



GENERAL NOTES

- 1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CURENT CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS, INCLUSIVE OF ALL CURENT REVISIONS AND AMENDMENTS, CALIFORNIA DEPARTMENT OF TRANSPORTATION CURRENT STANDARD PLANS AND SPECIFICATIONS (CALTRANS), INCLUSIVE OF ALL CURRENT REVISIONS AND AMENDMENTS, AND CA-MUTCD LATEST EDITION, INCLUSIVE OF ALL CURRENT REVISIONS AND AMENDMENTS THERETO. WHERE THERE IS A CONFLICT BETWEEN THE PLANS AND THE CITY'S STANDARD SPECIFICATIONS AND PLANS, THE CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS SHALL PREVAIL. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING THE IMPROVEMENTS IN ACCORDANCE WITH THE ABOVE-MENTIONED STANDARDS AND SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE COMPLETE WORK SCOPE AND ALL RELATED CONDITIONS PRIOR TO BID. ANY QUESTIONS OR DISCREPANCIES WITH THE INFORMATION SHOWN HEREIN MUST BE DIRECTED TO THE ENGINEER PRIOR TO BID.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTIONS AND COMPLETION OF THE PROJECT AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY PERMITS AND/OR LICENSES ARE SECURED PRIOR TO CONSTRUCTION.
- 4. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF STOCKTON FOR ANY WORK DONE WITHIN CITY RIGHTS-OF-WAY OR ON CITY-OWNED FACILITIES WITHIN AN EASEMENT. CONTRACTOR SHALL CALL THE PERMIT CENTER AT (209) 937 - 8366 TO REQUEST A CONTROL NUMBER AND ACTIVATE THE PERMIT NO LESS THAN 24 HOURS, BUT NOT IN EXCESS OF 72 HOURS PRIOR TO START OF WORK.
- 6. THE CONTRACTOR SHALL RECEIVE PRIOR APPROVAL FROM THE ENGINEER FOR ANY EXTRA WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER AT NO ADDITIONAL COST TO THE CITY.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FROM DAMAGE ALL EXISTING AND NEWLY PLACED IMPROVEMENTS THAT ARE TO REMAIN. SUCH IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST TO THE CITY.
- 8. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY AND SECURITY OF JOB SITE, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 9. THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT DRAWINGS SHOWING THE FINAL LOCATION OF FINAL IMPROVEMENTS. AS-BUILT DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR.
- 10. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- 11. ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH SECTION 7 OF THE CITY OF STOCKTON STANDARD SPECIFICATIONS.
- 12. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKERS FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. EXCAVATIONS OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATIONS PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR TRENCHES 8 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH SECTION 7-1.02K(6)(b) OF THE CALTRANS STANDARDS, SECTION 6705 OF THE STATE OF CALIFORNIA LABOR CODE, AND ANY LOCAL CODES OR ORDINANCES.

