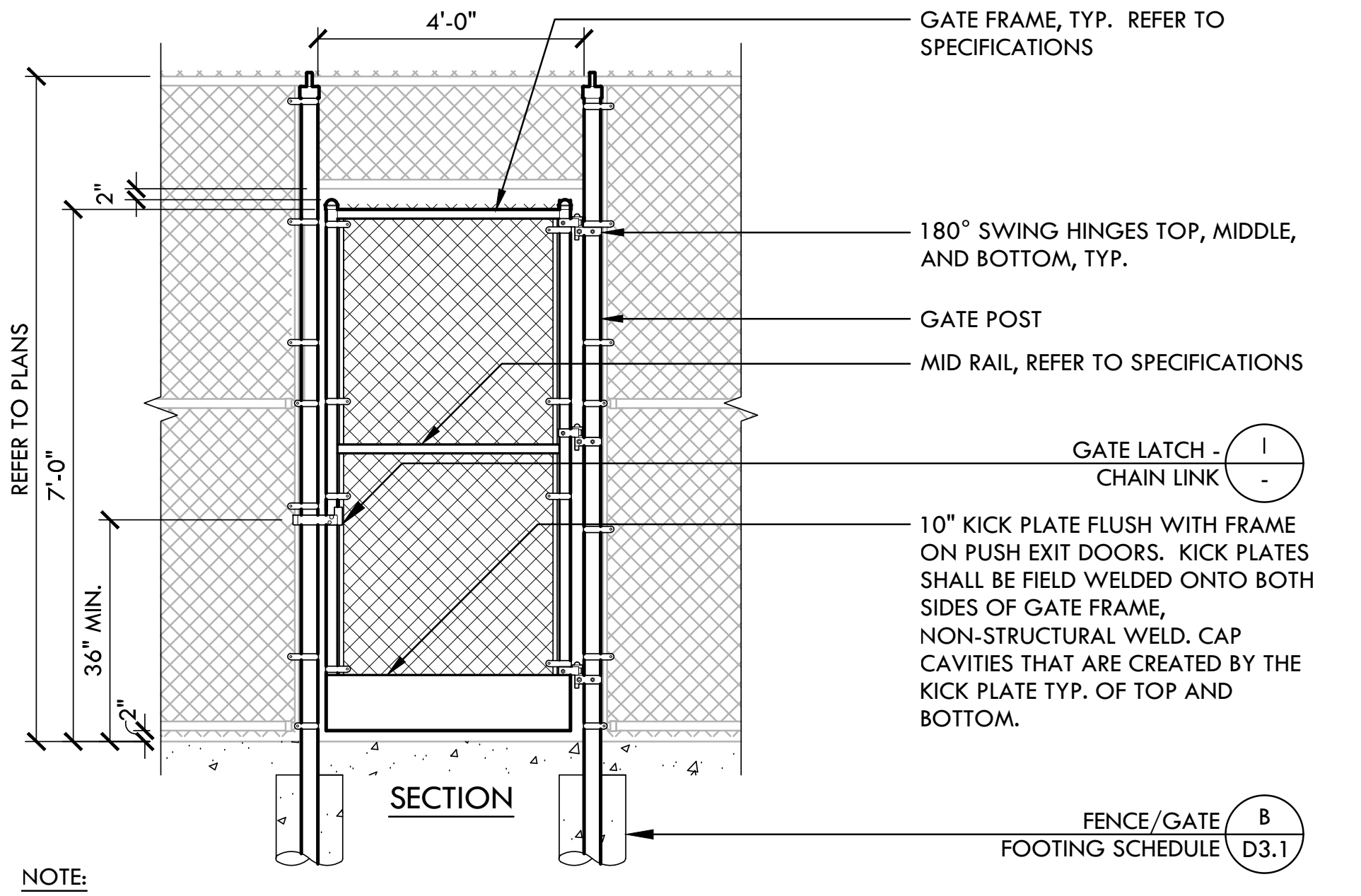
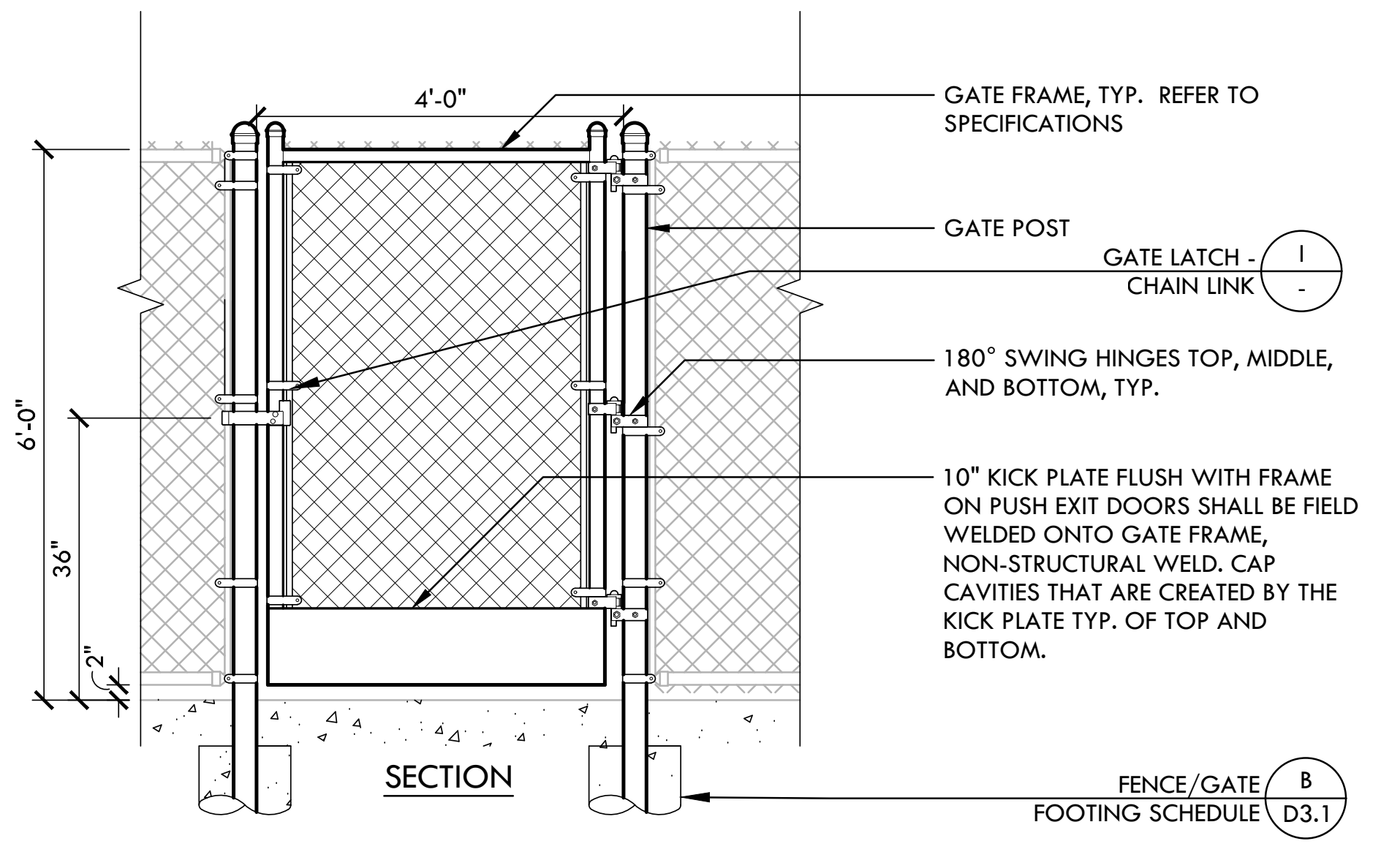

4'-0"
GATE FRAME, TYP. REFER TO SPECIFICATIONS
180° SWING HINGES TOP, MIDDLE, AND BOTTOM, TYP.
GATE POST
MID RAIL, REFER TO SPECIFICATIONS
GATE LATCH - CHAIN LINK I -
10" KICK PLATE FLUSH WITH FRAME ON PUSH EXIT DOORS. KICK PLATES SHALL BE FIELD WELDED ONTO BOTH SIDES OF GATE FRAME, NON-STRUCTURAL WELD. CAP CAVITIES THAT ARE CREATED BY THE KICK PLATE TYP. OF TOP AND BOTTOM.
REFER TO PLANS
7'-0"
36" MIN.
2"
2"
SECTION
FENCE/GATE FOOTING SCHEDULE B D3.1

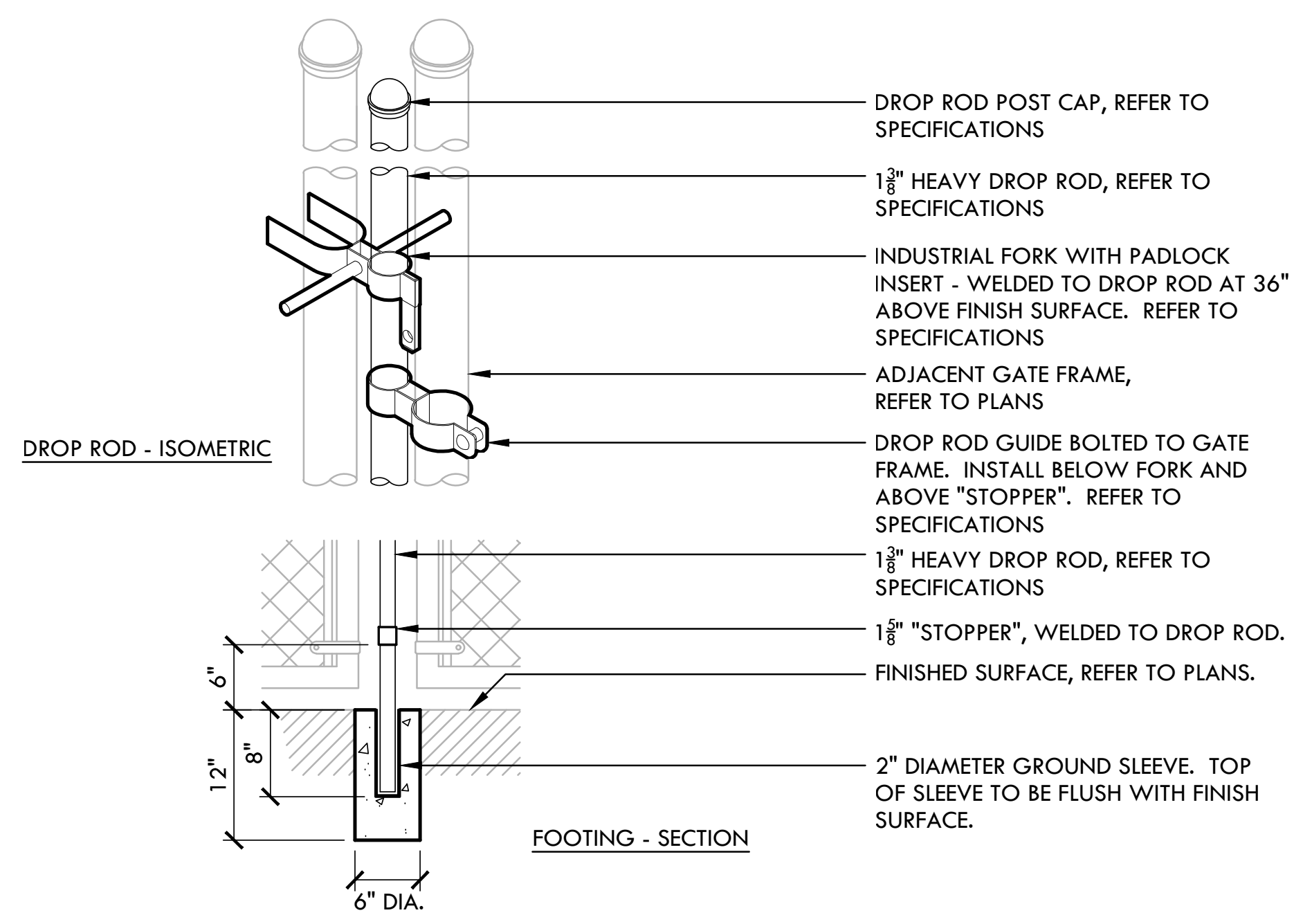
NOTE:
1. SEE GENERAL FENCE & GATE NOTES, DETAIL A, SHEET D3.1.

L 7' TALL x 4' SWING GATE - ACCESSIBLE WITH TRANSOM NTS

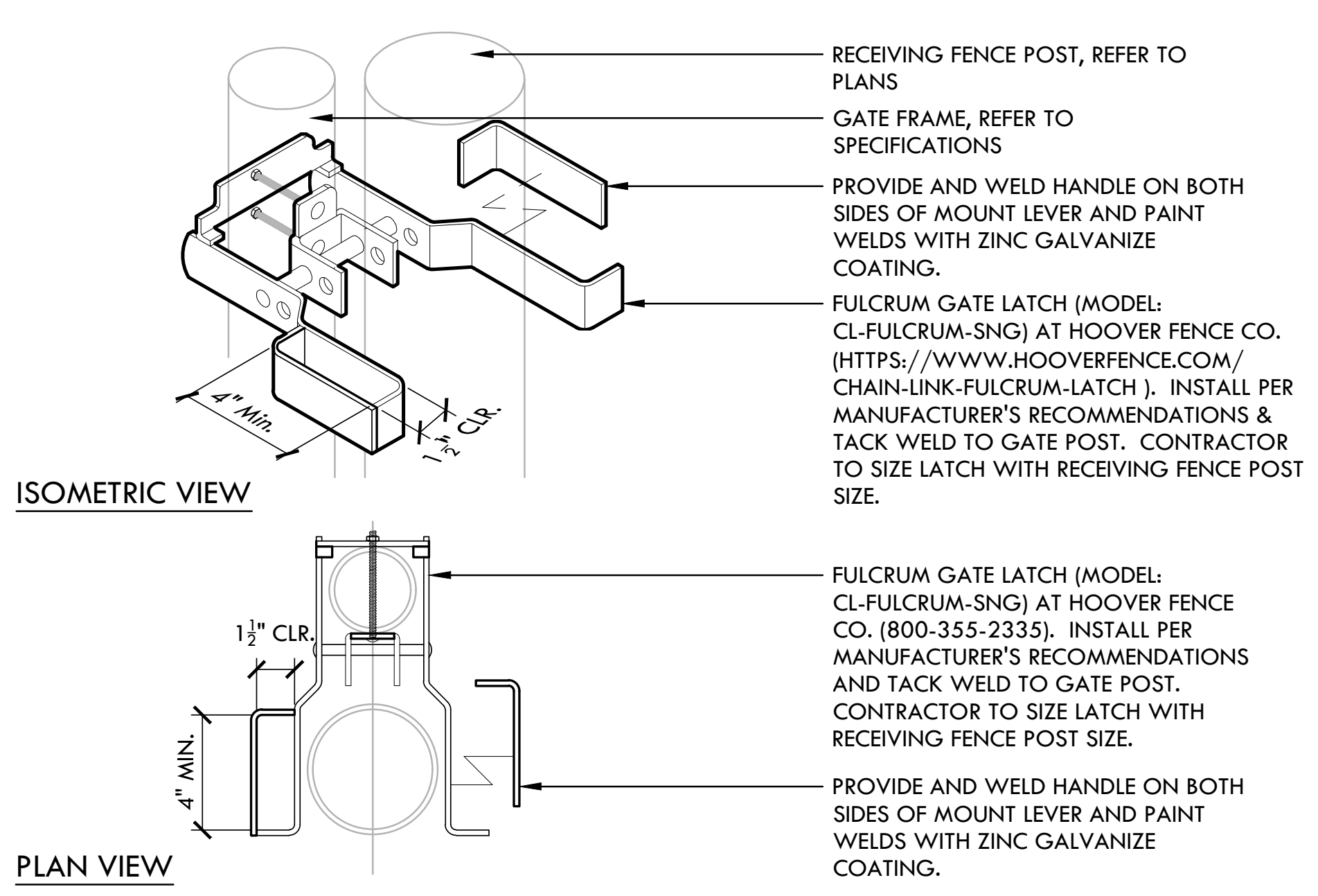

4'-0"
GATE FRAME, TYP. REFER TO SPECIFICATIONS
GATE POST
GATE LATCH - CHAIN LINK I -
180° SWING HINGES TOP, MIDDLE, AND BOTTOM, TYP.
10" KICK PLATE FLUSH WITH FRAME ON PUSH EXIT DOORS SHALL BE FIELD WELDED ONTO GATE FRAME, NON-STRUCTURAL WELD. CAP CAVITIES THAT ARE CREATED BY THE KICK PLATE TYP. OF TOP AND BOTTOM.
6'-0"
36"
2"
SECTION
FENCE/GATE FOOTING SCHEDULE B D3.1

NOTE:
1. SEE GENERAL FENCE & GATE NOTES, DETAIL A, SHEET D3.1.

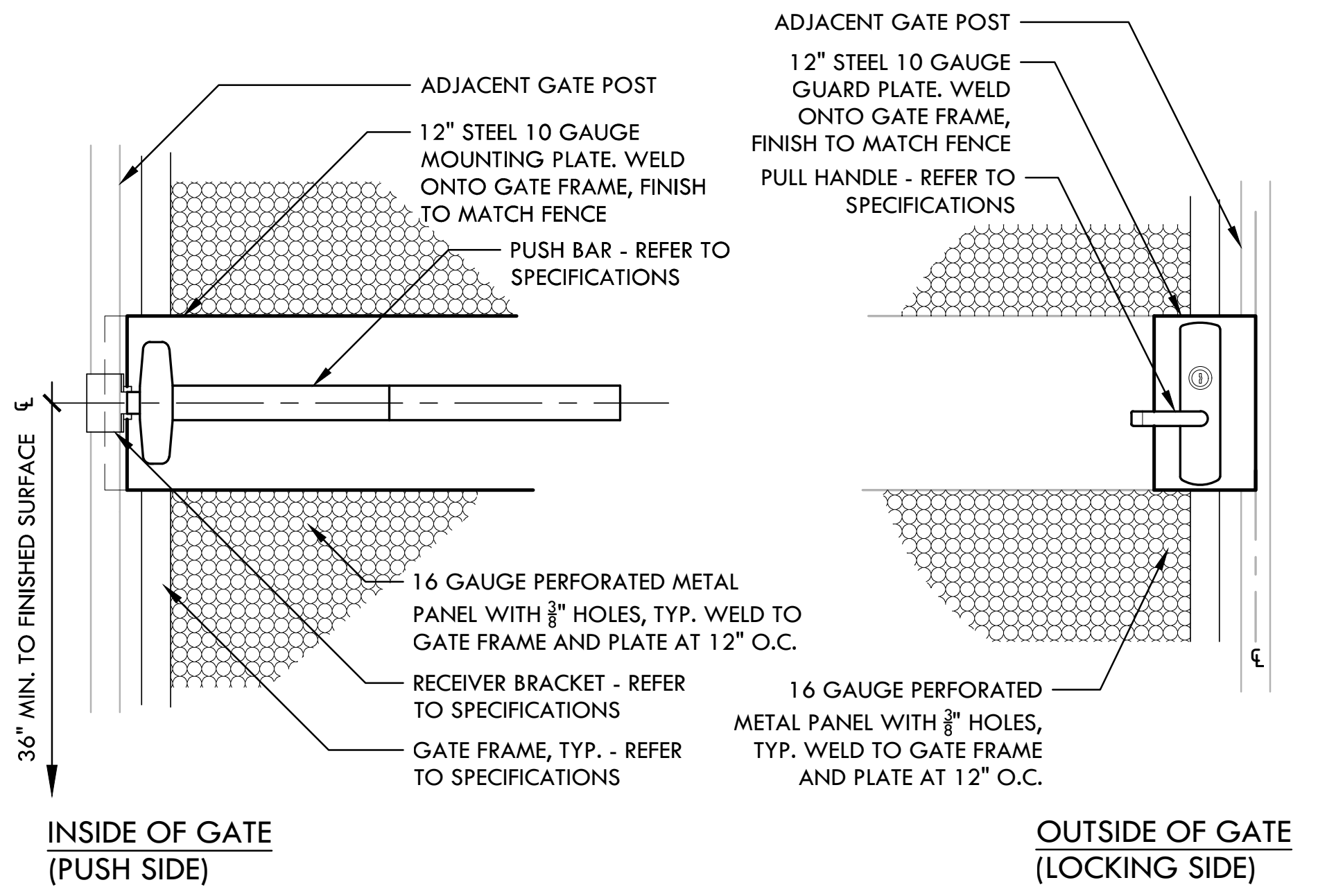
K 6' TALL X 4' WIDE SWING GATE - ACCESSIBLE NTS


DROP ROD POST CAP, REFER TO SPECIFICATIONS
1⅜" HEAVY DROP ROD, REFER TO SPECIFICATIONS
INDUSTRIAL FORK WITH PADLOCK INSERT - WELDED TO DROP ROD AT 36" ABOVE FINISH SURFACE. REFER TO SPECIFICATIONS
ADJACENT GATE FRAME, REFER TO PLANS
DROP ROD GUIDE BOLTED TO GATE FRAME. INSTALL BELOW FORK AND ABOVE "STOPPER". REFER TO SPECIFICATIONS
DROP ROD - ISOMETRIC
1⅜" HEAVY DROP ROD, REFER TO SPECIFICATIONS
1⅝" "STOPPER", WELDED TO DROP ROD.
FINISHED SURFACE, REFER TO PLANS.
2" DIAMETER GROUND SLEEVE. TOP OF SLEEVE TO BE FLUSH WITH FINISH SURFACE.
6"
12"
8"
6" DIA.
FOOTING - SECTION

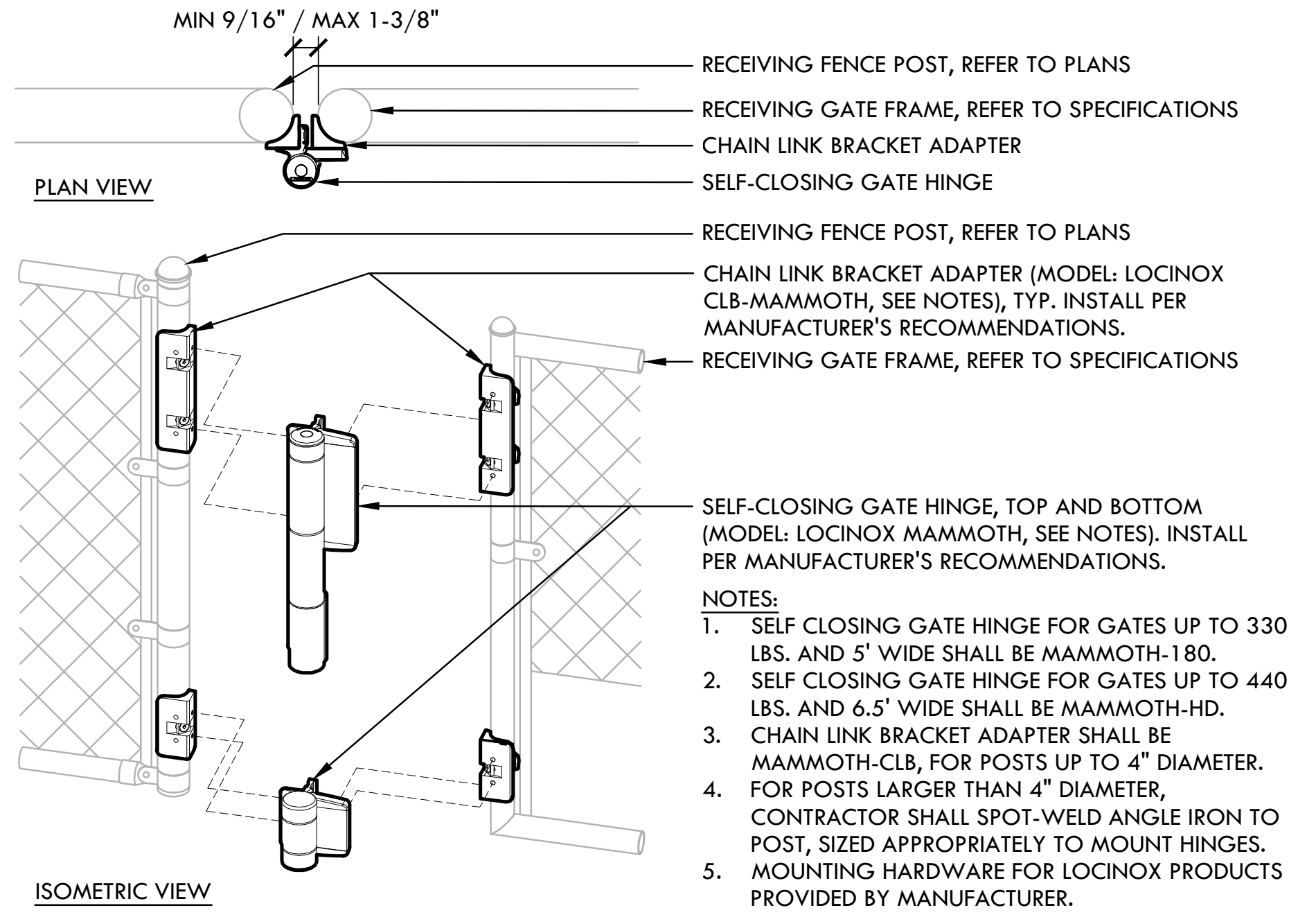
J GATE - DROP ROD NTS


RECEIVING FENCE POST, REFER TO PLANS
GATE FRAME, REFER TO SPECIFICATIONS
PROVIDE AND WELD HANDLE ON BOTH SIDES OF MOUNT LEVER AND PAINT WELDS WITH ZINC GALVANIZE COATING.
FULCRUM GATE LATCH (MODEL: CL-FULCRUM-SNG) AT HOOVER FENCE CO. (HTTPS://WWW.HOOVERFENCE.COM/CHAIN-LINK-FULCRUM-LATCH). INSTALL PER MANUFACTURER'S RECOMMENDATIONS & TACK WELD TO GATE POST. CONTRACTOR TO SIZE LATCH WITH RECEIVING FENCE POST SIZE.
4" Min.
1½" CLR.
ISOMETRIC VIEW
FULCRUM GATE LATCH (MODEL: CL-FULCRUM-SNG) AT HOOVER FENCE CO. (800-355-2335). INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND TACK WELD TO GATE POST. CONTRACTOR TO SIZE LATCH WITH RECEIVING FENCE POST SIZE.
1½" CLR.
4" MIN.
PROVIDE AND WELD HANDLE ON BOTH SIDES OF MOUNT LEVER AND PAINT WELDS WITH ZINC GALVANIZE COATING.
PLAN VIEW

I GATE LATCH - CHAIN LINK NTS


ADJACENT GATE POST
12" STEEL 10 GAUGE MOUNTING PLATE. WELD ONTO GATE FRAME, FINISH TO MATCH FENCE
PUSH BAR - REFER TO SPECIFICATIONS
36" MIN. TO FINISHED SURFACE
16 GAUGE PERFORATED METAL PANEL WITH ⅜" HOLES, TYP. WELD TO GATE FRAME AND PLATE AT 12" O.C.
RECEIVER BRACKET - REFER TO SPECIFICATIONS
GATE FRAME, TYP. - REFER TO SPECIFICATIONS
ADJACENT GATE POST
12" STEEL 10 GAUGE GUARD PLATE. WELD ONTO GATE FRAME, FINISH TO MATCH FENCE
PULL HANDLE - REFER TO SPECIFICATIONS
16 GAUGE PERFORATED METAL PANEL WITH ⅜" HOLES, TYP. WELD TO GATE FRAME AND PLATE AT 12" O.C.
INSIDE OF GATE (PUSH SIDE)
OUTSIDE OF GATE (LOCKING SIDE)

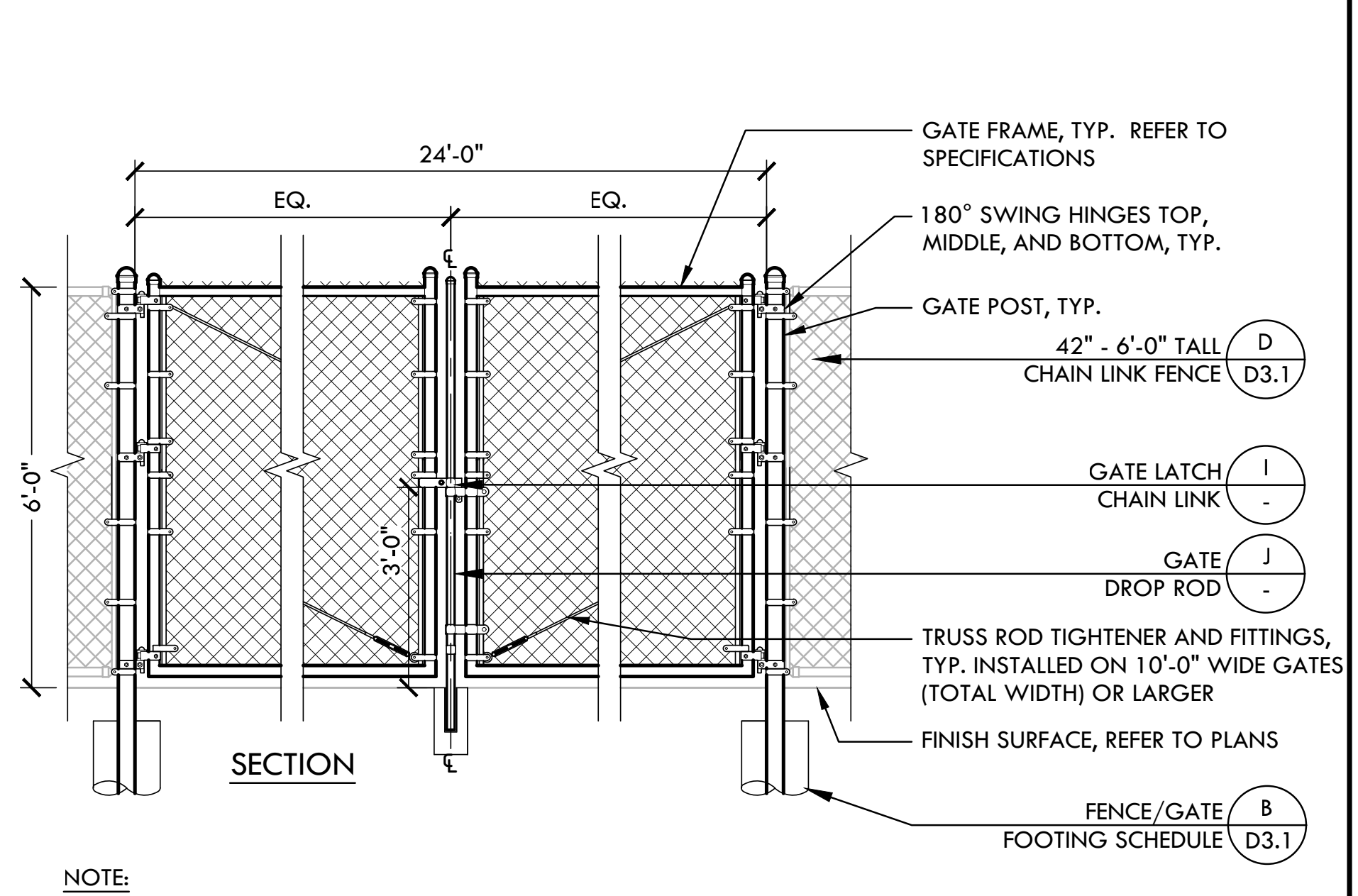
H ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE NTS


MIN 9/16" / MAX 1-3/8"
RECEIVING FENCE POST, REFER TO PLANS
RECEIVING GATE FRAME, REFER TO SPECIFICATIONS
CHAIN LINK BRACKET ADAPTER
SELF-CLOSING GATE HINGE
PLAN VIEW
RECEIVING FENCE POST, REFER TO PLANS
CHAIN LINK BRACKET ADAPTER (MODEL: LOCINOX CLB-MAMMOTH, SEE NOTES), TYP. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
RECEIVING GATE FRAME, REFER TO SPECIFICATIONS
SELF-CLOSING GATE HINGE, TOP AND BOTTOM (MODEL: LOCINOX MAMMOTH, SEE NOTES). INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
ISOMETRIC VIEW

NOTES:

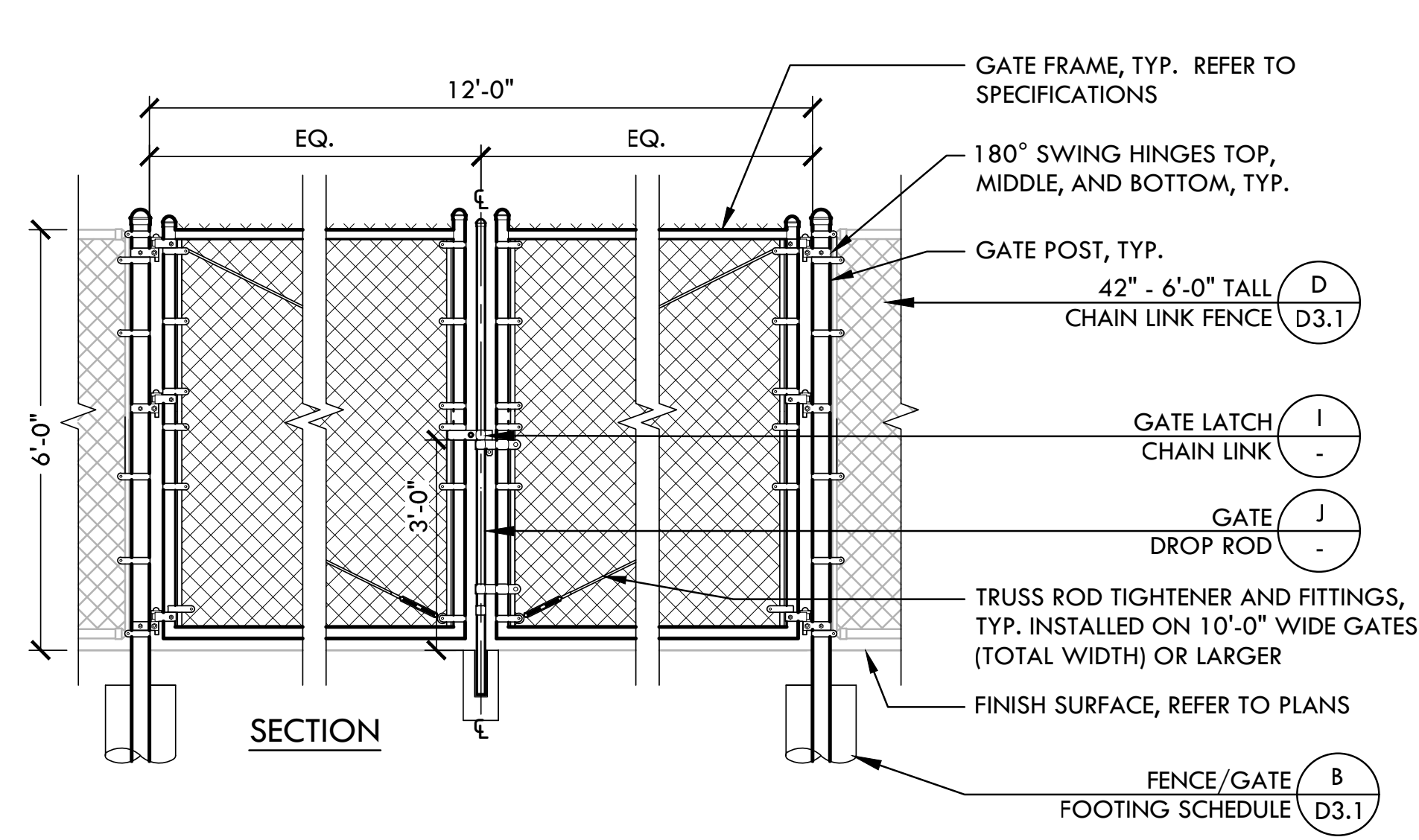
1. SELF CLOSING GATE HINGE FOR GATES UP TO 330 LBS. AND 5' WIDE SHALL BE MAMMOTH-180.
2. SELF CLOSING GATE HINGE FOR GATES UP TO 440 LBS. AND 6.5' WIDE SHALL BE MAMMOTH-HD.
3. CHAIN LINK BRACKET ADAPTER SHALL BE MAMMOTH-CLB, FOR POSTS UP TO 4" DIAMETER.
4. FOR POSTS LARGER THAN 4" DIAMETER, CONTRACTOR SHALL SPOT-WELD ANGLE IRON TO POST, SIZED APPROPRIATELY TO MOUNT HINGES.
5. MOUNTING HARDWARE FOR LOCINOX PRODUCTS PROVIDED BY MANUFACTURER.

G SELF-CLOSING HINGES AT CHAIN LINK GATE NTS


24'-0"
EQ.
EQ.
GATE FRAME, TYP. REFER TO SPECIFICATIONS
180° SWING HINGES TOP, MIDDLE, AND BOTTOM, TYP.
GATE POST, TYP.
42" - 6'-0" TALL CHAIN LINK FENCE D D3.1
GATE LATCH CHAIN LINK I -
GATE DROP ROD J -
TRUSS ROD TIGHTENER AND FITTINGS, TYP. INSTALLED ON 10'-0" WIDE GATES (TOTAL WIDTH) OR LARGER
FINISH SURFACE, REFER TO PLANS
FENCE/GATE FOOTING SCHEDULE B D3.1
6'-0"
3'-0"
SECTION

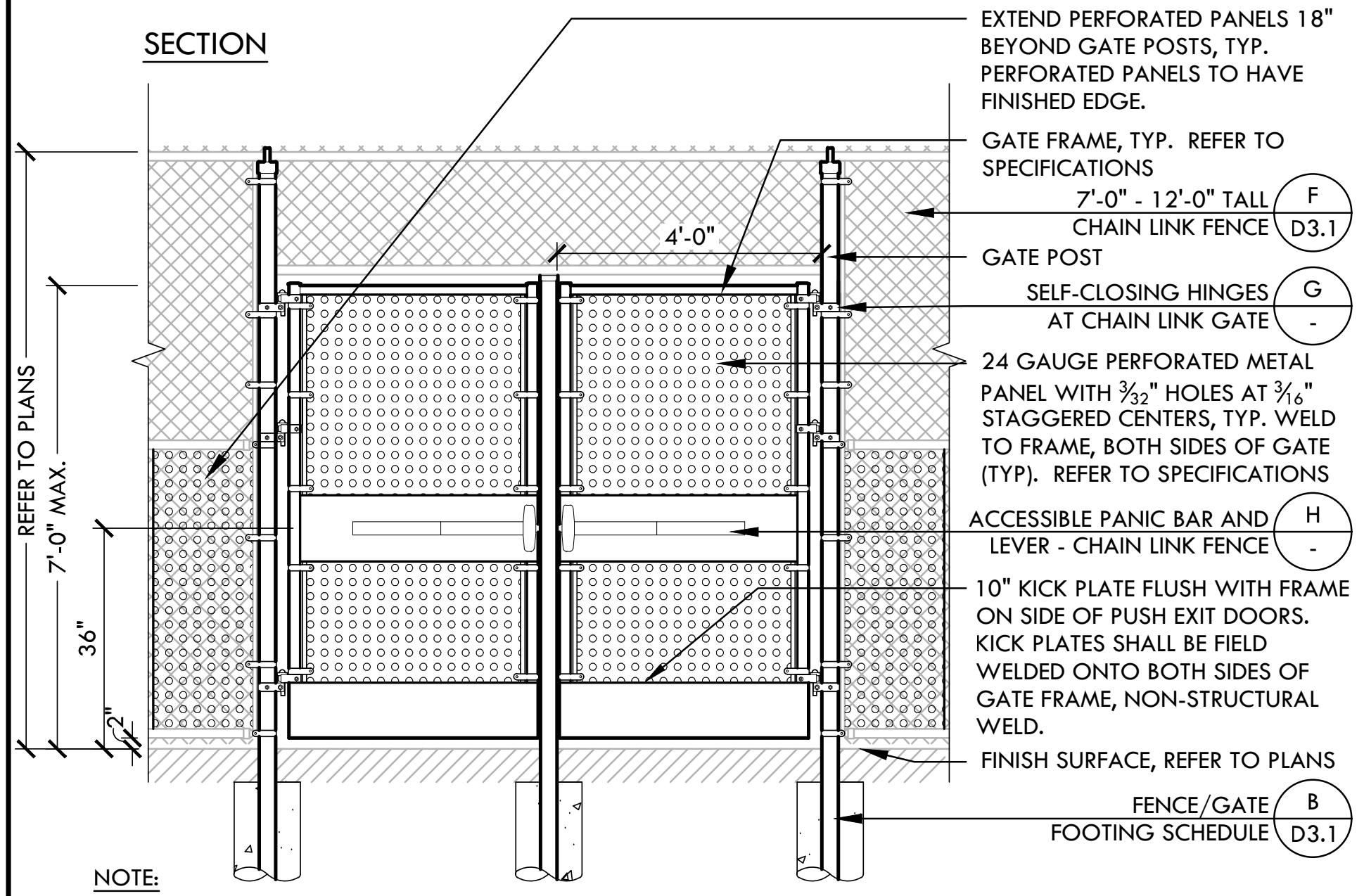
NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL A, SHEET D3.1.

F 6' TALL X 24' WIDE DOUBLE SWING GATE NTS


12'-0"
EQ.
EQ.
GATE FRAME, TYP. REFER TO SPECIFICATIONS
180° SWING HINGES TOP, MIDDLE, AND BOTTOM, TYP.
GATE POST, TYP.
42" - 6'-0" TALL CHAIN LINK FENCE D D3.1
GATE LATCH CHAIN LINK I -
GATE DROP ROD J -
TRUSS ROD TIGHTENER AND FITTINGS, TYP. INSTALLED ON 10'-0" WIDE GATES (TOTAL WIDTH) OR LARGER
FINISH SURFACE, REFER TO PLANS
FENCE/GATE FOOTING SCHEDULE B D3.1
6'-0"
3'-0"
SECTION

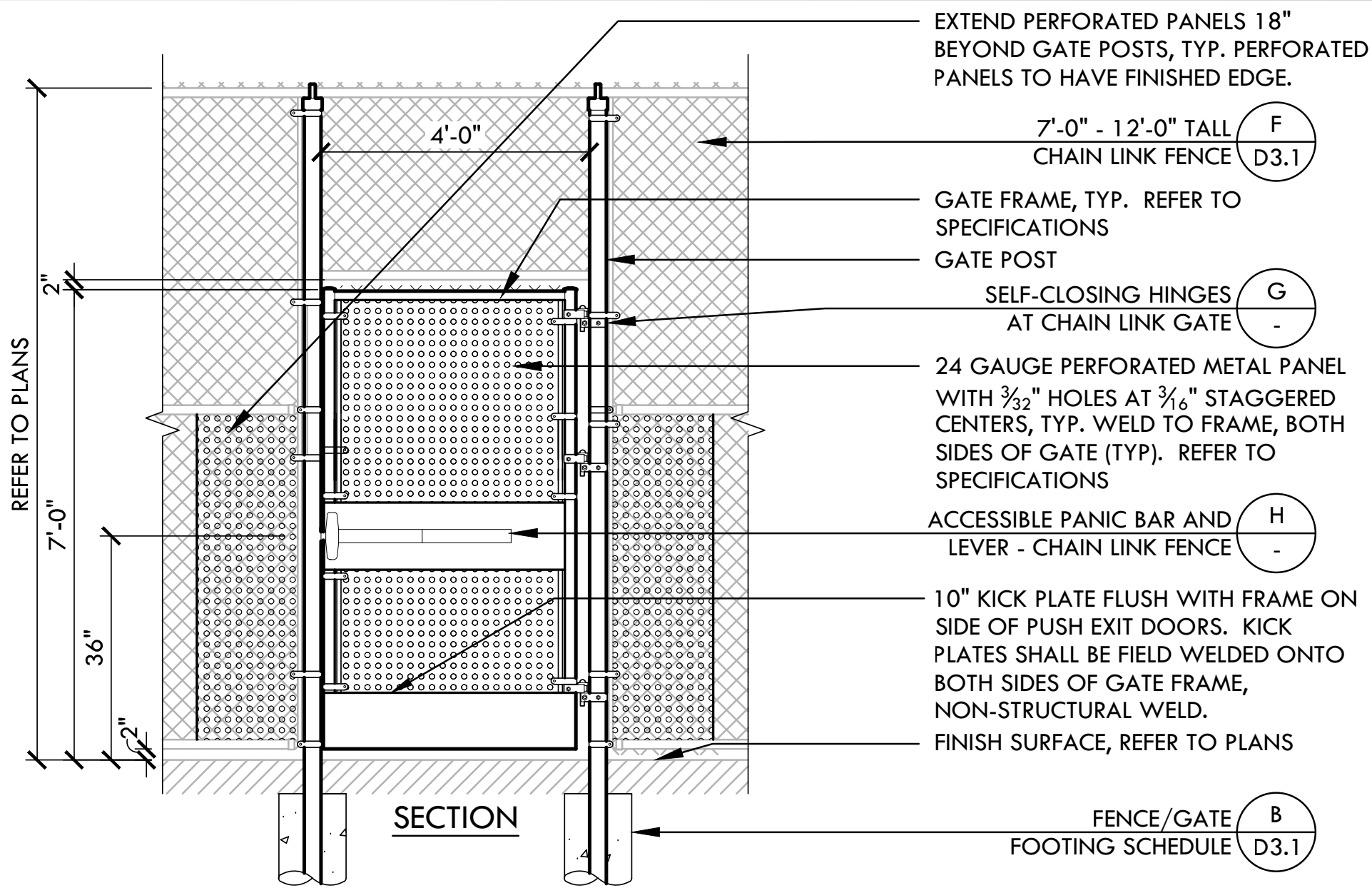
NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL A, SHEET D3.1.

E 6' TALL X 12' WIDE DOUBLE SWING GATE NTS


SECTION
EXTEND PERFORATED PANELS 18" BEYOND GATE POSTS, TYP. PERFORATED PANELS TO HAVE FINISHED EDGE.
GATE FRAME, TYP. REFER TO SPECIFICATIONS
7'-0" - 12'-0" TALL CHAIN LINK FENCE F D3.1
4'-0"
GATE POST
SELF-CLOSING HINGES AT CHAIN LINK GATE G -
24 GAUGE PERFORATED METAL PANEL WITH 3/32" HOLES AT 3/16" STAGGERED CENTERS, TYP. WELD TO FRAME, BOTH SIDES OF GATE (TYP). REFER TO SPECIFICATIONS
ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE H -
10" KICK PLATE FLUSH WITH FRAME ON SIDE OF PUSH EXIT DOORS. KICK PLATES SHALL BE FIELD WELDED ONTO BOTH SIDES OF GATE FRAME, NON-STRUCTURAL WELD.
FINISH SURFACE, REFER TO PLANS
FENCE/GATE FOOTING SCHEDULE B D3.1
REFER TO PLANS
7'-0" MAX.
36"
2"

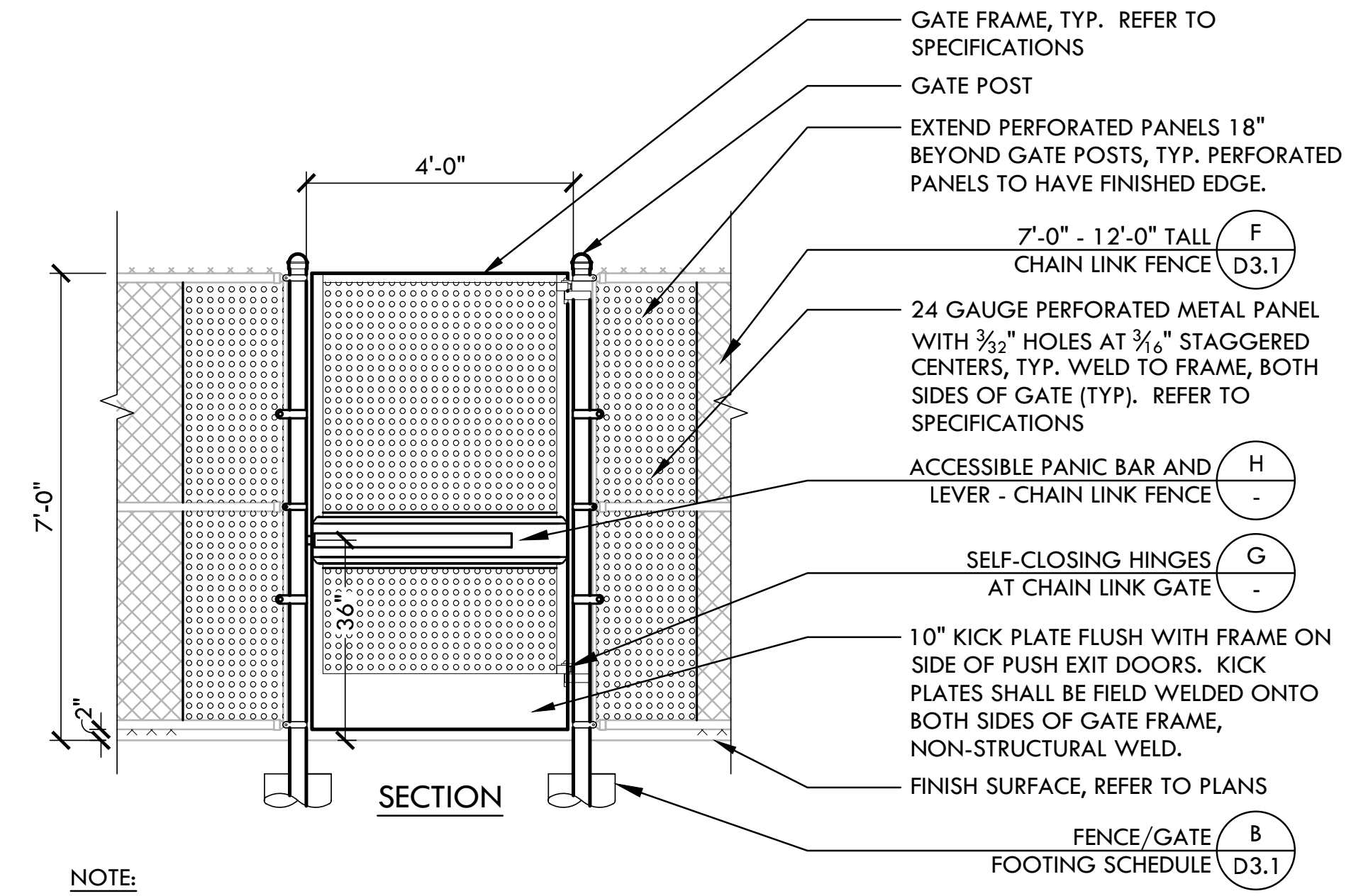
NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL A, SHEET D3.1.

D 7' TALL X 8' WIDE DOUBLE SWING GATE WITH TRANSOM & PANIC HARDWARE NTS


EXTEND PERFORATED PANELS 18" BEYOND GATE POSTS, TYP. PERFORATED PANELS TO HAVE FINISHED EDGE.
4'-0"
7'-0" - 12'-0" TALL CHAIN LINK FENCE F D3.1
GATE FRAME, TYP. REFER TO SPECIFICATIONS
GATE POST
SELF-CLOSING HINGES AT CHAIN LINK GATE G -
24 GAUGE PERFORATED METAL PANEL WITH 3/32" HOLES AT 3/16" STAGGERED CENTERS, TYP. WELD TO FRAME, BOTH SIDES OF GATE (TYP). REFER TO SPECIFICATIONS
ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE H -
10" KICK PLATE FLUSH WITH FRAME ON SIDE OF PUSH EXIT DOORS. KICK PLATES SHALL BE FIELD WELDED ONTO BOTH SIDES OF GATE FRAME, NON-STRUCTURAL WELD.
FINISH SURFACE, REFER TO PLANS
FENCE/GATE FOOTING SCHEDULE B D3.1
REFER TO PLANS
7'-0"
36"
2"
2"
SECTION

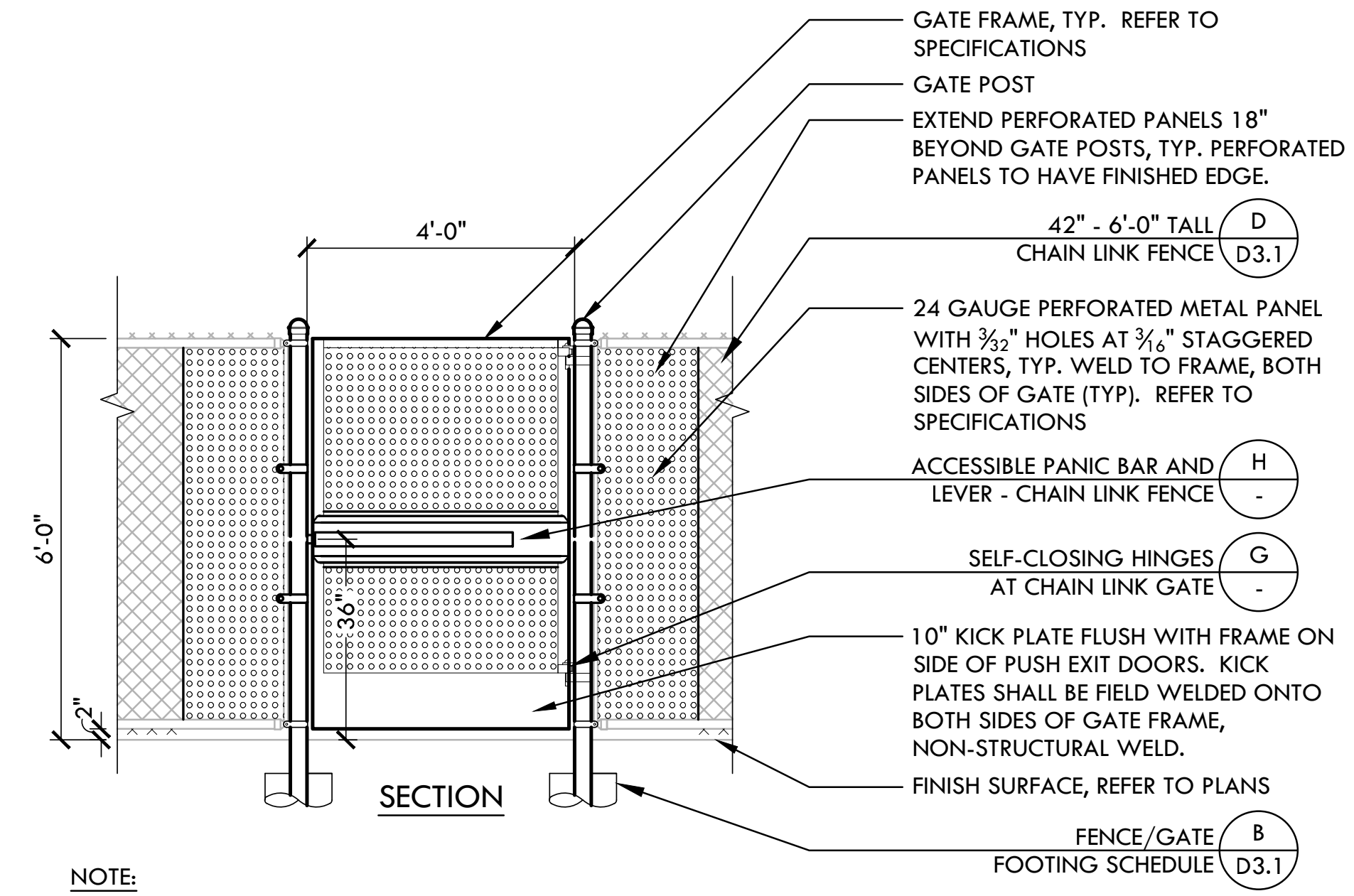
NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL A, SHEET D3.1.