- 13. ATTENTION IS CALLED TO: SECTION 1541(b)(I) OF THE CONSTRUCTION SAFETY ORDERS (CALIFORNIA CODE OF REGULATIONS, TITLE 8), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, WHICH STATES: "THE APPROXIMATE LOCATION OF SUBSURFACE INSTALLATIONS, SUCH AS SEWER, TELEPHONE, FUEL, ELECTRIC, WATER LINES, OR ANY OTHER SUBSURFACE INSTALLATIONS THAT REASONABLY MAY BE EXPECTED TO BE ENCOUNTERED DURING EXCAVATION WORK, SHALL BE DETERMINED BY THE EXCAVATOR PRIOR TO OPENING AN EXCAVATION."
- 14. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE IN THE FIELD THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) 48 HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600.
- 15. IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF HIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW OR MODIFIED STRUCTURES, UTILITIES AND SERVICES WITHIN THE PROJECT LIMITS.
- 16. THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCHMARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY MONUMENTS, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERROR CAUSED BY HIS UNNECESSARY LOSS OR DISTURBANCE. THE CONTRACTOR SHALL CONSULT WITH A LICENSED LAND SURVEYOR OR CIVIL ENGINEER LICENSED TO PRACTICE LAND SURVEYING IN CALIFORNIA PRIOR TO BEGINNING CONSTRUCTION TO ENSURE THAT ANY PRECONSTRUCTION CORNER RECORDS, AS REQUIRED BY THE STATE OF CALIFORNIA PROFESSIONAL LAND SURVEYOR ACT HAVE BEEN FILED WITH THE COUNTY SURVEYOR, PURSUANT TO SECTION 8771(a-f) OF THE CALIFORNIA BUSINESS AND PROFESSION CODE.
- 17. ALL WORK IN THE PUBLIC RIGHT-OF-WAY IS SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE ENGINEER.
- 18. PRIOR TO PLACEMENT OF ANY FINISH ASPHALT CONCRETE OR CONCRETE, THE CONTRACTOR SHALL VERIFY ALL FINISH GRADES AND SLOPES FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND OBTAIN APPROVAL AND ACCEPTANCE BY THE ENGINEER.
- 19. THE CONTRACTOR SHALL LAYOUT IMPROVEMENTS FROM THE DIMENSIONS SHOWN ON THE PLANS. ANY CLARIFICATION OR CONFLICTS, DISCREPANCIES OR AMBIGUITIES SHALL BE DIRECTED TO THE ENGINEER PRIOR TO THE CONSTRUCTION OF THE IMPROVEMENTS.
- 20. DUST CONTROL SHALL BE PERFORMED AT ALL TIMES, AT THE CONTRACTORS' EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10-5 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF STOCKTON.
- 21. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING WATER, SEWER, AND DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL NEW IMPROVEMENTS ARE IN PLACE AND FUNCTIONING, EXCEPT WHERE OTHERWISE APPROVED.
- 22. INGRESS AND EGRESS BY PROPERTY OWNERS, BUSINESSES, AND OTHERS SHALL BE PROVIDED AT ALL TIMES DURING THE COURSE OF CONSTRUCTION UNLESS OTHERWISE APPROVED OR SPECIFIED.
- 23. SIDEWALK REMOVAL SHALL BE TO THE NEAREST SCORE MARK OR AS DETERMINED BY THE ENGINEER. CONTRACTOR SHALL NEATLY SAW-CUT CONCRETE WHERE PULL BOXES ARE TO BE PLACED AND SHALL RESTORE THE SLAB TO MATCH THE EXISTING CONDITION.
- 24. NEW SIDEWALK SHALL BE DOWELED INTO EXISTING SIDEWALK ACCORDING TO CITY STANDARD DRAWING NO. R-55.

TRAFFIC SIGNAL AND ELECTRICAL NOTES:

- 1. INSTALLATION OF NEW CONDUCTORS INTO EXISTING CONDUIT SHALL BE IN ACCORDANCE WITH SECTION 77-1.12 OF THE SPECIAL PROVISIONS. PRIOR TO INSTALLATION OF NEW CONDUCTORS/CABLES IN EXISTING CONDUITS, THE CONTRACTOR SHALL USE CABLE LOOSENER TO LOOSEN THE CONDUITS. THE CONTRACTOR SHALL ALSO USE PULLING LUBRICANT FOR PULLING WIRES, AND A PULL TAPE CONFORMING TO THE PROVISION DESCRIBED UNDER "CONDUIT", ELSEWHERE IN THE SPECIAL PROVISIONS.

- 2. POLES, PULL BOXES, DETECTOR HANDHOLES, INDUCTIVE LOOPS AND CONTROLLER CABINET LOCATIONS SHALL BE LOCATED IN THE FIELD BY THE CONTRACTOR WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER. TYPICALLY, DETECTOR HANDHOLES SHOULD BE INSTALLED ON LANE LINES.
- 3. CONTRACTOR SHALL MEET GENERAL ORDER (G.O.) 95 REQUIREMENTS AND LOCATE FOUNDATIONS SO AS TO PROVIDE A MINIMUM OF 6' RADIAL CLEARANCE FROM ALL EQUIPMENT TO OVERHEAD POWER LINES (PRIMARY) AND A MINIMUM OF 3' RADIAL CLEARANCE TO COMMON NEUTRAL LINES. SIGNAL POLES SHALL BE LOCATED TO PROVIDE A MINIMUM OF 10' RADIAL CLEARANCE TO PRIMARY LINES. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH WORKING WITHIN THE 10' RADIAL CLEARANCE ZONE.
- 4. CONDUIT ROUTING SHOWN IS DIAGRAMMATICALLY. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES OR ANY OTHER TRADES, AND TO THE SATISFACTION OF THE CITY OF STOCKTON. UPON COMPLETION OF CONDUIT INSTALLATION, THE ACTUAL LOCATION OF THE CONDUITS SHALL BE NOTED ON AN AS-BUILT SET OF PRINTS AND FURNISHED TO THE CITY.

TRAFFIC STAGING NOTES:

- 1. THE CONTRACTOR SHALL MAINTAIN ALL TRAFFIC CONTROL DEVICES AT ALL TIMES.
- 2. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM VIEW WHEN NOT IN USE.
- 3. THE ENGINEER HAS THE AUTHORITY TO INITIATE FIELD CHANGES AS NECESSARY IN THE INTEREST OF PUBLIC SAFETY.
- 4. ROAD CLOSURES SHALL REQUIRE WRITTEN APPROVAL FROM THE ENGINEER.
- 5. ALL NIGHT WORK WILL REQUIRE WRITTEN APPROVAL FROM THE ENGINEER. LANE CLOSURES, ROAD DETOURS, ROAD CLOSURES, AND TRAFFIC SIGNAL MODIFICATIONS ASSOCIATED WITH OVERNIGHT CONSTRUCTION ACTIVITIES WILL REQUIRE WARNING SIGNS BE PLACED AT LEAST ONE WEEK IN ADVANCE OF STARTING CONSTRUCTION.
- 6. CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY LIGHTING DURING THE COURSE OF ALL NIGHT WORK.
- 7. ALL WORKERS SHALL BE EQUIPPED WITH AN ORANGE SAFETY VEST (OR REFLECTIVE VEST AT NIGHT).
- 8. TRENCHES MUST BE BACKFILLED OR PLATED DURING NON-WORKING HOURS.
- 9. REFER TO SECTION 12 OF THE SPECIAL PROVISIONS REGARDING TEMPORARY ACCESS ROUTES FOR PEDESTRIANS (INCLUDING ADA) AND BICYCLISTS.
- 10. TEMPORARY "NO PARKING" SIGNS SHALL BE POSTED THREE (3) WORKING DAYS PRIOR TO COMMENCING WORK.
- 11. ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHER ARRANGEMENTS ARE MADE. SIGNS ON ROADWAY SHALL NOT BLOCK DRIVEWAY.
- 12. TRAFFIC CONTROL PLANS SHOWN HEREON ARE FOR GUIDANCE ONLY. CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLANS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. TO BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.