C 7' TALL x 4' WIDE SWING GATE WITH TRANSOM & PANIC HARDWARE NTS


GATE FRAME, TYP. REFER TO SPECIFICATIONS
GATE POST
EXTEND PERFORATED PANELS 18" BEYOND GATE POSTS, TYP. PERFORATED PANELS TO HAVE FINISHED EDGE.
4'-0"
7'-0" - 12'-0" TALL CHAIN LINK FENCE F D3.1
24 GAUGE PERFORATED METAL PANEL WITH 3/32" HOLES AT 3/16" STAGGERED CENTERS, TYP. WELD TO FRAME, BOTH SIDES OF GATE (TYP). REFER TO SPECIFICATIONS
ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE H -
SELF-CLOSING HINGES AT CHAIN LINK GATE G -
10" KICK PLATE FLUSH WITH FRAME ON SIDE OF PUSH EXIT DOORS. KICK PLATES SHALL BE FIELD WELDED ONTO BOTH SIDES OF GATE FRAME, NON-STRUCTURAL WELD.
FINISH SURFACE, REFER TO PLANS
FENCE/GATE FOOTING SCHEDULE B D3.1
7'-0"
36"
2"
SECTION

NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL A, SHEET D3.1.

B 7' TALL x 4' WIDE SWING GATE WITH PANIC HARDWARE NTS


GATE FRAME, TYP. REFER TO SPECIFICATIONS
GATE POST
EXTEND PERFORATED PANELS 18" BEYOND GATE POSTS, TYP. PERFORATED PANELS TO HAVE FINISHED EDGE.
4'-0"
42" - 6'-0" TALL CHAIN LINK FENCE D D3.1
24 GAUGE PERFORATED METAL PANEL WITH 3/32" HOLES AT 3/16" STAGGERED CENTERS, TYP. WELD TO FRAME, BOTH SIDES OF GATE (TYP). REFER TO SPECIFICATIONS
ACCESSIBLE PANIC BAR AND LEVER - CHAIN LINK FENCE H -
SELF-CLOSING HINGES AT CHAIN LINK GATE G -
10" KICK PLATE FLUSH WITH FRAME ON SIDE OF PUSH EXIT DOORS. KICK PLATES SHALL BE FIELD WELDED ONTO BOTH SIDES OF GATE FRAME, NON-STRUCTURAL WELD.
FINISH SURFACE, REFER TO PLANS
FENCE/GATE FOOTING SCHEDULE B D3.1
6'-0"
36"
2"
SECTION

NOTE:
1. REFER TO GENERAL FENCE & GATE NOTES, DETAIL A, SHEET D3.1.

A 6' TALL x 4' WIDE SWING GATE WITH PANIC HARDWARE NTS

VERDE DESIGN
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fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2027
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
FENCING DETAILS

PROJECT NAME
LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY	CHECKED BY
VDI	CS/MB
DATE ISSUED	SCALE
02/20/2026	AS NOTED

PROJ. NO.
2502700

SHEET NO.
D3.2

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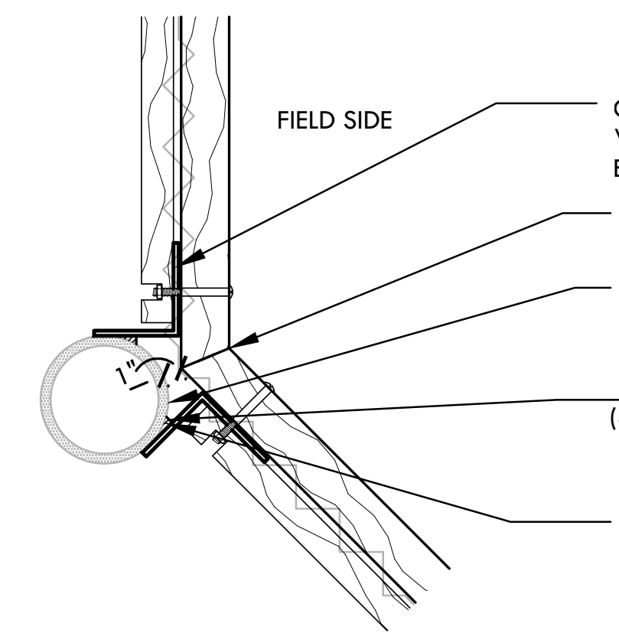
PLAN ENLARGEMENT



GALVANIZED STEEL PLATE $\frac{1}{4}$" THICK, 6" WIDE, 90° ANGLE AND FULL HEIGHT OF BOARDS AS REQUIRED.

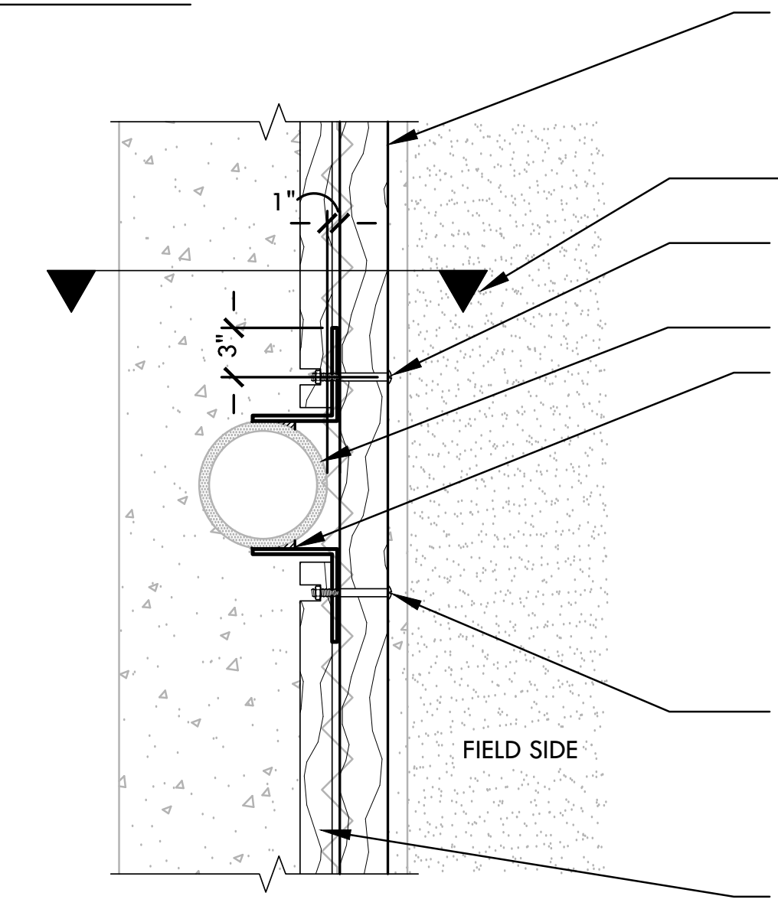
MITER CUTS, TYP. PROVIDE PAINT AT CUTS.

END, CORNER, LINE, BASEBOARD POST, REFER TO PLANS AND SPECIFICATIONS

ANGLE TO POST STAGRD. 6"

FIELD WELD GALVANIZED STEEL PLATE $\frac{1}{4}$" THICK, 6" WIDE, 90° ANGLE AND FULL HEIGHT OF BOARDS AS REQUIRED. GRIND ALL SHARP EDGES AND CORNERS, SMOOTH. SPRAY WELDS AND AFFECTED AREAS OF POST AND ANGLE WITH HIGH ZINC DUST -CONTENT PAINT AFTER WELDING, TYP.

PLAN ENLARGEMENT



3"x12" S4S DOUGLAS FIR SELECT, TO BE PAINTED SHERWIN WILLIAMS 6601 TANGGER RED, TYP. ON ALL FACES, ENDS AND RECESSES FOR BOLTS

18' WIDE BACKSTOP EDGEBAND (D / D2.2)

SPACE BOLTS 2'-0" O.C. ON 2"x6" PLANK ONLY.

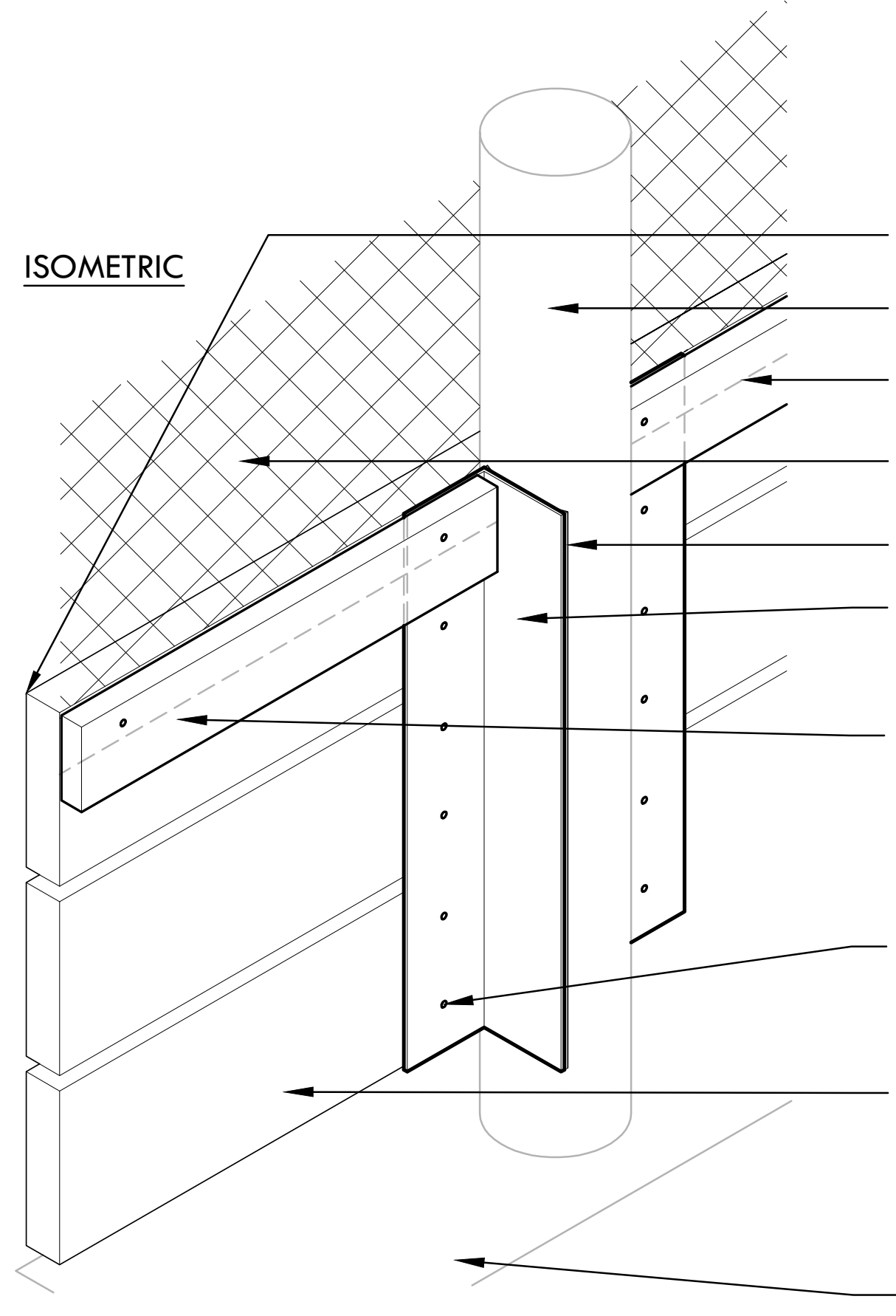
BACKSTOP POST, REFER TO PLANS

FIELD WELD GALVANIZED STEEL PLATE $\frac{1}{4}$" THICK, 6" WIDE, 90° ANGLE AND FULL HEIGHT OF BOARDS AS REQUIRED. GRIND ALL SHARP EDGES AND CORNERS, SMOOTH. SPRAY WELDS AND AFFECTED AREAS OF POST AND ANGLE WITH HIGH ZINC DUST -CONTENT PAINT AFTER WELDING, TYP.

GALVANIZED STEEL CARRIAGE BOLT $\frac{3}{8}$" DIAMETER WASHER AND NUT. RECESS NUTS AND CUT OFF PROTRUDING BOLT AND TRIM ENDS FLUSH TO FACE OF WOOD, GRIND SMOOTH.

2"x6" S4S DOUGLAS FIR SELECT, TO BE PAINTED SHERWIN WILLIAMS 6601 TANGGER RED, TYP. ON ALL FACES, ENDS AND RECESSES FOR BOLTS

ISOMETRIC



EASE ALL EDGES AND ENDS PRIOR TO PAINTING

BACKSTOP POST, REFER TO PLANS AND SPECIFICATIONS

CHAIN LINK FABRIC TO EXTEND 4" BELOW TOP OF BASEBOARD

CHAIN LINK FENCE FABRIC, REFER TO SPECIFICATIONS

PLATE TO HAVE CONTINUOUS WELD TO POST.

$\frac{1}{4}$"x6" GALVANIZED STEEL PLATE, 90° ANGLE TO EXTEND FULL HEIGHT OF BOARDS. BOARDS TO STOP 1" ABOVE FINISHED SURFACE.

2"x6" S4S DOUGLAS FIR SELECT, TO BE PAINTED SHERWIN WILLIAMS 6601 TANGGER RED, TYP. ON ALL FACES, ENDS AND RECESSES FOR BOLTS EDGE BOARD TO BE BOLTED TO TOP BASEBOARD. BOLTS SPACED 1' O.C., TYP.

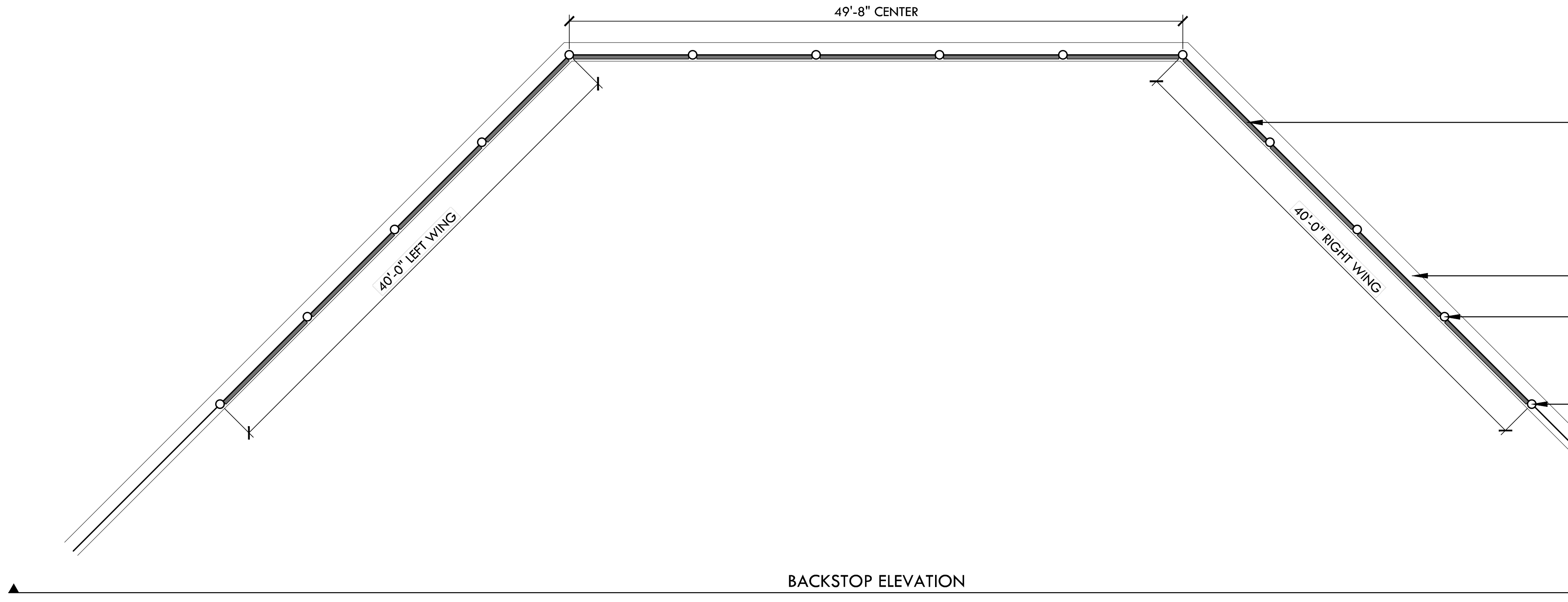
GALVANIZED. STEEL CARRIAGE BOLT $\frac{3}{8}$" DIAMETER WASHER AND NUT. TWO (2) PER BOARD, TYP. PAINT ALL BOLTS AND NUTS.

3"x12" S4S DOUGLAS FIR SELECT, TO BE PAINTED SHERWIN WILLIAMS 6601 TANGGER RED, TYP. ON ALL FACES, ENDS AND RECESSES FOR BOLTS. BOARDS TO STOP 1" ABOVE FINISHED SURFACE.

18' WIDE BACKSTOP EDGEBAND (D / D2.2)

H BASEBOARD CONNECTION DETAIL NTS

PLAN VIEW



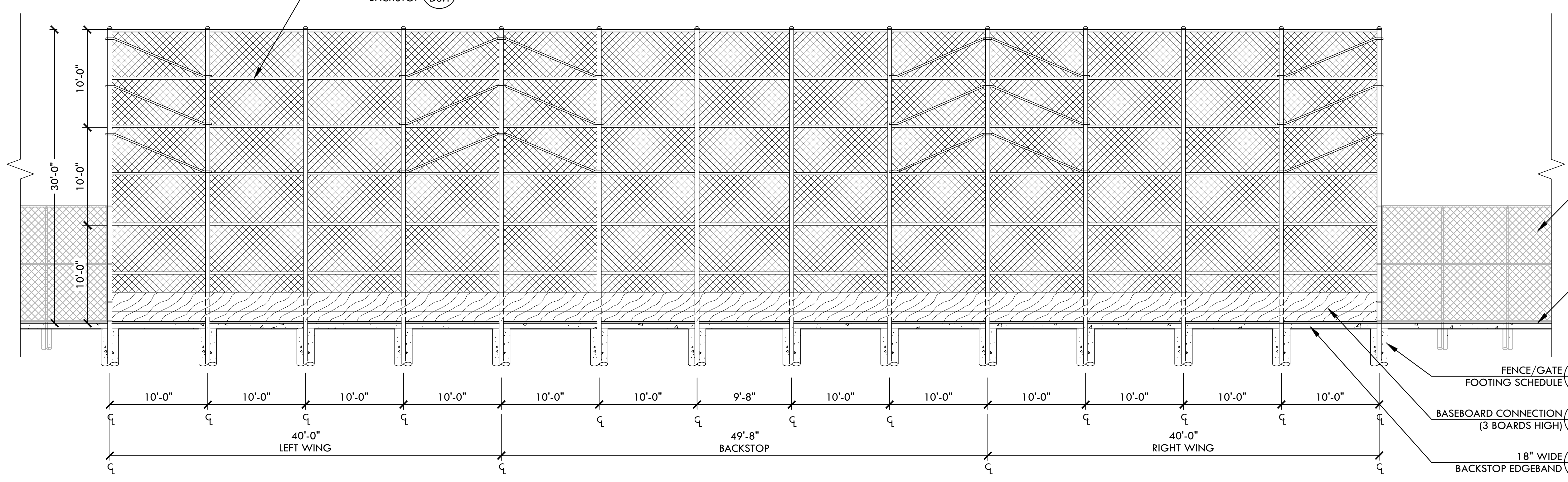
BASEBOARD CONNECTION DETAIL (H / -)

18" WIDE BACKSTOP EDGEBAND (D / D2.2)

LINE POST

END POST, TYP.

ELEVATION



30' TALL CHAIN LINK BACKSTOP (I / D3.1)

7'-0" - 12'-0" TALL CHAIN LINK FENCE (F / D3.1)

12" WIDE EDGEBAND WITH FENCE (C / D2.2)

FENCE/GATE FOOTING SCHEDULE (B / D3.1)

BASEBOARD CONNECTION (3 BOARDS HIGH) (H / -)

18" WIDE BACKSTOP EDGEBAND (D / D2.2)

NOTES:
1. FOR LOCATION OF GATES REFER TO MATERIAL PLANS.
2. CONTRACTOR TO ETCH AND PAINT BACKSTOP AND NETTING POLES AFTER INSTALLATION WITH TWO COATS OF PAINT. COLOR TO BE BLACK.

A BASEBALL BACKSTOP NTS

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REGISTERED LANDSCAPE ARCHITECT
MARK S. BAGINSKI
No. 4089
Signature
EXPIRATION DATE: JULY 2027
STATE OF CALIFORNIA

CONSULTANT

KEYMAP

SHEET TITLE
FENCING DETAILS

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY VDI	CHECKED BY CS/MB
DATE ISSUED 02/20/2026	SCALE AS NOTED

PROJ. NO.
2502700

SHEET NO.
D3.3

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ELECTRICAL ABBREVIATION

ABBREVIATION	DESCRIPTION
A	AMPERES, AMBER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
(D)	DEMOLISH
DN	DOWN
(E)	EXISTING
EF	EXHAUST FAN
ECH	ELECTRIC CONVECTION HEATER
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
N/A	NOT APPLICABLE
(N)	NEW
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PHP	PACKAGED HEAT PUMP
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	GENERAL
X X	DETAIL NUMBER AND SHEET LOCATION
━	NEW WORK
─	EXISTING OR WORK BY OTHERS
##	CONDUIT AND WIRE TAG
1	KEYED NOTE
	LIGHTING
	AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE
	MISCELLANEOUS
#10 B-27,29,31. B-27,29,31.	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	CURRENT TRANSFORMER
M	DIGITAL TYPE METER WITH VOLTMETER, AMMETER, KW METER, KVA METER, KVAR METER, AND %THD METER
○	EQUIPMENT CONNECTION ITEM. REFER TO SCHEDULE
	FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
	FLUSH WALL MOUNTED BRANCH PANEL
	GROUND ROD
	GROUNDING POINT
	LANDING LUG
▨	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
M	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	RACEWAYS
─	CONDUIT CONCEALED IN WALL OR CEILING SPACE
- - -	CONDUIT ROUTED BELOW FLOOR / GRADE
─●	CONDUIT ELLED DOWN
─○	CONDUIT ELLED UP
	CONDUIT/WIRING CONTINUATION
	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
UT	UTILITY TRANSFORMER PAD/VAULT
	WALL MOUNTING BRACKET
	WATER PIPE GROUND CONNECTION
	CONNECTIONS / EQUIPMENT
	HEAVY DUTY FUSED DISCONNECT SWITCH
J OR J	JUNCTION BOX
J	JUNCTION BOX WITH FLEX CONNECTION TO EQUIPMENT
J	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
T	TRANSFORMER
PB	PULL BOX
	ENCLOSED CIRCUIT BREAKER
	SWITCHES AND RECEPTACLES
	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER B = CLOCK HANGER C = FLUSH CEILING MOUNTED E = EMERGENCY F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER H = HOSPITAL GRADE K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE ? = DESIGNER DEFINED
$	SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION F = FAN SPEED CONTROL K = KEY OPERATED SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHERPROOF SWITCH V = LOW VOLTAGE SWITCH ? = DESIGNER DEFINED SWITCH
OS	CEILING MOUNTED OCCUPANCY SENSOR (SELF CONTAINED)
DS	CEILING MOUNTED DAYLIGHTING SENSOR
XX-1 (SEE SCHEDULE)	MOTOR / ELECTRICAL EQUIPMENT

DEVICE OUTLETS SHALL BE NO MORE THAN +48" AFF TO TOP OF BOX NOR LESS THAN +15"AFF TO BOTTOM OF BOX PER CBC 11B-308.1.2

ELECTRICAL GENERAL NOTES

A. ALL WORK SHALL COMPLY WITH ALL LOCAL AND STATE CODES AND AUTHORITIES HAVING JURISDICTION.

B. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS.

C. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER CONTRACTORS AND TRADES.

D. THESE DRAWINGS, AS PREPARED, ARE DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS CONSTRUCTION OF THE PROJECT AND THE WORK OF THE TRADES WILL PERMIT. EQUIPMENT LOCATIONS INDICATED ARE APPROXIMATE. COORDINATE EXACT LOCATIONS AND REQUIRED CLEARANCES WITH EQUIPMENT SUPPLIER AND ALL TRADES PRIOR TO INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL THE EQUIPMENT INDICATED WITHIN THESE DRAWINGS UNLESS OTHERWISE NOTED. VERIFY LOCATION AND DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND / OR INSTALLATION.

F. ALL ROOF PENETRATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE. COORDINATE WITH OWNER'S ROOFING CONTRACTOR SO AS NOT TO VOID ANY EXISTING ROOF WARRANTIES.

G. THE ENTIRE INSTALLATION SHALL BE GUARANTEED FREE OF DEFECTS AND CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE MATERIALS OR EQUIPMENT AT NO COST TO THE OWNER FOR A MINIMUM PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE BY ARCHITECT OR ENGINEER.

H. ALL WORK SHALL BE SUBJECT TO THE ACCEPTANCE AND APPROVAL OF THE ARCHITECT AND OWNER. THE ARCHITECT SHALL BE NOTIFIED OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE OF PROPER NOTIFICATION DOES NOT RELIEVE THE CONTRACTOR. THE CONTRACTOR SHALL CORRECT ANY AND ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ARCHITECT WITHOUT ADDITIONAL COST TO THE OWNER.

I. ALL JUNCTION BOXES SHOWN ON THIS PLAN ARE TO BE INSTALLED ABOVE THE FINISHED CEILING.

ELECTRICAL DEMOLITION NOTES

A. THE ELECTRICAL DRAWING SET IS PREPARED BASE OF LIMITED FIELD OBSERVATION ONLY. ACTUAL CONDITIONS MAY VARY IN FIELD. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ELECTRICAL ENGINEER OF RECORD PRIOR TO BID.

B. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASES OF DEMOLITION AND CONSTRUCTION. COORDINATE WITH GENERAL CONSTRUCTION.

C. DISCONNECT AND MOVE ALL ELECTRICAL DEVICES AND LIGHTING FIXTURES IN DEMOLITION AREAS UNLESS NOTED OTHERWISE.

D. DISCONNECT AND REMOVE ALL ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED. WALLS TO BE DEMOLISHED ARE SHOWN DASHED. DISCONNECT AND REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO LAST REMAINING DEVICE. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY TO CONTINUITY OF CIRCUIT(S) TO ANY EXISTING DEVICES TO REMAIN. COORDINATE AND VERIFY REQUIREMENTS WITH NEW WORK IN AREA.

E. FURNISH AND INSTALL CONDUIT AND WIRE AS NECESSARY FOR CONTINUITY OF ANY FEEDERS OR BRANCH CIRCUIT ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY ELECTRICAL EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

F. FURNISH AND INSTALL CONDUIT AND/OR COMMUNICATIONS/DATA WIRING AS NECESSARY FOR CONTINUITY OF ANY WIRING ORIGINATING OUTSIDE THE DEMOLITION AREA THAT SERVES ANY COMMUNICATION/DATA EQUIPMENT OR DEVICES TO REMAIN AFTER DEMOLITION. MODIFY OR REPLACE AS REQUIRED.

G. DISCONNECT AND REMOVE LIGHT SWITCHES IN DEMOLITION AREAS AS NECESSARY TO ACCOMMODATE NEW DOOR CONFIGURATIONS.

H. DISCONNECT AND REMOVE ANY EXISTING ELECTRICAL DEVICES AND BACK BOXES AS NECESSARY WHERE NEW WALL CONSTRUCTION WILL INTERSECT AN EXISTING WALL. FURNISH AND INSTALL CONDUIT AND WIRE AS REQUIRED FOR CONTINUITY OF CIRCUIT(S).

I. FURNISH AND INSTALL BLANK COVER PLATES OVER ALL EXISTING UNUSED OPENINGS.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. “PERMANENTLY ATTACHED” SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

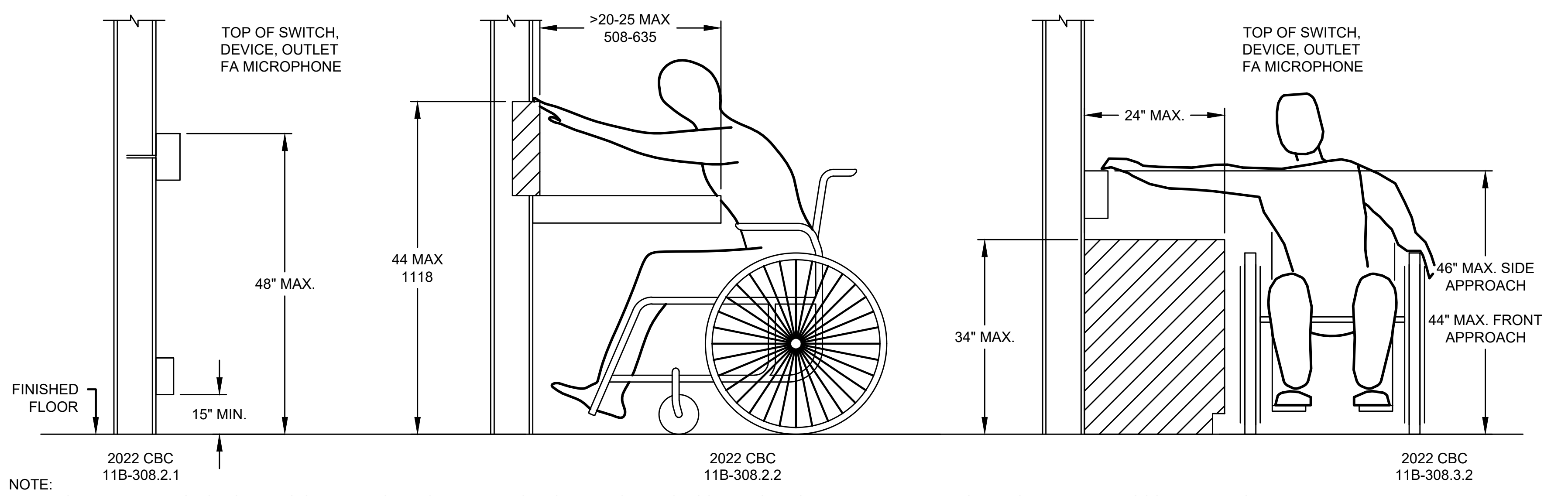
THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

MOUNTING OVER OBSTRUCTION DETAIL



NOTE:

1. THIS DETAIL APPLIES TO MOUNTING OF ANY MECHANICAL AND ELECTRICAL DEVICE WHICH CONTAINS AN OPERABLE PART THAT IS ADJUSTABLE BY THE OCCUPANT. THIS DOES NOT APPLY TO SENSORS OR CONTROLS THAT ARE ONLY ADJUSTABLE THROUGH THE BUILDING AUTOMATION SYSTEM (IE: TEMPERATURE AND HUMIDITY SENSORS).

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

MECHANICAL PIPING(MP), MECHANICAL DUCTS(MD), PLUMBING PIPING(PP), ELECTRICAL DISTRIBUTION SYSTEMS(E):

MP☐ MD☐ PP☐ E☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
MP☐ MD☐ PP☐ E☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL
MP☐ MD☐ PP☐ E☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

ADD ALTERNATE NOTES

ALT #1	PROVIDE CONDUIT AND CONDUCTORS FOR RECEPTACLES AT BATTING CAGES.
ALT #4	PROVIDE CONDUIT AND CONDUCTORS FOR RECEPTACLES AT BACKSTOPS. PROVIDE CONDUITS WITH PULL STRING FROM (E) IDF TO FIBER MEDIA CONVERTER DEVICES AT BACKSTOPS. COORDINATE WITH DISTRICT FOR MORE REQUIREMENTS.

SHEET INDEX

E0.1	ELECTRICAL COVER SHEET	E4.1	ELECTRICAL DETAILS
E0.2	ELECTRICAL ONE-LINE DIAGRAM & SCHEDULES	E4.2	ELECTRICAL DETAILS
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		E5.2	MUSCO DESIGN DRAWINGS
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E1.2	ELECTRICAL DEMO PARTIAL SITE PLAN 2	E5.4	MUSCO DESIGN DRAWINGS
E2.0	ELECTRICAL OVERALL SITE PLAN	E6.1	TITLE 24 LTO FORMS
E2.1	ELECTRICAL PARTIAL SITE PLAN 1		
E2.2	ELECTRICAL PARTIAL SITE PLAN 2	E7.0	TECHNOLOGY SITE PLAN
E2.3	ELECTRICAL ENLARGED PLANS		
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E3.2	PHOTOMETRIC PARTIAL SITE PLAN 2		

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NATHAN A. HEARN
No. E 23927
3-31-2026
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Date Signed: 2/19/2026

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO 240739.00
PM - DESIGN TEAM PROJECT NO.

SHEET TITLE
ELECTRICAL
COVER SHEET

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY: RK
CHECKED BY: NH
DATE ISSUED: 02/20/2026
SCALE:
PROJ. NO.: 2502700
SHEET NO.: E0.1

ELECTRICAL COVER SHEET

DRAWING NAME: \\capsac.lan\network\Project_Docs\2024\240739.00\1200 Drawings\1205 AutoCAD Project Files\E0.1 COVER SHEET.dwg
PLOT DATE: 02-19-26 PLOTTED BY: Rustem.Kopbayev

PANELBOARD SCHEDULE - L1

DESIGNATION	FEEDER NO.	POLES & AMPS	LOAD, VA LTG.	LOAD, VA RECPT.	LOAD, VA OTHER	CK	PH	CK	LOAD, VA LTG.	LOAD, VA RECPT.	LOAD, VA OTHER	POLES & AMPS	FEEDER NO.	DESIGNATION
RECEPTACLE - FIRST BASE DUGOUT (SOFTBALL)	1	1/20		360		1	A	2		360		1/20	1	RECEPTACLE - FIRST BASE DUGOUT (BASEBALL)
RECEPTACLE - THIRD BASE DUGOUT (SOFTBALL)	1	1/20		360		3	B	4		360		1/20	1	RECEPTACLE - THIRD BASE DUGOUT (BASEBALL)
RECEPTACLE - BACKSTOP (SOFTBALL)	1	1/20		360		5	C	6		360		1/20	1	RECEPTACLE - BACKSTOP (BASEBALL)
RECEPTACLE - BATTING CAGE (SOFTBALL)	1,2	1/20		360		7	A	8		360		1/20	1,2	RECEPTACLE - BATTING CAGE (BASEBALL)
SCORE BOARD (SOFTBALL)	1	1/20			300	9	B	10			300	1/20	1	SCORE BOARD (BASEBALL)
LIGHTING - DUGOUT FIRST BASE (SOFTBALL)	1	1/20	96			11	C	12				1/20		SPARE
LIGHTING - DUGOUT THIRD BASE (SOFTBALL)	1	1/20	96			13	A	14				1/20		SPARE
LIGHTING - DUGOUT FIRST BASE (BASEBALL)	1	2/20	96			15	B	16		500		1/20	1,3	RECEPTACLE - FIBER MEDIA CONVERTER (BASEBALL)
LIGHTING - DUGOUT THIRD BASE (BASEBALL)	1	1/20	96			17	C	18				1/20		SPARE
LIGHTING - SITE	1	2/20	340			19	A	20						SPACE
			340			21	B	22						SPACE
LIGHTING - FLAGPOLE	1	1/20	102			23	C	24						SPACE
LIGHTING CONTROL CABINET	1	1/20			100	25	A	26						SPACE
MUSCO SPORTS LIGHTING CONTROL CABINET	1	1/20			100	27	B	28						SPACE
INVERTER	1	2/30			2,900	29	C	30						SPACE
					2,900	31	A	32						SPACE
RECEPTACLE - FIBER MEDIA CONVERTER (SOFTBALL)	1,3	1/20		500		33	B	34						SPACE
SPACE						35	C	36						SPACE
SPACE						37	A	38						SPACE
SPACE						39	B	40						SPACE
SPACE						41	C	42						SPACE
			1,166	1,940	6,300				0	1,940	300			SECTION SUB-TOTALS

CATEGORY	CONN. LOAD KVA	CONN. LOAD AMPS	DESIGN LOAD DIV.	DESIGN LOAD KVA	DESIGN LOAD AMPS
LIGHTING:	1.2	3.2	1.25	1.5	4.1
RECEPTACLE:	3.9	10.8	1.00	3.9	10.8
MOTORS:	0.0	0.0	1.00	0.0	0.0
SPECIAL LOADS:	6.6	18.3	1.00	6.6	18.3
ELECTRIC HEATING:	0.0	0.0	1.00	0.0	0.0
WATER HEATING:	0.0	0.0	1.00	0.0	0.0
EVSE/EVCS	0.0	0.0	1.25	0.0	0.0
TOTAL:	11.6	32.4		11.9	33.2

MOUNTING:		SURFACE
VOLTS:		120/208
PHASE/WIRE:		3/4
MAINS SIZE:		100 AMPS
MAINS TYPE:		MCB
BUSS TYPE:		COPPER
BRKR TYPE:		BOLT-IN
A.I.C. (RMS):		22,000
A Phase	4.9	Connected Kva
B Phase	2.9	Connected Kva
C Phase	3.9	Connected Kva

REMARKS:

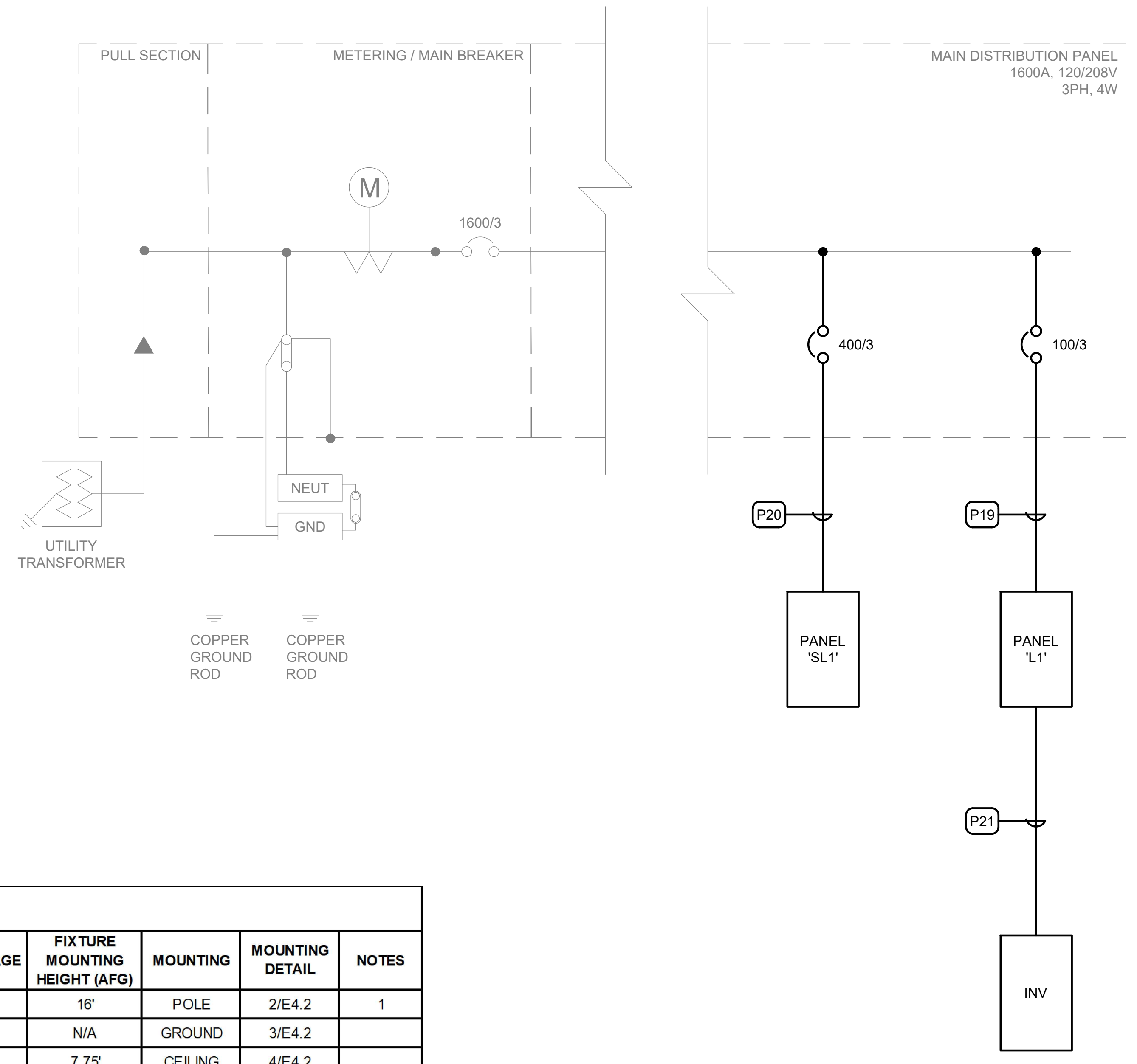
FEEDER NO.:
1 = SEE BRANCH CIRCUIT SCHEDULE ON SHEET E0.2
2 = ADD ALT. #1
3 = ADD ALT. #4

INVERTER OUTPUT SCHEDULE

NEW LOAD

(1) CONTACTOR 13 - EGRESS LIGHTING 8.29A @208V (1Φ)	1,724.3 VA
(1) CONTACTOR 14 - EGRESS LIGHTING 5.53A @208V (1Φ)	1,150.2 VA
(1) CONTACTOR 15 - EGRESS LIGHTING 5.53A @208V (1Φ)	1,150.2 VA
(1) CONTACTOR 16 - EGRESS LIGHTING 8.29A @208V (1Φ)	1,724.3 VA
(1) CONTROL 0.05KW @120V (1Φ)	50.0 VA
(1) SPARE KW @208V (1Φ)	0.0 VA
(1) SPARE KW @120V (1Φ)	0.0 VA

TOTAL LOADS = 5,799.1 VA
AMPS = 20.9 AMPS
+25% LIGHTING LOAD = 5.2 AMPS
TOTAL = 26 AMPS



PANELBOARD SCHEDULE - SL1

DESIGNATION	FEEDER NO.	POLES & AMPS	LOAD, VA LTG.	LOAD, VA RECPT.	LOAD, VA OTHER	CK	PH	CK	LOAD, VA LTG.	LOAD, VA RECPT.	LOAD, VA OTHER	POLES & AMPS	FEEDER NO.	DESIGNATION
C1 - SPORTS LTG. CONTACTOR	1,2	3/30	1,943			1	A	2	3,523			3/60	1,2	C8 - SPORTS LTG. CONTACTOR
			1,943			3	B	4	3,523					
			1,943			5	C	6	3,523					
C2 - SPORTS LTG. CONTACTOR	1,2	3/30	1,610			7	A	8	1,610			3/30	1,2	C9 - SPORTS LTG. CONTACTOR
			1,610			9	B	10	1,610					
			1,610			11	C	12	1,610					
C3 - SPORTS LTG. CONTACTOR	1,2	3/60	3,503			13	A	14	1,610			3/30	1,2	C10 - SPORTS LTG. CONTACTOR
			3,503			15	B	16	1,610					
			3,503			17	C	18	1,610					
C4 - SPORTS LTG. CONTACTOR	1,2	3/60	3,503			19	A	20	2,632			3/30	1,2	C11 - SPORTS LTG. CONTACTOR
			3,503			21	B	22	2,632					
			3,503			23	C	24	2,632					
C5 - SPORTS LTG. CONTACTOR	1,2	3/30	2,507			25	A	26	2,632			3/30	1,2	C12 - SPORTS LTG. CONTACTOR
			2,507			27	B	28	2,632					
			2,507			29	C	30	2,632					
C6 - SPORTS LTG. CONTACTOR	1,2	3/30	2,659			31	A	32				1/20		SPARE
			2,659			33	B	34				1/20		SPARE
			2,659			35	C	36						SPACE
C7 - SPORTS LTG. CONTACTOR	1,2	3/60	3,831			37	A	38						SPACE
			3,831			39	B	40						SPACE
			3,831			41	C	42						SPACE
			58,669	0	0				36,027	0	0			SECTION SUB-TOTALS

CATEGORY	CONN. LOAD KVA	CONN. LOAD AMPS	DESIGN LOAD DIV.	DESIGN LOAD KVA	DESIGN LOAD AMPS
LIGHTING:	94.7	263.2	1.25	118.4	329.0
RECEPTACLE:	0.0	0.0	1.00	0.0	0.0
MOTORS:	0.0	0.0	1.00	0.0	0.0
SPECIAL LOADS:	0.0	0.0	1.00	0.0	0.0
ELECTRIC HEATING:	0.0	0.0	1.00	0.0	0.0
WATER HEATING:	0.0	0.0	1.00	0.0	0.0
EVSE/EVCS	0.0	0.0	1.25	0.0	0.0
TOTAL:	94.7	263.2		118.4	329.0

MOUNTING:		SURFACE
VOLTS:		120/208
PHASE/WIRE:		3/4
MAINS SIZE:		400 AMPS
MAINS TYPE:		MCB
BUSS TYPE:		COPPER
BRKR TYPE:		BOLT-IN
A.I.C. (RMS):		30,000
A Phase	31.6	Connected Kva
B Phase	31.6	Connected Kva
C Phase	31.6	Connected Kva

REMARKS:

FEEDER NO.:
1 = ROUTE THROUGH MUSCO CONTROL CABINET
2 = SEE FEEDER SCHEDULE ON SHEET E0.3

LIGHTING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER / MODEL	LAMPS	WATTS	VOLTAGE	FIXTURE MOUNTING HEIGHT (AFG)	MOUNTING	MOUNTING DETAIL	NOTES
S1	LIGHTING POLE, SINGLE FIXTURE	GARDCO: P26-A02-840-T5W	LED	85	208	16'	POLE	2/E4.2	1
F1	FLAG LIGHTING	B-K LIGHTING: HP2-IN-LID-LCB-FFM-HDE-120-X45	LED	34	120	N/A	GROUND	3/E4.2	
C1	LINEAR LIGHTING	LITHONIA: CSVT L48 ALO3 MVOLT SWW3 80CRI	LED	24	120	7.75'	CEILING	4/E4.2	
POLE:	POLE MOUNTED EGRESS LIGHTING	MUSCO: TLC-LED-550	LED	527	208	60' - 80'	POLE	N/A	2,3

NOTES:
1 FIXTURE INCLUDES MOTION SENSOR TO PROVIDE 50% DIMMING DURING UNOCCUPIED TIMES.
2 MOUNTING HEIGHTS FOR EGRESS LIGHTING ON MUSCO POLE CAN BE FOUND ON SHEET E5.1.
3 MUSCO TO PROVIDE EGRESS LIGHTING ON POLE. WATTAGE SHOWN IS FOR EGRESS LIGHTING ONLY. NOT ALL MUSCO POLES HAVE EGRESS LIGHTING. SEE SHEETS E5.1-E5.4 FOR MORE INFORMATION. REFER TO MUSCO PLANS FOR MOUNTING INFO

GENERAL NOTES:
A:THIS LIGHTING SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING ELECTRICAL SPECIFICATIONS.
B:SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
C:PROVIDE SUBMITTALS THAT INCLUDE LIGHTING FIXTURE, LED, AND DRIVER INFORMATION FOR EACH FIXTURE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
D:PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 COMMISSIONING REQUIREMENTS.

FEEDER SCHEDULE AND VOLTAGE DROP CALCULATION

3 PHASE FORMULA

$$VD = \frac{\sqrt{3} * L * R * A}{1000} \qquad \%VD = \frac{VD * 100\%}{V}$$

1 PHASE FORMULA

$$VD = \frac{2 * L * R * A}{1000} \qquad \%VD = \frac{VD * 100\%}{V}$$

CIRCUIT TAG	PHASE	VOLTAGE	OCPD SIZE	CONDUCTOR TYPE	CONDUIT TYPE	CONDUIT FILL %	SETS	CONDUIT SIZE	CONDUCTORS	EQUIP. GND	DISTANCE (FT)	AMPS (A)	IMPEDANCE: OHMS/Kft	TOTAL %VD
P19	3	208	100	Cu	PVC SCH40	33.30%	1	1-1/2	4 #1	#8	20	80	0.16	0.21%
P20	3	208	400	Cu	PVC SCH40	29.65%	2	2-1/2	4 #4/0	#3	20	320	0.04	0.20%
P21	1	208	30	Cu	PVC SCH40	7.61%	1	1	2 #10	#10	20	28	1.10	0.59%

1. CONDUCTOR IMPEDANCE VALUES BASED ON CEC CHAPTER 9 TABLE 9 - EFFECTIVE IMPEDANCE FOR UNCOATED COPPER WIRES IN PVC OR STEEL CONDUIT @ 0.85 PF (OHM/kFT)

2. PER CEC 210.19(A)(1)FPN NO. 4: BRANCH CIRCUITS ARE ALOWED 3% VOLTAGE DROP AND THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5%

3. FOR CIRCUITS WITH MULTIPLE SETS, THE CONDUIT FILL PERCENTAGE REPRESENTS THE FILL FOR A SINGLE SET OF CONDUCTORS IN A SINGLE CONDUIT ONLY.

CEC 215.2(A)(3) FPN No. 2

BRANCH CIRCUIT SCHEDULE

CIRCUIT TAG	NOTES	PANEL - CIRCUIT	OCPD SIZE	PHASE	VOLTAGE	CONDUCTOR TYPE	CONDUIT TYPE	CONDUIT FILL %	SETS	CONDUIT SIZE	CONDUCTORS	GROUND WIRE
P01	BASE	L1-1	20	1	120	Cu	PVC SCH40	18.28%	1	1	2 #6	#6
P02	BASE	L1-5	20	1	120	Cu	PVC SCH40	18.28%	1	1	2 #6	#6
P03	ALTERNATE #1	L1-7	20	1	120	Cu	PVC SCH40	18.28%	1	1	2 #6	#6
P04	BASE	L1-3	20	1	120	Cu	PVC SCH40	18.28%	1	1	2 #6	#6
P05	ALTERNATE #1	L1-8	20	1	120	Cu	PVC SCH40	13.20%	1	1	2 #8	#8
P06	BASE	L1-2	20	1	120	Cu	PVC SCH40	7.61%	1	1	2 #10	#10
P07	BASE	L1-6	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P08	BASE	L1-9	20	1	120	Cu	PVC SCH40	13.20%	1	1	2 #8	#8
P09	BASE	L1-10	20	1	120	Cu	PVC SCH40	13.20%	1	1	2 #8	#8
P12	BASE	L1-4	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P13	BASE	L1-19,21	20	1	208	Cu	PVC SCH40	7.61%	1	1	2 #10	#10
P14	BASE	L1-23	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P15	BASE	L1-17	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P16	BASE	L1-15	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P17	BASE	L1-13	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P18	BASE	L1-11	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P22	BASE	L1-27	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P23	BASE	INV-9	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P24	BASE	L1-25	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P25	ALTERNATE #4	L1-16	20	1	120	Cu	PVC SCH40	4.80%	1	1	2 #12	#12
P26	ALTERNATE #4	L1-33	20	1	120	Cu	PVC SCH40	29.71%	1	1	2 #4	#4

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Nathan A. Hearn
Date Signed: 2/19/2026

CONSULTANT

capital engineering
Rancho Cordova, California

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.