Consultant

City Approvals

**Public Works Department**

Approved by: *[Signature]*  
Date: 11/21/21  
City Engineer, Stockton, CA

Issue: 100% CDs W/ PLAN CHECK CORRECTIONS 9-20-2021

No.	Date	Description

Project

**McNair Soccer Complex Phase - 2**

9820 Ronald E. McNair Way  
Stockton CA 95210

Architect of Record	JH
Project Architect	JH
Drafted By	AP
Checked By	PN
File Date	

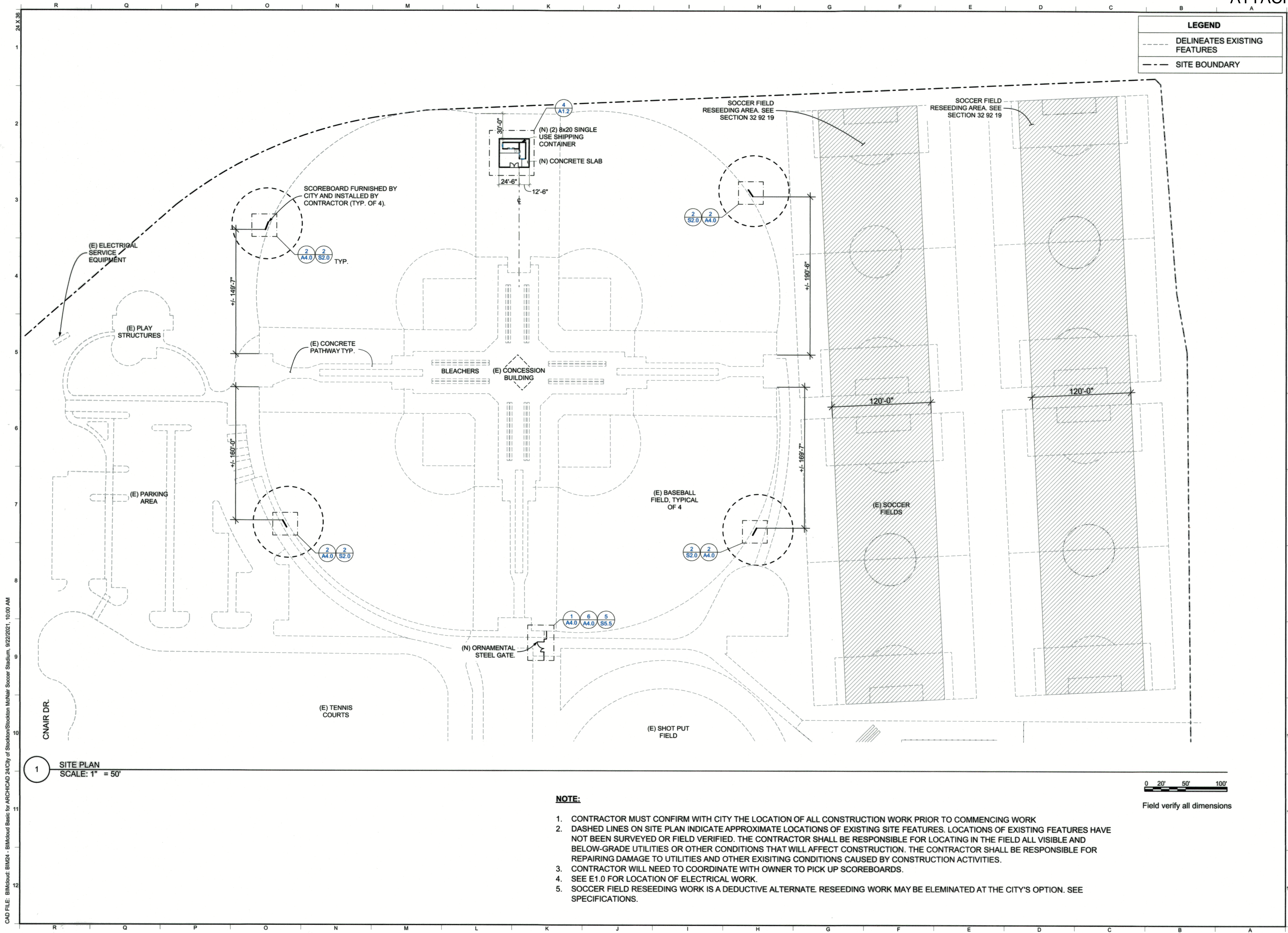
Sheet Title  
GENERAL NOTES

Project Number  
CR16024

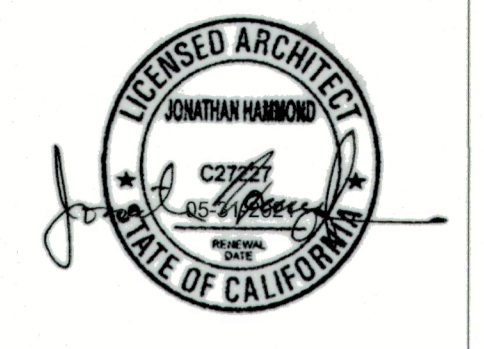
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CAD FILE: BIMcloud BIM24 - BIMcloud Basic for ARCHICAD 24/City of Stockton/McNair Soccer Stadium, 9/22/2021, 10:00 AM



CAD FILE: BIM24 - BIMcloud Basic for ARCHICAD 24/City of Stockton/Stockton McNair Soccer Stadium, 9/22/2021, 10:00 AM



Consultant

City Approvals

**Public Works Department**

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Sheet Title