SHEET TITLE
ELECTRICAL
ONE-LINE DIAGRAM
& SCHEDULES

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY RK	CHECKED BY NH
DATE ISSUED 02/20/2026	SCALE
PROJ. NO. 2502700	
SHEET NO. E0.2	

SPORTS LIGHTING FEEDER SCHEDULE

ID	CONDUIT SIZE	CONDUIT FILL %	CONTACTOR CIRCUIT ID	PHASE CONDUCTORS	EQUIP. GND.	PANEL - CIRCUIT
M01	1-1/2	24.57%	C1	3 #8	#10	SL1-1,3,5
			C2	3 #8		SL1-7,9,11
			C3	3 #4		SL1-13,15,17
	1-1/2	24.57%	C4	3 #4	#10	SL1-19,21,23
			C5	3 #8		SL1-25,27,29
			C6	3 #8		SL1-31,33,35
	1-1/2	31.49%	C7	3 #4	#10	SL1-37,39,41
			C8	3 #4		SL1-2,4,6
			C9	3 #8		SL1-8,10,12
	1-1/2	17.65%	C10	3 #8	#10	SL1-14,16,18
			C11	3 #8		SL1-20,22,24
			C12	3 #8		SL1-26,28,30
	1-1/2	15.81%	C13	2 #8	#10	INV-1,2
			C14	2 #8		INV-3,4
			C15	2 #8		INV-5,6
			C16	2 #8		INV-7,8
M02	1	15.22%	C5	3 #10	#10	SL1-25,27,29
			C15	2 #10		INV-5,6
M03	2	26.40%	C1	3 #3	#4	SL1-1,3,5
			C2	3 #4		SL1-7,9,11
			C3	3 #4		SL1-13,15,17
	1-1/2	24.57%	C6	3 #8	#10	SL1-31,33,35
			C8	3 #4		SL1-2,4,6
			C10	3 #8		SL1-14,16,18
	1-1/2	16.70%	C13	2 #4	#4	INV-1,2
			C14	2 #10		INV-3,4
			C16	2 #10		INV-7,8
M04	1	15.22%	C6	3 #10	#10	SL1-31,33,35
			C16	2 #10		INV-7,8
M05	2	30.80%	C1	3 #4	#6	SL1-1,3,5
			C2	3 #4		SL1-7,9,11
			C3	3 #1		SL1-13,15,17
	1-1/2	29.04%	C8	3 #4	#4	SL1-2,4,6
			C10	3 #4		SL1-14,16,18
	1	34.78%	C13	2 #4	#4	INV-1,2
			C14	2 #10		INV-3,4
M06	1	37.32%	C8	3 #4	#10	SL1-2,4,6
			C13	2 #10		INV-1,2
M07	1-1/2	29.04%	C1	3 #4	#4	SL1-1,3,5
			C2	3 #4		SL1-7,9,11
	2	24.25%	C3	3 #1	#4	SL1-13,15,17
			C10	3 #4		SL1-14,16,18
	1-1/2	19.62%	C13	2 #2	#2	INV-1,2
			C14	2 #10		INV-3,4
M08	1-1/2	36.04%	C3	3 #1	#4	SL1-13,15,17
			C13	2 #4		INV-1,2
M09	1-1/2	32.98%	C1	3 #4	#6	SL1-1,3,5
			C2	3 #8		SL1-7,9,11
			C10	3 #4		SL1-14,16,18
	1	34.78%	C13	2 #4	#4	INV-1,2
			C14	2 #10		INV-3,4
M10	1-1/2	18.72%	C10	3 #4	#4	SL1-14,16,18
			C13	2 #10		INV-1,2
M11	1-1/2	32.04%	C1	3 #3	#3	SL1-1,3,5
			C2	3 #4		SL1-7,9,11
	1-1/2	19.62%	C13	2 #2	#2	INV-1,2
			C14	2 #10		INV-3,4
M12	1	22.67%	C1	3 #8	#8	SL1-1,3,5
			C13	2 #10		INV-1,2
M13	1-1/2	18.72%	C2	3 #4	#4	SL1-7,9,11
			C14	2 #10		INV-3,4
M14	2	26.63%	C4	3 #1	#6	SL1-19,21,23
			C7	3 #4		SL1-37,39,41
			C9	3 #8		SL1-8,10,12
	1-1/2	31.13%	C11	3 #4	#6	SL1-20,22,24
			C12	3 #4		SL1-26,28,30
			C13	2 #8		INV-1,2
M15	1	37.32%	C7	3 #4	#10	SL1-37,39,41
			C13	2 #10		INV-1,2
M16	2	26.63%	C4	3 #1	#6	SL1-19,21,23
			C9	3 #8		SL1-8,10,12
			C11	3 #4		SL1-20,22,24
	1-1/2	18.72%	C12	3 #4	#4	SL1-26,28,30
			C13	2 #10		INV-1,2
M17	1-1/2	26.06%	C9	3 #8	#6	SL1-8,10,12
			C11	3 #8		SL1-20,22,24
			C12	3 #4		SL1-26,28,30
M18	1	10.14%	C9	3 #10	#10	SL1-8,10,12
M19	1-1/2	35.77%	C11	3 #4	#2	SL1-20,22,24
			C12	3 #2		SL1-26,28,30
M20	1	10.14%	C11	3 #10	#10	SL1-20,22,24
M21	1-1/2	23.32%	C12	3 #2	#2	SL1-26,28,30
M22	1-1/2	34.26%	C4	3 #1/0	#6	SL1-19,21,23
			C13	2 #8		INV-1,2

SPORTS LIGHITNG VOLTAGE DROP CALCULATION

3 PHASE FORMULA

$$VD = \frac{\sqrt{3} * L * R * A}{1000} \qquad \%VD = \frac{VD * 100\%}{V}$$

1 PHASE FORMULA

$$VD = \frac{2 * L * R * A}{1000} \qquad \%VD = \frac{VD * 100\%}{V}$$

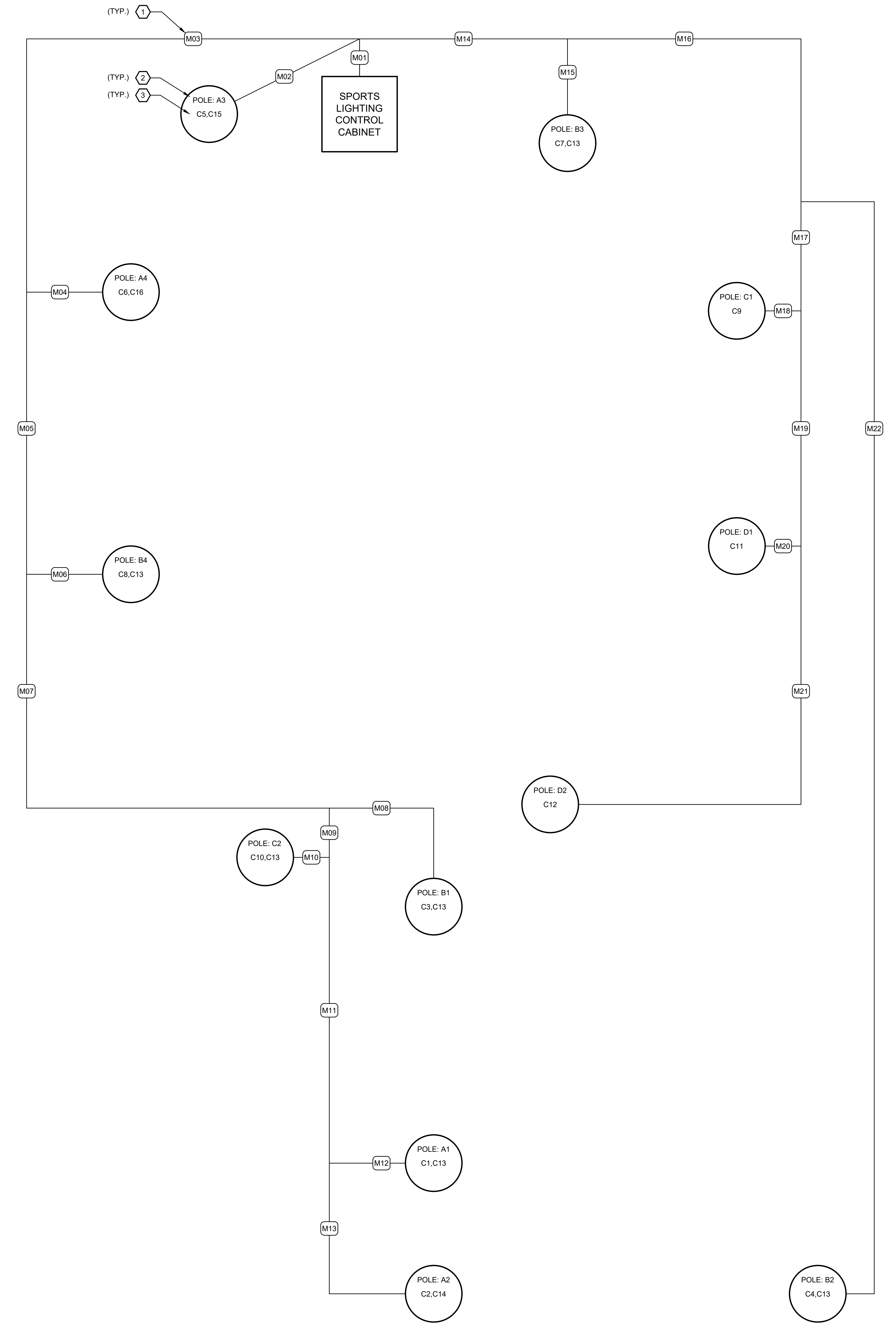
CIRCUIT	VOLTAGE	PHASE	CONDUCTOR TYPE	DISTANCE (FT)	AMPS	TOTAL %VD
C1	208	3	Cu	960	16.18	2.82%
C2	208	3	Cu	1,100	13.41	2.71%
C3	208	3	Cu	790	29.17	2.84%
C4	208	3	Cu	1,100	29.17	2.79%
C5	208	3	Cu	50	20.88	0.59%
C6	208	3	Cu	310	22.14	2.91%
C7	208	3	Cu	200	31.9	1.09%
C8	208	3	Cu	460	29.34	2.62%
C9	208	3	Cu	480	13.41	2.71%
C10	208	3	Cu	770	13.41	2.68%
C11	208	3	Cu	620	21.92	2.87%
C12	208	3	Cu	860	21.92	2.85%
C13	208	1	Cu	2,170	8.29	2.91%
C14	208	1	Cu	1,100	5.53	2.93%
C15	208	1	Cu	50	5.53	0.11%
C16	208	1	Cu	310	8.29	0.81%

1. CONDUCTOR IMPEDANCE VALUES BASED ON CEC CHAPTER 9 TABLE 9 - EFFECTIVE IMPEDANCE FOR UNCOATED COPPER WIRES IN PVC OR STEEL CONDUIT @ 0.85 PF (OHM/kFT)

2. PER CEC 210.19(A)(1)FPN NO. 4: BRANCH CIRCUITS ARE ALOWED 3% VOLTAGE DROP AND THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5%

* CIRCUITS WITH ASTERISKS ARE ROUTED TO CONTROL CABINET #2. ALL OTHER CIRCUITS ARE ROUTED TO CONTROL CABINET #1.

CEC 215.2(A)(3) FPN No. 2



SPORTS LIGHTING DIAGRAM

2 / E0.3

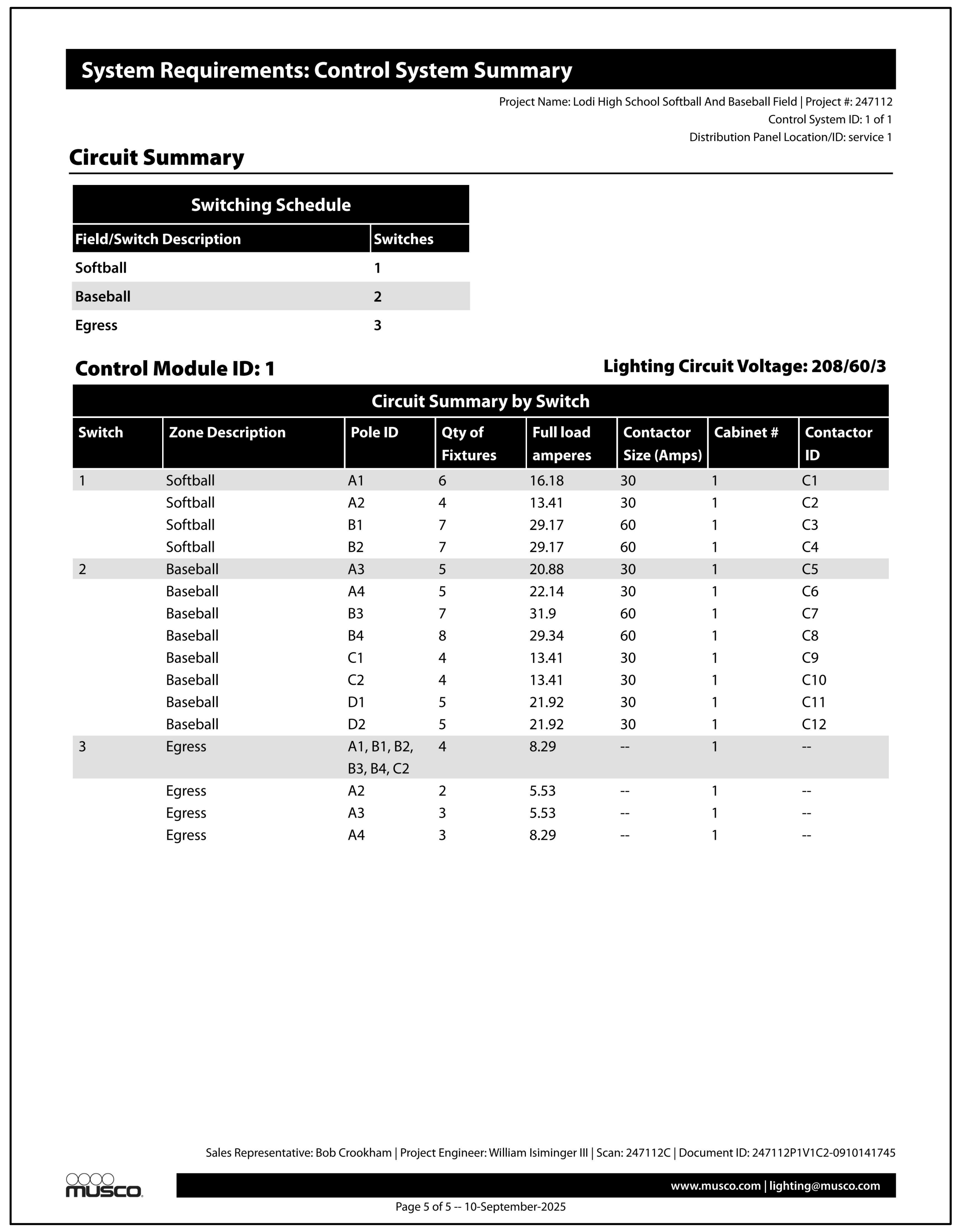
SCALE : N/A

NOTES:

1. LOCATIONS OF POLES ARE DIAGRAMMATIC AND NOT TO SCALE. SEE SHEETS E2.1-E2.3 FOR POLE LOCATIONS.

KEY NOTES:

1. REFER TO SPORTS LIGHTING FEEDER SCHEDULE ON SHEET E0.3 FOR CONDUIT, WIRE, AND CIRCUIT INFORMATION FOR THE CORRESPONDING ID.
2. POLE ID CORRESPONDS TO LOCATION OF MUSCO SPORTS LIGHTING POLES ON SHEETS E2.1-E2.3.
3. REFER TO CONTROL SUMMARY ON 1/E0.3 FOR CONTACTOR AND LOAD INFORMATION FOR CORRESPONDING CONTACTOR ID IN CABINET 1.



System Requirements: Control System Summary

Project Name: Lodi High School Softball And Baseball Field | Project #: 247112
Control System ID: 1 of 1
Distribution Panel Location/ID: service 1

Circuit Summary

Switching Schedule	
Field/Switch Description	**Switches**
Softball	1
Baseball	2
Egress	3

Control Module ID: 1

Lighting Circuit Voltage: 208/60/3

Circuit Summary by Switch

Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID
1	Softball	A1	6	16.18	30	1	C1
	Softball	A2	4	13.41	30	1	C2
	Softball	B1	7	29.17	60	1	C3
	Softball	B2	7	29.17	60	1	C4
2	Baseball	A3	5	20.88	30	1	C5
	Baseball	A4	5	22.14	30	1	C6
	Baseball	B3	7	31.9	60	1	C7
	Baseball	B4	8	29.34	60	1	C8
	Baseball	C1	4	13.41	30	1	C9
	Baseball	C2	4	13.41	30	1	C10
	Baseball	D1	5	21.92	30	1	C11
	Baseball	D2	5	21.92	30	1	C12
3	Egress	A1, B1, B2, B3, B4, C2	4	8.29	--	1	--
	Egress	A2	2	5.53	--	1	--
	Egress	A3	3	5.53	--	1	--
	Egress	A4	3	8.29	--	1	--

Sales Representative: Bob Crookham | Project Engineer: William Isiminger III | Scan: 247112C | Document ID: 247112P1V1C2-0910141745

musco

www.musco.com | lighting@musco.com

Page 5 of 5 -- 10-September-2025

SYSTEM SUMMARY CONTROL CABINET

1 / E0.3

SCALE : N/A

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CIVIL ENGINEERING
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tel: 916.415.6554
fax: 916.415.6525
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NATHAN A. HEARN
No. E 23927
3-31-2026
Nathan A. Hearn
2/19/2026
Date Signed:

CONSULTANT

capital engineering
Rancho Cordova, California

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.

SHEET TITLE
SPORTS LIGHTING DIAGRAM

PROJECT NAME
LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
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△		

DRAWN BY: RK
CHECKED BY: NH
DATE ISSUED: 02/20/2026
SCALE: N/A
PROJ. NO.: 2502700
SHEET NO.: E0.3

SPORTS LIGHTING DIAGRAM

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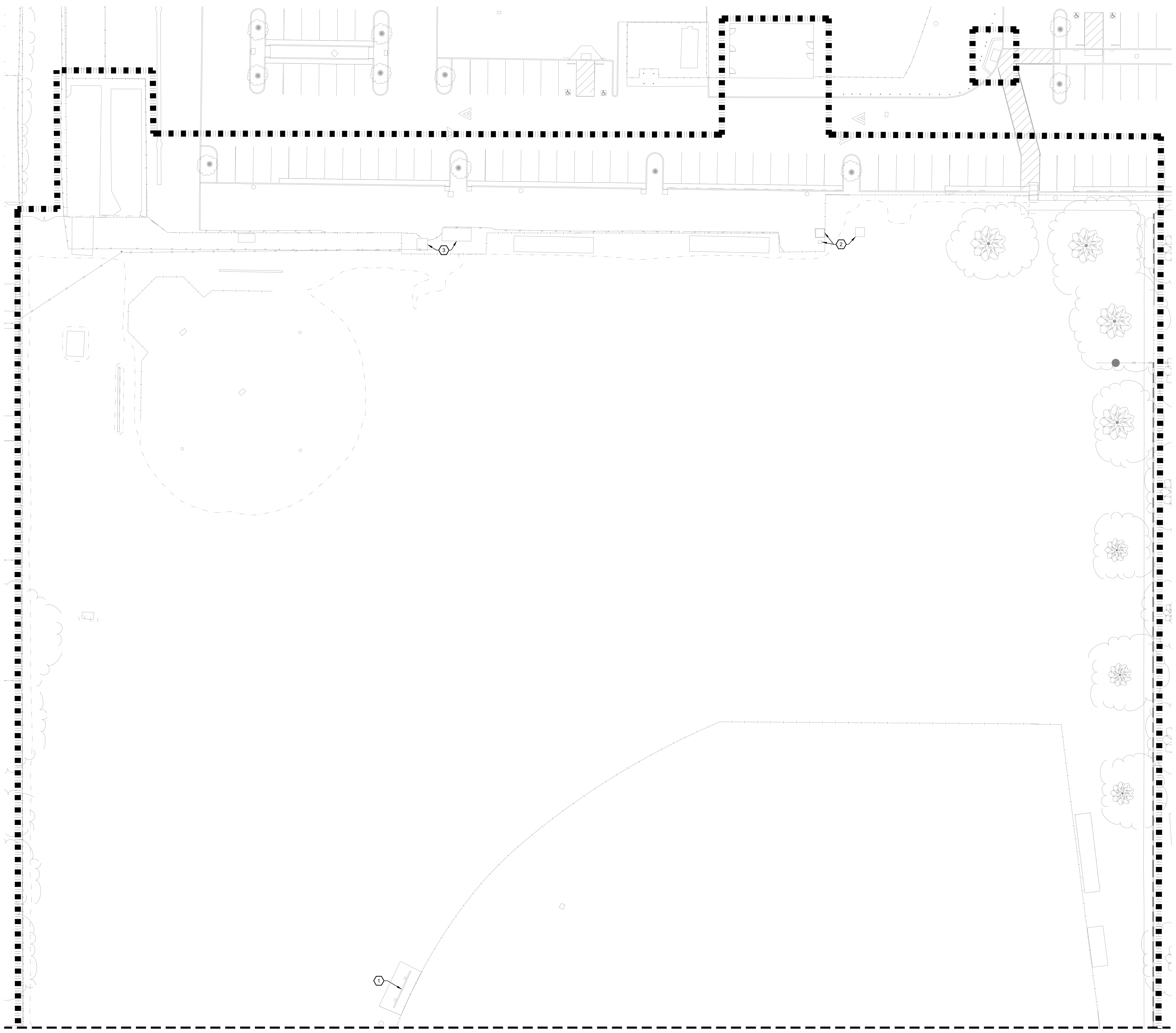
PLOT DATE: 02-19-26 PLOTTED BY: Rustem.Kopbayev



MATCHLINE - REFER TO SHEET E1.2

ELECTRICAL PARTIAL SITE PLAN

SCALE : 1" = 20'-0"

KEY NOTES:

1. EXISTING SCOREBOARD TO BE REMOVED. DEMOLISH POWER AND DATA CONDUITS. CUT EXISTING CONDUIT AND ABANDON AT 24" BELOW GRADE. REMOVE ALL WIRES AND EQUIPMENT ABOVE-GRADE BACK TO SOURCE. BACKFILL CONDUIT WITH DIRT.
2. EXISTING PULL BOXES, VAULTS, AND LIDS TO REMAIN. PROTECT IN PLACE.
3. EXISTING MAIN SWITCHBOARD AND TRANSFORMER TO REMAIN. PROTECT IN PLACE.

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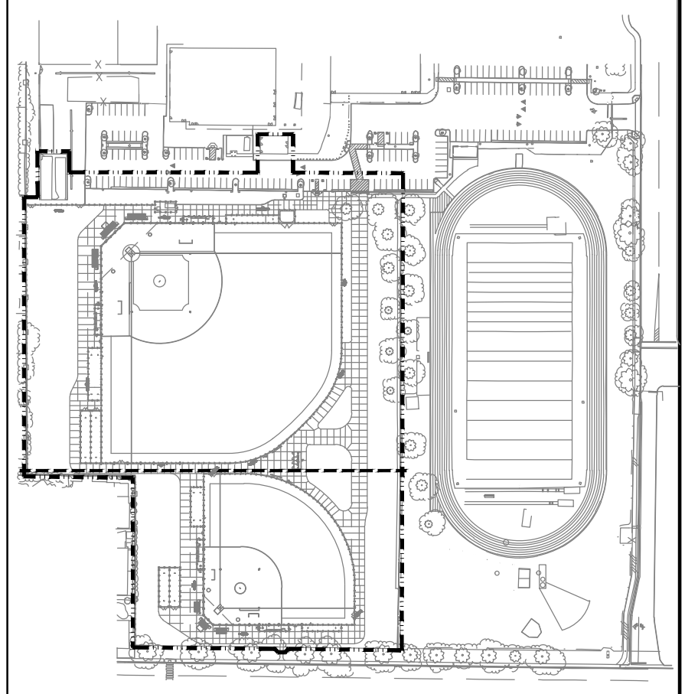
capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.



SHEET TITLE
ELECTRICAL DEMO
PARTIAL SITE PLAN 1

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

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△1	BID ADDENDUM 02	02/20/26
△		
△		
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△		
△		

DRAWN BY	CHECKED BY
RK	NH
DATE ISSUED 02/20/2026	SCALE 1" = 20'-0"

PROJ. NO.
2502700

SHEET NO.
E1.1

ELECTRICAL DEMO PARTIAL SITE PLAN 1

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PLOT DATE: 02—19—26 PLOTTED BY: Rustem.Kopbayev

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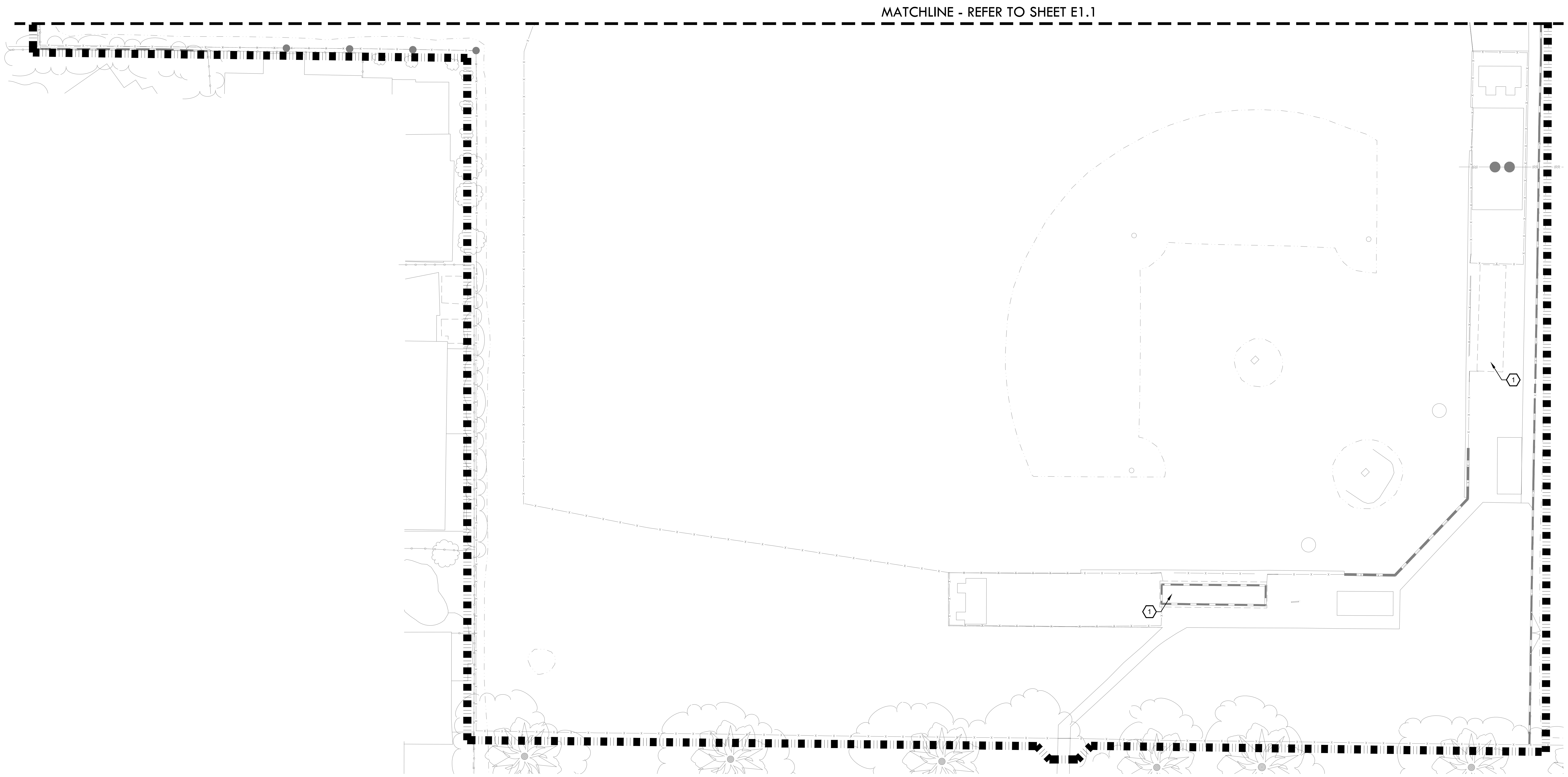
KEY NOTES:

1. DEMOLISH POWER AND DATA CONDUITS IN DUGOUT. CUT EXISTING CONDUIT AND ABANDON AT 24" BELOW GRADE. REMOVE ALL WIRES AND EQUIPMENT ABOVE-GRADE BACK TO SOURCE. BACKFILL CONDUIT WITH DIRT.



ELECTRICAL PARTIAL SITE PLAN

1
E1.2

SCALE : 1" = 20'-0"

N

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CIVIL ENGINEERING
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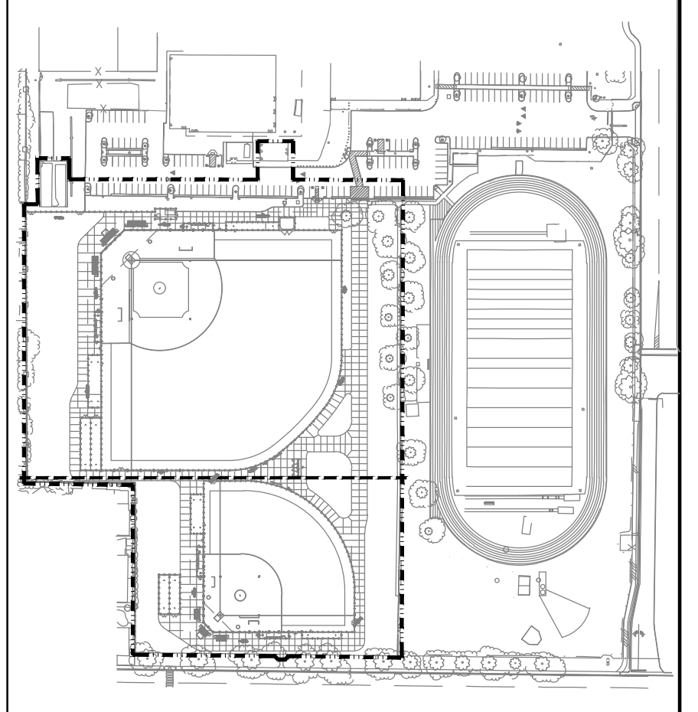
capital engineering
Rancho Cordova, California

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.



SHEET TITLE
ELECTRICAL DEMO
PARTIAL SITE PLAN 2

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY
RK

CHECKED BY
NH

DATE ISSUED
02/20/2026

SCALE
1" = 20'-0"

PROJ. NO.
2502700

SHEET NO.
E1.2

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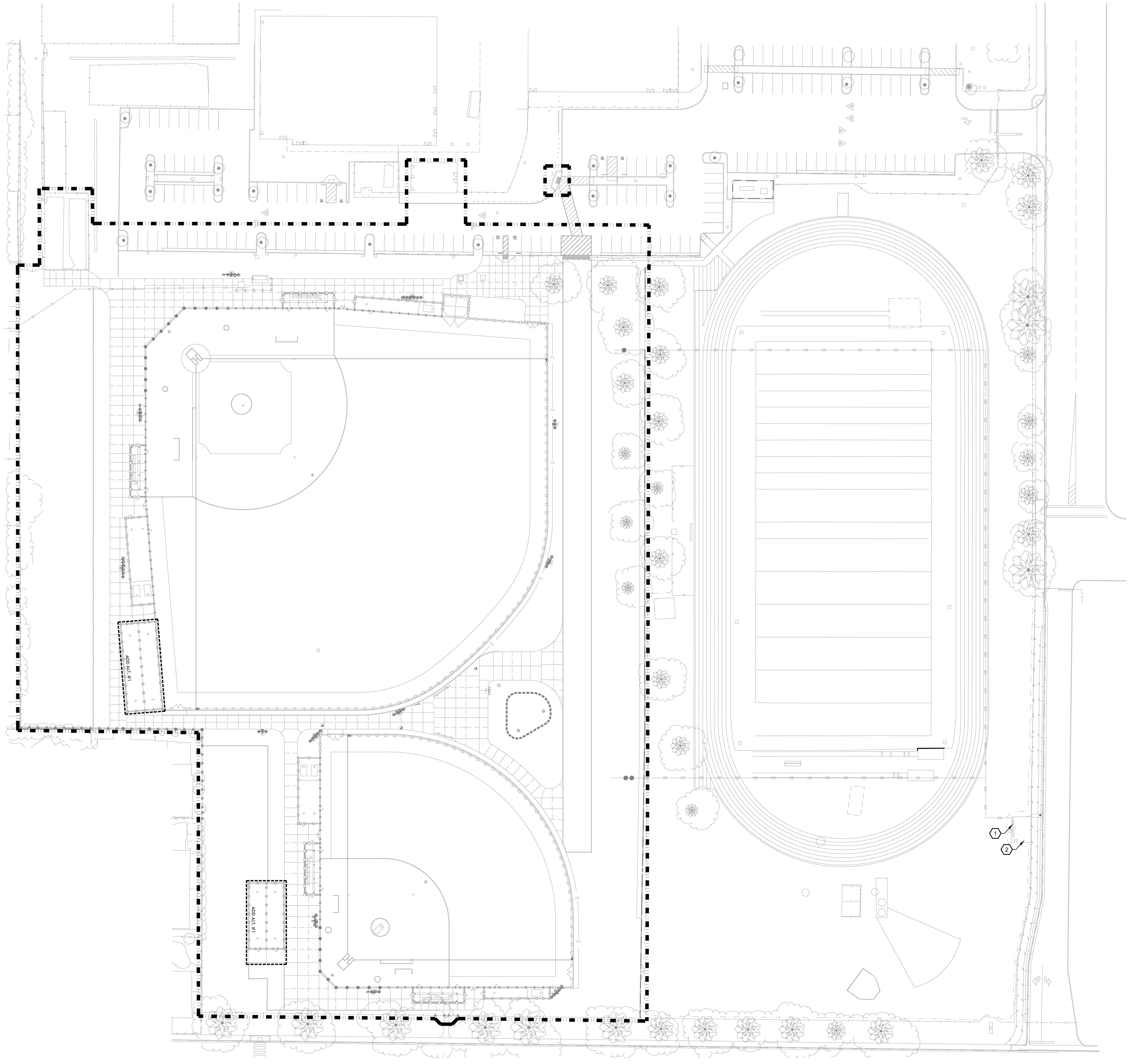

ELECTRICAL OVERALL SITE PLAN

SCALE : 1" = 40'-0"

1
E2.0

N

KEY NOTES:

1. EXISTING ELECTRICAL SERVICE.
2. TRENCH AND ROUTE 2#12, #12G - 1" PVC SCH40 CONDUCTORS AND CONDUIT UNDERGROUND FROM EXISTING ELECTRICAL SERVICE TO POWER NEW IRRIGATION CONTROLLER.

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NATHAN A. HEARN
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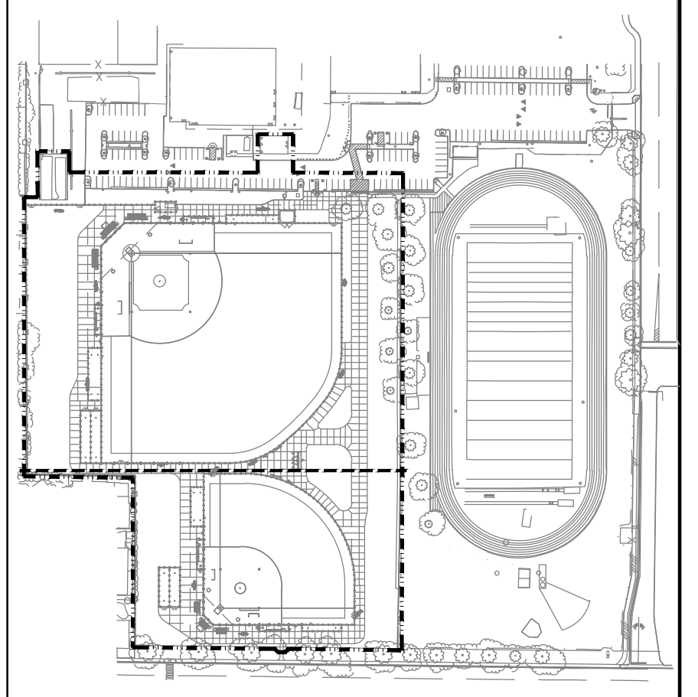
Nathan A. Hearn
2/19/2026
Date Signed:

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.



SHEET TITLE
ELECTRICAL OVERALL
SITE PLAN

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY	CHECKED BY
RK	NH
DATE ISSUED 02/20/2026	SCALE 1" = 40'-0"

PROJ. NO.
2502700

SHEET NO.
E2.0

ELECTRICAL OVERALL SITE PLAN

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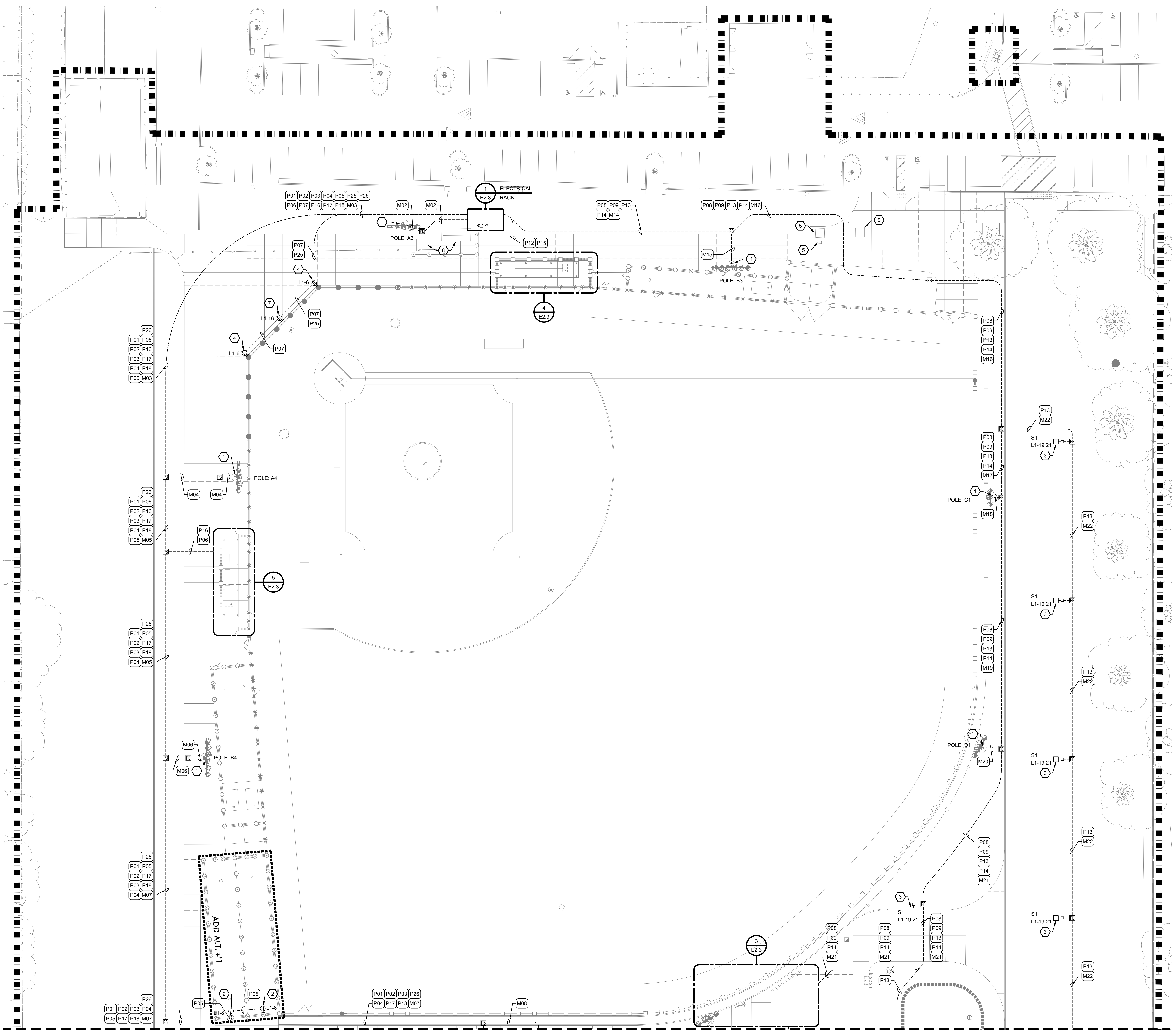
PLOT DATE: 02-19-26 PLOTTED BY: Rustem.Kopbayev


ELECTRICAL
RACK
1
E2.3
4
E2.3
5
E2.3
3
E2.3
POLE: A3
POLE: A4
POLE: B3
POLE: B4
POLE: C1
POLE: D1
ADD ALT. #1
L1-6
L1-16
L1-8
S1
L1-19,21
P01 P02 P03 P04 P05 P25 P26
P06 P07 P16 P17 P18 M03
M02
P07
P25
P12 P15
P08 P09 P13
P14 M14
P08 P09 P13 P14 M16
M15
P16
P06
M04
M06
P05
M08
P08 P09 P13 P14 M16
P08 P09 P13 P14 M17
M18
P08 P09 P13 P14 M19
M20
P08 P09 P13 P14 M21
P13
M22
P26 P01 P02 P03 P04 P05 P06 P16 P17 P18 M03 M05 M07

MATCHLINE - REFER TO SHEET E2.2

ELECTRICAL PARTIAL SITE PLAN

1
E2.1

SCALE : 1" = 20'-0"

N

KEY NOTES:

1. PROVIDE CONNECTION TO SPORTS LIGHTING PROVIDED BY OTHERS.
2. IF ADD ALTERNATE #1 IS TAKEN, PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR RECEPTACLE FOR BATTING CAGES. RECEPTACLE SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. RECEPTACLE SHALL BE INSTALLED ON FENCE POST. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT.
3. PROVIDE CONNECTION TO SITE LIGHTING.
4. PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR RECEPTACLE FOR BACKSTOP. RECEPTACLE SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. RECEPTACLE SHALL BE INSTALLED ON FENCE POST. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT.
5. EXISTING PULL BOXES, VAULTS, AND LIDS TO REMAIN. ADJUST ELEVATION SO LID IS FLUSH WITH ADJACENT SIDEWALK.
6. EXISTING MAIN SWITCHBOARD AND TRANSFORMER TO REMAIN.
7. IF ADD ALTERNATE #4 IS TAKEN, PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR RECEPTACLE FOR FIBER MEDIA CONVERTER PROVIDED BY OTHERS. RECEPTACLE SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. RECEPTACLE SHALL BE INSTALLED ON FENCE POST. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT.

SHEET NOTES:

1. LIGHT FIXTURE, CIRCUIT, AND PANEL SCHEDULES CAN BE FOUND ON SHEET E0.2

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CIVIL ENGINEERING
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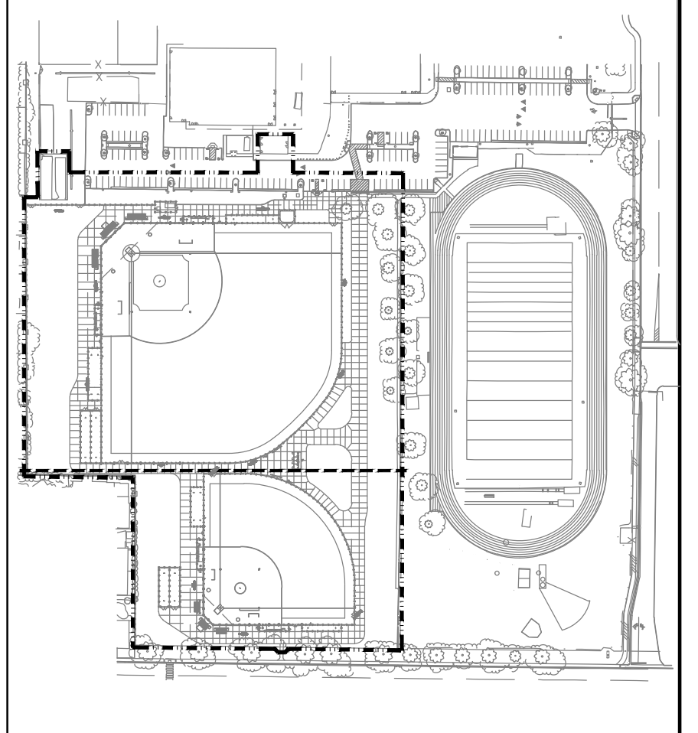
No. E 23927
3-31-2026
ELECTRICAL
2/19/2026
Date Signed:

CONSULTANT

capital engineering
Rancho Cordova, California

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.



SHEET TITLE
ELECTRICAL PARTIAL
SITE PLAN 1

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY	CHECKED BY
RK	NH
DATE ISSUED 02/20/2026	SCALE 1" = 20'-0"

PROJ. NO.
2502700

SHEET NO.
E2.1

ELECTRICAL PARTIAL SITE PLAN 1

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PLOT DATE: 02-19-26 PLOTTED BY: Rustem.Kopbayev

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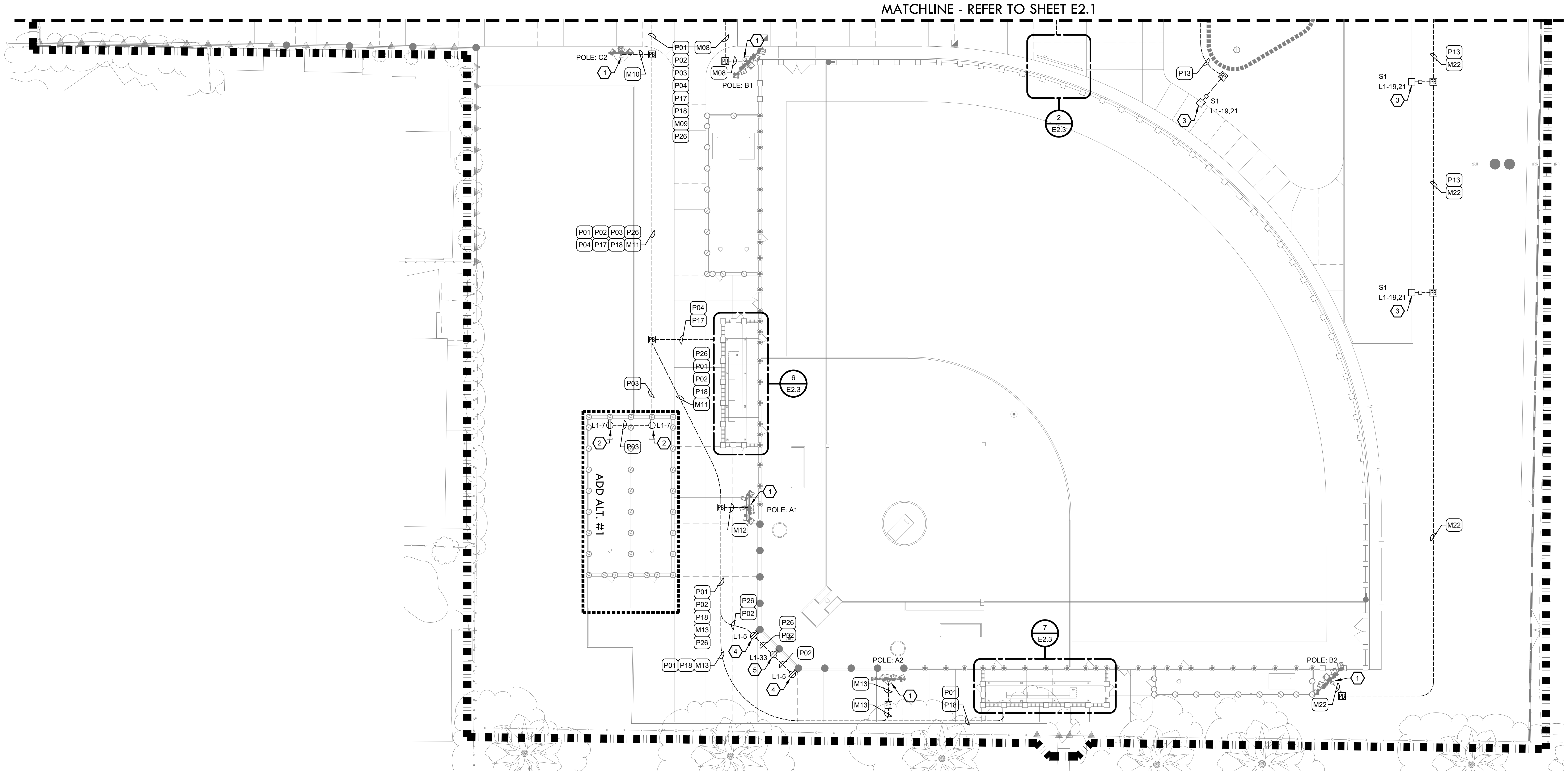
MATCHLINE - REFER TO SHEET E2.1
POLE: C2
1
M10
P01
P02
P03
P04
P17
P18
M09
P26
M08
M08
1
POLE: B1
2
E2.3
P13
S1
L1-19,21
3
S1
L1-19,21
3
P13
M22
P13
M22
S1
L1-19,21
3
P01 P02 P03 P26
P04 P17 P18 M11
P04
P17
P26
P01
P02
P18
M11
6
E2.3
P03
L1-7
L1-7
2
2
P03
ADD ALT. #1
1
POLE: A1
M12
M22
P01
P02
P18
M13
P26
P26
P02
L1-5
4
P26
P02
L1-33
5
P02
L1-5
4
P01 P18 M13
7
E2.3
POLE: A2
M13
1
M13
P01
P18
POLE: B2
1
M22

ELECTRICAL PARTIAL SITE PLAN

SCALE : 1" = 20'-0"

1
E2.2

N

KEY NOTES:

1. PROVIDE CONNECTION TO SPORTS LIGHTING PROVIDED BY OTHERS.
2. IF ADD ALTERNATE #1 IS TAKEN, PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR RECEPTACLE FOR BATTING CAGES. RECEPTACLE SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. RECEPTACLE SHALL BE INSTALLED ON FENCE POST. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT.
3. PROVIDE CONNECTION TO SITE LIGHTING.
4. PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR RECEPTACLE FOR BACKSTOP. RECEPTACLE SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. RECEPTACLE SHALL BE INSTALLED ON FENCE POST. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT.
5. IF ADD ALTERNATE #4 IS TAKEN, PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR RECEPTACLE FOR FIBER MEDIA CONVERTER PROVIDED BY OTHERS. RECEPTACLE SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. RECEPTACLE SHALL BE INSTALLED ON FENCE POST. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND HEIGHT WITH ARCHITECT.

SHEET NOTES:

1. LIGHT FIXTURE, CIRCUIT, AND PANEL SCHEDULES CAN BE FOUND ON SHEET E0.2

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LANDSCAPE ARCHITECTURE
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Nathan A. Hearn
Date Signed: 2/19/2026

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

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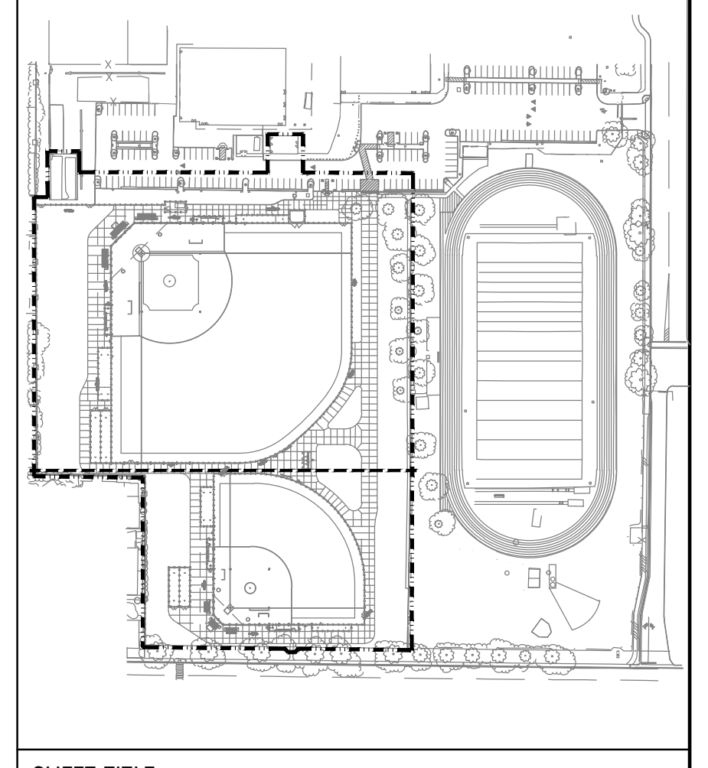
PM - DESIGN TEAM	PROJECT NO.



SHEET TITLE
ELECTRICAL PARTIAL
SITE PLAN 2

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY	CHECKED BY
RK	NH
DATE ISSUED 02/20/2026	SCALE 1" = 20'-0"

PROJ. NO.
2502700

SHEET NO.
E2.2

ELECTRICAL PARTIAL SITE PLAN 2

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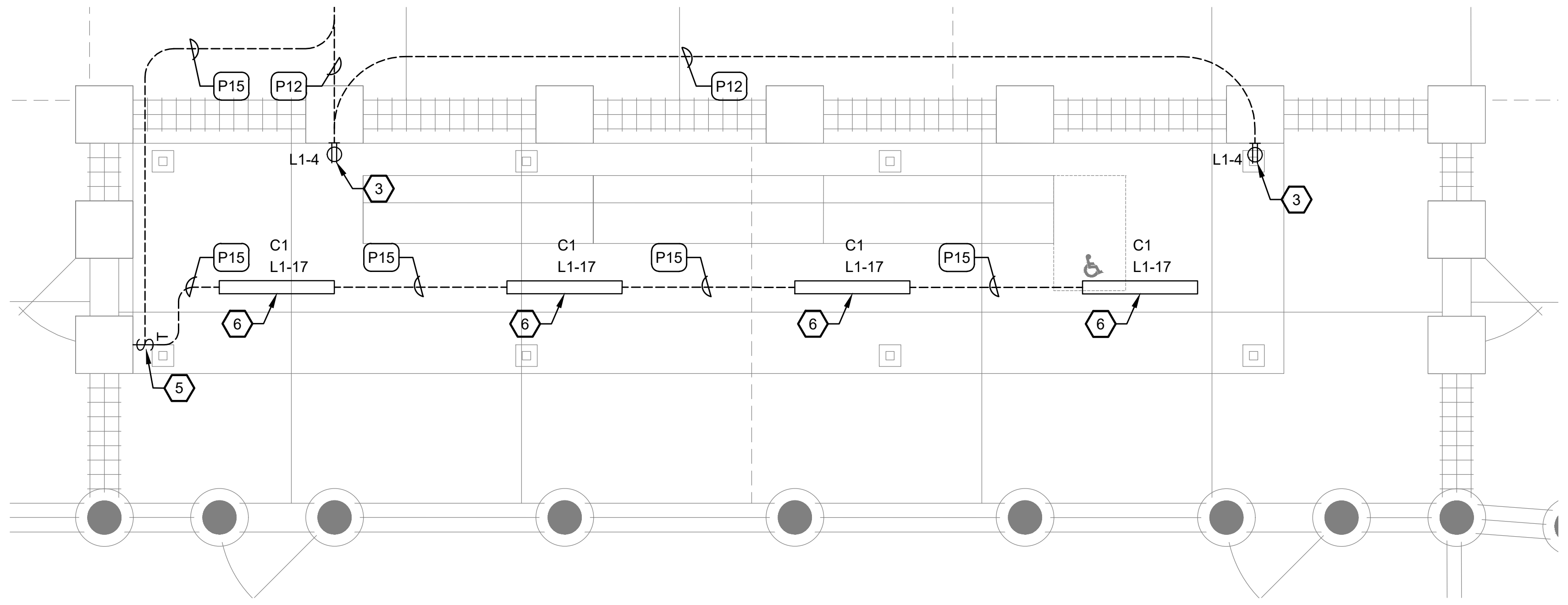
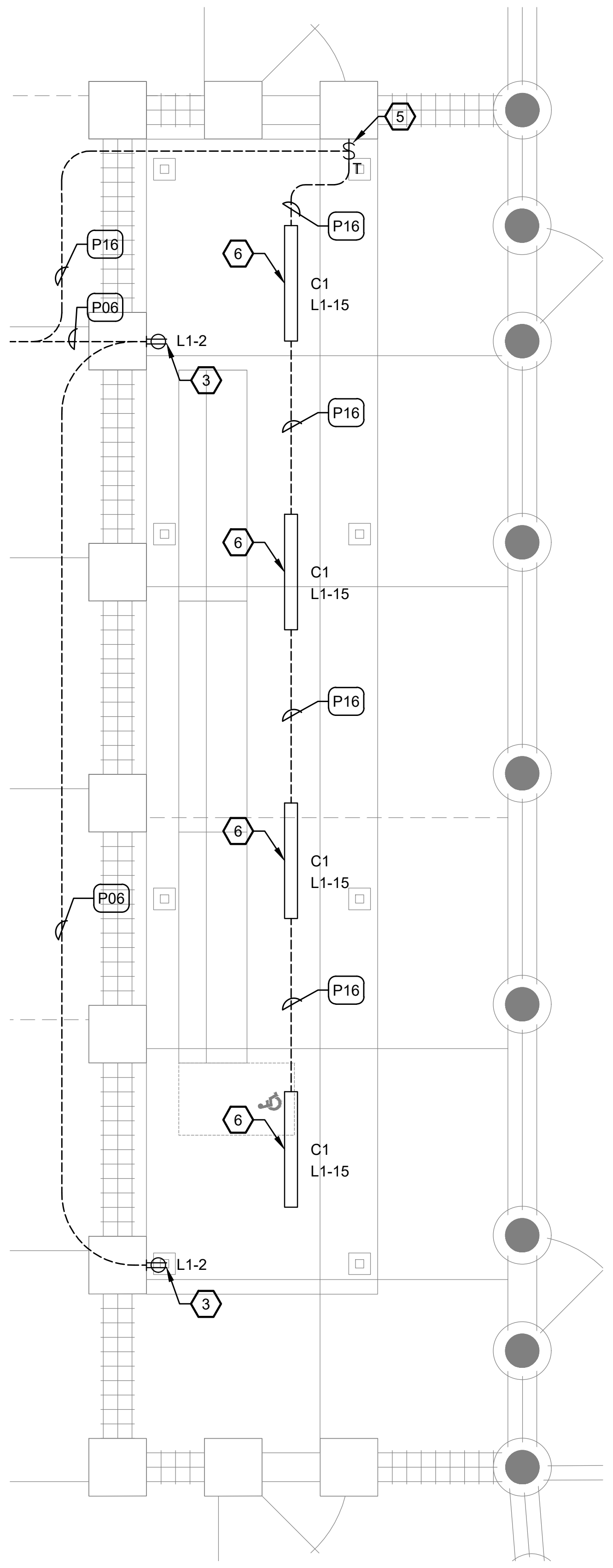
PLOT DATE: 02-19-26 PLOTTED BY: Rustem.Kopbayev


P15
P12
P12
L1-4
3
L1-4
3
P15
C1
L1-17
P15
C1
L1-17
P15
C1
L1-17
P15
C1
L1-17
6
6
6
6
5

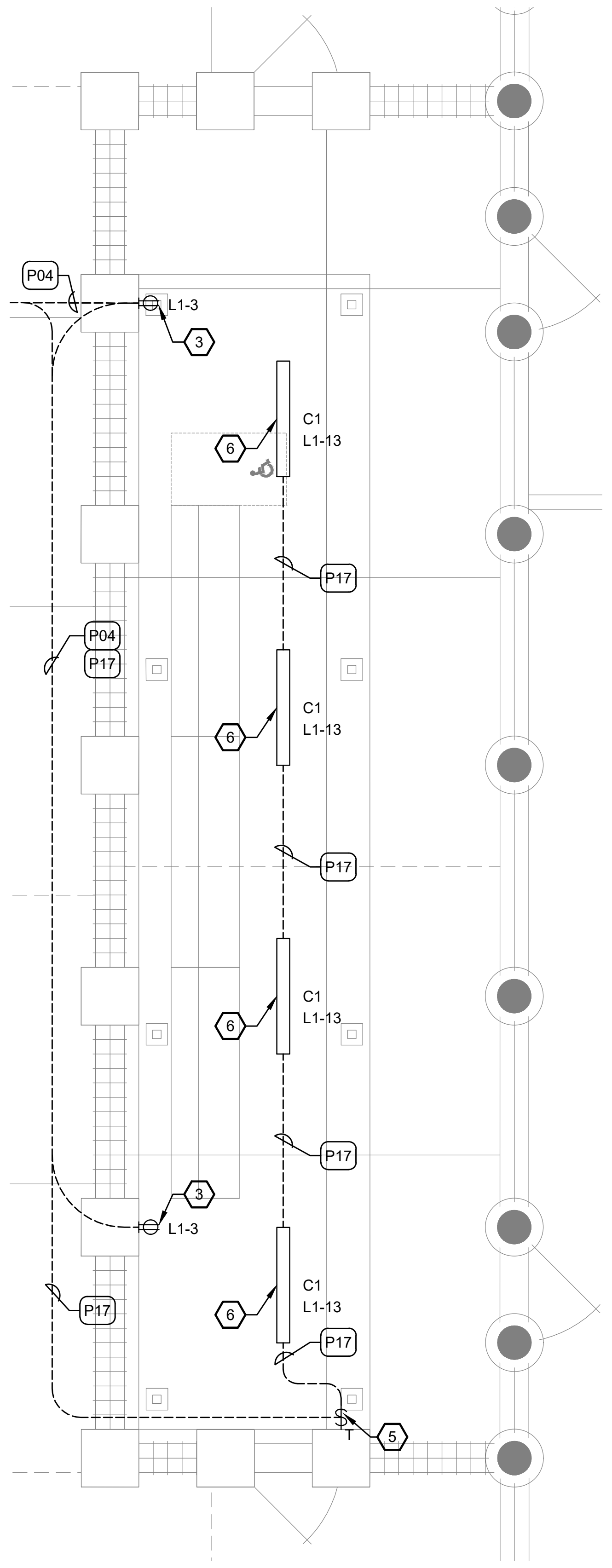
ENLARGED THIRD BASE DUGOUT (BASEBALL) 4 E2.3

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


5
P16
6
C1
L1-15
P16
P06
L1-2
3
P16
6
C1
L1-15
P16
6
C1
L1-15
P06
P16
6
C1
L1-15
L1-2
3

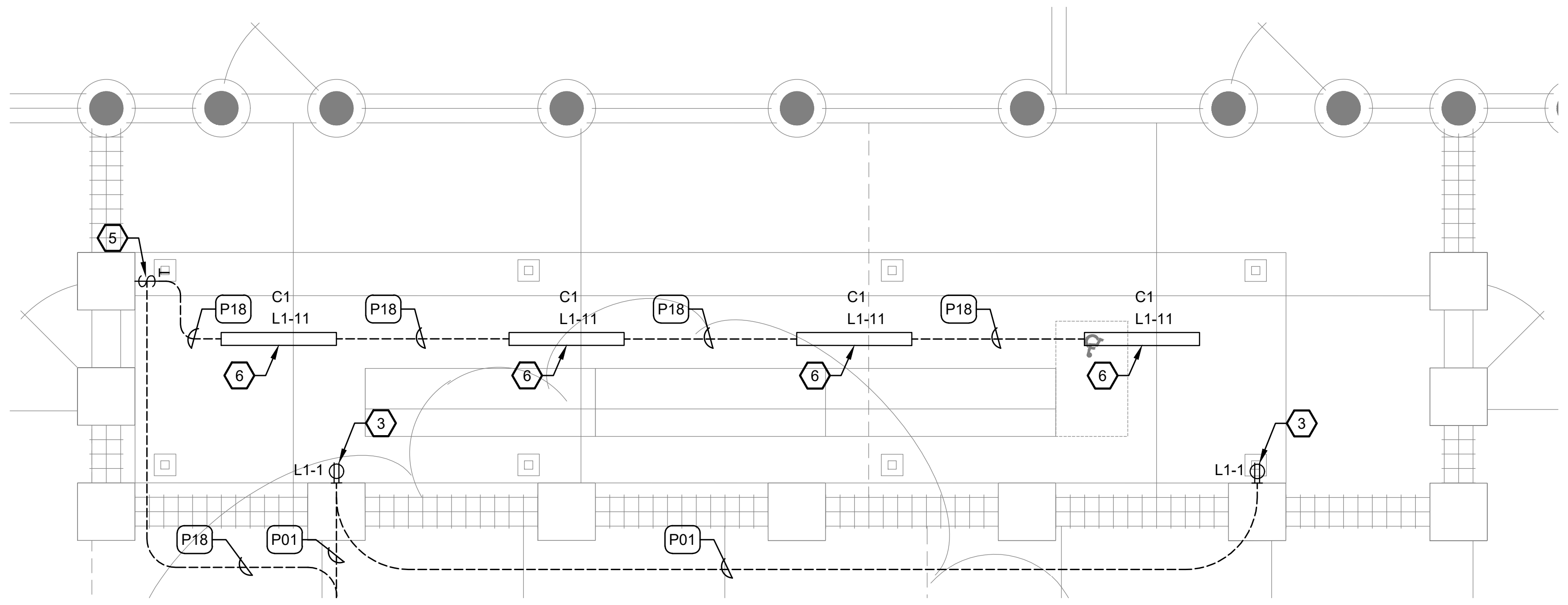
ENLARGED FIRST BASE DUGOUT (BASEBALL) 5 E2.3

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


P04
L1-3
3
6
C1
L1-13
P17
P04
P17
6
C1
L1-13
P17
6
C1
L1-13
P17
3
L1-3
P17
6
C1
L1-13
P17
5

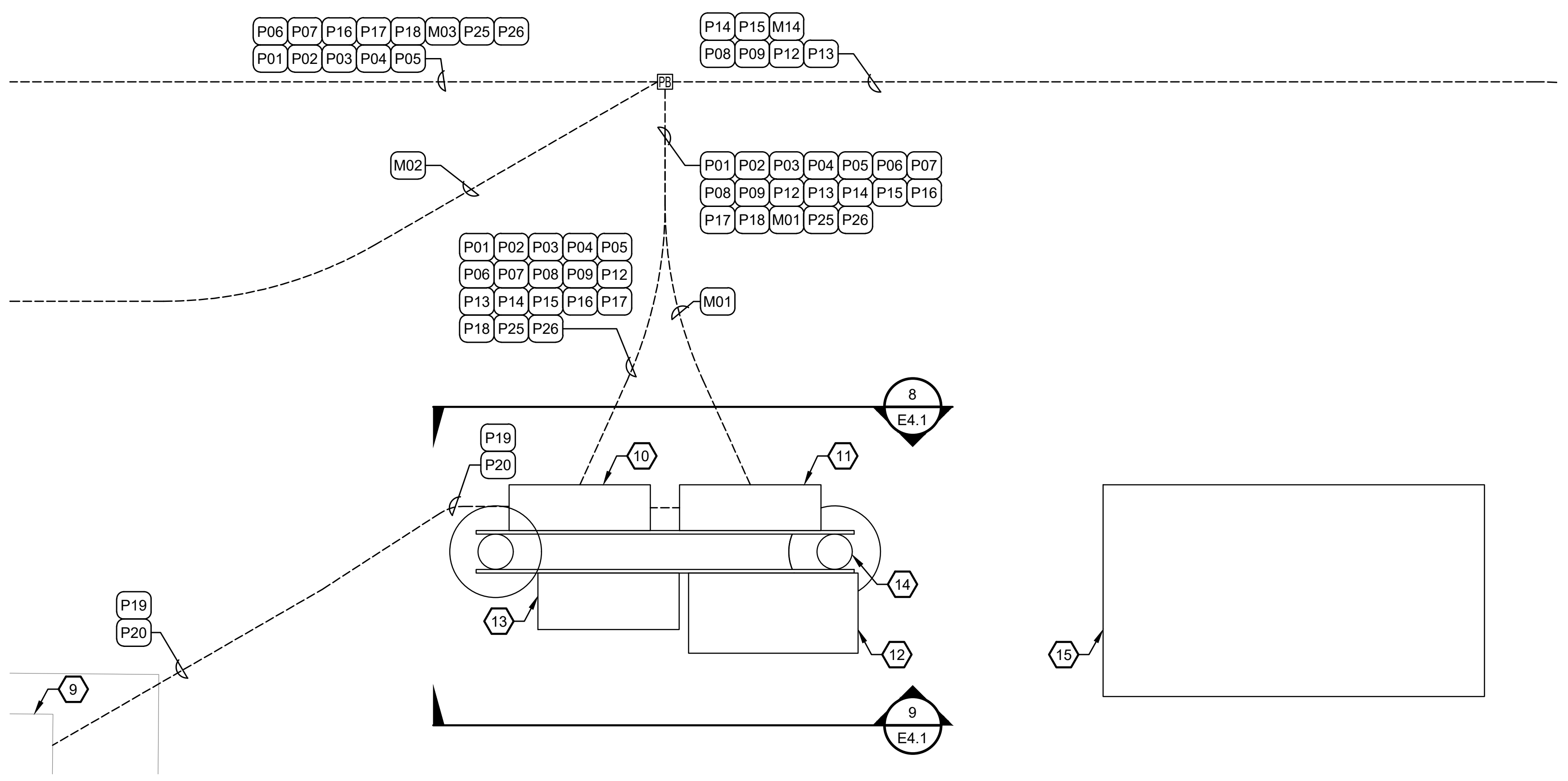
ENLARGED THIRD BASE DUGOUT (SOFTBALL) 6 E2.3

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


5
P18
C1
L1-11
P18
C1
L1-11
P18
C1
L1-11
P18
C1
L1-11
6
6
6
6
L1-1
3
L1-1
3
P18
P01
P01

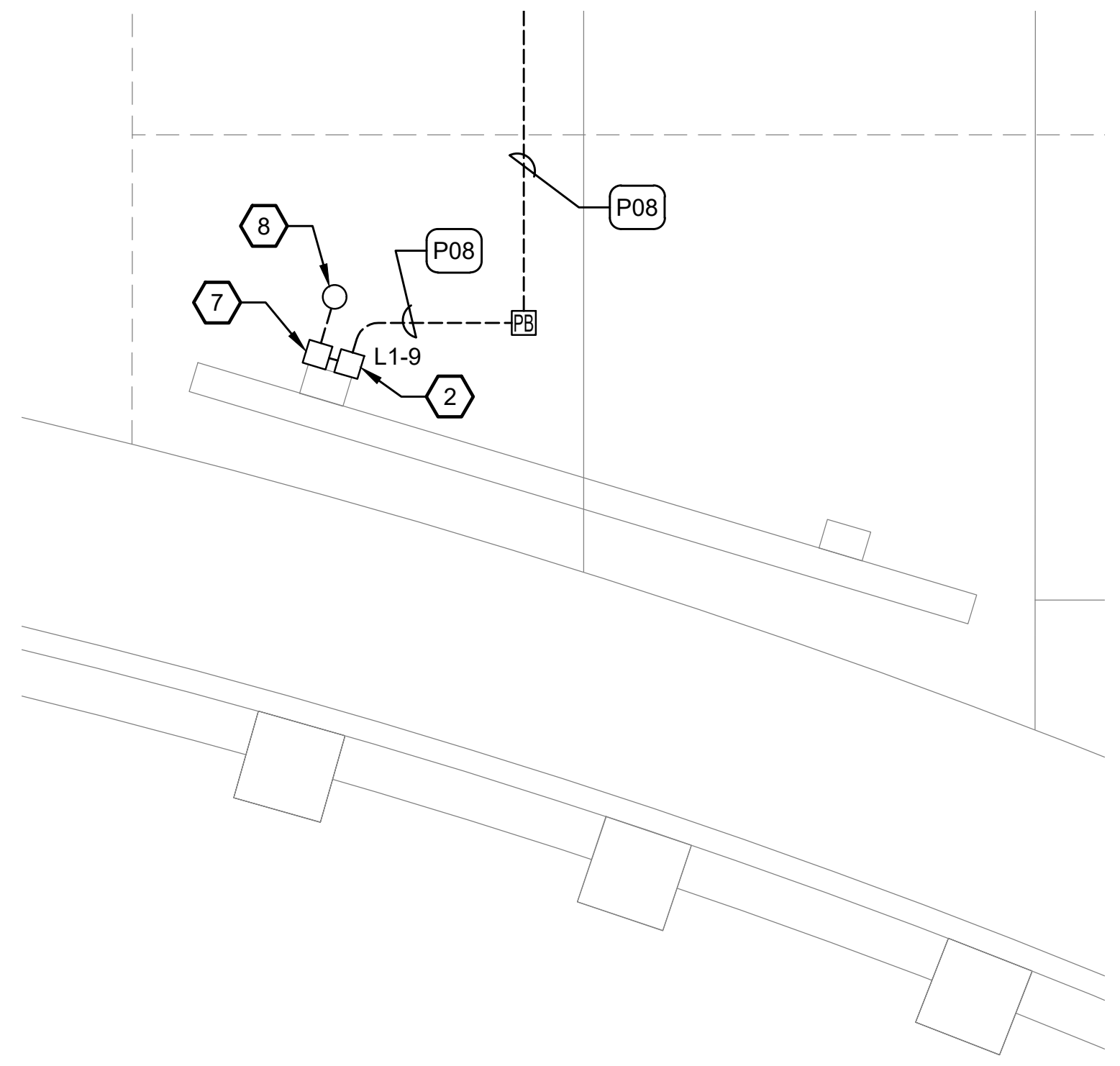
ENLARGED FIRST BASE DUGOUT (SOFTBALL) 7 E2.3

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


P06 P07 P16 P17 P18 M03 P25 P26
P01 P02 P03 P04 P05
P14 P15 M14
P08 P09 P12 P13
M02
P01 P02 P03 P04 P05 P06 P07
P08 P09 P12 P13 P14 P15 P16
P17 P18 M01 P25 P26
P01 P02 P03 P04 P05
P06 P07 P08 P09 P12
P13 P14 P15 P16 P17
P18 P25 P26
M01
8
E4.1
P19
P20
10
11
14
13
12
P19
P20
9
15
9
E4.1

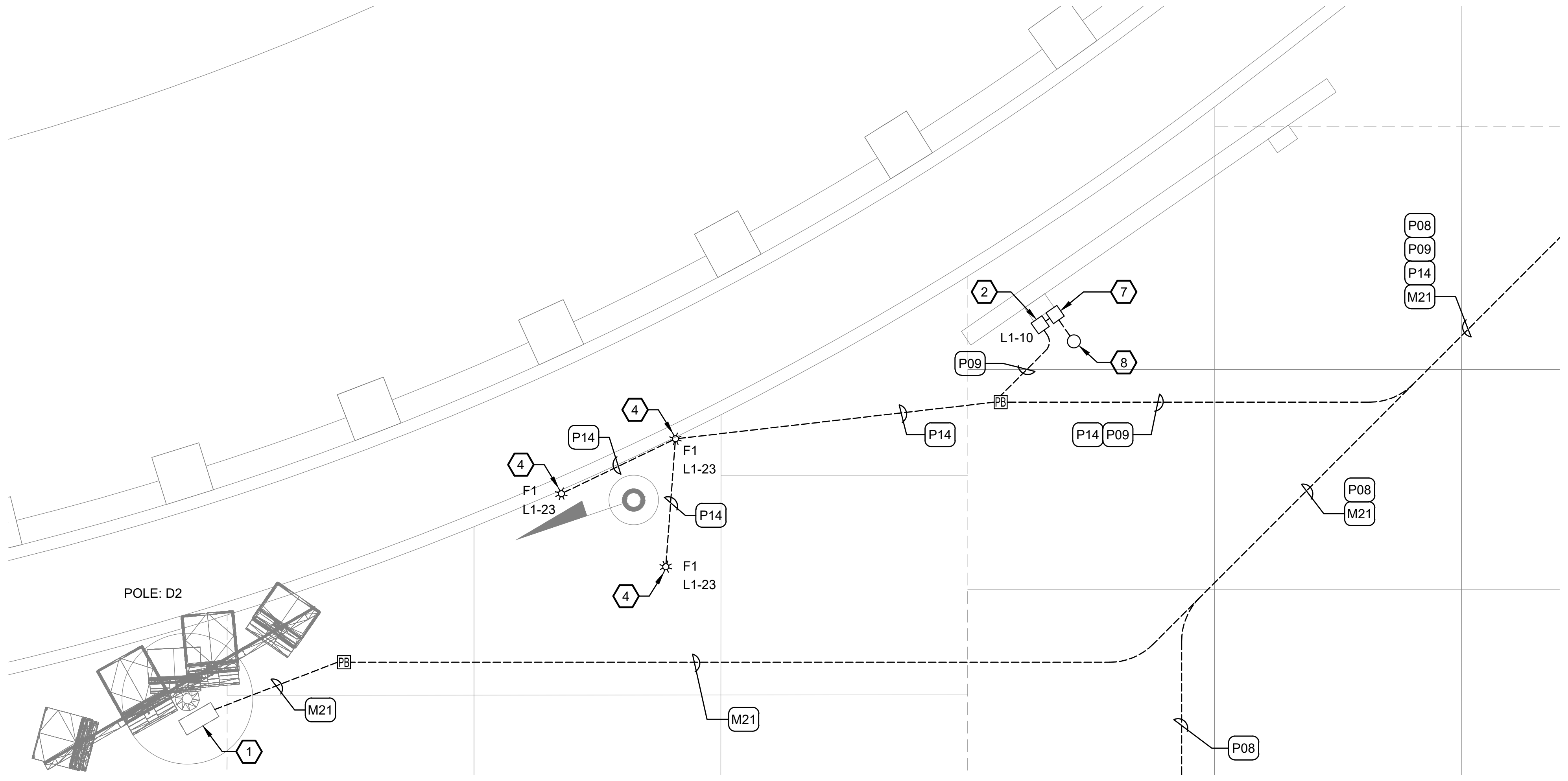
ENLARGED ELECTRICAL RACK STRUCTURE 1 E2.3

SCALE : 3/4" = 1'-0"


P08
8
P08
7
L1-9
2

ENLARGED SCORE BOARD (SOFTBALL) 2 E2.3

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


P08
P09
P14
M21
2
7
L1-10
P09
8
P14
P14 P09
4
P14
F1
L1-23
4
F1
L1-23
P14
F1
L1-23
4
P08
M21
POLE: D2
M21
1
M21
P08

ENLARGED SCORE BOARD (BASEBALL) 3 E2.3

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

KEY NOTES:

1. PROVIDE CONNECTION TO SPORTS LIGHTING PROVIDED BY OTHERS.
2. PROVIDE WEATHERPROOF RECEIVER BOX. ROUTE CONDUIT UP THE SURFACE OF SCOREBOARD SUPPORT BEAM INTO RECEIVER BOX. MOUNT RECEIVER BOX WITH THE TOP OF THE BOX AT 6'-7" ABOVE GRADE. RECEIVER BOX TO FACE SPORTS FIELD AND TO BE WITHIN LINE OF SIGHT OF THE CONTROLLER. REF 5/E4.1.
3. PROVIDE AND INSTALL WEATHERPROOF, GFCI, EXTERIOR OUTLET FOR DUGOUT. OUTLET SHALL BE PROVIDED WITH RAIN-TIGHT "WHILE-IN-USE" LOCKABLE COVER PER C.E.C REQUIREMENTS. OUTLET SHALL BE INSTALLED ON FENCE POST. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH ARCHITECT.
4. PROVIDE CONNECTION TO IN-GROUND FLAG LIGHTING
5. PROVIDE (N) TIMER SWITCH IN NEMA-3R, LOCKABLE, SIDE HINGE B-LINE SERIES GASKET BOX. TIMER SHALL BE WATTSTOPPER "TS-400" TIME SWITCH. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES, CONDUIT, CABLES, ETC. FOR COMPLETE INSTALLATION.
6. PROVIDE CONNECTION TO DUGOUT LIGHT FIXTURES.
7. PROVIDE WEATHERPROOF TOGGLE SWITCH, DISCONNECT PER CEC 600.6. MOUNT SWITCH WITH THE TOP OF THE BOX AT 6'-7" ABOVE GRADE
8. GROUND ROD BOX. SEE DETAIL 3/E4.1.
9. EXISTING MAIN SWITCHBOARD.
10. PANEL L1
11. PANEL SL1
12. MUSCO CONTROL AND MONITORING CABINET
13. NEMA 3R ENCLOSURE WITH TIME CLOCK INSIDE AND MUSCO AUXILIARY LIGHTING CABINET UNDERNEATH.
14. RACK STRUCTURE. SEE DETAILS 8 AND 9 ON SHEET E4.1
15. PAD-MOUNTED INVERTER. SEE DETAIL 6 ON SHEET E4.1.

SHEET NOTES:

1. LIGHT FIXTURE, CIRCUIT, AND PANEL SCHEDULES CAN BE FOUND ON SHEET E0.2

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www.VerdeDesignInc.com

STAMP

NATHAN A. HEARN
No. E 23927
3-31-2026
Nathan A. Hearn
2/19/2026
Date Signed:

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.

SHEET TITLE
ELECTRICAL
ENLARGED PLANS

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY RK	CHECKED BY NH
DATE ISSUED 02/20/2026	SCALE AS SHOWN

PROJ. NO.
2502700

SHEET NO.
E2.3

ELECTRICAL ENLARGED PLANS

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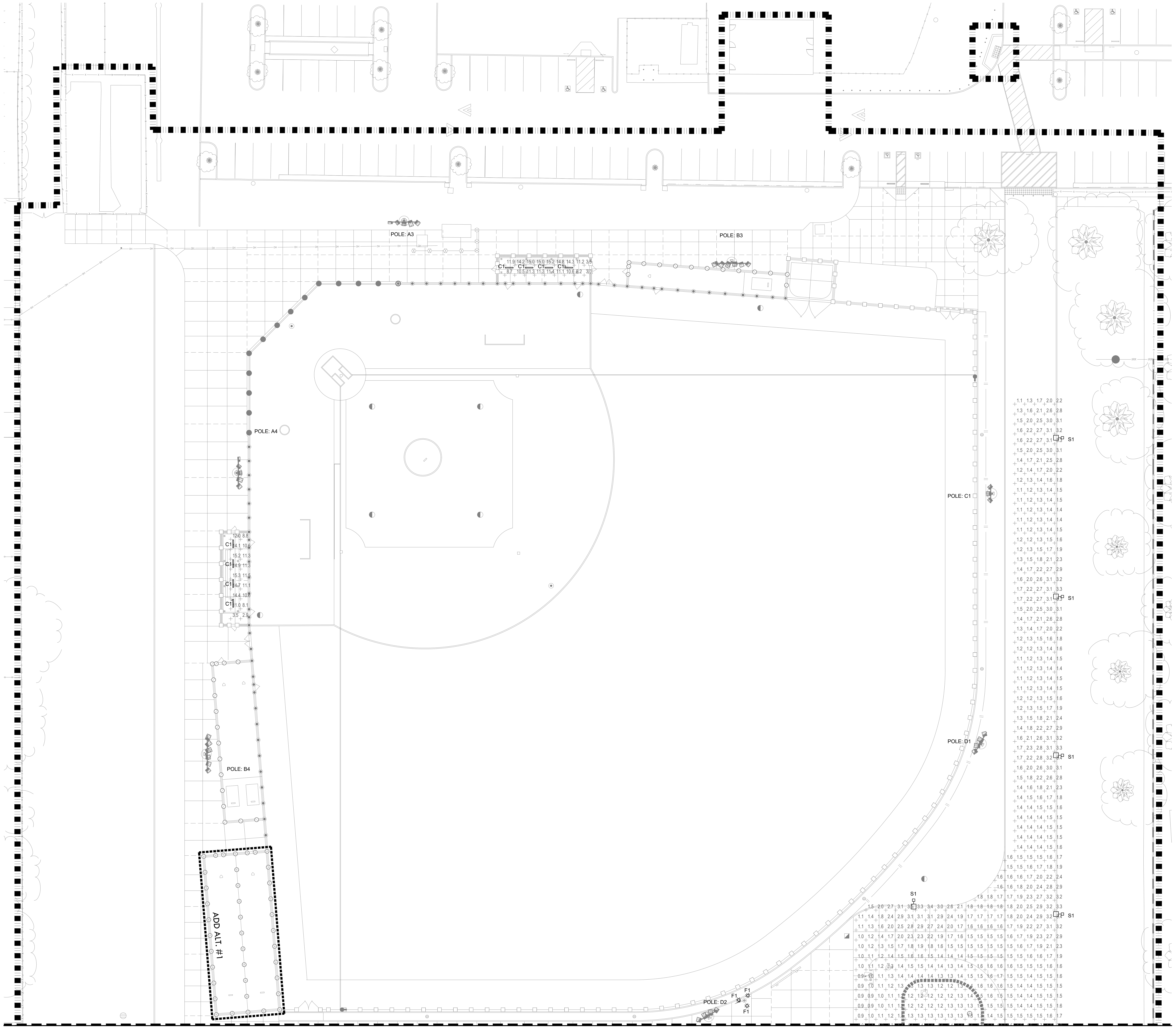
SHEET NOTES:

1. REFER TO SHEET E0.2 FOR LIGHTING FIXTURE SCHEDULE
2. REFER TO EGRESS BLANKET GRID ON MUSCO DRAWING ON SHEET E5.3 FOR ILLUMINATION ALONG THE MEANS OF EGRESS.



MATCHLINE - REFER TO SHEET E3.2

PHOTOMETRIC PARTIAL SITE PLAN

SCALE : 1" = 20'-0"

1
E3.1

N

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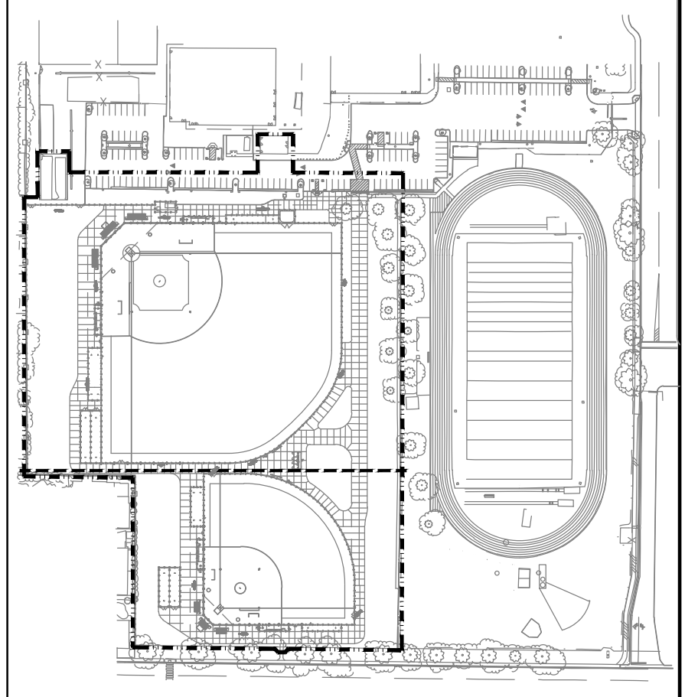
NATHAN A. HEARN
No. E 23927
3-31-2026
ELECTRICAL
Nathan A. Hearn
Date Signed: 2/19/2026

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.



SHEET TITLE
PHOTOMETRIC PARTIAL
SITE PLAN 1

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
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100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY	CHECKED BY
RK	NH
DATE ISSUED 02/20/2026	SCALE 1" = 20'-0"

PROJ. NO.
2502700

SHEET NO.
E3.1

PHOTOMETRIC PARTIAL SITE PLAN 1

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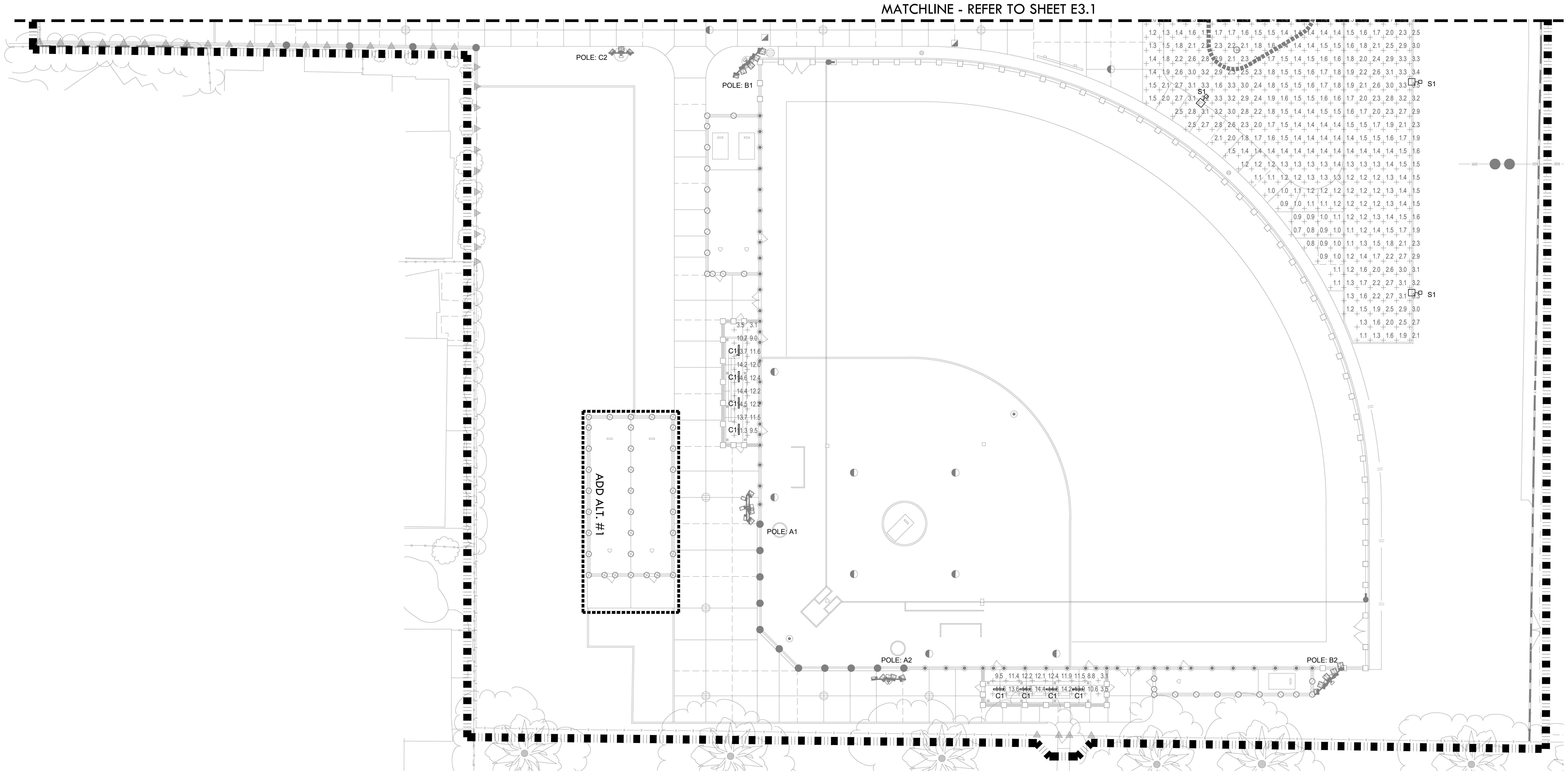
SHEET NOTES:

1. REFER TO SHEET E0.2 FOR LIGHTING FIXTURE SCHEDULE
2. REFER TO EGRESS BLANKET GRID ON MUSCO DRAWING ON SHEET E5.3 FOR ILLUMINATION ALONG THE MEANS OF EGRESS.



PHOTOMETRIC PARTIAL SITE PLAN

SCALE : 1" = 20'-0"

1
E3.2

N

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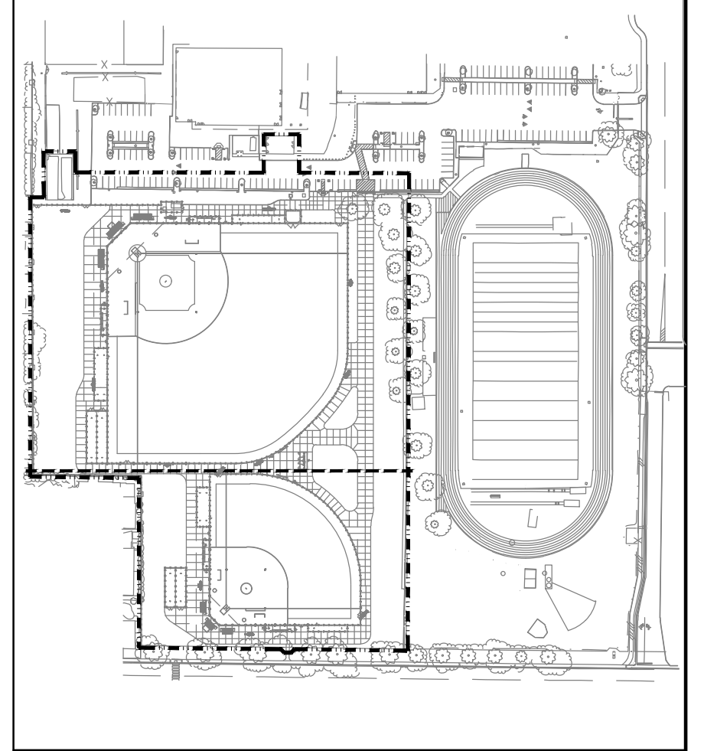
2/19/2026
Date Signed:

CONSULTANT

capital engineering
Rancho Cordova, California

NH - RK/NO 240739.00
PM - DESIGN TEAM PROJECT NO.



SHEET TITLE
PHOTOMETRIC PARTIAL
SITE PLAN 2

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY RK	CHECKED BY NH
DATE ISSUED 02/20/2026	SCALE 1" = 20'-0"

PROJ. NO.
2502700

SHEET NO.
E3.2

PHOTOMETRIC PARTIAL SITE PLAN 2

DRAWING NAME: \\capsac.lan\network\Project_Docs\2024\240739.00\1200 Drawings\1205 AutoCAD Project Files\E3.1-E3.2 PHOTOMETRIC SITE PLAN.dwg
PLOT DATE: 02-19-26 PLOTTED BY: Rustem.Kopbayev

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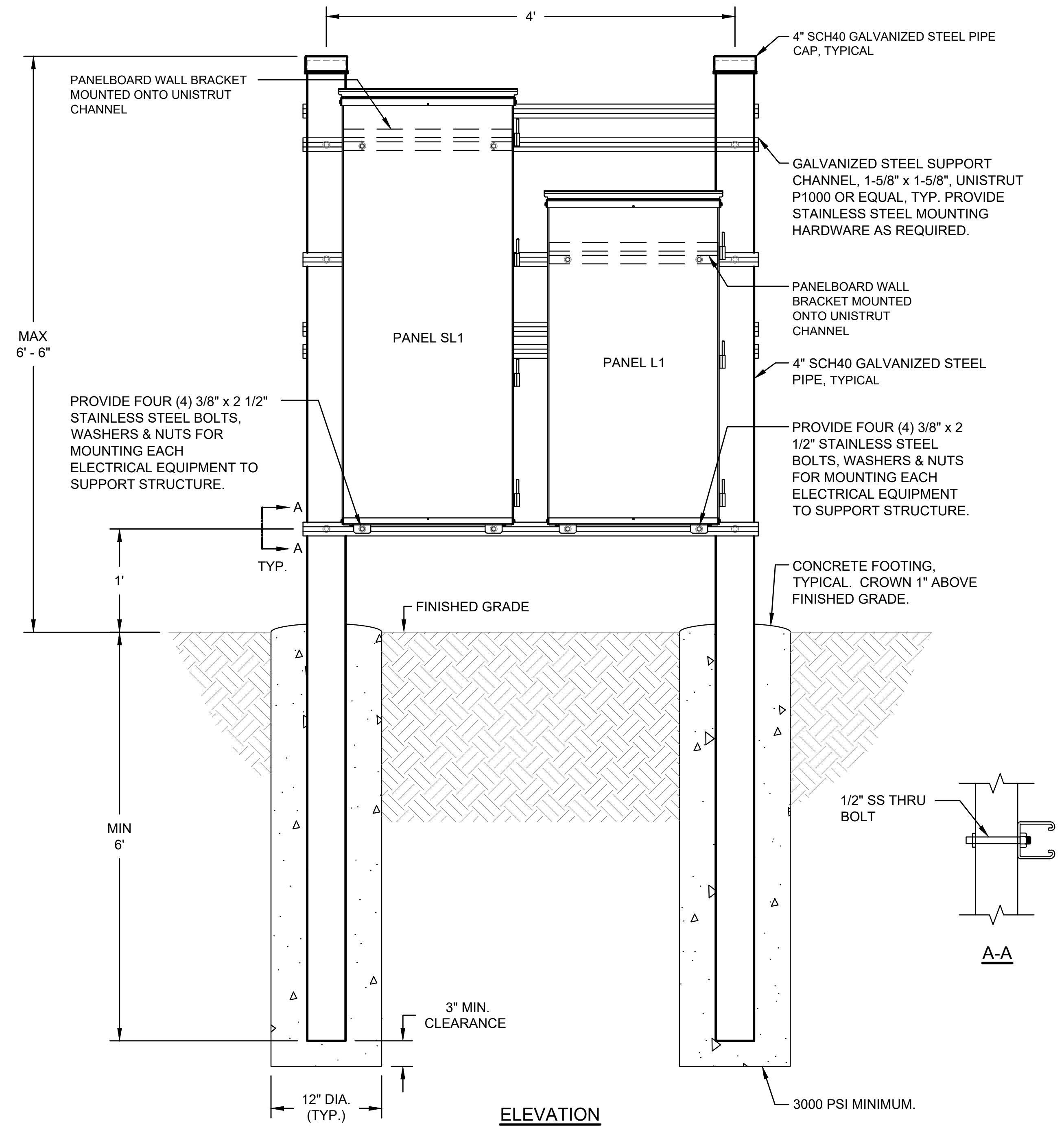
EQUIPMENT SCHEDULE

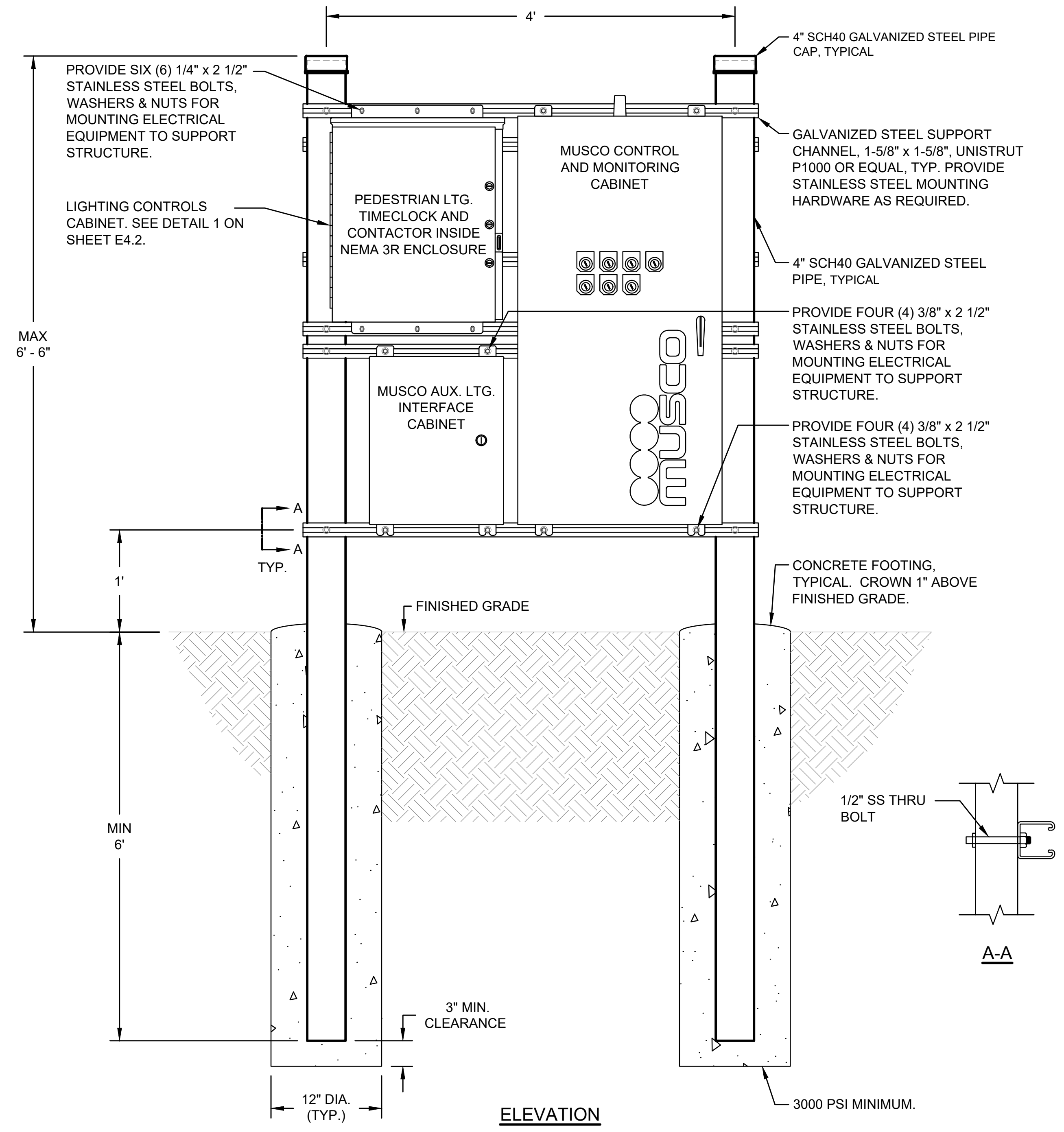
EQUIPMENT	MANUFACTURER	MODEL NAME	LENGTH	WIDTH	HEIGHT	WEIGHT
INVERTER	MYERS	3-CR-7-G-BA2002-BB2005	30"	54"	76"	1693 lbs
208V SL1 PANEL	SCHNEIDER	NQ442L4C + MH50WP	6.5"	20"	50"	115.7 lbs
208V L1 PANEL	SCHNEIDER	NQ442L2C + MH38WP	6.5"	20"	38"	83.62 lbs
MUSCO MONITORING CABINET	MUSCO	N/A	11.38"	24"	48"	140 lbs
MUSCO INTERFACE CABINET	MUSCO	N/A	10"	16"	20"	40 lbs
NEMA 3R ENCLOSURE	HOFFMAN	A20R208HCR	8"	20"	24"	40.8 lbs


4'
4" SCH40 GALVANIZED STEEL PIPE CAP, TYPICAL
PANELBOARD WALL BRACKET MOUNTED ONTO UNISTRUT CHANNEL
GALVANIZED STEEL SUPPORT CHANNEL, 1-5/8" x 1-5/8", UNISTRUT P1000 OR EQUAL, TYP. PROVIDE STAINLESS STEEL MOUNTING HARDWARE AS REQUIRED.
PANELBOARD WALL BRACKET MOUNTED ONTO UNISTRUT CHANNEL
PANEL SL1
PANEL L1
MAX 6' - 6"
4" SCH40 GALVANIZED STEEL PIPE, TYPICAL
PROVIDE FOUR (4) 3/8" x 2 1/2" STAINLESS STEEL BOLTS, WASHERS & NUTS FOR MOUNTING EACH ELECTRICAL EQUIPMENT TO SUPPORT STRUCTURE.
PROVIDE FOUR (4) 3/8" x 2 1/2" STAINLESS STEEL BOLTS, WASHERS & NUTS FOR MOUNTING EACH ELECTRICAL EQUIPMENT TO SUPPORT STRUCTURE.
A
A
TYP.
1'
CONCRETE FOOTING, TYPICAL. CROWN 1" ABOVE FINISHED GRADE.
FINISHED GRADE
MIN 6'
1/2" SS THRU BOLT
A-A
3" MIN. CLEARANCE
12" DIA. (TYP.)
ELEVATION
3000 PSI MINIMUM.

ELECTRICAL EQUIPMENT NORTH ELEVATION DETAIL

SCALE : NO SCALE

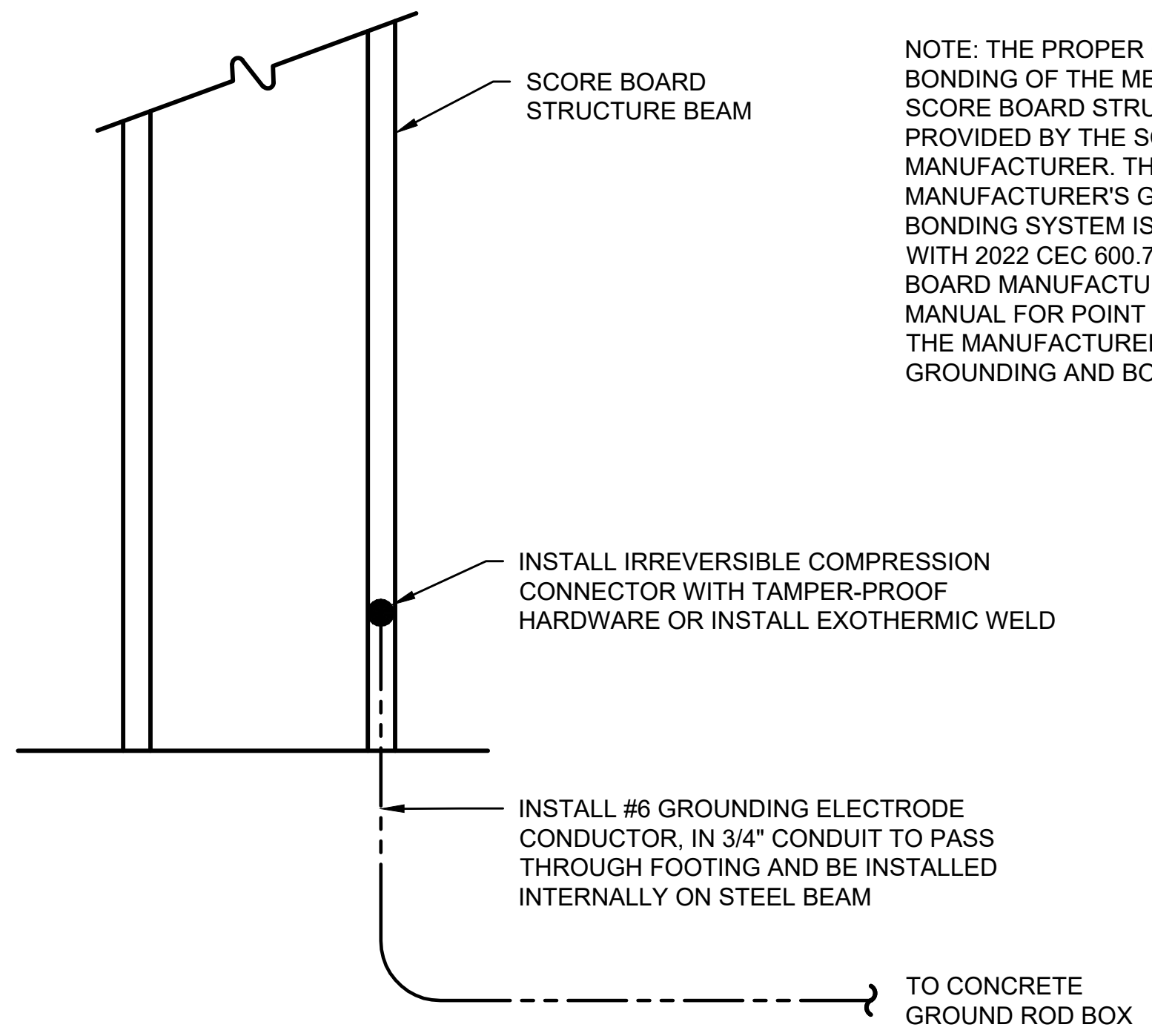
8
E4.1


4'
4" SCH40 GALVANIZED STEEL PIPE CAP, TYPICAL
PROVIDE SIX (6) 1/4" x 2 1/2" STAINLESS STEEL BOLTS, WASHERS & NUTS FOR MOUNTING ELECTRICAL EQUIPMENT TO SUPPORT STRUCTURE.
GALVANIZED STEEL SUPPORT CHANNEL, 1-5/8" x 1-5/8", UNISTRUT P1000 OR EQUAL, TYP. PROVIDE STAINLESS STEEL MOUNTING HARDWARE AS REQUIRED.
MUSCO CONTROL AND MONITORING CABINET
LIGHTING CONTROLS CABINET. SEE DETAIL 1 ON SHEET E4.2.
PEDESTRIAN LTG. TIMECLOCK AND CONTACTOR INSIDE NEMA 3R ENCLOSURE
4" SCH40 GALVANIZED STEEL PIPE, TYPICAL
MAX 6' - 6"
PROVIDE FOUR (4) 3/8" x 2 1/2" STAINLESS STEEL BOLTS, WASHERS & NUTS FOR MOUNTING ELECTRICAL EQUIPMENT TO SUPPORT STRUCTURE.
musco
MUSCO AUX. LTG. INTERFACE CABINET
PROVIDE FOUR (4) 3/8" x 2 1/2" STAINLESS STEEL BOLTS, WASHERS & NUTS FOR MOUNTING ELECTRICAL EQUIPMENT TO SUPPORT STRUCTURE.
A
A
TYP.
1'
CONCRETE FOOTING, TYPICAL. CROWN 1" ABOVE FINISHED GRADE.
FINISHED GRADE
MIN 6'
1/2" SS THRU BOLT
A-A
3" MIN. CLEARANCE
12" DIA. (TYP.)
ELEVATION
3000 PSI MINIMUM.