**SITE PLAN**

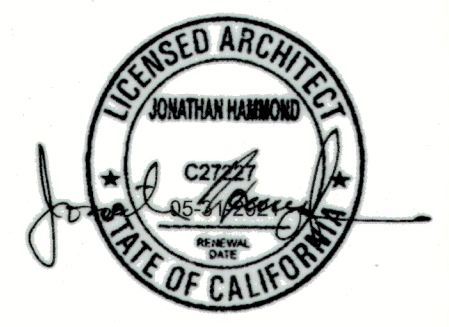
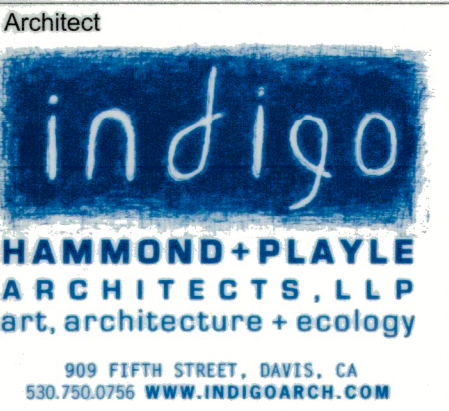
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Sheet Number	A0.1

**NOTE:**

1. CONTRACTOR MUST CONFIRM WITH CITY THE LOCATION OF ALL CONSTRUCTION WORK PRIOR TO COMMENCING WORK
2. DASHED LINES ON SITE PLAN INDICATE APPROXIMATE LOCATIONS OF EXISTING SITE FEATURES. LOCATIONS OF EXISTING FEATURES HAVE NOT BEEN SURVEYED OR FIELD VERIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING IN THE FIELD ALL VISIBLE AND BELOW-GRADE UTILITIES OR OTHER CONDITIONS THAT WILL AFFECT CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO UTILITIES AND OTHER EXISTING CONDITIONS CAUSED BY CONSTRUCTION ACTIVITIES.
3. CONTRACTOR WILL NEED TO COORDINATE WITH OWNER TO PICK UP SCOREBOARDS.
4. SEE E1.0 FOR LOCATION OF ELECTRICAL WORK.
5. SOCCER FIELD RESEEDING WORK IS A DEDUCTIVE ALTERNATE. RESEEDING WORK MAY BE ELEMENATED AT THE CITY'S OPTION. SEE SPECIFICATIONS.