ELECTRICAL EQUIPMENT SOUTH ELEVATION DETAIL

SCALE : NO SCALE

9
E4.1

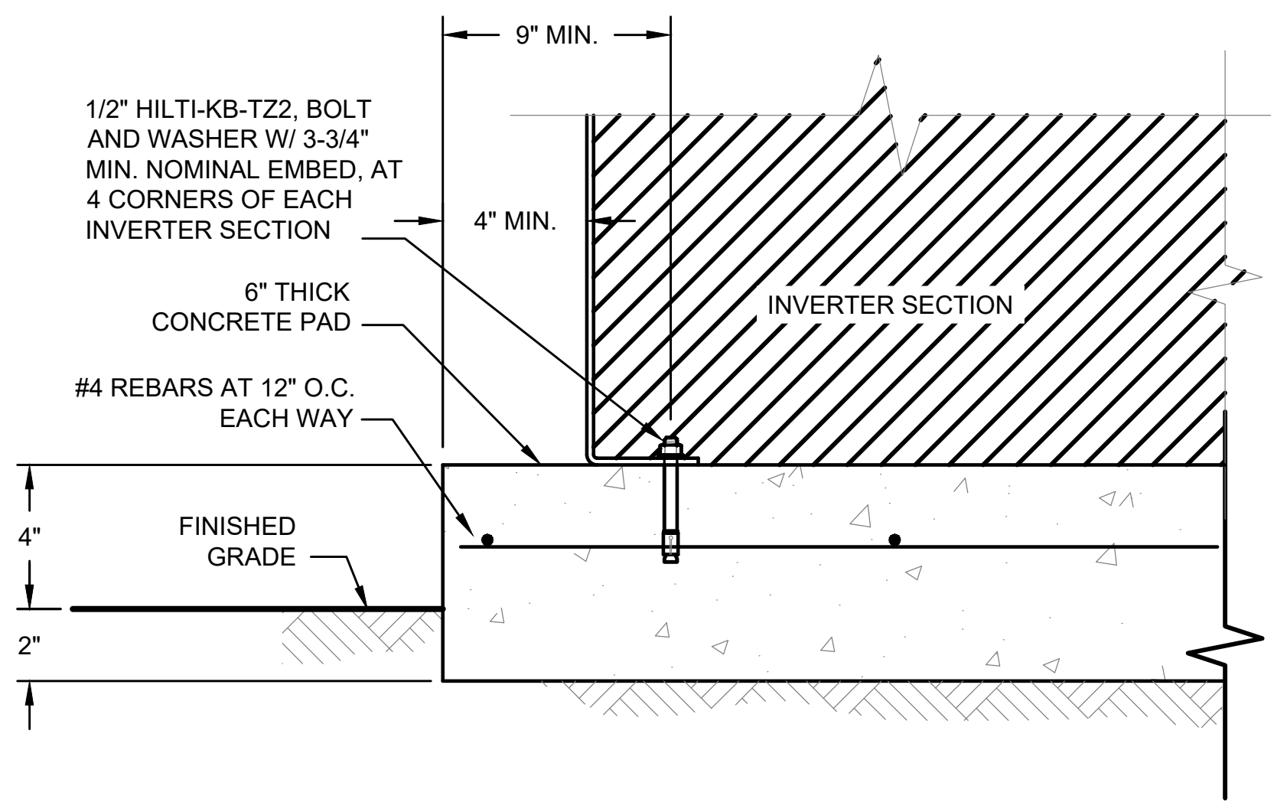

SCORE BOARD STRUCTURE BEAM
INSTALL IRREVERSIBLE COMPRESSION CONNECTOR WITH TAMPER-PROOF HARDWARE OR INSTALL EXOTHERMIC WELD
INSTALL #6 GROUNDING ELECTRODE CONDUCTOR, IN 3/4" CONDUIT TO PASS THROUGH FOOTING AND BE INSTALLED INTERNALLY ON STEEL BEAM
TO CONCRETE GROUND ROD BOX

NOTE: THE PROPER GROUNDING AND BONDING OF THE METAL PARTS AND SCORE BOARD STRUCTURE IS PROVIDED BY THE SCORE BOARD MANUFACTURER. THE SCORE BOARD MANUFACTURER'S GROUNDING AND BONDING SYSTEM IS IN COMPLIANCE WITH 2022 CEC 600.7(B). SEE SCORE BOARD MANUFACTURER INSTALLATION MANUAL FOR POINT OF CONNECTION TO THE MANUFACTURER'S FABRICATED GROUNDING AND BONDING SYSTEM.

SCORE BOARD STEEL GROUNDING SYSTEM DIAGRAM

SCALE : NO SCALE

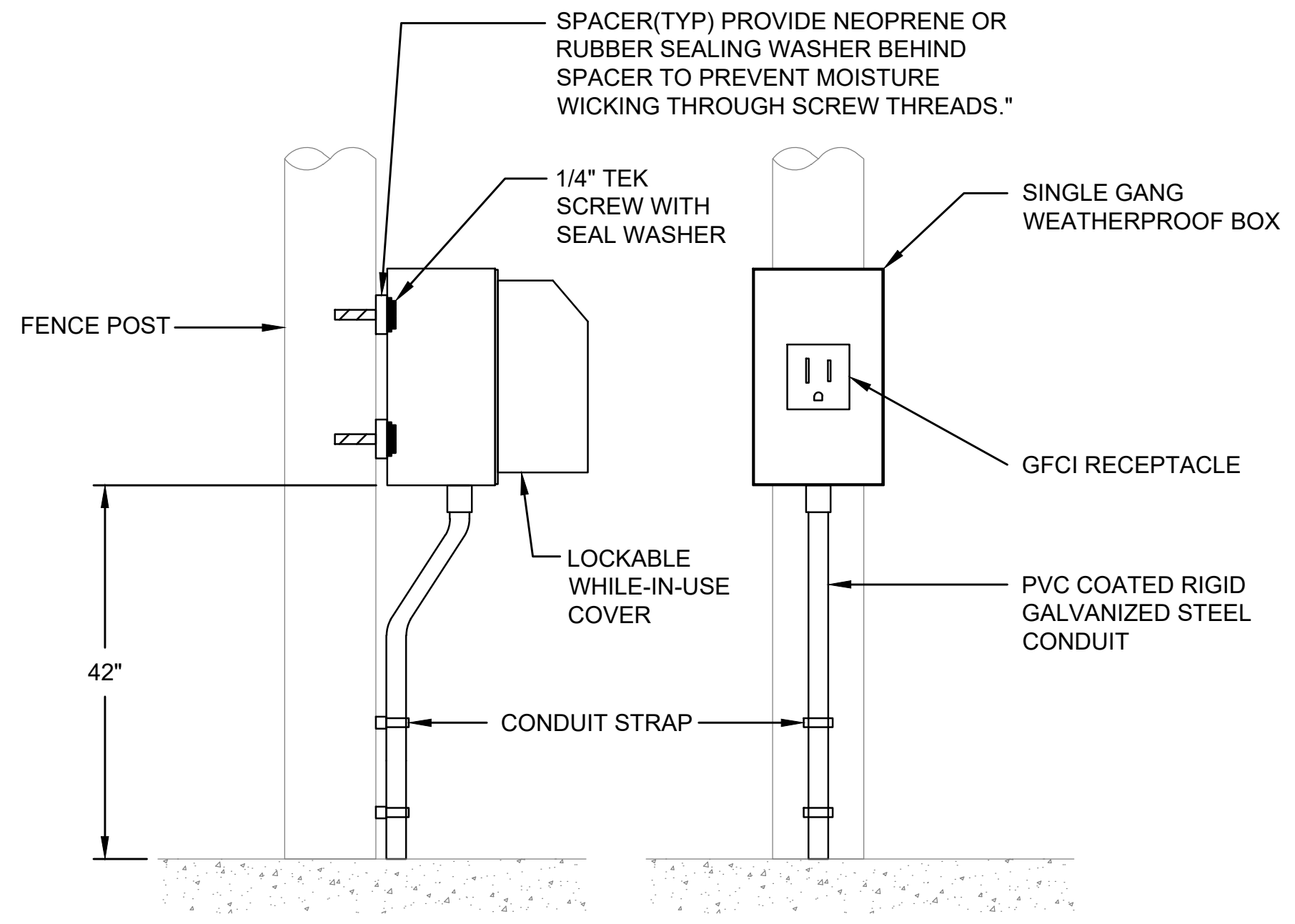
5
E4.1


9" MIN.
1/2" HILTI-KB-TZ2, BOLT AND WASHER W/ 3-3/4" MIN. NOMINAL EMBED, AT 4 CORNERS OF EACH INVERTER SECTION
4" MIN.
INVERTER SECTION
6" THICK CONCRETE PAD
#4 REBARS AT 12" O.C. EACH WAY
4"
FINISHED GRADE
2"

INVERTER PAD MOUNT DETAIL

SCALE : NO SCALE

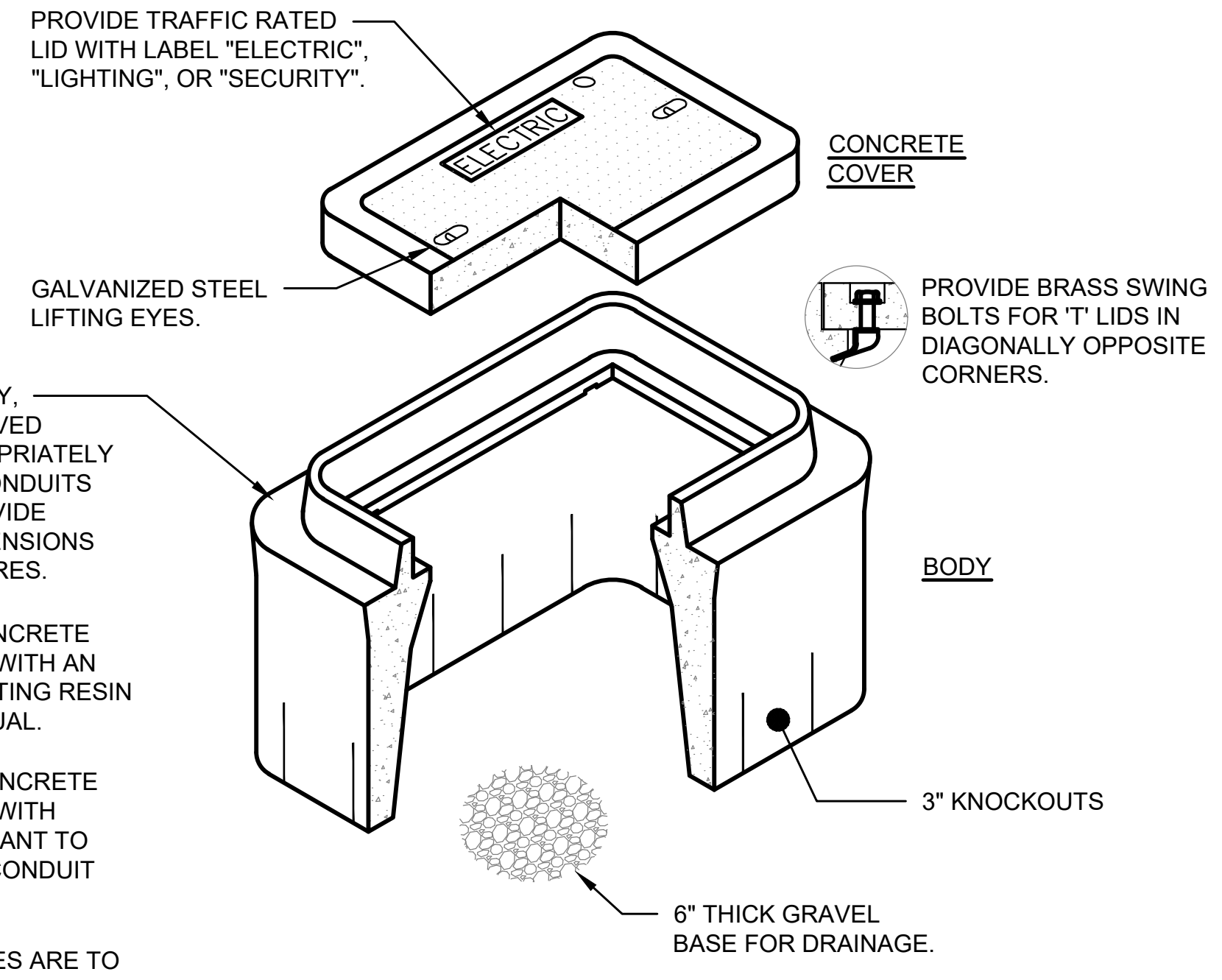
6
E4.1


SPACER(TYP) PROVIDE NEOPRENE OR RUBBER SEALING WASHER BEHIND SPACER TO PREVENT MOISTURE WICKING THROUGH SCREW THREADS."
1/4" TEK SCREW WITH SEAL WASHER
SINGLE GANG WEATHERPROOF BOX
FENCE POST
GFCI RECEPTACLE
LOCKABLE WHILE-IN-USE COVER
PVC COATED RIGID GALVANIZED STEEL CONDUIT
42"
CONDUIT STRAP

RECEPTACLE MOUNTING DETAIL

SCALE : NO SCALE

7
E4.1


PROVIDE TRAFFIC RATED LID WITH LABEL "ELECTRIC", "LIGHTING", OR "SECURITY".
ELECTRIC
CONCRETE COVER
GALVANIZED STEEL LIFTING EYES.
PROVIDE BRASS SWING BOLTS FOR 'T' LIDS IN DIAGONALLY OPPOSITE CORNERS.
BODY
3" KNOCKOUTS
6" THICK GRAVEL BASE FOR DRAINAGE.

CONCRETE PULLBOX, CHRISTY, JENSEN, BROOKS, OR APPROVED EQUAL. SIZE PULLBOX APPROPRIATELY FOR NUMBER AND SIZE OF CONDUITS ENTERING AND EXITING. PROVIDE TRAFFIC RATED LID AND EXTENSIONS WHERE INSTALLATION REQUIRES.

ALL SPLICES WITH-IN THE CONCRETE PULLBOX ARE TO BE SEALED WITH AN INSULATING AND ENCAPSULATING RESIN PACK, SCOTCHCAST 4 OR EQUAL.

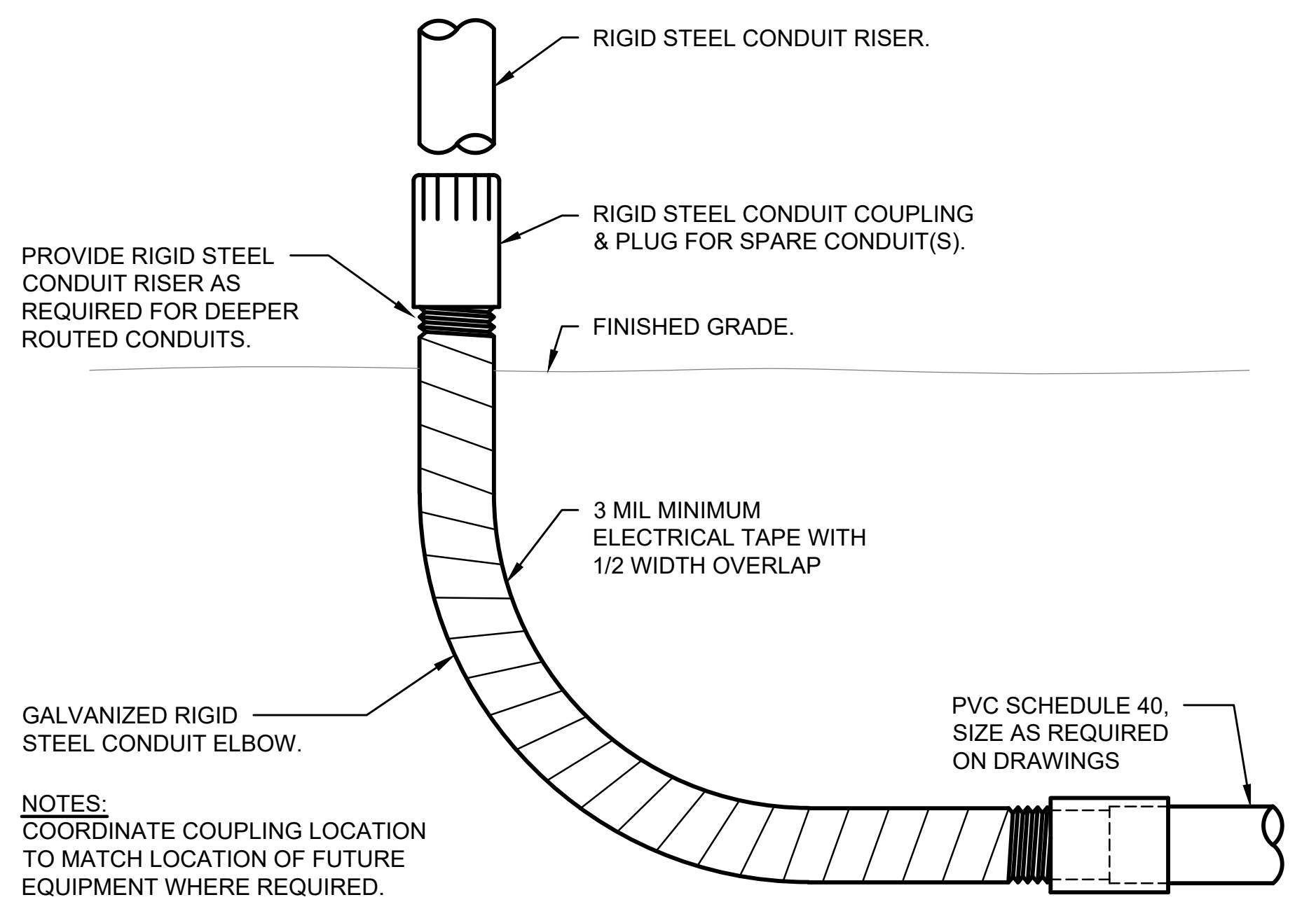
ALL CONDUIT WITH-IN THE CONCRETE PULLBOX ARE TO BE SEALED WITH EXPANDING FOAM DUCT SEALANT TO PREVENT WATER ENTERING CONDUIT SYSTEM.

ALL CONDUCTORS AND CABLES ARE TO BE GROUPED AND WIRE TIED EVERY 6" PER CONDUIT FILL.

TYPICAL CONCRETE PULLBOX DETAIL

SCALE : NO SCALE

1
E4.1

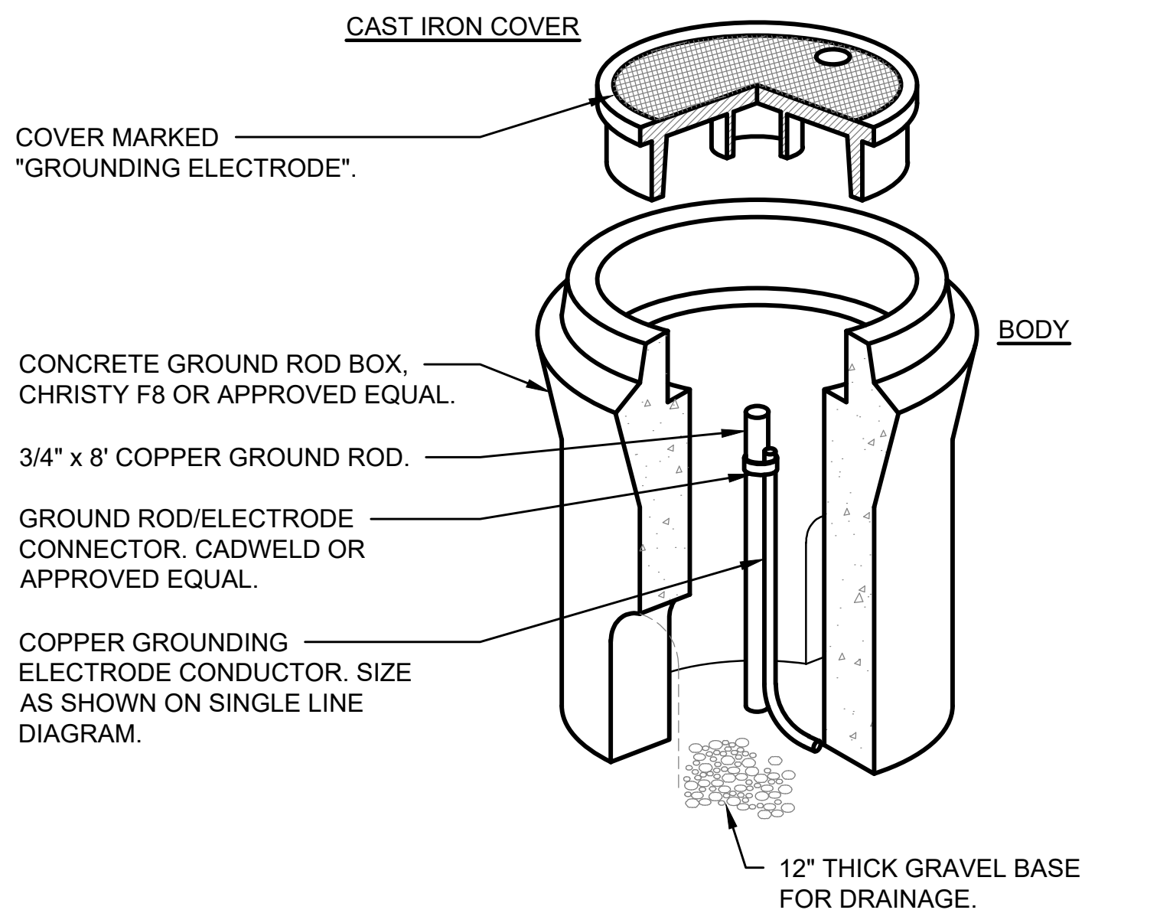

RIGID STEEL CONDUIT RISER.
RIGID STEEL CONDUIT COUPLING & PLUG FOR SPARE CONDUIT(S).
PROVIDE RIGID STEEL CONDUIT RISER AS REQUIRED FOR DEEPER ROUTED CONDUITS.
FINISHED GRADE.
3 MIL MINIMUM ELECTRICAL TAPE WITH 1/2 WIDTH OVERLAP
GALVANIZED RIGID STEEL CONDUIT ELBOW.
PVC SCHEDULE 40, SIZE AS REQUIRED ON DRAWINGS

NOTES:
COORDINATE COUPLING LOCATION TO MATCH LOCATION OF FUTURE EQUIPMENT WHERE REQUIRED.

CONDUIT STUB-UP DETAIL

SCALE : NO SCALE

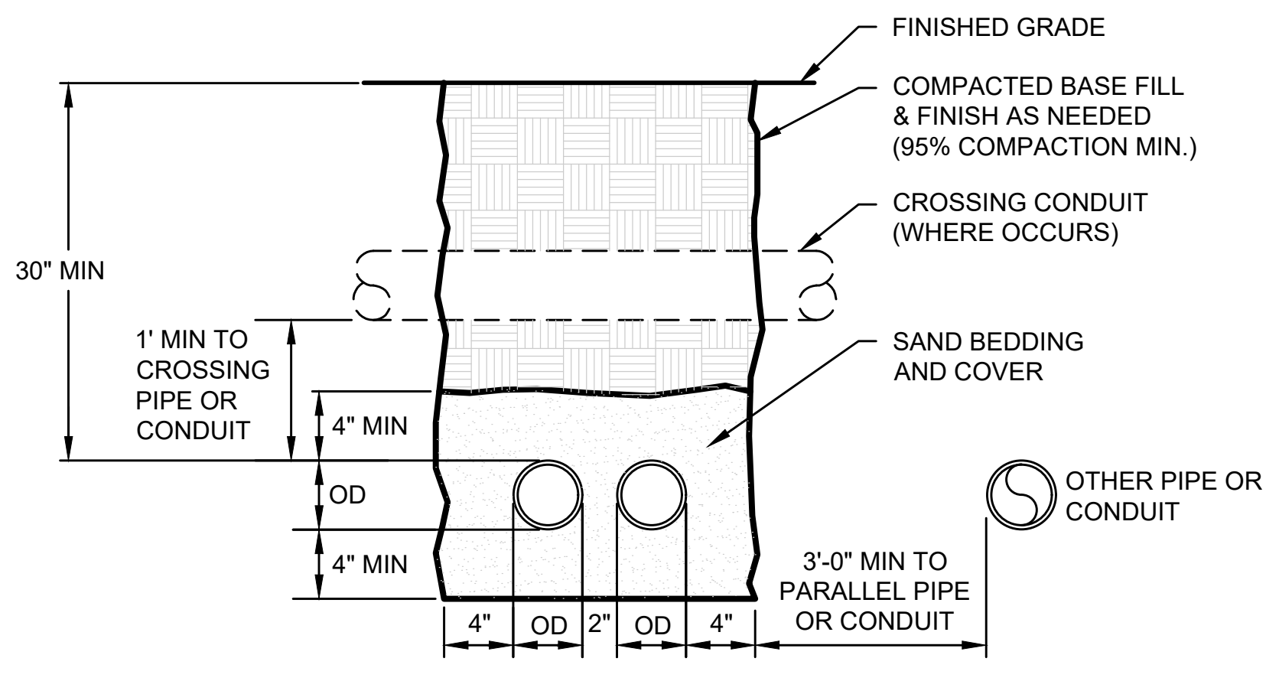
2
E4.1


CAST IRON COVER
COVER MARKED "GROUNDING ELECTRODE".
BODY
CONCRETE GROUND ROD BOX, CHRISTY F8 OR APPROVED EQUAL.
3/4" x 8' COPPER GROUND ROD.
GROUND ROD/ELECTRODE CONNECTOR. CADWELD OR APPROVED EQUAL.
COPPER GROUNDING ELECTRODE CONDUCTOR. SIZE AS SHOWN ON SINGLE LINE DIAGRAM.
12" THICK GRAVEL BASE FOR DRAINAGE.

TYPICAL CONCRETE GROUND ROD BOX DETAIL

SCALE : NO SCALE

3
E4.1


FINISHED GRADE
COMPACTED BASE FILL & FINISH AS NEEDED (95% COMPACTION MIN.)
CROSSING CONDUIT (WHERE OCCURS)
30" MIN
1' MIN TO CROSSING PIPE OR CONDUIT
SAND BEDDING AND COVER
4" MIN
OD
4" MIN
OTHER PIPE OR CONDUIT
3'-0" MIN TO PARALLEL PIPE OR CONDUIT
4"
OD
2"
OD
4"

NOTE:
TRENCHING LOCATED IN PAVED AREAS - ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.

TYPICAL TRENCH DETAIL

SCALE : NO SCALE

4
E4.1

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
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www.VerdeDesignInc.com

STAMP

NATHAN A. HEARN
No. E 23927
3-31-2026
Date Signed: 2/19/2026

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
NH - RK/NO 240739.00
PM - DESIGN TEAM PROJECT NO.

SHEET TITLE
ELECTRICAL DETAILS

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
△		
△		
△		
△		
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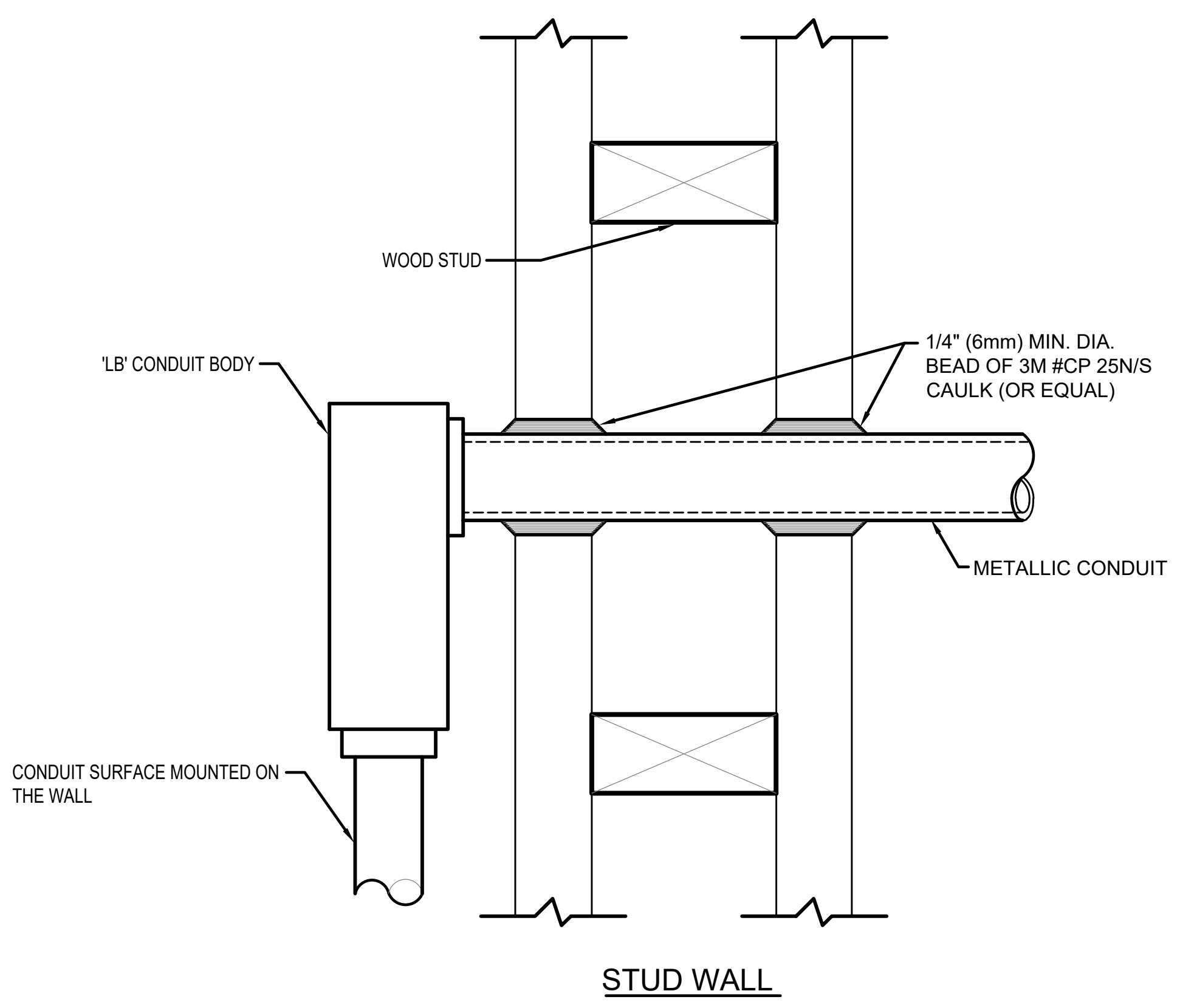
DRAWN BY RK	CHECKED BY NH
DATE ISSUED 02/20/2026	SCALE

PROJ. NO.
2502700

SHEET NO.
E4.1


WOOD STUD
'LB' CONDUIT BODY
1/4" (6mm) MIN. DIA. BEAD OF 3M #CP 25N/S CAULK (OR EQUAL)
METALLIC CONDUIT
CONDUIT SURFACE MOUNTED ON THE WALL
STUD WALL

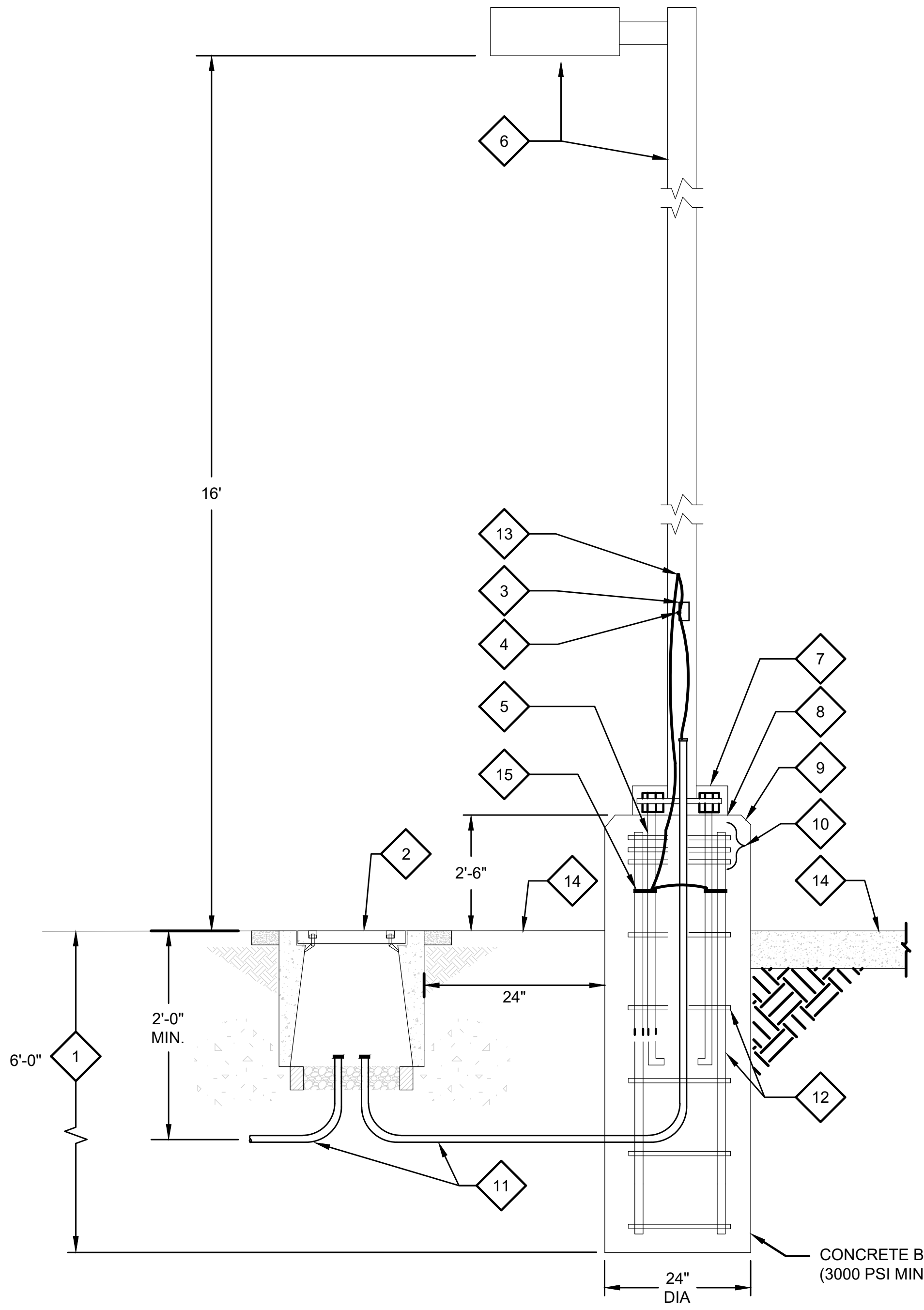
NOTES:

1. THE CAULK IS TO BE FORCED INTO THE ANNULAR SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH WITH THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING WITH A 1/4" (6mm) MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM THE WALL.
3. THE MAXIMUM ANNULAR SPACE IS NOT TO EXCEED 3/16" (5mm).
4. INSTALL 3M FIRESTOP ON BOTH SIDES OF THE WALL.
5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASTM E-814 (UL 1479) FIRE TEST AND UL THROUGH-PENETRATION FIRESTOP SYSTEM #WL1001.

WALL CONDUIT PENETRATION DETAIL

SCALE : NO SCALE

5
E4.2


6
16'
13
3
4
5
15
7
8
9
10
14
2
2'-6"
14
24"
2'-0"
MIN.
6'-0"
1
12
11
24"
DIA
CONCRETE BASE
(3000 PSI MINIMUM)

APPLICABLE AT PARKING LOTS

KEY NOTES:

1. PROVIDE 6' DEPTH. COORDINATE CONCRETE BASE SIZE WITH STRUCTURAL ENGINEER.
2. UNDERGROUND PULL BOX REQUIRED ADJACENT TO POLE BASE. SEE DETAIL "2/E7.0" FOR INFORMATION ON NUMBER OF PULL BOXES NEEDED AND CONTENTS OF PULL BOXES. SET TOP OF PULL BOX FLUSH WITH FINISHED GRADE.
3. GASKETED HANDHOLE 3FT AFF.
4. CONNECT GROUND WIRE TO GROUNDING LUG OF POLE AT HANDHOLE.
5. 4 - 3/4" DIA. WITH MINIMUM 17" EMBEDMENT ANCHOR BOLTS WITH 4" HOOKS.
6. LIGHT FIXTURE AND/OR POLE PER PLAN AND SPECIFICATION. FIXTURE WIRE THROUGH POLE TO LUMINAIRE TO BE RATED FOR 90C.
7. BASECOVER, SECURE TO POLE AND/OR BASE.
8. PROVIDE 1 1/2" MINIMUM GROUT AROUND THE BASE AFTER PLUMB. SLOPE TO GRADE FOR DRAINAGE.
9. PROVIDE CONCRETE BASE WITH 1/2" CHAMFER. CONCRETE FILL AND SACK FINISH ALL CONCRETE SURFACE IMPERFECTIONS, CAVITIES AND VOIDS ABOVE FINISHED GRADE.
10. PROVIDE (3) #3 REBAR TIES, REINFORCE STEEL HOOPS 2" ON CENTERED WITHIN TOP 5"AREA.
11. CONDUIT PER PLAN.
12. PROVIDE (6) #4 REINFORCE STEEL RODS AND #3 REINFORCE STEEL HOOPS 12" ON CENTER. SIZE PER MANUFACTURER'S STANDARDS.
13. SPLICE GROUND WIRE AND EXTEND TO GROUND CLAMP AT ANCHOR BOLT.
14. FINISHED GRADE OR PAVING PER ARCHITECTURAL DRAWINGS.
15. UL LISTED GROUND CLAMP SUITABLE FOR CONCRETE ENCASEMENT OR DIRECT BURIAL. INSTALL CLAMPS ON ALL ANCHOR BOLTS, TYPICAL.

NOT PART OF THE DSA APPROVAL

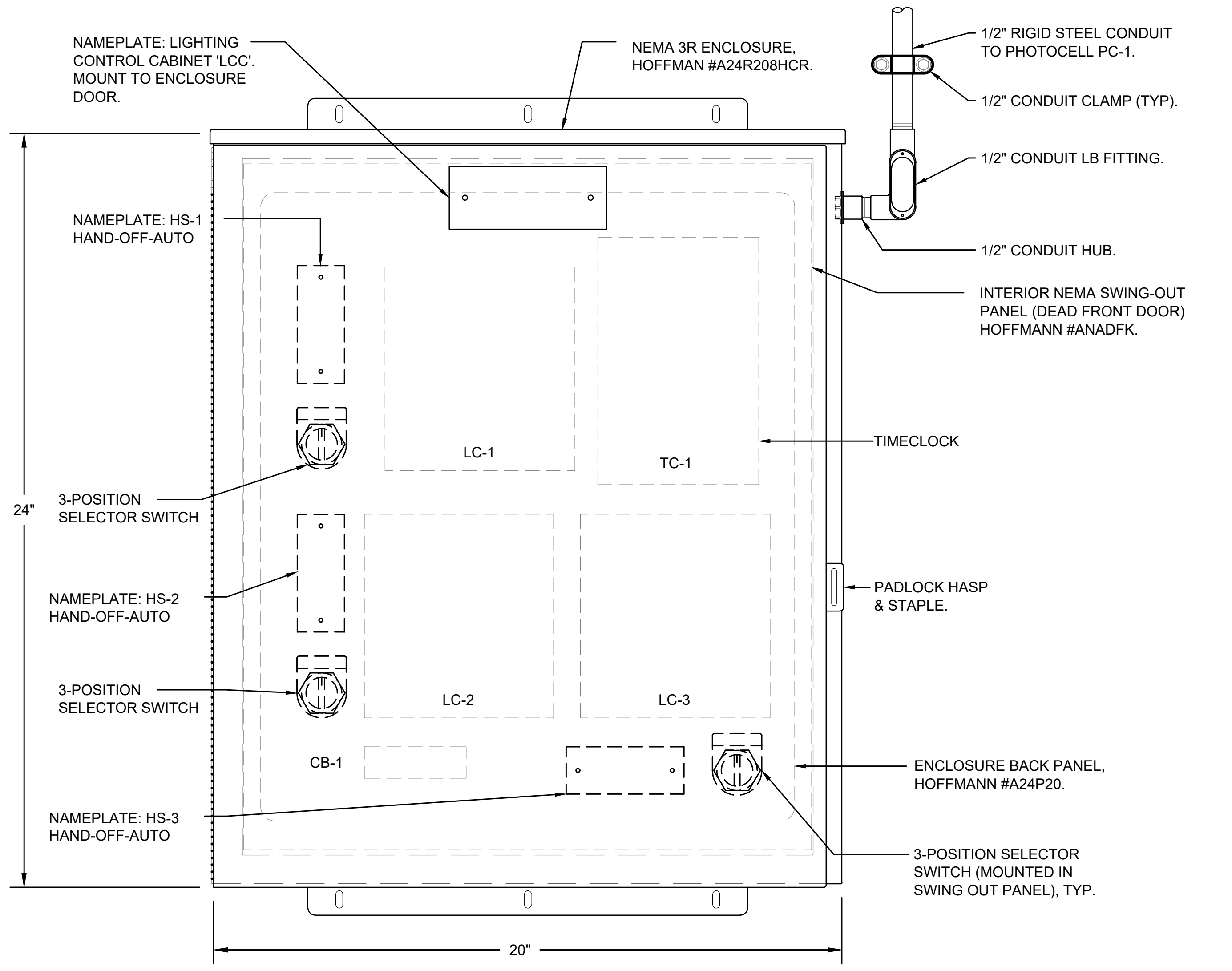
TYPICAL POLE MOUNTED SITE LIGHTING DETAIL

SCALE : NO SCALE

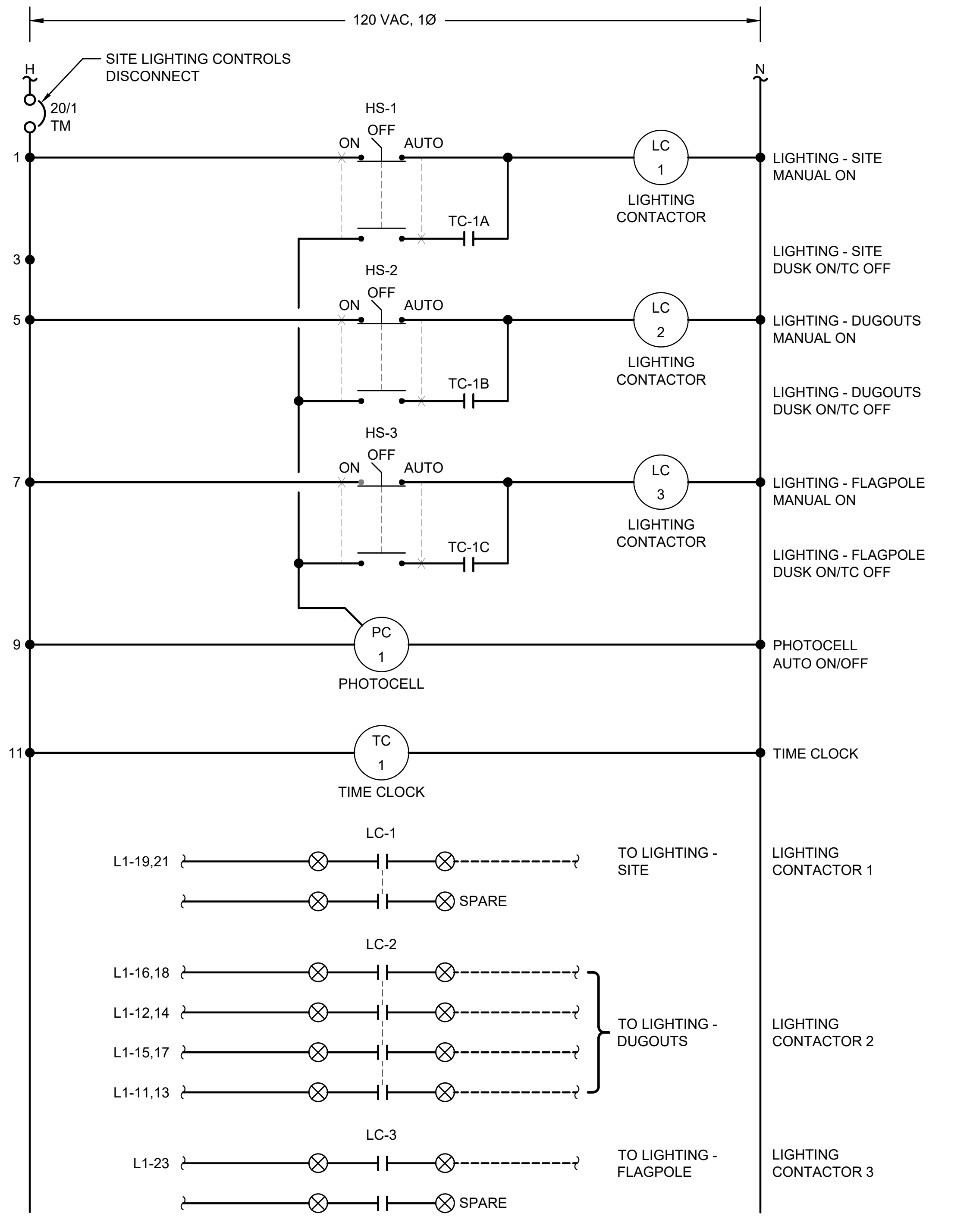
2
E4.2

LCC EQUIPMENT LIST

TAG	EQUIPMENT	MANUFACTURER/MODEL
PC-1	PHOTOCELL	INTERMATIC MODEL ELC4536/K121 OR EQUAL
TC-1	TIMECLOCK. 4 CIRCUIT ASTRONOMIC	INTERMATIC MODEL ET2845C OR EQUAL
HS-X	SELECTOR SWITCH (3-POSITION)	SQUARE D CLASS 9001K OR EQUAL
LC-X	LIGHTING CONTACTOR (4 & 6-POLE, 30 AMP)	SQUARE D CLASS 8903, TYPE L OR EQUAL
CB-1	MINATURE CIRCUIT BREAKER (10 AMP, 120 VAC)	SQUARE D QOB OR EQUAL


NAMEPLATE: LIGHTING CONTROL CABINET 'LCC'. MOUNT TO ENCLOSURE DOOR.
NEMA 3R ENCLOSURE, HOFFMAN #A24R208HCR.
1/2" RIGID STEEL CONDUIT TO PHOTOCELL PC-1.
1/2" CONDUIT CLAMP (TYP).
1/2" CONDUIT LB FITTING.
1/2" CONDUIT HUB.
INTERIOR NEMA SWING-OUT PANEL (DEAD FRONT DOOR) HOFFMANN #ANADFK.
NAMEPLATE: HS-1 HAND-OFF-AUTO
LC-1
TC-1
TIMECLOCK
24"
3-POSITION SELECTOR SWITCH
NAMEPLATE: HS-2 HAND-OFF-AUTO
PADLOCK HASP & STAPLE.
3-POSITION SELECTOR SWITCH
LC-2
LC-3
CB-1
ENCLOSURE BACK PANEL, HOFFMANN #A24P20.
NAMEPLATE: HS-3 HAND-OFF-AUTO
3-POSITION SELECTOR SWITCH (MOUNTED IN SWING OUT PANEL), TYP.
20"

NOTE: SEE LIGHTING CONTROLS CABINET ON DETAIL 9 ON SHEET E4.1 FOR ELEVATION AND ANCHORAGE DETAIL.


120 VAC, 1Ø
H
N
SITE LIGHTING CONTROLS DISCONNECT
20/1
TM
1
3
5
7
9
11
HS-1
OFF
ON
AUTO
TC-1A
LC
1
LIGHTING CONTACTOR
LIGHTING - SITE MANUAL ON
LIGHTING - SITE DUSK ON/TC OFF
HS-2
OFF
ON
AUTO
TC-1B
LC
2
LIGHTING CONTACTOR
LIGHTING - DUGOUTS MANUAL ON
LIGHTING - DUGOUTS DUSK ON/TC OFF
HS-3
OFF
ON
AUTO
TC-1C
LC
3
LIGHTING CONTACTOR
LIGHTING - FLAGPOLE MANUAL ON
LIGHTING - FLAGPOLE DUSK ON/TC OFF
PC
1
PHOTOCELL
PHOTOCELL AUTO ON/OFF
TC
1
TIME CLOCK
TIME CLOCK
LC-1
L1-19,21
TO LIGHTING - SITE
LIGHTING CONTACTOR 1
SPARE
LC-2
L1-16,18
L1-12,14
L1-15,17
L1-11,13
TO LIGHTING - DUGOUTS
LIGHTING CONTACTOR 2
LC-3
L1-23
TO LIGHTING - FLAGPOLE
LIGHTING CONTACTOR 3
SPARE

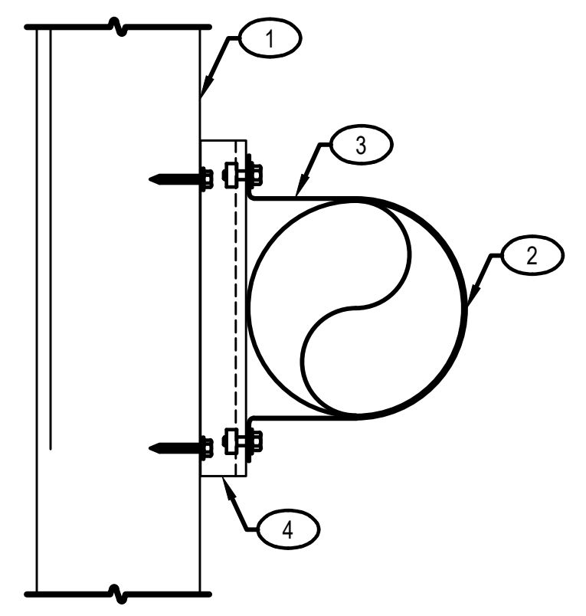
LIGHTING CONTROL CABINET - 'LCC'

SCALE : NO SCALE

1
E4.2

KEY NOTES

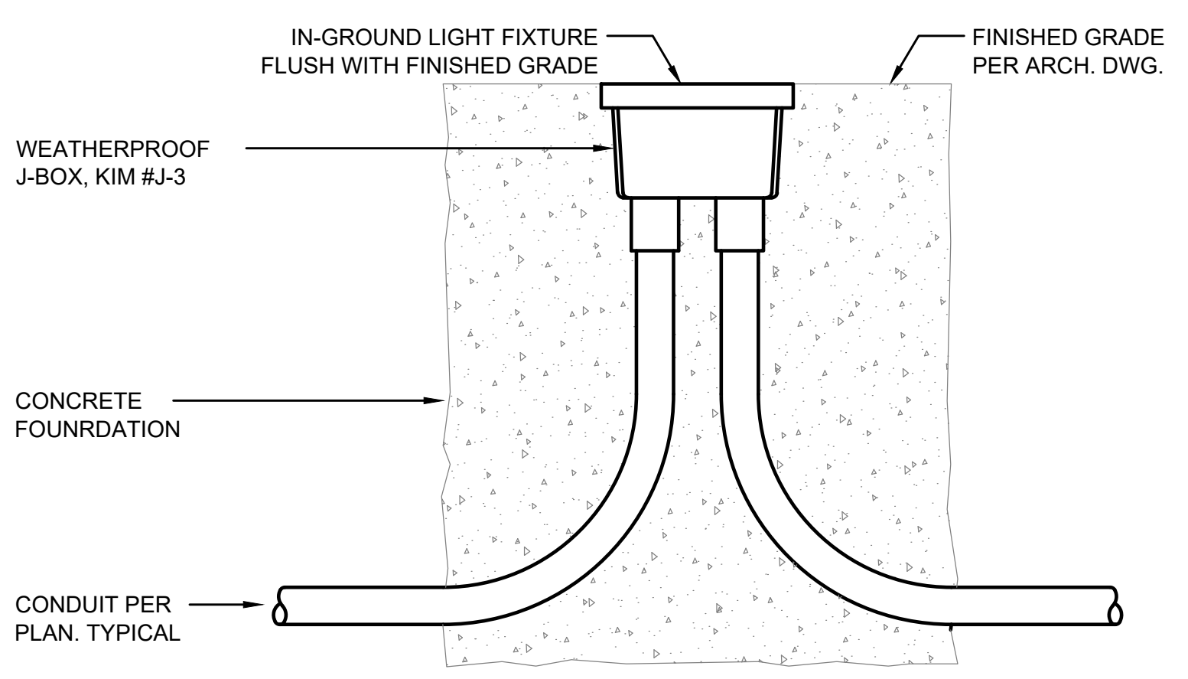
① WOOD FRAMED WALL.
② PIPE, SEE PLAN FOR SIZE.
③ "B-LINE" B3180 SERIES PIPE CLAMP. ATTACH TO CHANNEL W/ CHANNEL NUT AND WASER.
④ "B-LINE" B22 CHANNEL, MIN 12" LONG. ATTACH TO WOOD STUD WALL W/ (2) 5/8"ø LAG BOLTS, MIN 3-1/2" EMBEDMENT., AT 8" O.C.



RACEWAY SUPPORT AT WOOD WALL DETAIL

SCALE : NO SCALE

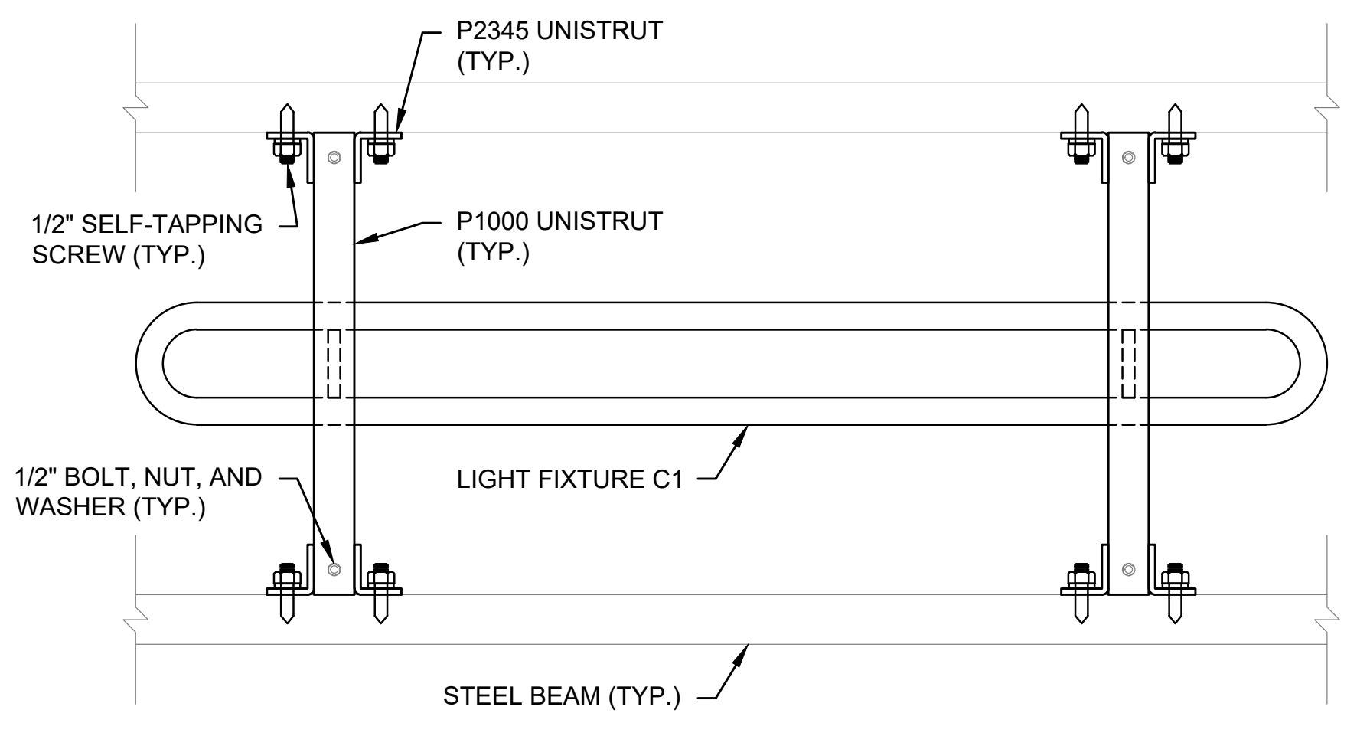
6
E4.2


IN-GROUND LIGHT FIXTURE FLUSH WITH FINISHED GRADE
FINISHED GRADE PER ARCH. DWG.
WEATHERPROOF J-BOX, KIM #J-3
CONCRETE FOUNRDATION
CONDUIT PER PLAN. TYPICAL

IN-GROUND MOUNTED FLAGPOLE FIXTURE

SCALE : NO SCALE

3
E4.2


P2345 UNISTRUT (TYP.)
1/2" SELF-TAPPING SCREW (TYP.)
P1000 UNISTRUT (TYP.)
LIGHT FIXTURE C1
1/2" BOLT, NUT, AND WASHER (TYP.)
STEEL BEAM (TYP.)

SURFACE MOUNTED DUGOUT CEILING FIXTURE

SCALE : NO SCALE

4
E4.2

VERDE DESIGN
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STAMP

NATHAN A. HEARN
No. E 23927
3-31-2026
Nathan A. Hearn
2/19/2026
Date Signed:

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA
NH - RK/NO 240739.00
PM - DESIGN TEAM PROJECT NO.

SHEET TITLE
ELECTRICAL DETAILS

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY RK
CHECKED BY NH
DATE ISSUED 02/20/2026
SCALE
PROJ. NO. 2502700
SHEET NO. E4.2

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Lodi High School Softball And Baseball Field

Lodi,CA

LIGHTING SYSTEM

Structure/Fixture Summary

Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Design Load	Circuit
A1	60'	60'	1	TLC-LED-1200	1.16 kW	A
		60'	1	TLC-LED-550	0.53 kW	D
		60'	2	TLC-LED-550	1.05 kW	A
		60'	2	TLC-LED-900	1.76 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
A2	60'	60'	1	TLC-LED-550	0.53 kW	D
		60'	2	TLC-LED-900	1.76 kW	A
		60'	1	TLC-LED-1200	1.16 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
A3-A4	70'	70'	3	TLC-LED-1200	3.49 kW	B
		70'	1	TLC-LED-550	0.53 kW	D
		70'	1	TLC-LED-1500	1.40 kW	B
		16'	1	TLC-BT-575	0.57 kW	B
B1-B2	70'	70'	1	TLC-LED-900	0.88 kW	A
		70'	4	TLC-LED-1500	5.59 kW	A
		60'	1	TLC-LED-550	0.53 kW	D
		16'	2	TLC-BT-575	1.15 kW	A
B3	90'	90'	5	TLC-LED-1500	6.98 kW	B
		70'	2	TLC-LED-550	1.05 kW	D
		16'	2	TLC-BT-575	1.15 kW	B
B4	80'	80'	2	TLC-LED-550	1.05 kW	D
		80'	2	TLC-LED-900	1.76 kW	B
		80'	4	TLC-LED-1500	5.59 kW	B
		16'	2	TLC-BT-575	1.15 kW	B
C1	70'	70'	2	TLC-LED-900	1.76 kW	B
		70'	1	TLC-LED-1200	1.16 kW	B
		16'	1	TLC-BT-575	0.57 kW	B
C2	70'	70'	1	TLC-LED-1200	1.16 kW	B
		70'	2	TLC-LED-900	1.76 kW	B
		60'	2	TLC-LED-550	1.05 kW	D
		16'	1	TLC-BT-575	0.57 kW	B
D1-D2	70'	70'	1	TLC-LED-900	0.88 kW	B
		70'	3	TLC-LED-1500	4.19 kW	B
		16'	1	TLC-BT-575	0.57 kW	B
12			**79**		**75.47 kW**	

*Fixtures in this design have dimmed output values to meet design specific needs.

Circuit Summary

Circuit	Description	Design Load	Fixture Qty
A	Softball	23.29 kW	24
B	Baseball	45.86 kW	43
D	Egress	6.32 kW	12

Fixture Type Summary

Type	Circuit	Source	Avg. Wattage	Avg. Lumens	L90	L80	L70	Quantity
TLC-BT-575	A	LED 5700K - 75 CRI	575W	52,651	>120,000	>120,000	>120,000	6
TLC-BT-575	B	LED 5700K - 75 CRI	575W	52,651	>120,000	>120,000	>120,000	10
TLC-LED-1200	A	LED 5700K - 75 CRI	1165W	153,800	>120,000	>120,000	>120,000	2
TLC-LED-1200	B	LED 5700K - 75 CRI	1165W	155,133	>120,000	>120,000	>120,000	8
TLC-LED-1500	A	LED 5700K - 75 CRI	1397W	177,936	>120,000	>120,000	>120,000	8
TLC-LED-1500	B	LED 5700K - 75 CRI	1397W	182,897	>120,000	>120,000	>120,000	17
TLC-LED-550	A	LED 5700K - 75 CRI	527W	66,679	>120,000	>120,000	>120,000	2
TLC-LED-550	D	LED 5700K - 75 CRI	527W	67,468	>120,000	>120,000	>120,000	12
TLC-LED-900	A	LED 5700K - 75 CRI	880W	97,647	>120,000	>120,000	>120,000	6
TLC-LED-900	B	LED 5700K - 75 CRI	880W	98,543	>120,000	>120,000	>120,000	8

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

PROJECT SUMMARY

Lodi High School Softball And Baseball Field

Lodi,CA

*Amp draw based on 100% fixture output, consult design specific datasheet for adjusted amperage draw chart

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
BB Batting Cage	Horizontal	7.05	1	18	22.42	8.70	B	43
BB LF Bullpen	Horizontal	23.62	21	27	1.25	1.11	B	43
BB RF Bullpen	Horizontal	24.11	18	30	1.66	1.33	B	43
Baseball (Infield)	Horizontal Illuminance	51.99	36	63	1.76	1.45	B	43
Baseball (Outfield)	Horizontal Illuminance	31.00	19	44	2.28	1.61	B	43
Egress Blanket Grid	Horizontal	1.40	0	26	-	-	D	12
SB Batting Cage	Horizontal	30.42	28	34	1.18	1.07	A	24
SB LF Bullpen	Horizontal	44.47	34	56	1.65	1.31	A	24
SB RF Bullpen	Horizontal	48.86	37	59	1.61	1.33	A	24
Softball (Infield)	Horizontal Illuminance	51.39	35	63	1.81	1.48	A	24
Softball (Outfield)	Horizontal Illuminance	32.18	20	52	2.64	1.63	A	24
Spill 3'	Horizontal	0.25	0	6	-	-	A,B,C,D	79
Spill 5'	Max Candela (by Fixture)	2413.05	6	18315	3028.40	399.00	A,B,C,D	79
Spill 5'	Max Vert Illuminance (by Light Bank)	0.32	0	7	-	-	A,B,C,D	79

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ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

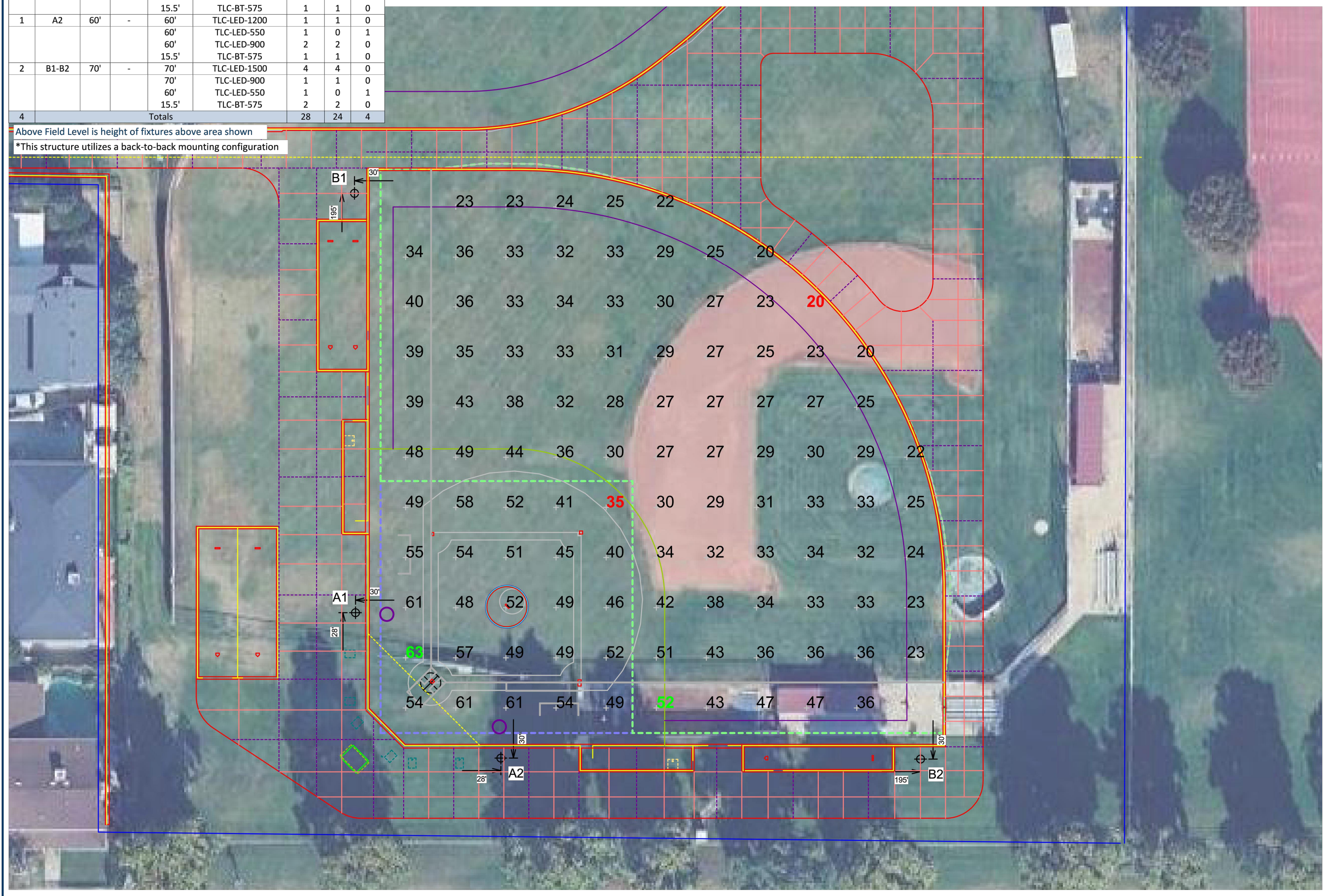
PROJECT SUMMARY

Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	3*	2	1
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	A2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	1	0	1
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	70'	-	70'	TLC-LED-1500	4	4	0
				70'	TLC-LED-900	1	1	0
				60'	TLC-LED-550	1	0	1
				15.5'	TLC-BT-575	2	2	0
4	Totals					28	24	4

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 40

0' 40' 80'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name:	**Softball**
Size:	205'/220'/205' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	**50**	**30**
Scan Average:	51.39	32.18
Maximum:	63	52
Minimum:	35	20
Avg/Min:	1.48	1.63
Guaranteed Max/Min:	**2**	**2.5**
Max/Min:	1.81	2.64
UG (adjacent pts):	1.28	1.56
CU:	0.57	
No. of Points:	25	82
FIXTURE INFORMATION		
Applied Circuits:	A	
No. of Fixtures:	**24**	
Total Load:	23.29 kW	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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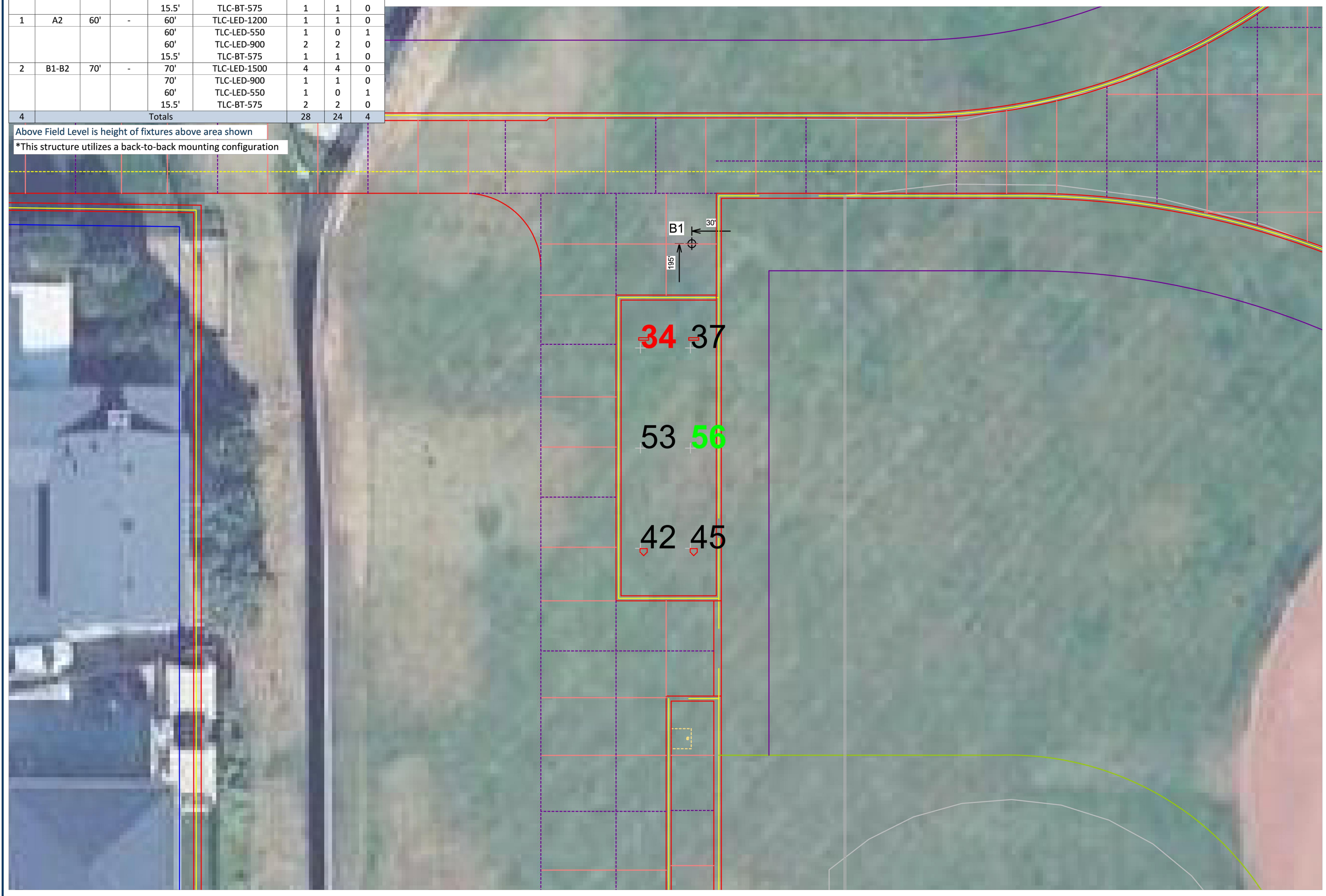
ILLUMINATION SUMMARY

Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	3*	2	1
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	A2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	1	0	1
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	70'	-	70'	TLC-LED-1500	4	4	0
				70'	TLC-LED-900	1	1	0
				60'	TLC-LED-550	1	0	1
				15.5'	TLC-BT-575	2	2	0
4	Totals					28	24	4

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 20

0' 20' 40'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name:	**SB LF Bullpen**
Size:	205'/220'/205' - basepath 60'
Spacing:	10.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**44.47**
Maximum:	56
Minimum:	34
Avg/Min:	1.31
Max/Min:	**1.65**
UG (adjacent pts):	1.57
CU:	0.02
No. of Points:	6
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**24**
Total Load:	23.29 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

ILLUMINATION SUMMARY

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN

1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

NATHAN A. HEARN
No. E 23927
3-31-2026
ELECTRICAL

Nathan A. Hearn
2/19/2026

Date Signed:

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.

SHEET TITLE
MUSCO DESIGN
DRAWINGS

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
△		
△		
△		
△		
△		

DRAWN BY RK	CHECKED BY NH
DATE ISSUED 02/20/2026	SCALE

PROJ. NO.
2502700

SHEET NO.
E5.1

MUSCO DESIGN DRAWINGS

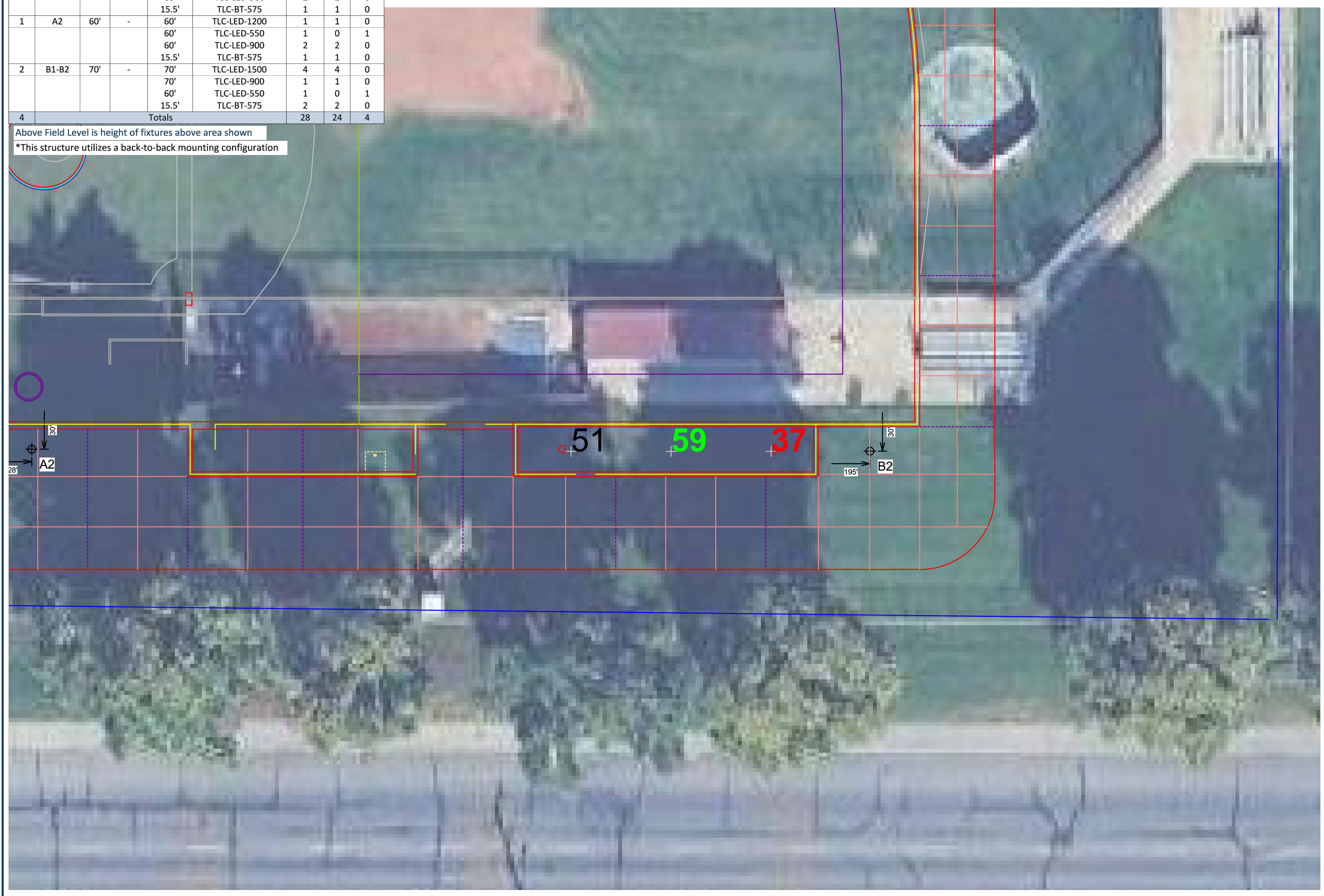
DRAWING NAME: \\capsac.lan\network\Project_Docs\2024\240739.00\1200 Drawings\1205 AutoCAD Project Files\E5.1–E5.4 MUSCO DESIGN DRAWINGS.dwg
PLOT DATE: 02–19–26 PLOTTED BY: Rustem.Kopbayev

Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	3*	2	1
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	A2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	1	0	1
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	70'	-	70'	TLC-LED-1500	4	4	0
				70'	TLC-LED-900	1	1	0
				60'	TLC-LED-550	1	0	1
				15.5'	TLC-BT-575	2	2	0
4	Totals					28	24	4

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 20

0' 20' 40'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name:	**SB RF Bullpen**
Size:	205'/220'/205' - basepath 60'
Spacing:	20.0' x 10.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**48.86**
Maximum:	59
Minimum:	37
Avg/Min:	1.33
Max/Min:	**1.61**
UG (adjacent pts):	1.61
CU:	0.01
No. of Points:	3
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**24**
Total Load:	23.29 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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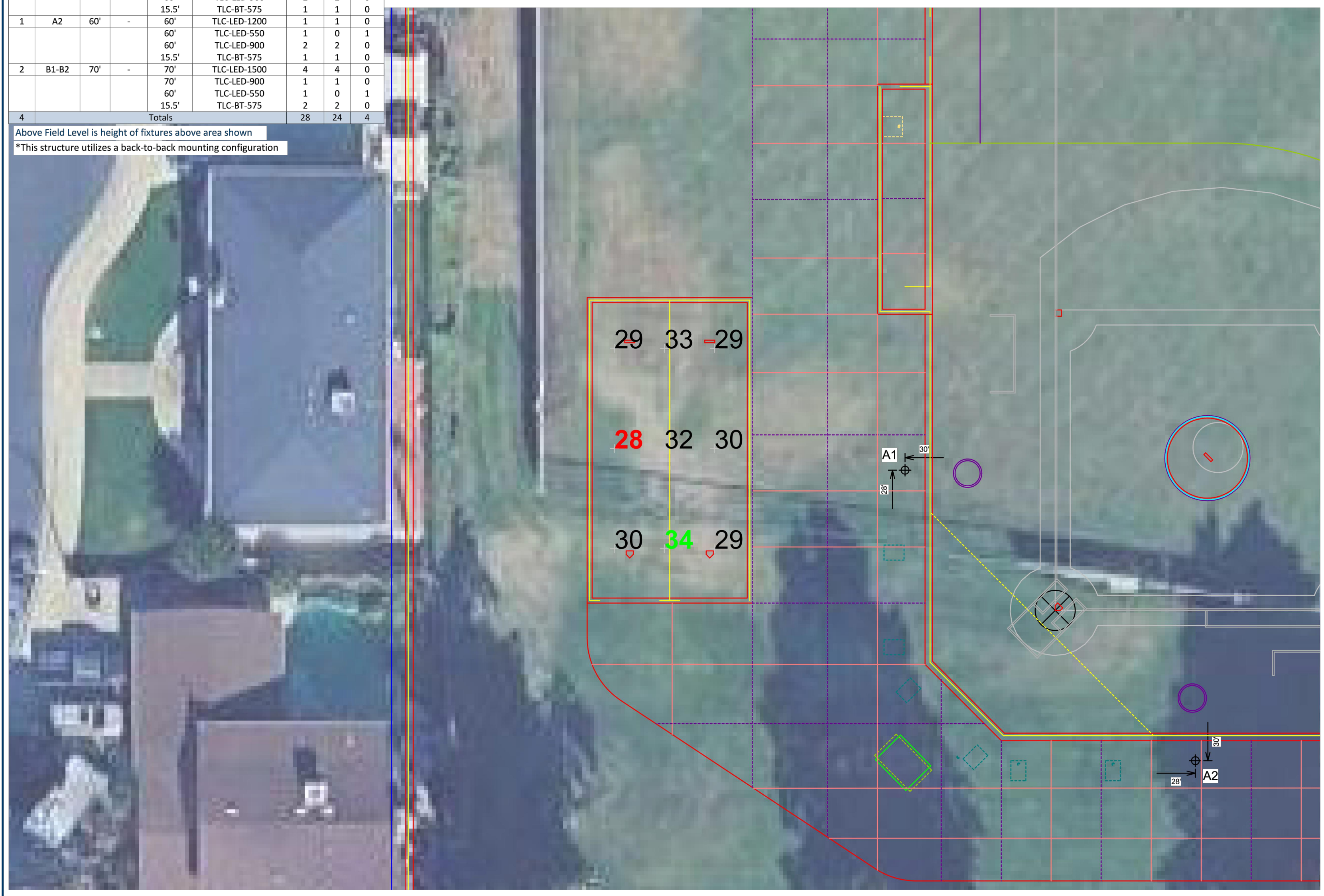
ILLUMINATION SUMMARY

Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A1	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	3*	2	1
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	A2	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-550	1	0	1
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	70'	-	70'	TLC-LED-1500	4	4	0
				70'	TLC-LED-900	1	1	0
				60'	TLC-LED-550	1	0	1
				15.5'	TLC-BT-575	2	2	0
4	Totals					28	24	4

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 20

0' 20' 40'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name:	**SB Batting Cage**
Size:	205'/220'/205' - basepath 60'
Spacing:	10.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**30.42**
Maximum:	34
Minimum:	28
Avg/Min:	1.07
Max/Min:	**1.18**
UG (adjacent pts):	1.15
CU:	0.02
No. of Points:	9
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**24**
Total Load:	23.29 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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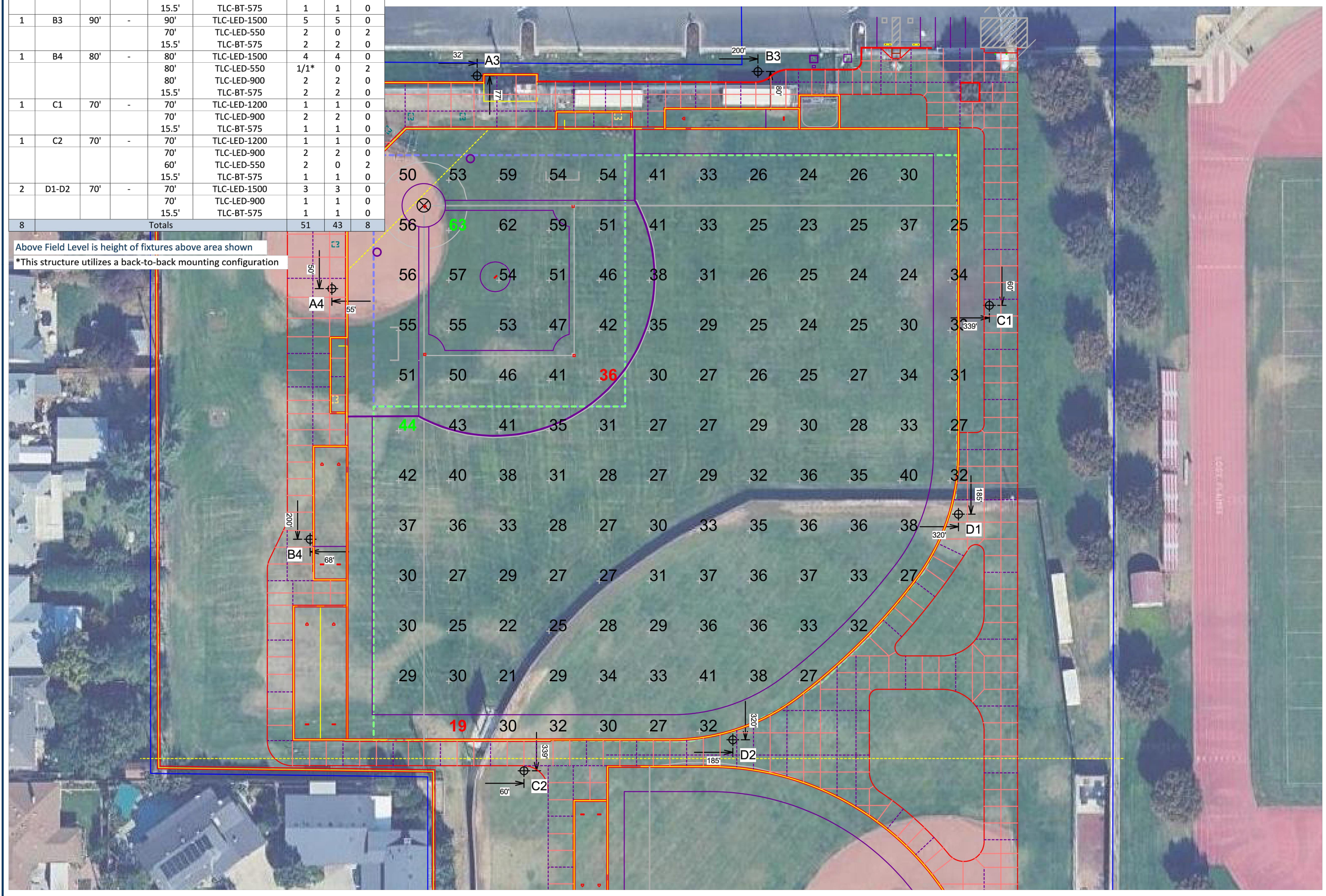
ILLUMINATION SUMMARY

Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A3-A4	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	1	1	0
				70'	TLC-LED-550	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	90'	-	90'	TLC-LED-1500	5	5	0
				70'	TLC-LED-550	2	0	2
				15.5'	TLC-BT-575	2	2	0
1	B4	80'	-	80'	TLC-LED-1500	4	4	0
				80'	TLC-LED-550	1/1*	0	2
				80'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	2	2	0
1	C1	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	C2	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
				60'	TLC-LED-550	2	0	2
				15.5'	TLC-BT-575	1	1	0
2	D1-D2	70'	-	70'	TLC-LED-1500	3	3	0
				70'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
8	Totals					51	43	8

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60

0' 60' 120'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name:	**Baseball**
Size:	Irregular 319'/371'/320'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average:	**50**	**30**
Scan Average:	51.99	31.00
Maximum:	63	44
Minimum:	36	19
Avg/Min:	1.45	1.61
Guaranteed Max/Min:	**2**	**2.5**
Max/Min:	1.76	2.28
UG (adjacent pts):	1.19	1.58
CU:	0.72	
No. of Points:	25	105
FIXTURE INFORMATION		
Applied Circuits:	B	
No. of Fixtures:	**43**	
Total Load:	45.86 kW	

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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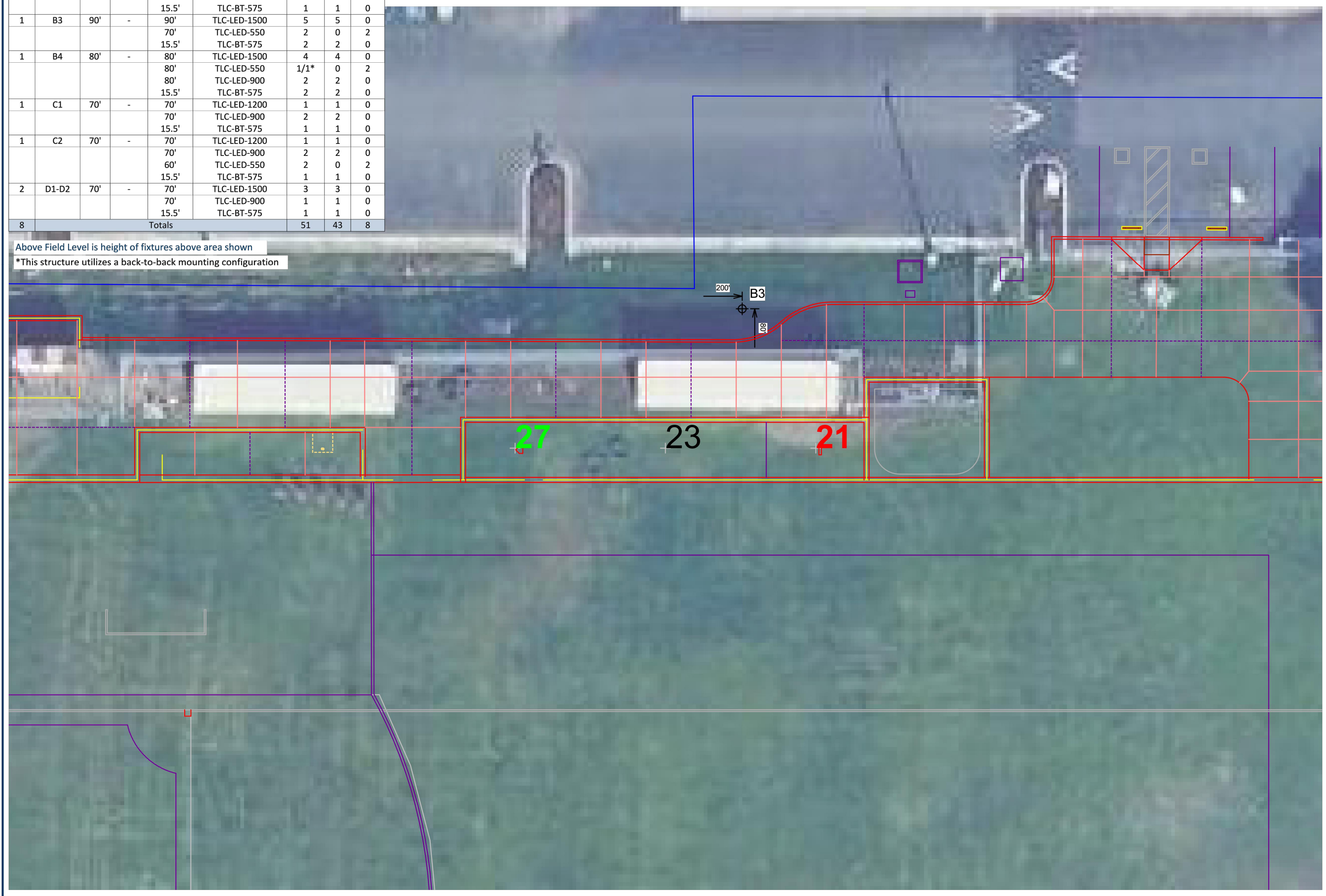
ILLUMINATION SUMMARY

Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A3-A4	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	1	1	0
				70'	TLC-LED-550	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	90'	-	90'	TLC-LED-1500	5	5	0
				70'	TLC-LED-550	2	0	2
				15.5'	TLC-BT-575	2	2	0
1	B4	80'	-	80'	TLC-LED-1500	4	4	0
				80'	TLC-LED-550	1/1*	0	2
				80'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	2	2	0
1	C1	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	C2	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
				60'	TLC-LED-550	2	0	2
				15.5'	TLC-BT-575	1	1	0
2	D1-D2	70'	-	70'	TLC-LED-1500	3	3	0
				70'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
8	Totals					51	43	8

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 20

0' 20' 40'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name:	**BB LF Bullpen**
Size:	Irregular 319'/371'/320'
Spacing:	10.0' x 30.0'
Height:	3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**23.62**
Maximum:	27
Minimum:	21
Avg/Min:	1.11
Max/Min:	**1.25**
UG (adjacent pts):	1.16
CU:	0.00
No. of Points:	3
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	**43**
Total Load:	45.86 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ILLUMINATION SUMMARY

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

NATHAN A. HEARN
No. E 23927
3-31-2026
Nathan A. Hearn
2/19/2026
Date Signed:

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.

SHEET TITLE

MUSCO DESIGN DRAWINGS

PROJECT NAME

LODI HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
△		
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△		

DRAWN BY RK	CHECKED BY NH
DATE ISSUED 02/20/2026	SCALE
PROJ. NO. 2502700	
SHEET NO. E5.2	

MUSCO DESIGN DRAWINGS

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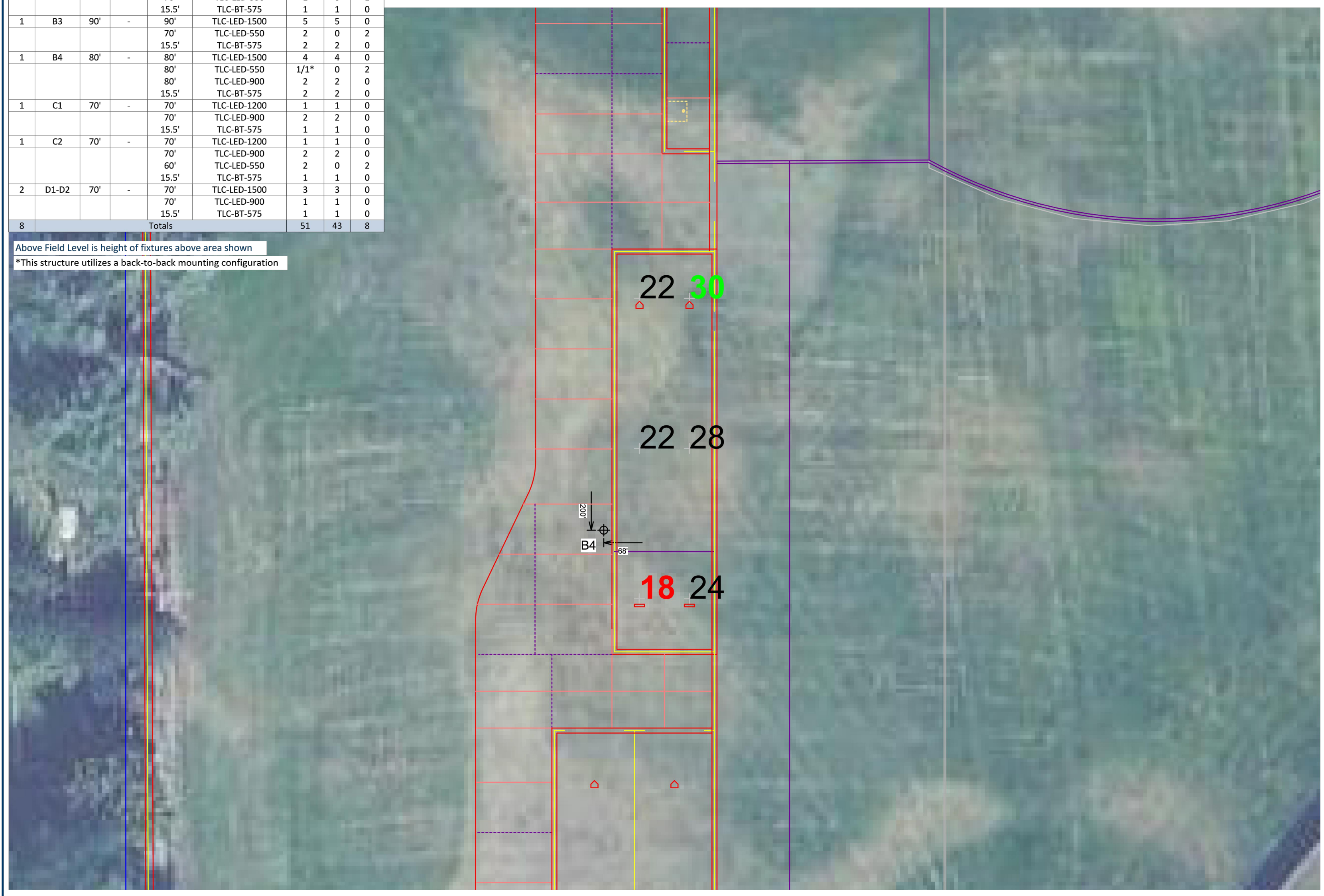
DRAWING NAME: \\capsac.lan\network\Project_Docs\2024\240739.00\1200 Drawings\1205 AutoCAD Project Files\E5.1-E5.4 MUSCO DESIGN DRAWINGS.dwg
PLOT DATE: 02-19-26 PLOTTED BY: Rustem.Kopbayev

Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A3-A4	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	1	1	0
				70'	TLC-LED-550	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	90'	-	90'	TLC-LED-1500	5	5	0
				70'	TLC-LED-550	2	0	2
				15.5'	TLC-BT-575	2	2	0
1	B4	80'	-	80'	TLC-LED-1500	4	4	0
				80'	TLC-LED-550	1/1*	0	2
				80'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	2	2	0
1	C1	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	C2	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
				60'	TLC-LED-550	2	0	2
				15.5'	TLC-BT-575	1	1	0
2	D1-D2	70'	-	70'	TLC-LED-1500	3	3	0
				70'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
8	Totals					51	43	8

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 20
0' 20' 40'

ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name: **BB RF Bullpen**
Size: Irregular 319'/371'/320'
Spacing: 30.0' x 10.0'
Height: 3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**24.11**
Maximum:	30
Minimum:	18
Avg/Min:	1.33
Max/Min:	**1.66**
UG (adjacent pts):	1.35
CU:	0.01
No. of Points:	6
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	**43**
Total Load:	45.86 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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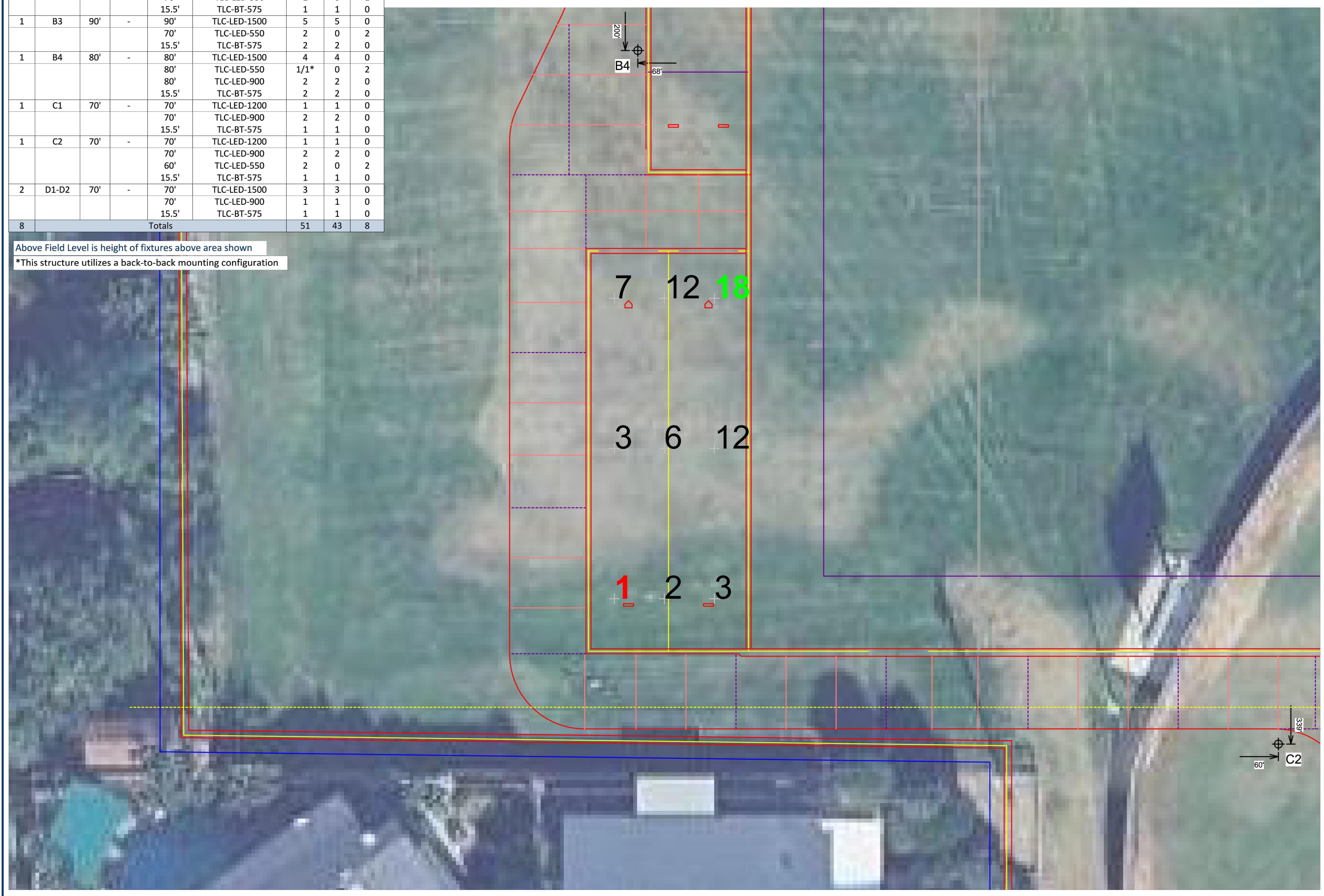
ILLUMINATION SUMMARY

Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A3-A4	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	1	1	0
				70'	TLC-LED-550	1	0	1
				15.5'	TLC-BT-575	1	1	0
1	B3	90'	-	90'	TLC-LED-1500	5	5	0
				70'	TLC-LED-550	2	0	2
				15.5'	TLC-BT-575	2	2	0
1	B4	80'	-	80'	TLC-LED-1500	4	4	0
				80'	TLC-LED-550	1/1*	0	2
				80'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	2	2	0
1	C1	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	C2	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
				60'	TLC-LED-550	2	0	2
				15.5'	TLC-BT-575	1	1	0
2	D1-D2	70'	-	70'	TLC-LED-1500	3	3	0
				70'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
8	Totals					51	43	8

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 20
0' 20' 40'

ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name: **BB Batting Cage**
Size: Irregular 319'/371'/320'
Spacing: 30.0' x 10.0'
Height: 3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**7.05**
Maximum:	18
Minimum:	1
Avg/Min:	8.70
Max/Min:	**22.42**
UG (adjacent pts):	4.22
CU:	0.00
No. of Points:	9
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	**43**
Total Load:	45.86 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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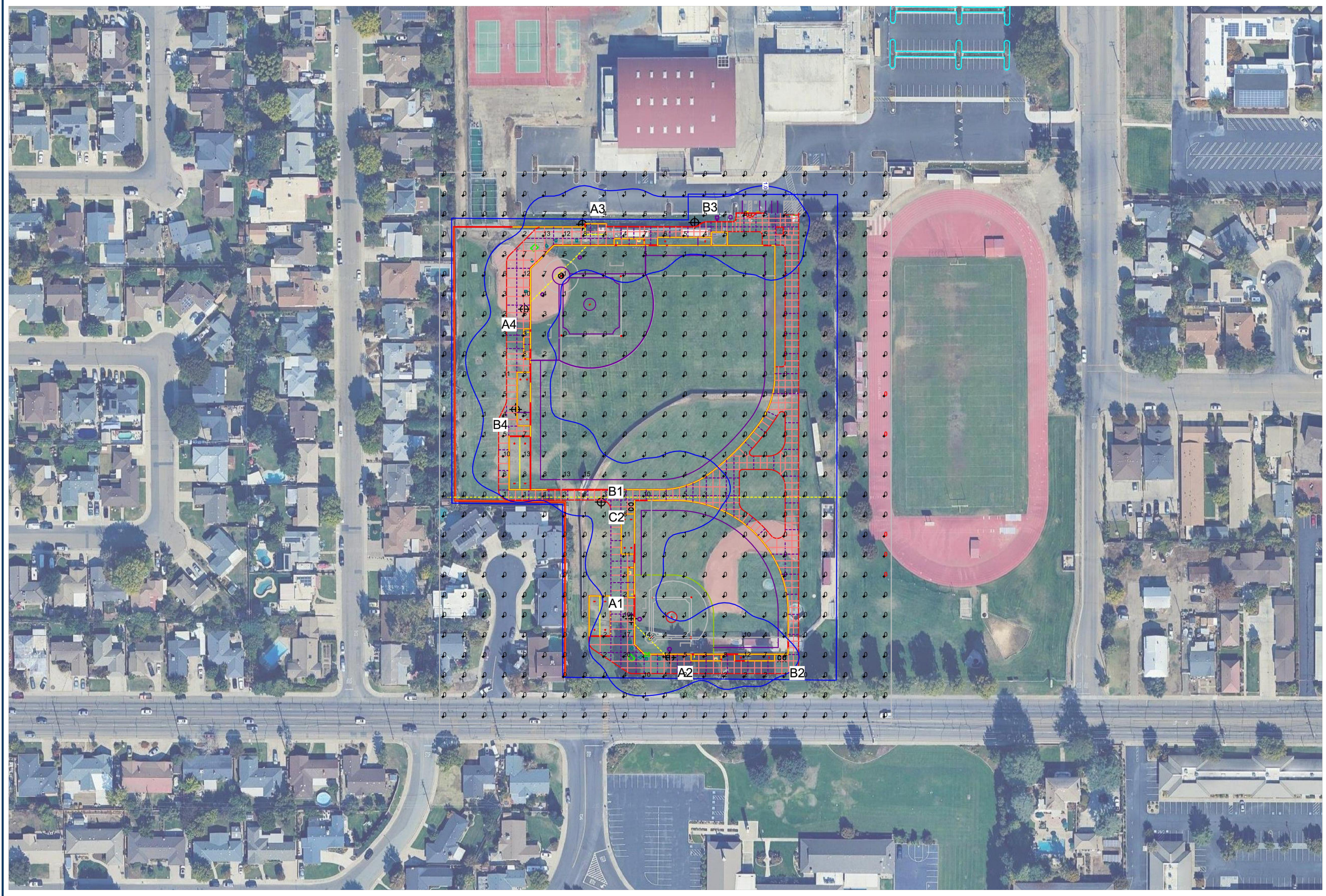
ILLUMINATION SUMMARY



SCALE IN FEET 1 : 150
0' 150' 300'

ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name: **Egress Blanket Grid**
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**1.40**
Maximum:	26
Minimum:	0
No. of Points:	644
FIXTURE INFORMATION	
Applied Circuits:	D
No. of Fixtures:	**12**
Total Load:	6.32 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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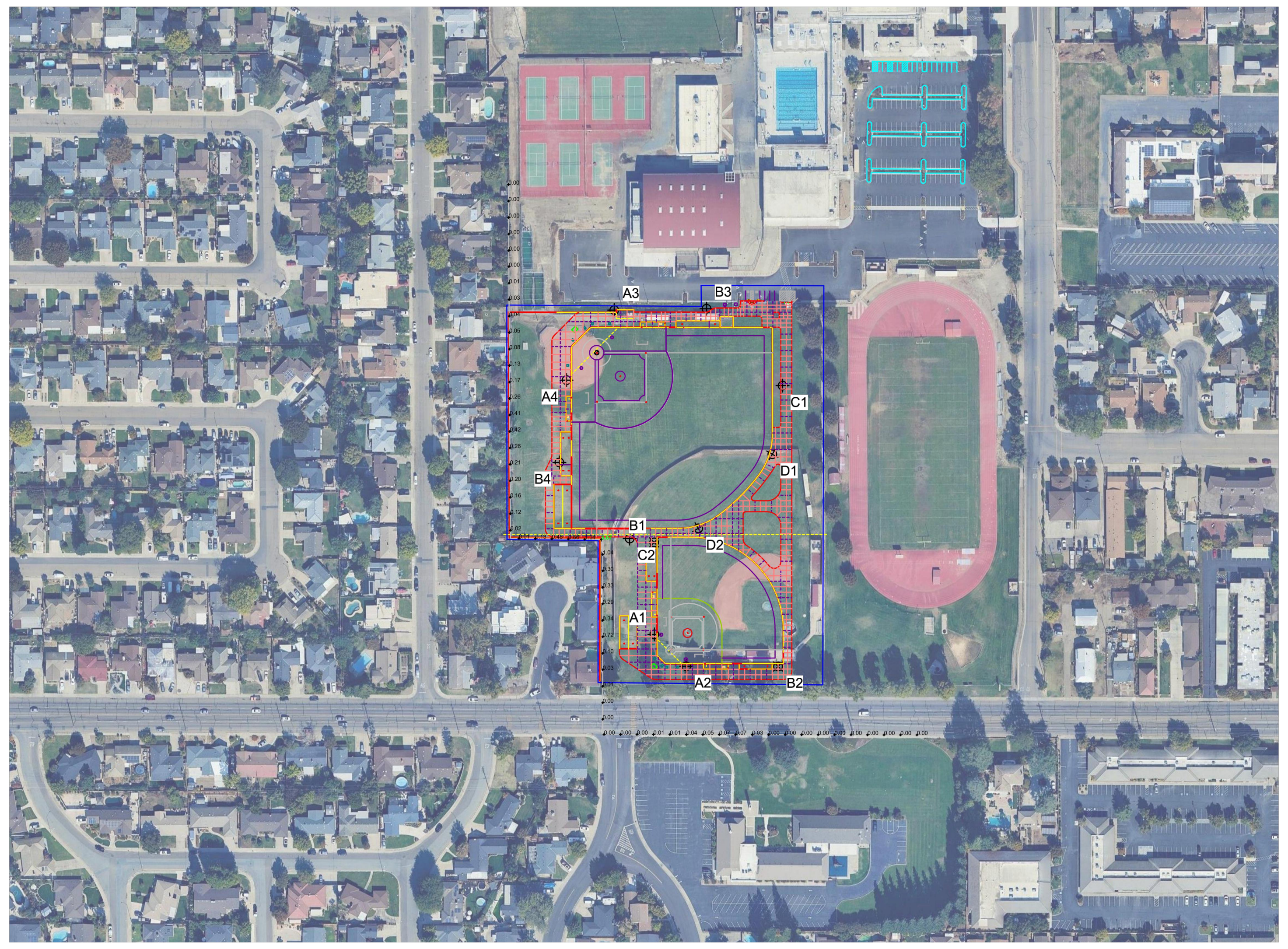
ILLUMINATION SUMMARY



SCALE IN FEET 1 : 200
0' 200' 400'

ENGINEERED DESIGN By: William Isiminger • File #247112C • 10-Sep-25

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name: **Spill 3'**
Spacing: 30.0' x 10.0'
Height: 3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.25**
Maximum:	6
Minimum:	0
No. of Points:	59
FIXTURE INFORMATION	
Applied Circuits:	A,B,C,D
No. of Fixtures:	**79**
Total Load:	75.47 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ILLUMINATION SUMMARY

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesigninc.com

STAMP

NATHAN A. HEARN
No. E 23927
3-31-2026
Nathan A. Hearn
2/19/2026

Date Signed:

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.

SHEET TITLE

MUSCO DESIGN
DRAWINGS

PROJECT NAME

LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
△1	BID ADDENDUM 02	02/20/26
△		
△		
△		
△		
△		

DRAWN BY RK	CHECKED BY NH
DATE ISSUED 02/20/2026	SCALE

PROJ. NO.
2502700

SHEET NO.
E5.3

MUSCO DESIGN DRAWINGS

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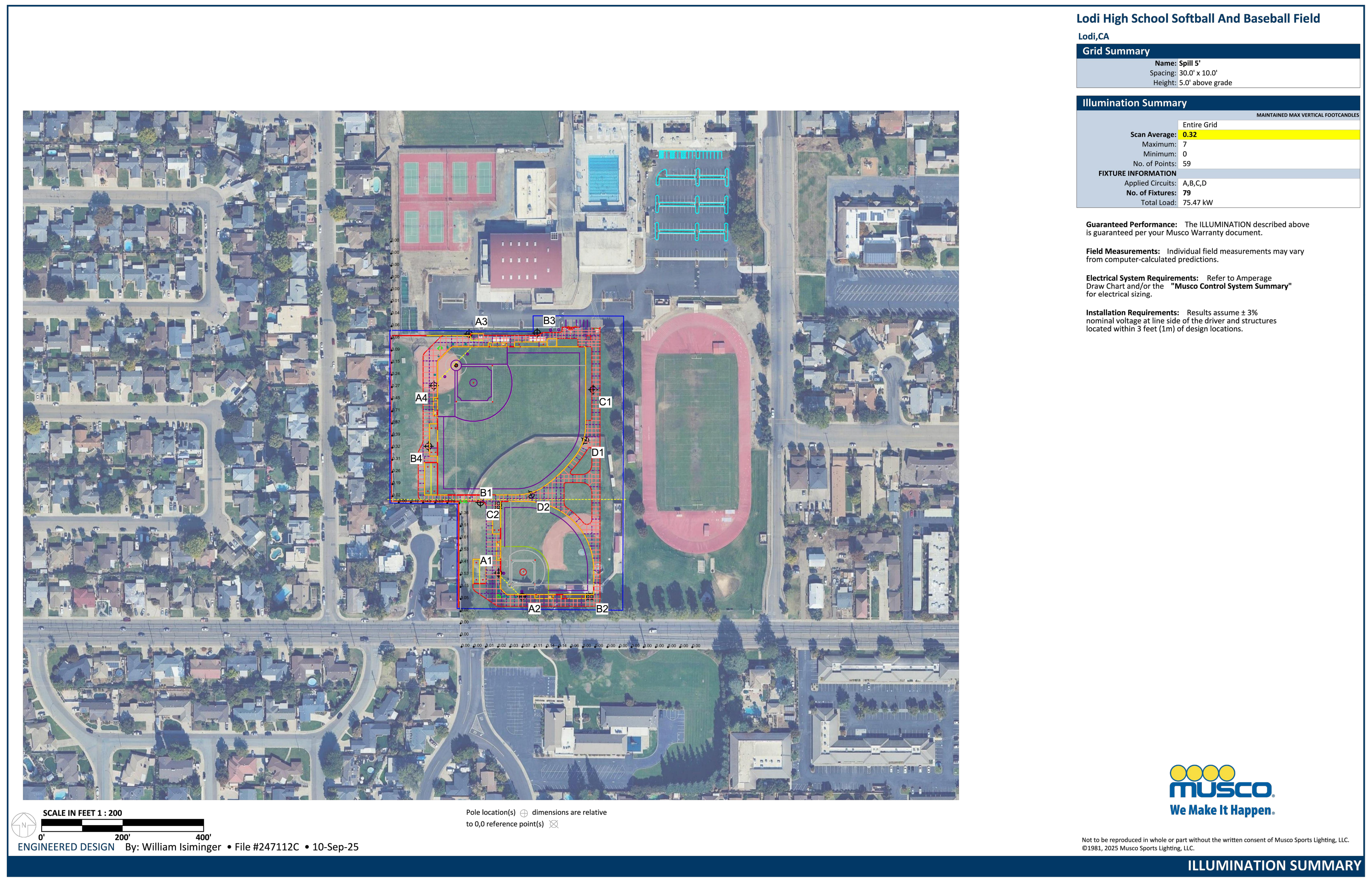

Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name:	**Spill 5'**
Spacing:	30.0' x 10.0'
Height:	5.0' above grade

Illumination Summary

	MAINTAINED MAX VERTICAL FOOTCANDLES
	Entire Grid
Scan Average:	**0.32**
Maximum:	7
Minimum:	0
No. of Points:	59
FIXTURE INFORMATION	
Applied Circuits:	A,B,C,D
No. of Fixtures:	**79**
Total Load:	75.47 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 200

0' 200' 400'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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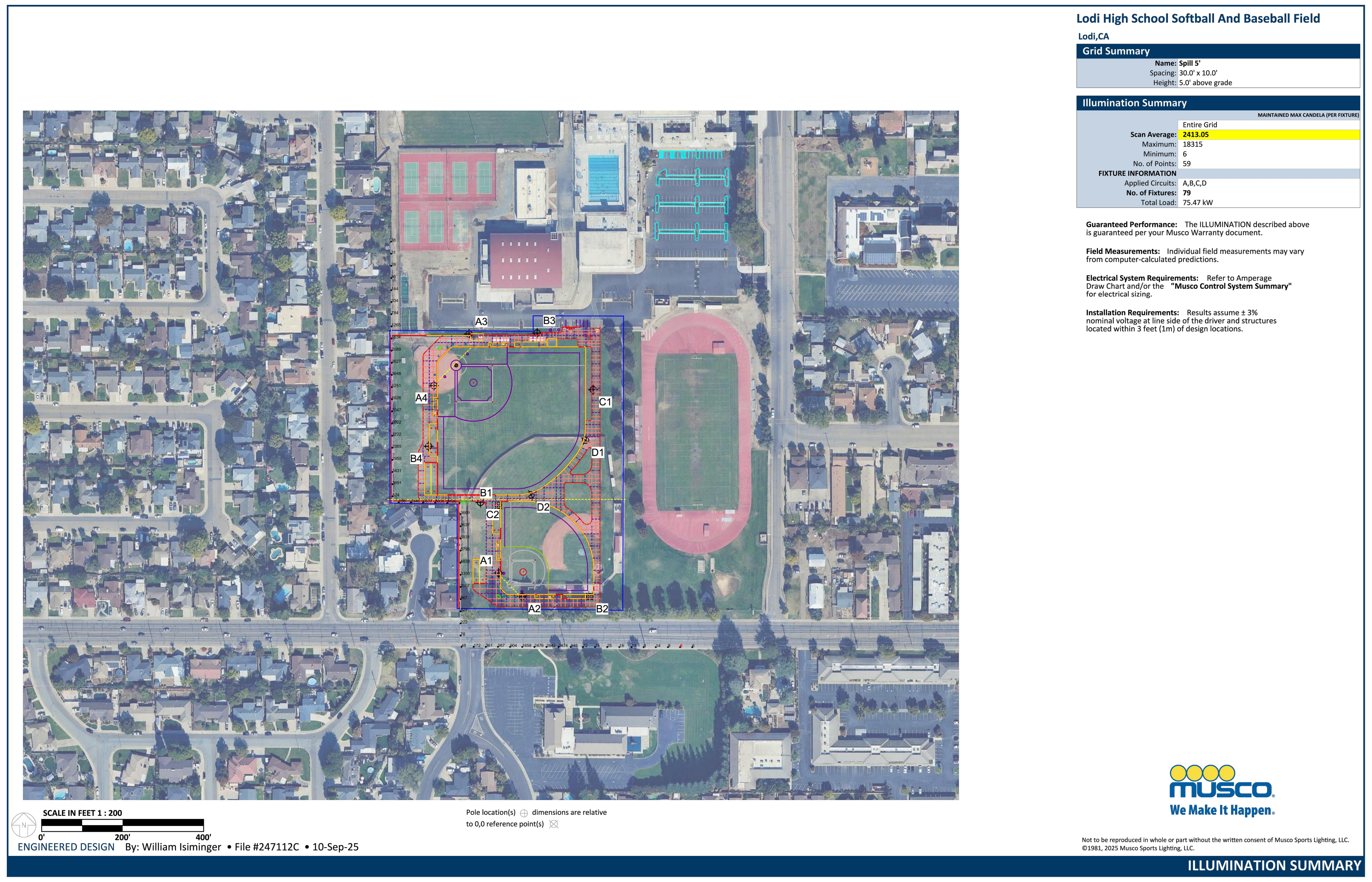
ILLUMINATION SUMMARY



Lodi High School Softball And Baseball Field

Lodi,CA

Grid Summary

Name:	**Spill 5'**
Spacing:	30.0' x 10.0'
Height:	5.0' above grade

Illumination Summary

	MAINTAINED MAX CANDELA (PER FIXTURE)
	Entire Grid
Scan Average:	**2413.05**
Maximum:	18315
Minimum:	6
No. of Points:	59
FIXTURE INFORMATION	
Applied Circuits:	A,B,C,D
No. of Fixtures:	**79**
Total Load:	75.47 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 200

0' 200' 400'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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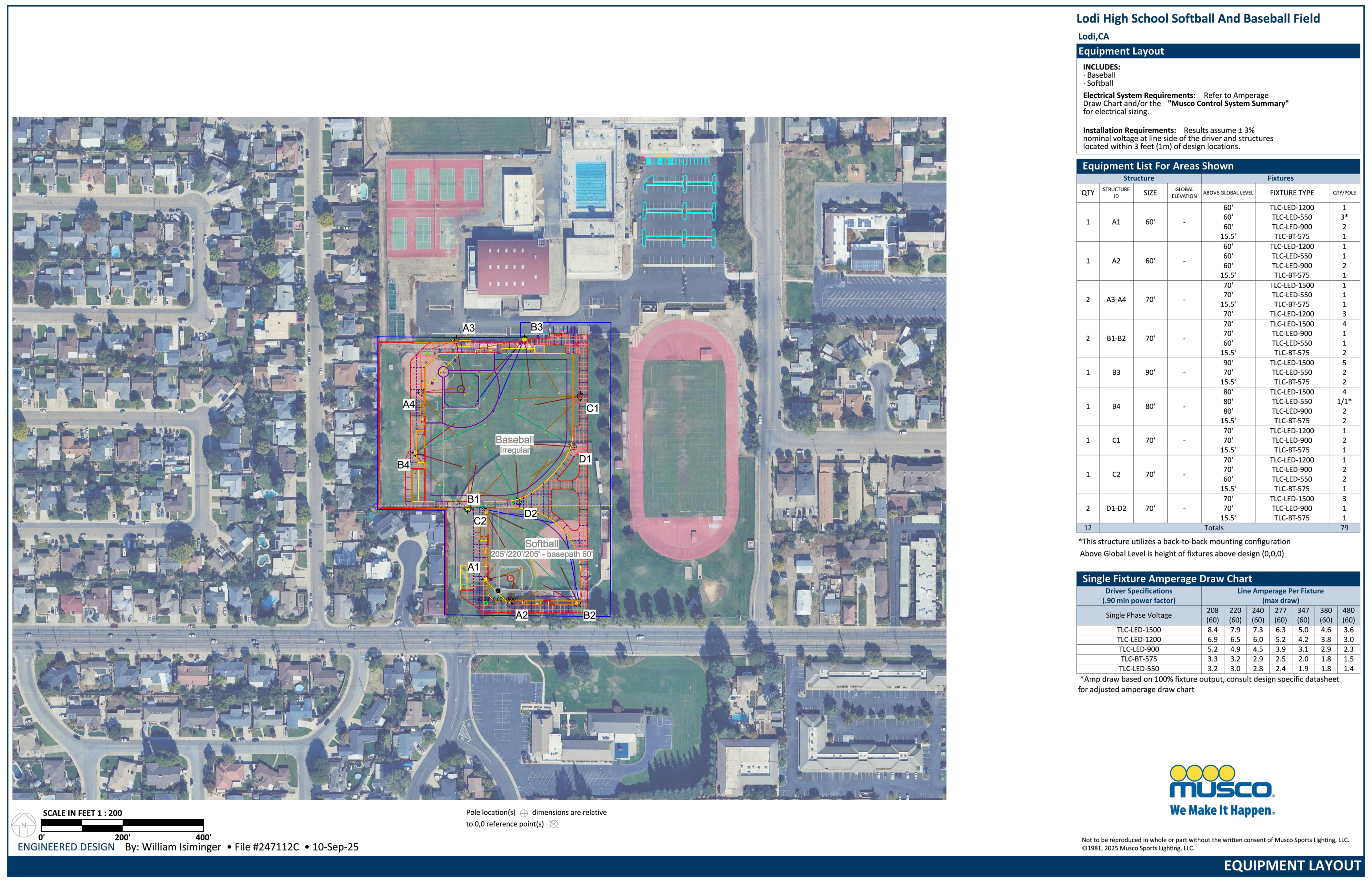
ILLUMINATION SUMMARY



Lodi High School Softball And Baseball Field

Lodi,CA

Equipment Layout

INCLUDES:
- Baseball
- Softball

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

Structure				Fixtures		
QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	ABOVE GLOBAL LEVEL	FIXTURE TYPE	QTY/POLE
1	A1	60'	-	60' 60' 60' 15.5'	TLC-LED-1200 TLC-LED-550 TLC-LED-900 TLC-BT-575	1 3* 2 1
1	A2	60'	-	60' 60' 60' 15.5'	TLC-LED-1200 TLC-LED-550 TLC-LED-900 TLC-BT-575	1 1 2 1
2	A3-A4	70'	-	70' 70' 15.5' 70'	TLC-LED-1500 TLC-LED-550 TLC-BT-575 TLC-LED-1200	1 1 1 3
2	B1-B2	70'	-	70' 70' 60' 15.5'	TLC-LED-1500 TLC-LED-900 TLC-LED-550 TLC-BT-575	4 1 1 2
1	B3	90'	-	90' 70' 15.5'	TLC-LED-1500 TLC-LED-550 TLC-BT-575	5 2 2
1	B4	80'	-	80' 80' 80' 15.5'	TLC-LED-1500 TLC-LED-550 TLC-LED-900 TLC-BT-575	4 1/1* 2 2
1	C1	70'	-	70' 70' 15.5'	TLC-LED-1200 TLC-LED-900 TLC-BT-575	1 2 1
1	C2	70'	-	70' 70' 60' 15.5'	TLC-LED-1200 TLC-LED-900 TLC-LED-550 TLC-BT-575	1 2 2 1
2	D1-D2	70'	-	70' 70' 15.5'	TLC-LED-1500 TLC-LED-900 TLC-BT-575	3 1 1
12	Totals					79

*This structure utilizes a back-to-back mounting configuration

Above Global Level is height of fixtures above design (0,0,0)

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4

*Amp draw based on 100% fixture output, consult design specific datasheet for adjusted amperage draw chart

SCALE IN FEET 1 : 200

0' 200' 400'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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EQUIPMENT LAYOUT

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NATHAN A. HEARN
No. E 23927
3-31-2026
Nathan A. Hearn
2/19/2026
Date Signed:

CONSULTANT

capital engineering
Rancho Cordova, California
NH - RK/NO 240739.00
PM - DESIGN TEAM PROJECT NO.

SHEET TITLE

MUSCO DESIGN
DRAWINGS

PROJECT NAME

LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS

3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY
RK

CHECKED BY
NH

DATE ISSUED
02/20/2026

SCALE

PROJ. NO.
2502700

SHEET NO.
E5.4

MUSCO DESIGN DRAWINGS

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Lodi HS Ballfields	**Report Page:** **(Page 1 of 7)**
Project Address: 3 S Pacific Ave	**Date Prepared:** 9/23/2025

A. GENERAL INFORMATION

01	Project Location (city)	Lodi	04	Total Illuminated Hardscape Area (ft^2)	369995
02	Climate Zone	12			
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☒	LZ-2: Moderate - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Rural Areas	☐	LZ-3: Moderately High - Urban Areas		
05	Occupancy Types within Project				
● All Other Occupancies					

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No	
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%		

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Lodi HS Ballfields	**Report Page:** **(Page 2 of 7)**
	Date Prepared: 9/23/2025

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												**Compliance Results**			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
7,641	+	---	+	---	+	---	+	---	OR	---	=	7,641	≥	7,388	COMPLIES
Shielding Compliance (See Table G for Details)											COMPLIES				
Controls Compliance (See Table H for Details)											Not applicable				

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Lodi HS Ballfields	**Report Page:** **(Page 3 of 7)**
	Date Prepared: 9/23/2025

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
C1	C1	☐ Linear	24	Mfr. Spec	16	New	☐	384	NA: < 6200 lumens	☐	☐
F1	F1	☐ Linear	34	Mfr. Spec	3	New	☒	---	NA: < 6200 lumens	☐	☐
S1	S1	☐ Linear	85	Mfr. Spec	8	New	☐	680	Provided	☐	☐
TLC-LED-550	TLC-LED-550	☐ Linear	527	Mfr. Spec	12	New	☐	6,324	NA: < 6200 lumens	☐	☐
							Total Design Watts:	7388			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*

[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*

[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*

[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Lodi HS Ballfields	**Report Page:** **(Page 4 of 7)**
	Date Prepared: 9/23/2025

G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]			Field Inspector	
		Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]	Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass	Fail
S1	S1	2 MH from property line	No Limit	B4	All other outdoor lighting, including decorative	U2	U0	> 2 MH from property line	G2	G3	☐	☐

[1] *FOOTNOTES: Mounting Height is labeled MH in this table.*

[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)*

[3] *BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.*

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*

[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*

[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Lodi HS Ballfields	**Report Page:** **(Page 5 of 7)**
	Date Prepared: 9/23/2025

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

	01				
This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. *Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.*	☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
		☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft^2)	Allowed Density (W/ft^2)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Lodi HS Ballfields	369995	0.019	7029.9	2739	0.2	410.8	7441
						Initial Wattage Allowance for Entire Site (Watts):	200
						Instances of Initial Wattage Allowance (LZ 0 only)[1]	
						Total General Hardscape Allowance (Watts):	7641

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Lodi HS Ballfields	**Report Page:** **(Page 6 of 7)**
	Date Prepared: 9/23/2025

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no NRCA forms required for this project.

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	**NRCC-LTO-E**
Project Name: Lodi HS Ballfields	**Report Page:** **(Page 7 of 7)**
Project Address: 3 S Pacific Ave	**Date Prepared:** 9/23/2025

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Rustem Kopbayev	Documentation Author Signature: Rustem
Company: Capital Engineering Consultants Inc.	Signature Date: 2025-09-23
Address: 11020 Sun Center Drive Suite 100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Rancho Cordova CA 95670	Phone: 916-851-3575

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Nathan Hearn	Responsible Designer Signature:
Company: Capital Engineering Consultants Inc.	Date Signed: 2025-09-23
Address: 11020 Sun Center Drive, Suite 100	License: E23927
City/State/Zip: Rancho Cordova CA 95670	Phone: 916-851-3568

VERDE DESIGN
LANDSCAPE ARCHITECTURE
CIVIL ENGINEERING
SPORT PLANNING & DESIGN
1843 Iron Point Rd. Suite 140
Folsom, CA 95630
tel: 916.415.6554
fax: 916.415.6525
www.VerdeDesignInc.com

STAMP

NATHAN A. HEARN
No. E 23927
3-31-2026
2/19/2026
Date Signed:

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.

SHEET TITLE
TITLE 24
LTO FORMS

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY RK	CHECKED BY NH
DATE ISSUED 02/20/2026	SCALE

PROJ. NO.
2502700

SHEET NO.
E6.1

TITLE 24 LTO FORMS

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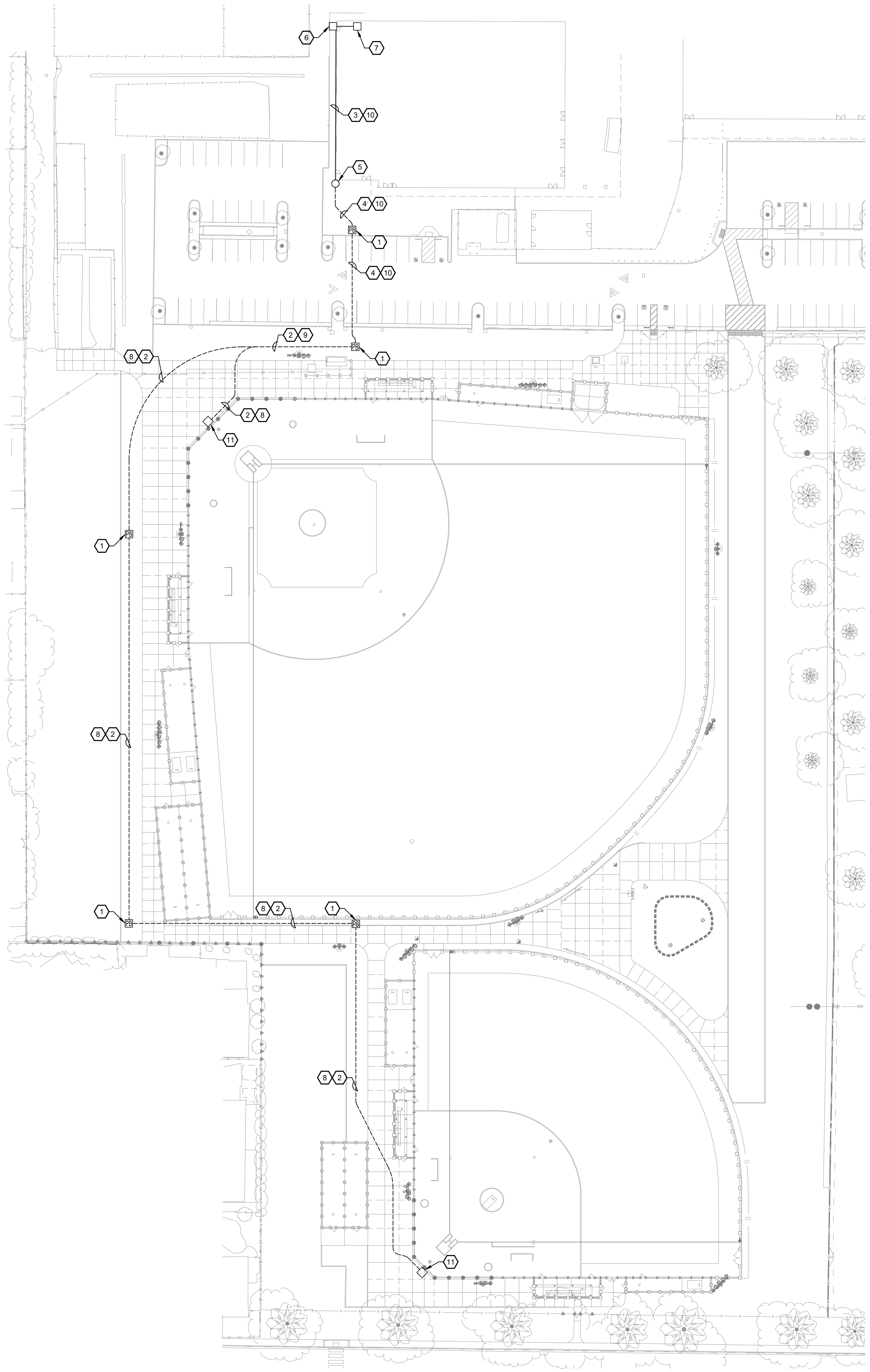
DRAWING NAME: \\capsac.lan\network\Project_Docs\2024\240739.00\1200 Drawings\1205 AutoCAD Project Files\E6.1 TITLE 24 LTO FORMS.dwg
PLOT DATE: 02-19-26 PLOTTED BY: Rustem.Kopbayev



TECHNOLOGY SITE PLAN

SCALE : 1" = 40'-0"

1
E7.0

N

KEY NOTES:

1. PROVIDE PULL BOX WITH THE APPROPRIATE NEMA RATING, SIZED PER 2022 CEC 314.28(A). SEE DETAIL 1/E4.1. PULL BOX LOCATIONS SHOWN ARE DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY AND COORDINATE FINAL LOCATIONS TO AVOID CONFLICTS WITH OTHER TRADES, EXISTING UTILITIES, AND SITE CONDITIONS.
2. UNDERGROUND CONDUIT. FOR INSTALLATION SEE TYPICAL TRENCH DETAIL 4/E4.1.
3. SURFACE MOUNTED CONDUIT. SEE DETAIL 6/E4.2.
4. SAW-CUT EXISTING CONCRETE AS REQUIRED FOR NEW TRENCHING. REPLACE CONCRETE AFTER BACKFILLING IS COMPLETE. MATCH EXISTING CONCRETE FINISH AND CONCRETE COLOR. FOR INSTALLATION SEE TYPICAL TRENCH DETAIL 4/E4.1.
5. PROVIDE CONDUIT STUB UP FOR TRANSITION FROM UNDERGROUND PVC SCHEDULE 40 TO SURFACE MOUNTED RIGID STEEL CONDUIT. ROUTE CONDUIT HIGH UP WALL. REFER TO DETAIL 2/E4.1
6. INSTALL LB FITTING INTO BUILDING WALL AT A HEIGHT APPROVED BY THE DISTRICT. ENSURE PENETRATION IS SEALED TO MAINTAIN A WATERTIGHT BARRIER. SEE DETAIL 5/E4.2.
7. (E) IDF, VERIFY EXACT LOCATION ON JOB SITE PRIOR TO ROUGH-IN. PROVIDE ALL NECESSARY PATCH PANEL AND EQUIPMENT FOR WIRE TERMINATIONS.
8. (1) 1-1/4" SPARE CONDUIT WITH PULL STRING, FOR FIBER PROVIDED BY OTHERS.
9. (2) 1-1/4" SPARE CONDUITS WITH PULL STRING, FOR FIBER PROVIDED BY OTHERS.
10. (1) 2" SPARE CONDUIT WITH PULL STRING, FOR FIBER PROVIDED BY OTHERS.
11. CONNECT CONDUIT TO FIBER MEDIA CONVERTER ENCLOSURE PROVIDED BY OTHERS.

SHEET NOTES:

1. ALL INFORMATION ON THIS SHEET IS SPECIFIC TO ADD ALTERNATE #4 AND SHALL NOT BE INCLUDED IN THE BASE SCOPE OF WORK UNLESS THE ALTERNATE IS ACCEPTED.

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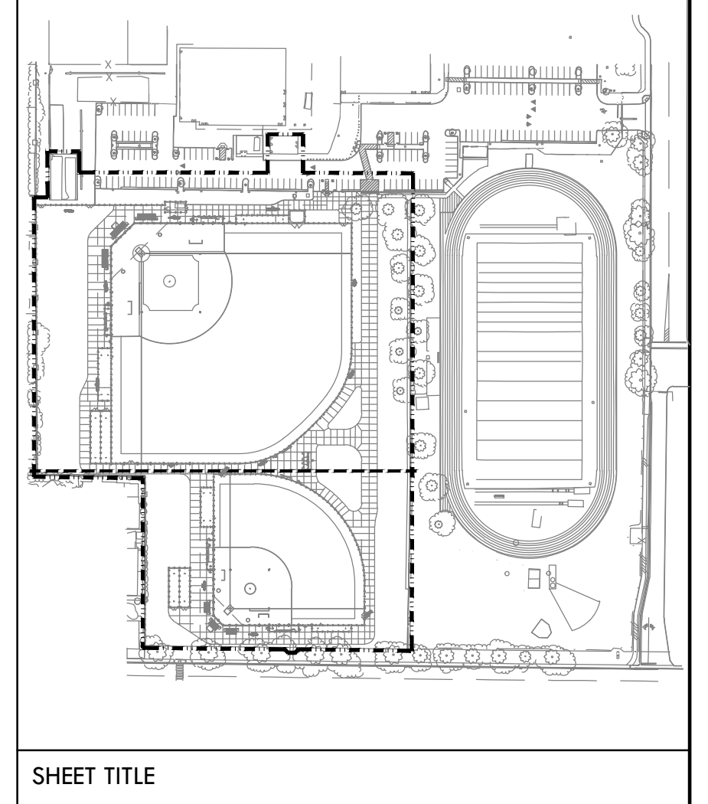
STAMP

NATHAN A. HEARN
No. E 23927
3-31-2026
ELECTRICAL
2/19/2026
Date Signed:

CONSULTANT

capital engineering
RANCHO CORDOVA, CALIFORNIA

NH - RK/NO	240739.00
PM - DESIGN TEAM	PROJECT NO.



SHEET TITLE
TECHNOLOGY
SITE PLAN

PROJECT NAME
LODI HIGH SCHOOL
ATHLETIC FIELD
IMPROVEMENTS

PROJECT ADDRESS
3 S PACIFIC AVE
LODI, CA
95242

SUBMITTAL	DATE
50% DSA SUBMITTAL	07/31/25
100% DSA SUBMITTAL	09/25/25
DSA BACKCHECK SUBMITTAL	12/17/25

NO.	REVISIONS	DATE
1	BID ADDENDUM 02	02/20/26

DRAWN BY	CHECKED BY
RK	NH
DATE ISSUED	SCALE
02/20/2026	1" = 40'-0"

PROJ. NO.
2502700

SHEET NO.
E7.0

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DRAWING NAME: \\capsac.lan\network\Project_Docs\2024\240739.00\1200 Drawings\1205 AutoCAD Project Files\E7.0 TECHNOLOGY SITE PLAN.dwg
PLOT DATE: 02-19-26 PLOTTED BY: Rustem.Kopbayev

LODI HIGH SCHOOL
ATHLETIC FIELD IMPROVEMENTS

LODI UNIFIED SCHOOL DISTRICT
3 S PACIFIC AVE
Lodi, CA 95242

PROJECT SPECIFICATIONS
Bid Addendum 02
February 20, 2026

PREPARED BY:

VERDE DESIGN

Project No. 250270
DSA No. 02-123587

SECTION 32 18 13

SYNTHETIC TURF PLAYING FIELD

PART 1 - GENERAL

1.01 SUMMARY

A. Section Included: Synthetic grass playing field system consisting of, but not necessarily be limited to, the following:
  1. Synthetic grass system consisting of 1.25-inch-tall slit-film polyethylene fiber.
    a. Apron and Infield Grass synthetic grass system consisting of 1.25 in slit-film polyethylene fiber with a texturized thatch layer. Color to be green.
    b. Infield clay synthetic grass system consisting of 1.25" slit-film polyethylene fiber with a texturized thatch layer. Color to be brown.
  2. Baseball batting cage and bullpen floor surfacing.
  3. A resilient infill system consisting entirely of graded sand.
  4. Synthetic grass system consisting of 1.25-inch-tall , slit-film, polyethylene fiber with thatches.

B. Related Requirements:
  1. Section 32 18 14 - Synthetic Turf Base

1.02 REFERENCES

A. ASTM Standard Test Methods:
  1. D1335: "Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings."
  2. D5848: "Standard Test Method for Mass Per Unit Area of Pile Yarn Floor Covering."
  3. F355: "Standard Test Method for Shock-Absorbing Properties of Playing Surfaces."
  4. F1936: "Standard Test Method for Shock-Absorbing Properties of North American Football Field Playing Systems as Measured in the Field."

1.03 ADMINISTRATIVE REQUIREMENTS

A. Submittal Procedures: Action and Informational Submittals shall be submitted in accordance with Section 01 33 00 - Submittal Procedures.

1.04 ACTION SUBMITTALS

A. Submit Drawings: Prepare and submit the following.
  1. Seaming plan.
  2. Installation details; edge detail, utility box detail, and other conditions of the installation.
  3. Field layout and striping plan including field colors, including field line layouts and colors.
  4. Final electronic versions of artwork.

B. Samples:
  1. Turf, 4" x 4" in size, illustrating details of finished product.
  2. Loose samples, 1-foot square, of the turf backing and tufted fibers.
  3. Color samples of color work including final electronic versions of artwork.
  4. One-quart samples of the following:
    a. Specified primary infill.

1.05 INFORMATIONAL SUBMITTALS

A. Manufacturer's installation instructions.

B. Certifications:

1. Project specific letter from turf manufacturer on the company letterhead certifying that the products to be provided meet or exceed all specified requirements, and state that the installer meets the specified qualifications above and is certified by the manufacturer to install the synthetic turf specified and to be provided.

C. Certified copies from an independent third-party laboratory reports for results of the following tests:
  1. Pile Height, face width & total fabric weight, ASTM D5823 and D5848.
  2. Primary and secondary backing weights, ASTM D5848.
  3. Tuft bind, ASTM D1335.
  4. Grab tear strength, ASTM D5034.
  5. Water permeability, ASTM F1551.
  6. Flame resistance, ASTM D2859.
  7. Tuft yarn tensile strength and elongation, ASTM D2256.

D. Copy of the manufacturers' minimum 8-year or 10-year, prepaid, non-prorated, third-party insured warranty and insurance policy information.

E. Qualifications: A list providing project name, date the field installation was approved, contact names and telephone numbers for each project that meets the experience and qualification requirements specified.

1.06 CLOSEOUT SUBMITTALS

A. The Contractor shall provide the following prior to Final Acceptance and the Owner filing the Project Notice of Completion:
  1. Written warranty as specified with forms completed in Owner's name and registered with manufacturer and insurance carrier.
  2. Information confirming that the third-party insurance policy, non-cancelable and pre-paid, is in effect covering this installation, and underwritten by a Best "A" Rated Insurance Carrier. Insurance carrier shall confirm that the policy is in force and premiums paid.
  3. Three copies of Maintenance Manuals, which will include all necessary instructions for the proper care and preventive maintenance of the turf system, including painting and markings.
  4. Project Record Documents, in accordance with Section 01 78 39 – Project Record Documents with plans showing actual locations of seams and other pertinent information.

B. Field groomer and/or sweeper as specified.

1.07 QUALITY ASSURANCE

A. The manufacturer shall have a representative on site to certify the installation and warranty compliance.

B. Designs, markings, layouts, and materials shall conform to all current NFHS standards as specified that may apply to this type of synthetic turf installation.

C. Quality Assurance Testing: Prior to shipment of the synthetic turf and components to the job site, the synthetic turf rolls should be randomly sampled and tested by the manufacturer who will certify that they meet the specification.
  1. Testing shall be conducted and may include pile composition, pile weight, total weight, pile height, tuft bind, and grab/tear strength.
  2. Test results of the relevant characteristics and certification turf meets or exceeds the specified requirements shall be submitted as specified.

1.08 TURF COMPANY QUALIFICATIONS

A. The Turf company shall be experienced in both the manufacturing and installation of the specified type of synthetic infilled turf system.
  1. Use of outside, independent contractors for the installation is to be reviewed by the Owner's Representative prior to the Bid of Contract.

2. The Turf Company shall identify and provide the name of a single point of contact for their company for this project beginning with the bid process through construction administration and project close-out.
3. The Turf Company shall coordinate all bid documents, submittals, shop drawings, schedules, warranty and close-out efforts internally and shall not rely on Owner's Representative to coordinate with multiple parties. Failure to do so could result in a time and materials charge from the Owner or Owner's Representative for additional coordination.

4. Have an NFHS baseball/softball field in play for at least 3 seasons with the specific infill system, backing and sewn seams that is being proposed for this project including non-marking rubber.
5. For the purpose of meeting these qualifications, the type of fiber and infill and sand are not determining factors in meeting these installation qualifications.

B. Installer:
   1. Capable of providing competent workers skilled in this specific type of in-filled synthetic grass installation.
   2. Designated supervisory personnel on the project shall be certified as competent in the installation of this material including sewing seams and proper installation of the infill mixture.
   3. The foreman for the installation shall have installed at least 20 fields in the last 3 years of the specified material.
   4. Possess an active California D-12 Synthetic Products license in good standing and have never had a license revoked.
   5. Shall not have had a Surety or Bonding Company finish work on any contract within the last 5 years.
   6. Shall not have been disqualified or barred from performing work for any public owner or other contracting entity in the U.S.
   7. For the purpose of meeting these qualifications, the type of rubber and sand are not determining factors in meeting these installation qualifications.

1.09 FIELD CONDITIONS

A. Contractor shall be responsible for reviewing the base and ensuring it conforms to the project requirements prior to placement of the synthetic turf.

B. Playing field subgrade preparation shall be completed and accepted by the Owner Representative prior to commencement of Work under this Section.

C. Ambient Conditions: Care should be taken during installation to account for rapid fluctuations in temperature to avoid expansion and contraction which can affect the final installation. Temperature extremes shall be carefully monitored. The carpet should never be rolled or unrolled when frozen, which can cause cracking and irreparable damage to the secondary backing.

1.10 WARRANTY

A. Manufacturer: Provide Owner with turf manufacturer's warranty which guarantees the usability and playability of the synthetic turf system for its intended uses for a minimum 10 year period. The warranty coverage shall not be prorated nor limited to the amount of the usage. The warranty submitted must have the following characteristics:
   1. A non-prorated, non-cancellable up-front pre-paid, third-party insured warranty. Warranty shall be covered by a third party insurance policy, non-cancelable and pre-paid, and is in effect covering this installation, and underwritten by a Best "A" Rated (or better) Insurance Carrier listed in the A.M. Best Key Rating Guide.
   2. Insurance carrier shall confirm that the policy is in force and premiums prepaid for entire warranty duration in full.
   3. The policy shall include a minimum annual aggregate of $5,000,000 per year and be based on claims arising from fields installed and completed only during the policy year.
   4. The policy shall provide full coverage for a minimum of 8 years from the date of Notice of Completion.

5. The policy shall cover all costs associated with full field replacement with new equal or better turf material, including labor, materials and any other costs to repair or replace the field.
6. Owner shall not be responsible for any deductible.
7. Warranty shall have no restrictions on amount of use provided type of use is in accordance with the approved warranty language.
8. Shall warrant materials and workmanship, and that the materials installed meet or exceed the product specifications, including general wear and damage caused from UV degradation.
9. Shall have a provision to either make a cash refund or repair or replace such portions of the installed materials that are no longer serviceable to maintain a serviceable and playable surface.
10. Shall be a warranty from a single source covering workmanship and all self-manufactured or procured materials.
11. Guarantee the availability of replacement material for the synthetic turf system installed for the full warranty period.
12. The name on the warranty shall be made out to Lodi Unified School District
13. Turf contractor shall include in the warranty the cost to replace high use areas such as base paths, etc. Replacement shall be one time for each area during the warranty period at a time of the warranty holder's discretion. The replacement area shall include the required square footage needed to replace the damaged areas up to the closest field line or change in turf color. Contractor shall provide 2 replacement panels for each batter's box per field (8 total), 2 replacement catcher boxes per field (4 total) and 2 replacement strips for the pitcher's stride area per field (4 total) from the top of the pitching plate to the change of color in the home plate direction.
14. Turf system of 1.25" slit-film polyethylene fiber with a texturized thatch layer and sand infill over a manufactured porous closed-cell composite shall not exceed a field average Gmax of 120, as tested according to the ASTM 1936 Standard Specifications, for the life of the system.
15. Turf shall maintain an ASTM F355 G-Max of less than 160 for the life of the warranty.

PART 2 - PRODUCTS

2.01 DESIGN AND PERFORMANCE CRITERIA

A. General:
  1. Synthetic turf construction and components shall be non-toxic and not cause commonly known allergic reactions. Each synthetic turf system should be constructed to provide dimensional stability and resist damage from wear and tear during athletic and recreational usage.
  2. System shall be permeable by design with adequate perforations through all of the backing coatings.
  3. The bonding or fastening of system material components shall provide a permanent, tight, secure, and hazard-free athletic playing surface.
  4. Seams shall be sewn with high strength sewing thread. Gluing of rolls is permitted if warrantied by the turf company and shall be glued with the specified glue.

B. Product Specifications:
  1. Slit-Film Fiber: 21,100 denier, low friction, eight-strand monofilament fiber, measuring not less than 1.25" inches high and not less than 125 microns in thickness.
    a. The low friction fiber shall be custom blended polyethylene, treated with UV inhibitors.
    b. Fibers shall have been extruded individually through a spinerette, stretched and twisted.
    c. Low friction fiber shall be specifically designed to virtually eliminate abrasion.
  2. The tufted fiber weight shall not be less than 113.4 ounces per square yard. The low friction fiber shall be custom blended polyethylene, treated with UV inhibitors.
  3. The maximum gauge of the tufted fiber rows shall be 3/8 inch.
  4. The turf product shall have an infiltration rate not less than 40" per hour as tested by ASTM D1551.
  5. Backing: Not less than 2 components consisting of a primary and secondary backing system of woven polypropylene or urethane.
    a. Backing system shall be treated with UV inhibitors.

b. The backing shall receive polyurethane and acrylic applications during the manufacturing process.

c. The backing weight of all backing material shall be a minimum of 13.4 ounces per square yard.

6. The minimum tuft binding tensile strength shall be 10 pounds without infill, as determined by ASTM D1335.

C. The synthetic turf shall be delivered in 15-foot wide rolls and of sufficient length to extend from sideline to sideline. Head seams, between the sidelines, will not be acceptable.

D. Markings:
1. The perimeter white and yellow lines can be tufted into the individual sideline rolls.
2. Field of play lines for baseball, shall be inlaid or tufted. The lines shall be white.
3. Field of play lines for softball, shall be inlaid or tufted. The lines shall be white.

2.02 INFILL SYNTHETIC TURF

A. Manufacturer:
1. Approved manufacturers are as follows:

American Sports Construction Inc
1318 DuPont Court
Manteca, CA 95366
P: 209-412-0284

B. System:
1. Turf Type I (Apron, Infield Grass - GREEN): Apex 100 1.25” Slit Film w/Thatches with sand infill as specified as the basis of design has been pre-approved by the District.
2. Turf Type II (Infield fines and foul area - BROWN): Apex 100 1.25” Slit Film w/Thatches with sand infill as specified as the basis of design has been pre-approved by the District.
3. Turf Type III (Bullpens and Batting Cages - GREEN): ASC Inc, Challenger Turf. EPXP 5MM, no infill as specified as the basis of design has been pre-approved by the district.

2.03 PRODUCT SPECIFICATIONS: TURF TYPE I (GREEN: APRON AND INFIELD)

A. Apex 100 1.25” Slit Film w/Thatches with sand infill shall consist of the following:
1. Carpet made of slit film polyethylene fibers tufted into a fibrous, non-perforated, porous backing. Slit-film fibers must be tufted into each individual stitch in the turf carpet. Alternating tufting row patterns of each yarn type is unacceptable. The slit film fiber shall be 21,100 denier, low friction, UV-resistant. Each monofilament fiber is extruded with two layers of polyethylene polymers. A rigid polyethylene polymer as the inner core of the fiber for superior resilience and a soft yet extremely durable polyethylene polymer as the outer shell of the fiber for a realistic grass-like feel.
2. Infill: Controlled mixture of graded sand that partially covers the carpet.
3. Glue, thread, paint, seaming fabric and other materials used to install and mark the artificial grass hybrid FieldTurf.

B. The installed artificial grass shall have the following properties:

STANDARD	**PROPERTY**	**SPECIFICATION**
ASTM D1577	Fiber Denier	21,100
ASTM D5823	Pile Height	1.25”
ASTM D5793	Stitch Gauge	3/8”
ASTM D5848	Face Weight	100oz/square yard
ASTM D5848	Primary Backing	11oz/square yard
ASTM D5848	Secondary Backing	2.4oz/square yard
ASTM D5848	Total Weight	113.4oz/sq. yard

ASTM D1335	Tuft Bind (Without Infill)	>10 lbs
ASTM D5034	Grab Tear (Width)	>200 lbs/force
ASTM D5034	Grab Tear (Length)	>200 lbs/force
ASTM D4491	Carpet Permeability	>1000+ inches/hour
ASTM F1936	Impact Attenuation (Gmax)	<200
	Sand Infill Component	4.5 lbs/square foot

Variation of +/- 5% on above listed properties is within normal manufacturing tolerances
A separate shockpad is required for this system.

C. Carpet shall consist of PE Slit Film with Thatch fibers tufted into a primary backing with a secondary backing.

D. Carpet Rolls shall be 15' wide rolls.
  1. Rolls shall be long enough to go from field sideline to sideline.
  2. Where the playing field is for football, the perimeter white line shall be tufted into the individual sideline rolls.

E. Backing:
  1. Primary backing shall be a double-layered polypropylene fabric
  2. Secondary backing shall consist of an application of porous, heat-activated urethane to permanently lock the fiber tufts in place.
  3. Perforated (with punched holes), backed carpet are acceptable.

F. Infill materials shall be approved by the manufacturer.
  1. Infill shall consist of a resilient layered granular system, comprising selected and graded sand. Organic infill must be comprised of materials that do not require irrigation to be installed around the field.
  2. Artificial Grass products without silica sand as its sole infill components will not be acceptable.

G. Non-tufted or inlaid lines and markings shall be painted with paint approved by the synthetic turf manufacturer.

H. Thread for sewing seams of turf shall be as recommended by the synthetic turf manufacturer.

I. Glue and seaming fabric for inlaying lines and markings shall be as recommended by the synthetic turf manufacturer.

2.04 PRODUCT SPECIFICATIONS: TURF TYPE II (BROWN: INFIELD CLAY)

A. Apex 100 1.25" Slit Film w/Thatches with sand infill shall consist of the following:
  1. Carpet made of slit film polyethylene fibers tufted into a fibrous, non-perforated, porous backing. Slit-film fibers must be tufted into each individual stitch in the turf carpet. Alternating tufting row patterns of each yarn type is unacceptable. The slit film fiber shall be 21,100 denier, low friction, UV-resistant. Each monofilament fiber is extruded with two layers of polyethylene polymers. A rigid polyethylene polymer as the inner core of the fiber for superior resilience and a soft yet extremely durable polyethylene polymer as the outer shell of the fiber for a realistic grass-like feel.
  2. Infill: Controlled mixture of graded sand that partially covers the carpet.
  3. Glue, thread, paint, seaming fabric and other materials used to install and mark the artificial grass hybrid FieldTurf.

B. The installed artificial grass shall have the following properties:

STANDARD	**PROPERTY**	**SPECIFICATION**
ASTM D1577	Fiber Denier	21,100
ASTM D5823	Pile Height	1.25"

ASTM D5793	Stitch Gauge	3/8”
ASTM D5848	Face Weight	100oz/square yard
ASTM D5848	Primary Backing	11oz/square yard
ASTM D5848	Secondary Backing	2.4oz/square yard
ASTM D5848	Total Weight	113.4oz/sq. yard
ASTM D1335	Tuft Bind (Without Infill)	>10 lbs
ASTM D5034	Grab Tear (Width)	>200 lbs/force
ASTM D5034	Grab Tear (Length)	>200 lbs/force
ASTM D4491	Carpet Permeability	>1000+ inches/hour
ASTM F1936	Impact Attenuation (Gmax)	<200
	Sand Infill Component	4.5 lbs/square foot

Variation of +/- 5% on above listed properties is within normal manufacturing tolerances
A separate shockpad is required for this system.

C. Carpet shall consist of PE Slit Film with Thatch fibers tufted into a primary backing with a secondary backing.

D. Carpet Rolls shall be 15’ wide rolls.
   1. Rolls shall be long enough to go from field sideline to sideline.
   2. Where the playing field is for football, the perimeter white line shall be tufted into the individual sideline rolls.

E. Backing:
   1. Primary backing shall be a double-layered polypropylene fabric
   2. Secondary backing shall consist of an application of porous, heat-activated urethane to permanently lock the fiber tufts in place.
   3. Perforated (with punched holes), backed carpet are acceptable.

F. Infill materials shall be approved by the manufacturer.
   1. Infill shall consist of a resilient layered granular system, comprising selected and graded sand. Organic infill must be comprised of materials that do not require irrigation to be installed around the field.
   2. Artificial Grass products without silica sand as its sole infill components will not be acceptable.

G. Non-tufted or inlaid lines and markings shall be painted with paint approved by the synthetic turf manufacturer.

H. Thread for sewing seams of turf shall be as recommended by the synthetic turf manufacturer.

I. Glue and seaming fabric for inlaying lines and markings shall be as recommended by the synthetic turf manufacturer.

2.05 PRODUCT SPECIFICATIONS: TURF TYPE III (BULLPENS AND BATTING CAGES - GREEN)

A. Turf Type III: ASC Inc, Challenger Turf. EPXP 5MM, no infill:
   1. Carpet made of polyethylene fibers tufted into a perforated backing.
   2. Glue, thread, paint, seaming fabric and other materials used to install and mark the artificial grass

B. The installed artificial grass slit-film FieldTurf shall have the following properties:

STANDARD	**PROPERTY**	**SPECIFICATION**
	Yarn Structure – A	Polyethylene
ASTM D1577	Yarn Denier - A	5,040
ASTM D5823	Pile Height	5/8”
ASTM D5793	Stitch Gauge	3/8”

ASTM D5848	Pile Weight	133.1oz/square yard
ASTM D5848	Primary Backing	K-29 / 5 PIC
ASTM D5848	Secondary Backing	5 MM Foam
ASTM D5848	Total Weight	76 oz/square yard
ASTM D1335	Tuft Bind (Without Infill)	8+ lbs
ASTM D5034	Grab Tear (Width)	200 lbs/force
ASTM D5034	Grab Tear (Length)	200 lbs/force
	Total Product Weight	1386.5 lbs/roll

Variation of +/- 5% on above listed properties is within normal manufacturing tolerances

C. Carpet Rolls shall be 15’ wide rolls.

D. Backing:
   1. Primary backing shall be K-29 / 5 PIC
   2. Secondary backing shall be 5MM Foam

E. Non-tufted or inlaid lines and markings shall be painted with paint approved by the synthetic turf manufacturer.

F. Glue shall be as recommended by the synthetic turf manufacturer.

2.06 SYNTHETIC TURF MAINTENANCE EQUIPMENT (GROOMER AND SWEEPER)

A. Contractor shall supply one field groomer and one sweeper. Sweeper shall have a debris collection attachment that shall pick up 1/4-inch diameter and larger material, but leave sand and rubber infill material. The groomer shall have plastic brushes and metal tines that are adjustable.

B. Grooming Product: “Synthetic Turf Sports Turf Groomer – model 920SDE” groomer with STR- Rear-Mounted Spring Tine Rake and 924SD- Extension Wings by GreensGroomer, including base unit with 164 linear inches of brushes, electric lift for raising and lowering, with powder coated frame, super duty synthetic bristle brushes, integrated pneumatic wheels, adjustable spring steel de-thatching tines, and detachable/foldable brush extension wings, as manufactured by GreensGroomer, 888-298-8852, or acceptable equivalent product.

C. Field Sweeper: “LitterKat - model 760 SFM” sweeper with magnet by GreensGroomer. 888-298-8852. This is a sweeper with basket attachment and tow-behind magnet.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verify the base, as specified in Section 32 18 14 - Synthetic Turf Base, has been installed and approved by Owner’s Representative and turf manufacturer.

B. Use a 2-5-ton static roller or other acceptable compactor to repair and properly compact any disturbed areas of the prepared base.

C. Do not proceed with installation of turf until unacceptable base conditions have been corrected.

3.02 INSTALLING THE SYNTHETIC TURF

A. The installation shall be performed in full compliance with the reviewed and accepted product submittal.

B. Only trained technicians, skilled in the installation of athletic caliber synthetic turf systems working under the direct supervision of the approved installer’s supervisor, shall undertake cutting, sewing, gluing, shearing, topdressing or brushing operations.

C. Strictly adhere to the installation procedures specified. Variance from these requirements shall be submitted to and accepted in writing, by the manufacturer's onsite representative, and submitted to the Owner, verifying that the changes do not, in any way, affect the warranty.

D. The turf manufacturer and installation subcontractor shall inspect and accept the field base, and provide documentation to that effect, prior to the installation of the synthetic grass system. The surface must be perfectly clean as installation commences and shall be maintained in that condition throughout the process.

E. The turf rolls are to be installed directly over the properly installed manufactured base material.
   1. No equipment with loads greater than 35 pounds per square inch shall be allowed on the field. Contractor is responsible for altering operations in order to adhere to this requirement.
   2. Contractor and synthetic turf installer shall strictly adhere to the written instructions provided by the manufactured base manufacturer for installing turf on top of their product.
   3. Contractor is responsible to assure vehicles being used on the manufactured base are equipped with pneumatic (air-filled) tires, preferably turf tires, designed to spread loads and minimize damage to surface. Foam filled or solid tires and tires with aggressive lug patterns shall not be used on the manufactured base without synthetic turf installed.
   4. Use of an A-frame for unrolling of the synthetic turf as recommended by the base manufacturer.

F. Cutouts in the synthetic turf shall be in accordance with the Drawings and approved submittals. Coordinate cutouts in turf with Owner's Representative before cutting turf for utility boxes and other structures.

G. The turf rolls shall be installed directly over the properly prepared base. Extreme care shall be taken to avoid disturbing the base, both in regard to compaction and planarity.

H. The full width rolls shall be laid out across the width of the field.

I. Utilizing standard state of the art sewing procedures each roll shall be attached to the next. After all of the rolls of the playing surface have been installed, the sideline areas shall be installed at right angles to the playing field turf.

J. The synthetic turf field shall utilize sewn seams. Minimum gluing will only be permitted to repair problem areas, corner completions, and to cut in any logos or inlaid lines as required by the Specifications.
   1. Seams between turf panels shall be sewn. Seams shall be sewn using double bagger stitches and polyester thread. Seams shall be flat, tight, and permanent with no separation or fraying.
   2. Inlaid markings that cannot be tufted into the fabric shall be installed by means of shearing out the existing green fiber and laying in a new piece of colored fabric into a bed of suitable "hot melt" adhesive placed directly on the original turf backing material.
      a. Inlaid markings shall not be installed by means of cutting through the fabric and adhering the colored turf to a separate reinforcing tape or cloth.

K. Connections of the perimeter synthetic turf edges shall be completed by one of the following two methods and as shown on the Drawings:
   1. Connection to perimeter concrete edges with the specified adhesive.
   2. Connection to the recycled plastic header boards shall be done with industrial staples. Minimum embedment depth of fasteners shall be 1 inch with spacing a maximum 2 inches on center.

L. The infill materials shall be installed to fill the voids between the fibers and allow the fibers to remain vertical and non-directional.
   1. Apply in thin lifts to depth specified. The turf shall be brushed as the mixture is applied.
   2. The mix shall be uniform and even in thickness to assure proper playing characteristics.
   3. The infill shall be placed with a void of 3/4 inch to the top of the fibers.

3.03 FIELD QUALITY CONTROL

A. After completion of the synthetic turf installation, and prior to Substantial Completion of the project, the Contractor shall have installation tested for shock absorbency.
   1. Site testing shall be at ambient shaded air temperature of 40–100 degrees F.
   2. Field test measurements shall be made at a minimum of 6 locations and shall avoid areas where 2 seams cross.
   3. Testing shall be made, at the Contractor's expense, by an independent testing laboratory accredited for such tests and pre-approved by the Owner.
   4. Testing and analysis by the testing laboratory shall provide the necessary data to the Owner that verifies the finished field does not exceed shock attenuation of 160 as determined by the ASTM F355A and F1936 test procedures.
   5. Testing and analysis by the testing laboratory shall provide the necessary data to the Owner that verifies the finished field does not exceed shock attenuation of 120 as determined by the ASTM F355A and F1936 test procedures.

B. Test results that do not meet the specified shock attenuation, or if any one test value is 10 percent greater in variance than the specified values, then the Contractor's field installer shall address the failed test area, be required to retest the entire field as stated above, and conform to these requirements prior to acceptance by the Owner.

C. The Contractor shall provide the following prior to Final Acceptance and the Owner filing the Project Notice of Completion:
   1. Written warranty as specified with forms completed in Owner's name and registered with manufacturer and insurance carrier.
   2. Information confirming that the third-party insurance policy, non-cancelable and pre-paid, is in effect covering this installation, and underwritten by a Best "A" Rated Insurance Carrier. Insurance carrier shall confirm that the policy is in force and premiums paid.
   3. Three copies of Maintenance Manuals, which will include all necessary instructions for the proper care and preventive maintenance of the turf system, including painting and markings.
   4. Project Record Documents, in accordance with Section 01 78 39 with plans showing actual locations of seams and other pertinent information.

3.04 DEMONSTRATION AND TRAINING:

A. Upon completion of the field installation, Contractor shall have a supervisory person provide a minimum 3-hour field training seminar with the Owner's personnel on how to care for the field.

B. At a minimum, seminar shall include a demonstration of how use of the sweeper and groomer, how to care for the field with the groomer and sweeper, review the entire provided maintenance manual including the proper procedure for removal of gum and other debris, and answer any questions.

3.05 MAINTENANCE

A. Manufacturer shall be responsible for the testing of the G-max levels of the installed synthetic turf at the completion of years 2, 4, 6, and 6 months prior to the completion of year eight of the warranty period.

B. Testing shall be completed by an independent testing laboratory accredited for such tests and shall be pre-approved by the Owner. Testing and analysis of findings shall be completed by testing laboratory's qualified persons utilizing the required techniques outlined in the ASTM F355 test standard.

C. If tests results indicated turf playing field does not fall within the G-max range specified, the manufacturer will be required under terms of its warranty to modify the field composition to the sole satisfaction of the Owner so that it falls within the target G-max range. A failed test shall be retested to verify that the field meets the specifications.

D. Costs associated with testing and corrective work shall be at no cost to the Owner.

3.06 MAINTENANCE CONTRACT

A. If the proposed regular maintenance contract cost for the duration of the warranty is selected by the District, the Turf contractor shall provide one maintenance service visit per year for the first three years of the 8 year warranty, then semi-annual visits (i.e. twice a year) for the remaining 5 years of the warranty period. Each maintenance service visit shall include the following:

1. One (1) Turf Contractor/Maintenance Contractor grooming session including:
    a. A general sweeping to remove foreign objects such as dirt, leaves, bird droppings, chewing gum and other debris that may collect on the field surface.
    b. A deep groom sweep and rejuvenation to de-compact infill and in an effort to maintain appropriate G-Max levels, as well as clean the infill from deleterious matter contaminating the infill material.
    c. All accumulated debris and contaminating material shall be off-hauled and disposed of in a legal manner by the Turf Company.

2. Overall analysis and inspection of the field and its applicable systems, including fiber wear analysis, ultraviolet degradation, infill depth and consistency, infill migration, field edging attachments, sewn and glued seams, line verification and field inserts (inlays).

3. Minor repairs (sewing/adhesive failures, inlay separation, and general workmanship) as needed, of items found relating to the synthetic surface.

END OF SECTION

SECTION 32 31 13

CHAIN LINK FENCING

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: chain link fencing improvements as shown on the Drawings including, but not necessarily limited to, the following:
   1. Galvanized chain link fabric, posts, gates, and hardware.
   2. Chain link fence Baseball / Softball backstop(s) with baseboards.
   3. Chain link fence with integrally woven privacy plastic slats
   4. Protective Tension netting systems.
   5. Batting cage(s) with chain link roof and interior netting.

B. Related Requirements:
   1. Section 01 33 00 - Submittal Procedures
   2. Section 09 91 15 – Exterior Site Painting
   3. Section 32 33 00 - Site Furnishings
   4. Section 32 13 13 – Concrete Paving
   5. Structural Drawings

1.02 REFERENCES

A. American Society for Testing and Materials (ASTM):
   1. A53/A53M-18 - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
   2. A123/A123M-15 - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
   3. A392-11a - Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric.
   4. F567-14a - Standard Practice for Installation of Chain-Link Fence."
   5. F1043-18 - Standard Specification for Strength and Protective Coatings on Steel Industrial Fence Framework.
   6. F1083-18 - Standard Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures.

B. American Welding Society (AWS):
   1. A2.4: "Standard Symbols for Welding, Brazing and Nondestructive Examination."
   2. B2.1: "Specification for Welding Procedure and Performance Qualification."
   3. D1.1: "Structural Welding Code – Steel."
   4. D19.0: "Welding Zinc-Coated Steel."

C. Chain Link Fence Manufacturers Institute (CLFMI): Product Manual CLF-PM0610.

D. Industrial Steel Guide for Fence, Rails, Posts, Gates and Accessories.

E. State of California, Business and Transportation Agency, Department of Transportation (Caltrans) "Standard Specifications."

1.03 ADMINISTRATIVE REQUIREMENTS

A. Submittal Procedures: Action and Informational Submittals shall be submitted in accordance with Section 01 33 00 - Submittal Procedures.

B. Sequence and Scheduling: Contractor shall coordinate construction timing of chain link fencing and related work with installation of concrete work specified in Section 32 32 15 – Landscape Concrete, Section 32 13 13 – Concrete Paving, structural plans and specifications, and all other work.

1.04 ACTION SUBMITTALS

A. Shop Drawings: To scale drawings showing all different types and sizes of backstop unit(s, gates, fencing and/or netting, padding, slats, and windscreen systems.
   1. Shop Drawings shall include, but may not be limited to:
      a. All information regarding clearances, connections, components and any miscellaneous related appurtenances (such as wood baseboards at backstops, locking mechanisms etc.).
      b. Concrete footing and reinforcement information.
   2. Indicate materials, dimensions, sizes, weights and finishes of components. Include plans, elevations, sections and other required installation and operational clearances, connections, components and miscellaneous related appurtenances such as wood baseboards at backstops and locking mechanisms.
   3. Show required field measurements and interface with work of other Sections. Provide details showing interface and anchorage of fencing and gates with adjacent construction, both new and existing.
   4. Details showing post anchorage, attachment and bracing. Provide setting drawings, templates, instructions, and directions for installation of anchorage devices.
   5. Details of gates and hardware.
   6. Welds, both shop and field, shall be indicated by AWS "Standard Symbols for Welding, Brazing and Nondestructive Examination," A2.4.

B. Product Data: Manufacturer's descriptive literature for materials and components of the chain link fencing system including coatings, fittings, and hardware.
   1. Include the manufacturer's name and catalog number for each item where applicable.
   2. Clearly identify which portions of the information on the printed literature are applicable if more than one product is shown.

C. Samples:
   1. Chain-link fabric, approximately 12 inches square, if requested by Owner’s Representative.
   2. Hardware and fittings Owner’s Representative.
   3. 12 inch square sample of protective netting.

   4. Sample of privacy slat system.

1.05 INFORMATIONAL SUBMITTALS

A. Installation Instructions and/or Drawings: Submit as applicable.

1.06 QUALITY ASSURANCE

A. Welding:
   1. Qualifications: Certified and qualified in accordance with AWS D1.1.
   2. Procedures and operations shall comply with AWS "Specification for Welding Procedure and Performance Qualifications," B2.1.
   3. Comply with AWS publication D19.0 "Welding Zinc-Coated Steel" for galvanized products.
   4. Welding inspector's qualifications shall be in accordance with AWS D1.1.

PART 2 - PRODUCTS

2.01 DESIGN AND PERFORMANCE CRITERIA

A. It is intended that all fencing, by area, receive the same finish coating wherever possible. Nuts, bolts, applicable moving portions of hinges etc. shall be painted to match with PVC touch-up paint in vinyl or powder coated systems.

B. Except as otherwise specified, comply with Chain Link Fence Manufacturers Institute (CLFMI) Product Manual.

C. Industry Standards: Materials and installation shall conform to the requirements of the Chain Link Fence Manufacturers Institute (CLFMI) "Product Manual."

D. Regulatory Requirements: Pedestrian gates and related hardware shall comply with applicable codes, including provisions for accessibility required by CBC Chapters 10 and 11B, Part 2; and the Americans with Disabilities Act (ADA) Standards for Accessible Design.

E. Bottom 10 inches of pedestrian gates shall have a smooth uninterrupted surface.

2.02 MATERIALS

A. Fabric: Galvanized steel wire complying with ASTM A392, Class 1, with not less than 1.2 ounce zinc coating per square foot.
   1. Selvage: Knuckled finish top and bottom.
   2. Fabric Type:
      a. Steel Fabric: Comply with Chain Link Fence Manufacturers Institute (CLFMI) Product Manual. Furnish one-piece fabric widths for fencing up to 16 feet high. Wire sizes includes zinc coating.
   3. Mesh Opening: 2 inches
   4. Wire Diameter: 9-gauge (0.148-inch diameter), unless noted otherwise.

Framework: Posts and rails shall be Schedule 40 pipe complying with conforming to ASTM F1083, Regular Grade, 30,000 psi Yield Strength, or ASTM F1043, Group 1-C, High Strength Grade 50,000 psi Yield Strength, galvanized with no less than 1.8 ounces of zinc coating per square foot of surface area complying with ASTM A123.
   1. Strength requirements for posts and rails shall conform to ASTM F1043 or F1083 as noted below.
   2. Pipe shall be straight, true to section, material, and sizes specified, and shall conform to the following weights per foot:

NPS in inches	Outside Diameter (OD) in inches	Type 1 Steel ASTM F1083 (30 KSI)	Type II Steel ASTM F1043 (50 KSI)
1	1.315	1.68	1.35
1.25	1.660	2.27	1.84
1.5	1.900	2.72	2.28
2	2.375	3.65	3.12
2.5	2.875	5.79	4.64
3	3.500	7.58	5.71
3.5	4.000	9.11	6.56
4	4.500	10.79	---

NPS in inches	Outside Diameter (OD) in inches	Type 1 Steel ASTM F1083 (30 KSI)	Type II Steel ASTM F1043 (50 KSI)
6	6.625	18.97	---
8	8.625	28.55	---

B. Fittings and Accessories:
  1. Unless specified otherwise, steel fence fittings and accessories shall comply with ASTM F626 and be galvanized in accordance with ASTM A53, with zinc weights per Table 1 of ASTM A153.
  2. Tension Wire: 7-gauge (0.177 inch diameter) coil spring steel with finish to match fabric.
  3. Tie Wires: 9 gauge (0.148 inch diameter) steel with finish to match fabric.
  4. Caps: Provide weather tight closure cap for each post and exposed ends of framing. Provide line post caps with loop to receive wire or top rail with finish to match fabric.
  5. Tension Bars: Hot-dip galvanized steel with minimum length 2 inches less than full height of fabric, minimum cross-section of 3/16 inch by 3/4 inch and minimum of 1.2 ounce zinc coating per sq. ft. of surface area.
  6. Tension Clips: Minimum 3/4 inch wide 12-gauge (.105 inch) thick with finish to match fabric.
  7. Truss Rods: Hot dipped galvanized steel rods with a minimum diameter of 5/16 inch (7.9 mm).
  8. Brace Bands: Hot-dip galvanized steel, heavy 1" wide x 11 gauge, sized appropriately for each post diameter. Use offset brace bands, one-way at end posts, and two-way at line posts, at large diameter posts where appropriate (4" NPS and greater) to ensure continuous chain link fence fabric alignment. Large diameter offset brace bands available from Fittings That Fit, Inc., Montclair, CA - (909) 248-2808

C. Hardware for Swinging Gates:
  1. General:
    a. Hardware shall be of adequate size and strength to provide proper operation of gates.
    b. Provide hinges, latching and locking devices, and other hardware as shown on the Drawings or required for a complete operable installation.
  2. Non-self-closing Hinges: Master Halco heavy duty, or acceptable equal.
  3. Self-closing hinges:
    a. For gates up to 330 lbs and 5-feet wide: Heavy-duty self-closing hinge with hydraulic damping, ADA compliant (requiring maximum 5 lbs of operating force per CBC 11B-309.4); Locinox Mammoth Heavy Duty “Mammoth180” or accepted equal.
    b. For gates up to 440 lbs and 6 and ½ -feet wide: Heavy-duty self-closing hinge with hydraulic damping, ADA compliant (requiring maximum 5 lbs of operating force per CBC 11B-309.4); Locinox Mammoth Ultra Heavy Duty “Mammoth-HD” or accepted equal.
  4. Self-closing hinge bracket for round gate post: Locinox CLB-Mammoth, or approved equal. Color to match fencing/gates.
  5. Panic Hardware:
    a. Panic bar requiring maximum 5 lbs of operating force per CBC 11B-309.4; Allegion “Von Duprin 98/99 – AX series” push pads, strike plates, and receiver brackets” or accepted equal.
    b. Pull Handle, Strike Plate, Guard Plate, and Mounting Plate shall be compatible with panic bar system, and be provided by Von Duprin, or accepted equal.
  6. Accessible Pull Handle:
    a. Operable parts shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist, requiring maximum 5 lbs of operating force per CBC 11B-309.4.
    b. One of the following to be selected by Owner’s Representative:
      1) Standard Operation: Von Duprin 996L
  7. Gate Latch Hardware:
    a. Gate latch hardware shall be sized to match receiving fence/gate post size.
    b. Provide and attach welded accessible pull handle where specified.
    c. Fulcrum gate latch, Model “#STRONG-ARM-SNG” by DAC Industries, available from Hoover Fence Co., (800) 355-2335.

D. Batting Cage Netting and Accessories:
  1. Sportsfield Specialties Inc., Delhi, NY, 408-728-0482; or equal
    a. Netting: #60 Knotted Nylon Netting, Model No. BSSN60
      1) Knotless Netting: Model BSSNUC – 1-3/4 inch (530 lb. min break strength).
  2. Netting shall be affixed to eyebolts with 1/4 inch minimum stainless steel aircraft cable.

E. Protective Tension Netting and Accessories:
  1. Sportsfield Specialties Inc., Delhi, NY, 408-728-0482; or equal
    a. Custom pole-to-pole tension netting system with Ultracross knotless Netting Black Model TNPPUC

2.03 ADDITIONAL MATERIALS AND COMPONENTS

A. Refer to Section 32 13 13 Concrete Paving.

B. Privacy Slats: Tubular PVC, UV-Light stabilized, flame resistant, self-locking, fastened to chain link fabric, sized to fit specified mesh opening and providing full privacy; “Fin/Slat 1000” by Master Halco, or equal
  1. Color: As selected by Owner’s Representative from reviewed submittals.

C. Backstop Baseboards: Surfaced Kiln Dried Douglas Fir painted with a primer coat and two coats of durable exterior enamel paint.
  1. Color: To be Sherwin Williams 6601 Tangger Red
  2. Install as shown on the Drawings.
  3. Galvanized or Stainless Steel Bolts and nuts shall be painted the same color as the boards after installation.

D. Galvanizing-Repair Paint: Minimum 82 percent zinc-dust-content paint for regalvanizing welds in galvanized steel, complying with FS DOD-P-21035a; “Z.R.C. Cold Galvanizing Compound” by ZRC Worldwide, “Cold Galv Primer” by Valspar, or equal.

E. Distance Banners, Signage and all other Applicable Attachments:
  1. Refer to Section 32 33 00, “Site Furnishings” for product information. Products shall be attached at each grommet location and per manufacturers recommendations. Grommets shall be located in thicker seamed areas. No attachment grommets in a single layer of fabric will be allowed.

F. Top of Fence Protective Cap: Attach with heavy duty zip ties, color matched. Sportsfield Specialties Inc, Delhi, NY 408-728-0482, or equal

PART 3 - FABRICATION

A. Welding: Welds shall be shop fabricated prior to galvanizing unless otherwise acceptable to Owner's Representative and were field welding is unavoidable.

B. Repair zinc coating damaged after fabrication with specified repair paint in accordance with ASTM A780, AHDGA publication, "Recommended Practice for Touch-up of Damaged Galvanized Coatings," and manufacturer’s recommendations for application of repair paint.

C. Steel Framework: System shall comply with the following minimum requirements.
  1. Round Posts, Rails, Braces, and Gate Frames: Type I galvanized steel pipe as specified.
  2. Top, Bottom and Horizontal Intermediate Rails: 1.66 inch outside diameter (1-5/8 inch outside diameter).
  3. Gate Frames: Single or double gate for nominal gate widths as follows:
    a. Under 6 Feet: 1.66 inch outside diameter (1-5/8 inch outside diameter).
    b. 6 Feet to 10 Feet: 1.90 inch outside diameter (1-7/8 inch outside diameter).
  4. Pedestrian Gate Square Posts, Rails, Braces, and Gate Frames (Height noted below)

a. 8 Feet and Under:
   1) Posts: 4" square galvanized.
   2) Header above Gate: 2" x 4" galvanized steel header.
   3) Gate Frame: 2" square (11 gauge) galvanized.
   4) All railing connections from square posts to round posts to be made by fencing contractor as necessary for secure connections throughout fencing system.
   5) Fencing contractor to submit shop drawings of square post and inclusion/connection to overall fencing system for approval by owner's representative.
b. Above 8 Feet – Refer to Structure Drawings and Calculations
   1) All railing connections from square posts to round posts to be made by fencing contractor as necessary for secure connections throughout fencing system.
   2) Fencing contractor to submit shop drawings of square post and inclusion/connection to overall fencing system for approval by owner's representative.

5. Batting Cage Roof: As noted on the Drawings.

D. Pole-to-Pole Tension Ball Safety Netting System upright support posts and pole structures – fabricated, sized, and configurated as required:
   1. Height above finish grade as required
   2. Two (2) coat powder coated process consisting of zinc gray epoxy primer and super durable silvadillo finish with enhanced resistance to UV and fade
   3. Ground sleeve, base plate or permanent embedment mount
   4. Hot dipped galvanized assembly hardware – quantities, sizes and configurations as required.

PART 4 - EXECUTION

4.01 PREPARATION

A. Prior to excavation, layout all fencing locations for review and acceptance by Owner's Representative.

B. Do not begin installation and erection before final grading is completed, unless otherwise permitted.

4.02 ERECTION

A. General: Erect chain link fence and related items in accordance with ASTM F567, in strict conformance with reviewed and accepted shop drawings, and manufacturer's recommendations.

B. Set all posts straight, plumb, and true to line.
   1. Set line posts at equal spacing not to exceed 10 feet on centers, in concrete footings (Refer to Concrete Paving Section 32 13 13)
   2. Slope tops of concrete footings so as to provide drainage away from posts.

C. Excavation: Drill or hand-excavate holes for posts to diameter and spacing indicated in firm, undisturbed or compacted soil.
   1. Unless noted otherwise, excavate holes for each post to minimum diameter recommended by fence manufacturer, but not less than 4 times largest cross section of post.
   2. Unless noted otherwise, excavate hole depths approximately 3 inches lower than post bottom, with bottom of posts set not less than 36 inches below finish grade surface.

D. Setting Posts: Center and align posts in holes 3 inches above bottom of excavation. Space chain link posts maximum 8 feet on center unless noted otherwise. Surface mount posts with mounting plates where indicated. Fasten with lag bolts and shields.

E. Top Rails: Run rail continuously through line posts caps, bending to radius for curved runs and at other posts termination into rail end attached to posts or post caps fabricated to receive rail. Provide expansion couplings as recommended by fencing manufacturer.

F. Bottom Rails: Install bottom rails between posts with fittings and accessories as shown in Drawings, as applicable.

G. Brace Assemblies: Install braces so posts are plumb when diagonal rod is under proper tension.

H. Tension Wire: As applicable, install at bottom of fabric (and at top if top rail is not specified) as shown in Drawings. Install tension wire before stretching fabric and attach to each post with ties. Secure wire to fabric with 12.5 gauge hog rings at 24 inches on center maximum.

I. Fabric: Leave approximately 2 inches between finish grade and bottom selvages (1 inch at backstops) unless otherwise indicated. Pull fabric taut and tie to posts, rails, and tension wires. Install fabric on infield or primary use side of fence, unless noted otherwise, and anchor to framework so that fabric remains in tension after pulling force is released.

J. Tension Bars: Provide one bar for each gate and end post, and two for each corner and pull post, except where fabric integrally woven into post. Thread through fabric, and secure to end, corner, pull, and gate posts with tension clips spaced not over 15 inches on center.

K. Tie Wires: Use U-shaped wire of proper length to secure fabric firmly to posts and rails with ends twisted at least 2 full turns. Bend ends of wire to minimize hazard to persons or clothing. Tie fabric to line posts 12 inches maximum on center and to rails and braces 24 inches maximum on center.

L. Fasteners: Install nuts for tension clips and hardware bolts on side of fence opposite fabric side. Peen ends of bolts or score threads to prevent removal of nuts. Cut all bolts within three threads of nut or less.

M. Field Welding:
   1. Field welds shall be completed by a Certified Structural Welder.
   2. Comply with applicable AWS specification for procedures of manual shielded metal arc welding, for appearance and quality of welds, and for methods used in correcting welding work.
   3. Repair zinc coating damaged by field welding as specified for shop welding.

N. Bolts shall be cut back to within three threads of the nut.

O. Fencing shall be provided with concrete edgebands unless otherwise noted. Edgebands shall have a minimum 4 inch clearance from edge of post to edge of concrete. Gates shall have the same edgeband width as adjacent fencing.

P. All Fencing Horizontal Alignment: Where occurring, contractor shall install posts of differing sizes with fabric-side face in alignment to allow for fence fabric to hang in a continuous vertical plane. Undulations of fence fabric at large-diameter posts (4" NPS and greater) will not be accepted. Use offset brace bands sized appropriately for each post size. Refer to post alignment details to indicate alignment of fabric (typically at interior side of field/court area, unless otherwise noted).

4.03 GATE INSTALLATION

A. Install gates as shown on the Drawings in accordance with reviewed submittals.

B. Cut, drill, and fit as required for installation.

C. Set work accurately in location, alignment, and elevation; plumb, level, and true; and free of rack; measured from established lines and levels.

D. Adjust items prior to securing in place so as to ensure proper matching of components and correct alignment.

E. Field weld all gate hinges to post and gate frame in place once gates are aligned and approved by Owner's Representative.

4.04 ADJUSTMENT AND TOUCH-UP

A. Inspect installed work. Verify that gates, controls, and hardware operate properly. Correct deficiencies.

B. Restore products and finishes damaged during installation and construction period so that no evidence of correction work remains.

END OF SECTION

SECTION 32 90 00

PLANTING

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes: Landscaping as shown on the Drawings including, but not be limited to the following:
   1. Soil preparation.
   2. Fine grading of landscape areas.
   3. Turf planting.
   4. Plant material.
   5. Turf Establishment Period.
   6. Landscape Maintenance Period.

B. Related Requirements:
   1. Section 02 41 13 - Site Clearing and Demolition.
   2. Section 31 01 90 - Landscape and Site Maintenance.
   3. Section 32 80 00 – Irrigation.

1.02 REFERENCES

A. American Joint Committee on Horticulture Nomenclature (AJCHN): Standardized Plant Names.

B. American Association of Nurserymen, Inc. (AAN): American Standard for Nursery Stock.

C. Sunset Western Garden Book, Lane Publishing Company.

D. Agricultural Code of California.

E. State of California, Business and Transportation Agency, Department of Transportation (Caltrans) "Standard Specifications."

1.03 ADMINISTRATIVE REQUIREMENTS

A. Submittal Procedures: Action and Informational Submittals shall be submitted in accordance with Section 01 33 00 - Submittal Procedures.

B. Coordination:
   1. Irrigation and drainage systems shall be inspected and tested before start of any Work of this Section. Before covering subsurface drains and any subsurface drainage weeps, Contractor shall inspect and be responsible for their performance.

1.04 ACTION SUBMITTALS

A. Plant Materials and Products:
   1. Thirty days prior to planting, submit 4 copies of documentation that plants specified have been ordered. Include names and addresses of suppliers.
   2. Substitutions: If substitutions are required, they shall be brought to the attention of the Owner's Representative, at time of submittal. Refer to Section 01 25 00 – Substitution Procedures for additional requirements.

B. Product Data:

1. Manufacturer's descriptive literature for products proposed for use.
2. Certified chemical analysis of the following:
   a. Fertilizers.
   b. Herbicides.

C. Samples: Submit 4 samples of the following in minimum 1-quart size "zip-lock" plastic bag:
   1. Soil amendment. Include current evaluation and sieve analysis.
   2. Mulch top dress.
   3. Topsoil, as applicable.

1.05 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Perform work in accordance with all applicable laws, codes, and regulation required by authorities having jurisdiction over such work and provide for all review and permits required by Federal, State, and local authorities in furnishing, transporting, and installing materials.
   2. Certificates of review required by law for transportation shall accompany invoice for each shipment of plants. File copies of certificates with the Owner's Representative after acceptance of material. Review by Federal or State governments at place of growth does not preclude rejection of plants at project site.
   3. Control of Work: Comply with Section 5 of the Standard Specifications.
   4. Control of Materials: Comply with Section 6 of the Standard Specifications.

B. Contractor shall employ on-site supervisor at all times during execution of the planting. Supervisor shall be thoroughly familiar and experienced with the materials and products being installed and proper methods of their installation. Notify the Owner's Representative immediately of changes in supervisory personnel.

C. Products and materials shall be new, first quality, and acceptable to the Owner's Representative.

D. Tree, Shrubs and Plants: Provide trees, shrubs and plants of quantity, size, genus, species and variety shown and scheduled for landscape work and complying with recommendations and requirements of ANSI Z60.1 "American Standard for Nursery Stock." Provide healthy, vigorous stock, grown in a recognized nursery in accordance with good horticultural practice and free of disease, insects, larvae, and other defects such as girdling or bound roots, knots, sunscald, injuries, abrasions, and disfigurement.

E. Analysis and Standards: Package standard products with manufacturers certified analysis. For other materials, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agriculture Chemists, wherever applicable.

F. Quality Review: The Owner's Representative will review trees and shrubs before planting for compliance with specified requirements for genus, species, variety, size and quantity. Owner's Representative retains right to further review trees and shrubs for size and condition of root systems, trunks, stems branches or structure, buds, and other required features, and to disqualify unsatisfactory or defective material at any time during the progress of work. Remove disqualified trees or shrubs immediately from project site and replace with materials acceptable to Owner's Representative.

1.06 DELIVERY, STORAGE, AND HANDLING

A. General:
   1. Ship plant material and seed with certificates of inspection required by governing authorities. Comply with regulations applicable to plant materials.
   2. Handle and store all products of this Section in such a manner as to protect them from damage at all times.
   3. Storage of products on-site shall be coordinated by the contractor in an orderly manner so as not to unnecessarily impede the work or reasonable use of project site.

B. Plants:
   1. Delivery: Coordinate with Owner's Representative. Provide proper identification for landscape labor force and vehicles at all times while on site.
   2. Storage: Coordinate with Owner's Representative. Provide exposure as required by plant variety and provide wind protection for all plants. Water regularly to maintain thorough moisture in root zone. Temporary, automatic irrigation system will be required at discretion of Owner's Representative if extended storage period becomes necessary. Protect dark colored plant containers from direct exposure to the sun.
   3. Labeling: At least one plant of each variety or type shall be legibly labeled at all times clearly indicating correct plant name as indicated on Drawings. Labels shall be durable with waterproof ink.

C. Fertilizers:
   1. Deliver in original, unopened containers with original labels intact and legible which state the guaranteed chemical analysis.
   2. Fertilizer, lime, soil sterilant, and all other potentially toxic products shall not be stored with any other landscape materials.

D. Bulk Material:
   1. Coordinate delivery and storage of bulk material with Owner's Representative.
   2. Confine materials to neat piles in areas acceptable to the Owner's Representative.

1.07 FIELD CONDITIONS

A. Planting operations shall not be conducted under the following conditions, subject to the discretion of the Owner's Representative:
   1. Freezing weather.
   2. Excessive heat.
   3. High winds.
   4. Excessively wet conditions.

1.08 WARRANTY

A. Contractor shall warrant work executed and all materials provided or used under this Section shall be free of defects and poor workmanship for a period of 1 year after Final Acceptance.

B. Contractor wall warrant plant materials shall be in a healthy and thriving condition 1 year after Final Acceptance, unless it can be proven that the unhealthy or non-thriving material is due to causes other than the Contractor's materials or workmanship.
   1. Replace dead plants and plants not in vigorous condition immediately upon notification by Owner's Representative during Warranty Period.
   2. Replaced plants shall be subsequently guaranteed by the Contractor for an additional year following date of replacement.
   3. Repair defective materials and work shall be acceptable to the Owner's Representative.

1.09 TURF ESTABLISHMENT PERIOD

A. Turf Establishment period shall include complete rooting of turf and at least 2 mowings as specified herein, prior to the commencement of the specified Landscape Maintenance Period.

1.10 MAINTENANCE PERIOD

A. Refer to Section 31 01 90 - Landscape and Site Maintenance for information.

PART 2 - PRODUCTS

2.01 TOPSOIL

A. Topsoil shall be clean on-site material that has been previously stripped from the top 6 inches of original grade or import material as applicable. Acceptable topsoil shall be free from rocks, stones, rubble, and clay clods over 1.5 inches in diameter, roots, toxins, and other deleterious materials.

B. Imported topsoil shall have an agricultural suitability test by a qualified soils laboratory, dated within 30 days of purchase.
  1. Submit samples and current soil fertility and structure analyses in the quantity specified.

2.02 FERTILIZERS

A. General:
  1. Fertilizers shall be of an acceptable brand with a guaranteed chemical analysis as required by USDA regulations.
  2. Fertilizers shall be dry and (except plant tabs) free flowing.

B. Pre-Plant Fertilizer: Shall be of the following chemical analysis:

Nitrogen:	6 percent.
Phosphoric Acid:	20 percent
Soluble Potash:	20 percent

C. Post-Plant Fertilizer: Shall be of the following chemical analysis:

Nitrogen:	16 percent
Phosphoric Acid:	6 percent
Soluble Potash:	8 percent

D. Plant Tabs: 7-gram tabs designed for 12-month slow release with the following chemical analysis by weight; “Gro-Power” or equal:

Nitrogen:	12 percent
Phosphoric Acid:	8 percent
Soluble Potash:	8 percent
Humus:	20 percent
Humic Acid:	4 percent
Sulfur:	3.5 percent
Iron:	2 percent
Micronutrients	

2.03 SOIL ADDITIVES

A. Soil Amendments: Organic Humus Compost
  1. Fully composted aerobic humus compost without presence of decomposition products. The organic matter content shall be at least 50% on a dry weight basis. Humus material shall have an acid-soluble ash content of no less than 6% and no more than 20%.
  2. The pH of the material shall be between 6% and 7.5%.
  3. The salt content shall be less than 10 millimho/cm @ 25° C in a saturated paste extract.
  4. Boron content of the saturated extract shall be less than 1.0 parts per million.
  5. Silicon content (acid-insoluble ash) shall be less than 50%.
  6. Calcium carbonate shall not be present if to be applied on alkaline soils.
  7. Types of acceptable products are composts, manures, mushroom composts, straw, alfalfa, peat mosses etc. low in salts, low in heavy metals, free from weed seeds, free of pathogens and other deleterious materials.

8. Composted wood products are conditionally acceptable [stable humus must be present]. Wood based products are not acceptable which are based on red wood or cedar.
9. Sludge-based materials are not acceptable.
10. Carbon:nitrogen ratio is less than 25:1.
11. The compost shall be aerobic without malodorous presence of decomposition products
12. The maximum particle size shall be 0.5 inch, 80% or more shall pass a No. 4 screen for soil amending.
13. Maximum total permissible pollutant concentrations in amendment in parts per million on a dry weight basis:

Arsenic	20	Lead	200	Silver	10
Cadmium	15	Mercury	10	Vanadium	500
Chromium	300	Molybdenum	20	Zinc	200
Cobalt	50	Nickel	100		
Copper	100	Selenium	50		

14. Soil Amendments for consideration are listed below:

    a. Soil Amendment: “Super Humus” Compost available from BFI Organics Inc., 1995 Oakland Road, San Jose, CA, 408-262-1401;

    b. “Organic Compost” available from Z-Best Products Inc. 705 Los Esteros Road, San Jose CA, 408-934-6152;

    c. Soil amendment submittal shall include sieve analysis as well as an agronomic soil analysis using a saturation extraction test. prepared by a qualified soil lab. Upon direction of owner’s representative, contractor to provide, at contractor’s sole cost, updated testing results for review and approval that are dated within 1 month of submittal date and prior to delivery of product to site.

B. Soil Conditioner: 4 percent sulfur; “Gro-Power Plus (5-3-1) by Gro-Power Inc., 800-473-1307, or equal.

C. Soil Sulphur: Agricultural grade, 99 percent pure, pelletized or granular form, not powdered.

D. Iron Sulphate: Non-staining iron with micro-nutrients, soil penetrant, trace minerals, and humic acids; “Gro-Power Premium Green” by Gro-Power Inc., 800-473-1307, or equal.

2.04 BIORETENTION SOIL MIX

A. Bioretention soil mixture in rain gardens shall have the following general characteristics:
1. Properties of bioretention soil mix:
    a. Consisting of the following mixture, measured by volume:
        1) 60-70% Sand
        2) 30-40% Compost
    b. Supportive of vigorous plant growth
    c. Able to achieve a long-term, in-place infiltration rate of at least 5 in/hr. and no more than 10 in/hr.
2. Supplier: ‘Biotreatment soil mix’ by TMT Enterprises. Contact: Matt Moore (408) 432-9040

2.05 MULCH TOP DRESS

A. Material: Medium-sized, 3/4 inch to 2 inches, decorative chipped wood, homogenous in appearance, free of deleterious and inorganic material, sticks, shredded, stringy, and fibrous materials; “Golden

Nuggets" from Sun Up, 800-222-255; "MBC Red" from My Bark Company, Inc., 209-786-4042; "or equal.

B. Non-floating Mulch (for use in Bioretention Areas): Medium-sized, 3/4 inch to 2 inches, decorative chipped wood, homogenous in appearance, free of deleterious and inorganic material, sticks, shredded, stringy, and fibrous materials, consisting of dense wood source that does not float or migrate when inundated with water. "Float resistant Bioretention Mulch" from Zanker Landscape Materials, (408) 586-9292.

2.06 PLANTS

A. General:
   1. Plants shall conform to the species and minimum sizes shown on the Drawings.
   2. Quantities shown on the Drawings are for the Contractors convenience only. Contractor shall provide plant material to fulfill the intent of the Planting Plan at the discretion of the Owner's Representative.

B. Condition: Plants shall conform to the following minimum requirements:
   1. Nursery grown unless otherwise specified.
   2. Supplied in appropriate container, balled and burlapped, or bare root as specified on Drawings.

2.07 SEED MIXES

A. Seed mixes and seed from which sod was grown shall be, or shall have been:
   1. From current or latest seasons crop.
   2. Free of all noxious weed seed and have producers "Statement of Analysis Guarantee."
   3. Kentucky Blue varieties shall be 97 percent pure and 85 percent germination.
   4. 98 percent pure by weight with a 90 percent germination rate.
   5. Weed seed shall be less than .25%
   6. Labeled in conformance to State and U.S.D.A. laws and regulations.

B. Mix: Turf seed mix subject to acceptance by the District's Representative, shall be as follows:
   1. Sports Turf Mix: from Delta Bluegrass Co, or equal, in the following percentages and applied at a rate of 435 pounds per acre:

Percentage	Grass
40%	Firecracker GLS Tall Fescue
40%	Titanium GLS Tall Fescue
10%	Stellar 4GL Perennial Ryegrass
10%	Navy Kentucky Bluegrass

2.08 TURF SOD

A. Harvest and Delivery:
   1. Harvest from source and deliver to project site within 24 hours.
      a. Deliver only as much sod as can be installed in one day's work.
      b. Sod not transplanted within this time period shall be reviewed prior to installation.
   2. Comply with requirements in "Specifications for Turfgrass Sod Materials" and "Specifications for Turfgrass Sod Transplanting and Installation" in Turfgrass Producers International's (TPI) "Guideline Specifications to Turfgrass Sodding."
   3. Protect sod from breakage and drying.

B. Sod shall be as follows:

1. Rye grass and Bluegrass blend with the following seed couth percentage
   a. 90 Percent Rye Grass
   b. 10 Percent Bluegrass
2. Sod shall have a 3/4 inch cut or thickness.
3. Sod shall be large roll cut.
4. Sod shall have a peat or sand / peat base.

C. Source: Delta Bluegrass Co. (Rye Blue) 888-637-8873

2.09 HYDROSEED SLURRY

A. Hydroseed slurry shall contain the following (or acceptable equal), thoroughly mixed and applied per acre. Method for hydroseeding shall be a two-step hydraulic straw treatment as follows:

Step One

Lbs/acre	hydroseed mix
o 2000	Hydro straw™ straw and tack mulch
o 1000	7-2-3 Biosol
o As specified	Tahoma 31
o 60	AM 120 mycorrhizal inoculant

Step Two

Lbs/acre	hydroseed mix
o 2000	Hydro straw™ straw and tack mulch

B. Hydroseed slurry shall contain green dye at a rate common to the industry so that hydroseed coverage can be confirmed visually from a distance.

C. Equipment used for application of hydroseed slurry shall be a commercial type hydro-seeder and have built-in agitation system with an operational capacity sufficient to agitate, suspend and homogeneously mix slurry. Tank capacity shall be a minimum of 1,500 gallons and shall be mounted on a truck to allow access to site. Distribution lines shall be large enough to prevent stoppage and allow for even distribution of slurry over the site. Pump shall be able to generate 150 psi at the nozzle.

D. During first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1-1/2 inches below sod.

2.10 HERBICIDES

A. Pre-Emergent: “Ronstar-G” pelletized, “Surflan” liquid, or equal.

B. Other Herbicides: Submit for review and accepted by Owner’s Representative prior to use.

2.11 ADDITIONAL MATERIALS

A. Water: Clean, fresh, and free of substances or matter which could inhibit vigorous growth of plants.

B. General: Products and materials shall be new, first quality as acceptable to the Owner’s Representative.

C. Tree Stakes and Ties: As shown and specified on the Drawings.

D. Header Board: As shown and specified on the Drawings.

E. Root Barriers: Model #UB 24-2 “Universal Barrier” by Deep Root Partners L.P, 800-458-7668, or equal.

PART 3 - EXECUTION

3.01 TOPSOIL INSTALLATION

A. Subgrade soil shall be cut or filled to the depth required such that after placement of required amount of topsoil and specified preparation procedures have been accomplished, specified finish grades will be attained.

B. Subgrade soil shall be cross-ripped as specified.

C. Planting areas shall contain a minimum of 6 inches of acceptable topsoil applied as applicable and where required. Only previously accepted topsoil shall be installed.

D. Refer to Section 31 20 00 – Earth Moving for rough grading information.

3.02 PREPARATION

A. Make provisions and take necessary precautions to protect existing and new improvements from damage during execution of planting work.

B. Initial Preparations:
   1. Prior to beginning of planting, thoroughly cross-rip, with second rip shall be performed at 90 degrees to first rip, planting area soil to a depth of twelve 12 inches.
   2. Remove all rocks, sticks, clods, debris, and other deleterious materials over one-half (1/2) inch in diameter from top 6 inches of soil.
   3. Float, rake, and roll all planting areas as necessary to establish smooth, clean, non-yielding planting beds.
   4. Prevent erosion of the soil between completion of soil preparation and planting.

C. Concrete Mowbands and Wood Header Boards: Install in accordance with the Drawings and repeat specified initial preparations as necessary.

3.03 SOIL PREPARATION AND FINISH GRADES

A. Soil Preparation:
   1. Thoroughly roto-till the following additives into the top 6 inches of planting area soil at the following rates per 1,000 square feet:
      a. Soil Amendment: 6 Cubic Yards.
      b. Soil Conditioner: 200 Pounds.
      c. Pre-Plant Fertilizer: 35 Pounds.
      d. Soil Sulfur: 20 Pounds.
   2. The above additive recipe shall be used by Contractor for establishing the cost of soil additives in the Contract sum.
      a. A site specific fertility test shall be performed by the Contractor after rough grading and applicable topsoil placement or replacement operations are complete. Soil shall be sent to testing agency shown below, or as approved by Owner's Representative, for tests.
         1) Testing agencies are as follows:
            a) Wallace Laboratories, El Segundo, CA, (310) 615-0116. Contact: Garn Wallace.
      b. The results of the testing will be reviewed by the Owner Representative and direction for amendment additives ratio will be provided.
      c. The Contract sum will be modified, in accordance with the procedures for changes in the work included in the Contract, if there is a variance from the above specified additives or quantities.

3. After additives are fully incorporated into the soil, the Contractor shall perform further testing to check conformance with the newly recommended materials and quantities. If deficiencies are found, the Contractor shall be solely responsible for the cost of adding deficient material as necessary and re-testing required to verify conformance.
4. Contractor shall also schedule 7 working days after soil samples have been taken to allow for receipt and evaluation of soil tests at no cost or delay to the project.

B. Planting Area Finish Grades:
1. After tilling in additives and re-compaction to 85 percent relative compaction, rake planting areas smooth and set finish grades as follows.
2. After soil preparation, finish grades of planting areas shall be 1 inch below adjacent paving, headers, utility boxes, irrigation boxes, and other in-grade items. Finish grade slopes shall be consistent.
3. Drainage structures, including catch basins, area drains, and concrete swales, shall be flush with finish grade to allow for proper drainage. Soil shall be sloped consistently from spot elevations provided to drain.
4. In planting areas to receive mulch, depth of mulch shall taper within 3 feet of paving edge to a depth from 3 inches to 1 inch at edge of pavement.
5. Irrigation head elevation relative to finish grade shall be installed as shown.
6. After sand channel drainage system, finish grade shall be re-established.
7. Infield fines and warning tracks shall be graded to be flush with depth of sod soil. If sod is at 3/4 inches, then that will be the difference of the sod subgrade to the infield fines finish grade prior to placement of the sod.

3.04 SOD INSTALLATION

A. General:
1. Soil preparation and fine grading shall be as specified.
2. Prior to sod installation, roll turf bed until a smooth, firm surface with uniform grade has been produced.
3. The turf bed shall be reviewed and accepted by the Owner's Representative prior to sod installation.

B. Placement:
1. Sod shall be unrolled into place with careful attention to tight joints with no overlapping or stretching.
2. Stagger the joints in each new row like rows of bricks with a minimum 18 inch minimum stagger. Use a sharp knife for shaping around trees, flower beds or borders. Immediately after placement, soak sod areas with water.
3. Roll sod after watering to smooth out bumps and air pockets, and roll again if sod is not even.
4. Water frequently for the first 10 to 14 days with enough water to saturate soil to a depth of 4 inches.
5. Do not allow sod dry out.

C. Provide and install temporary fencing around completed sod areas if not protected by other fencing. Use 6 foot high temporary fence for protection.

D. Refer to Section 31 0190 – Landscape and Site Maintenance for mowing and maintenance procedures. As applicable, the Contractor shall remove sod, re-grade any areas that have been rutted from mowers or otherwise damaged, and replace sod to the satisfaction of the Owner's Representative.

E. Until project Final Acceptance, should it become evident that certain sod areas have not grown, re-sod the areas immediately with sod of the same type as originally used and maintain as specified.

3.05 TURF HYDROSEEDING

A. General:
   1. Soil preparation and fine grading shall be as specified.
   2. Prior to seed installation, irrigation shall be tested, coverage test approved and be fully operational.
   3. The turf bed shall be reviewed and accepted by the Owner's Representative prior to seed installation.

B. Slurry preparation shall be performed at job site.
   1. Water, mulch, fertilizer and other ingredients shall be added to the tank simultaneously so that the finished load is a homogenous mix of specified ingredients.
   2. Seed shall be added last and shall be discharged in 2 hours.
   3. Slurry held over 2 hours shall be recharged with 1/2 the seed rate before application.
   4. Once fully loaded, the complete slurry shall be agitated for 3-5 minutes to allow for uniform mixing.

C. Apply hydroseed evenly and uniformly over areas to be seeded at rates specified. Apply in a sweeping motion to form a uniform application and form a mat at the specified rates.

D. Seeding shall occur before first germinating rains in the fall.

E. If mixture remains in the tank for more than 8 hours it shall be removed from the job site.

F. Remove or clean areas not intended to receive hydroseed treatment.

G. Provide and install temporary fencing around completed seeded areas. Using 6 foot tall construction fencing as specified for project.

H. Refer to Section 31 01 90 – Landscape and Site Maintenance for mowing and maintenance procedures. As applicable, the Contractor shall remove turf, re-grade any areas that have been rutted from mowers or otherwise damaged, and replace turf to the satisfaction of the Owner's Representative.

I. Until project Final Acceptance, should it become evident that certain areas have not grown, re-seed the areas immediately with seed of the same type as originally used and maintain as specified.

3.06 TURF ESTABLISHMENT PERIOD

A. Prior to commencement of specified maintenance period, turf shall be completely germinated and established, and a minimum of 2 mowings shall have taken place as follows:
   1. First mowing shall take place when turf has reached a height of 2.5 inches and turf shall be mown to 1 -3/4" inches. Submit written request to the Owner's Representative for acceptability of initiating first mowing.
   2. Thereafter, turf shall be mown weekly until turf is sod-like in appearance and quality, and all other contract requirements shall be fulfilled prior to allowing the maintenance period to commence.
   3. Contractor will receive a written notice of acceptance of turf establishment and to commence with landscape maintenance period.
   4. Owner's Representative will approve any phasing of turf areas to commence into the maintenance period. Areas may be approved in stages but will require contiguous areas of turf that are completely established.

3.07 TREE, SHRUB AND GROUND COVER PLANTING

A. These areas shall receive specified topsoil and soil amendments prior to commencing with tree, shrub and ground cover planting.

B. Layout: Coordinate layout of plants with Owner's Representative for review and acceptance.

C. Plant Pit Excavation:
  1. Excavate pits to sizes indicated in Drawings.
  2. Thoroughly scarify all sides of plant pits to remove "auger slick" and encourage root penetration.

D. Set trees and shrubs in pit on tamped backfill base as per Details. Set plumb and face for best appearance. Thoroughly scarify all plant root balls to eliminate any circling roots and to encourage root growth. Set plant so root crown will level with or be slightly above surrounding grade after settlement.

E. Backfilling:
  1. Backfill mix for 1 gallon size and larger shall consist of 100 percent native site soil with plant tabs added per manufacturer's recommendations.
  2. Tamp backfill mix under and around root balls.
  3. Flood plant pit when half backfilled; allow to drain.
  4. Complete backfilling. Tamp as necessary, do not over compact.

F. Watering:
  1. Thoroughly water plants immediately after planting.
  2. Construct water basins as specified in Drawings.

G. Finish Grade Restoration: Restore finish grades by hand raking. Dispose of excess subgrade soil.

3.08 TREE STAKING

A. Stake trees as shown in the Drawings.

B. Set stakes plumb, without damage to rootball and sufficiently deep to provide necessary support.

C. Tree ties shall be tied loosely enough to allow movement, yet taut enough to support tree.

3.09 HERBICIDE APPLICATION

A. Apply in accordance with manufacturers' recommendations.

B. Apply pre-emergent herbicide to soil prior to placement of bark mulch top-dress.

3.10 MULCH TOP DRESS

A. Apply 3 inches of specified bark mulch top dress to all non-turf and hydroseeded planting areas and other areas as may be specified in the Drawings. Trees in hyrdoseeded areas shall receive the tree well and mulch in the well.

B. Rake mulch top dress evenly to create a uniform surface and pull bark mulch top dress away from trunks or stalks of plants 1 to 2 inches.

C. Mulch shall dictate finish grade in planting areas.

3.11 INSTALLATION OF ADDITIONAL MATERIALS

A. Header Board: Install as shown on the Drawings.

3.12 FIELD QUALITY CONTROL

A. New turf areas shall be fenced off during turf establishment and specified Landscape Maintenance Period subject to the discretion of the Owner's Representative.

B. The Owner's Representative will review and accept the following prior to the Contractor proceeding with subsequent work:
   1. Preparation: At completion of finish grading and prior to planting, grading tolerances and soil preparation will be checked for conformance to Contract Documents.
   2. Layout of plants, header board, and other major items shall be as directed and accepted by the Owner's Representative.
   3. Pre-Maintenance Review: At completion of planting, work shall be reviewed for conformance with Contract Documents. Acceptance shall mark beginning of the specified maintenance period. If acceptance is not given, a punch-list of items requiring attention will be issued to the Contractor. One more review will be allowed after Contractor certifies in writing that the punch-list has been completed. Punch-list shall be completed to the satisfaction of the Owner's Representative prior to commencement of the Specified Maintenance Period.

C. Costs incurred from repeat reviews required due to Contractor not being prepared and other non-conformance with Contract Documents will be back charged to the Contractor.

END OF SECTION