5463.2C



City Approvals
Public Works Department
Approved by: [Signature]
Date: 11/2/21

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CORRECTIONS 9-20-2021

Table with 3 columns: No., Date, Description

McNair Soccer Complex Phase - 2

9820 Ronald E. McNair Way Stockton CA 95210

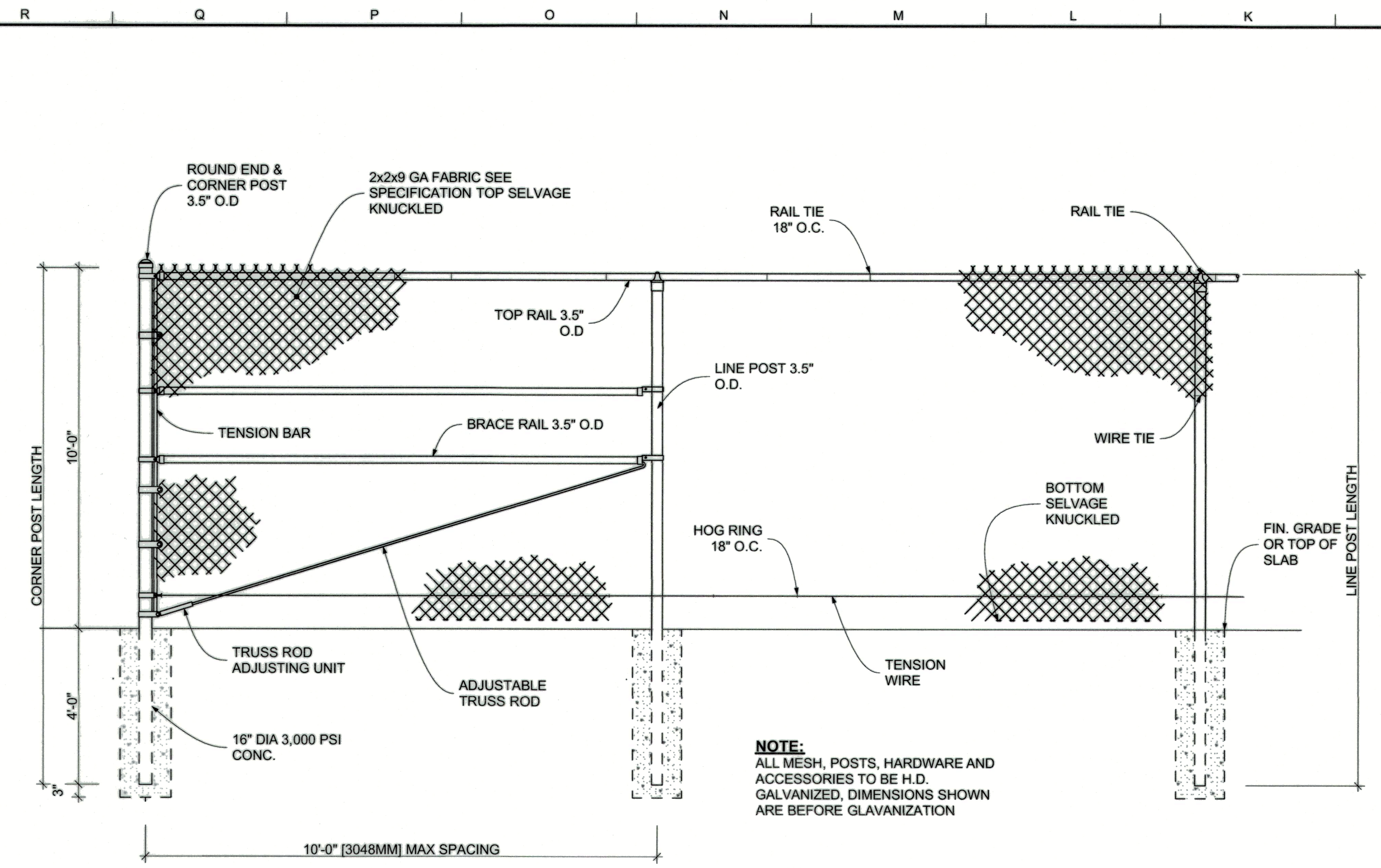
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ENLARGED PLAN & FENCE DETAIL

Project Number CR16024

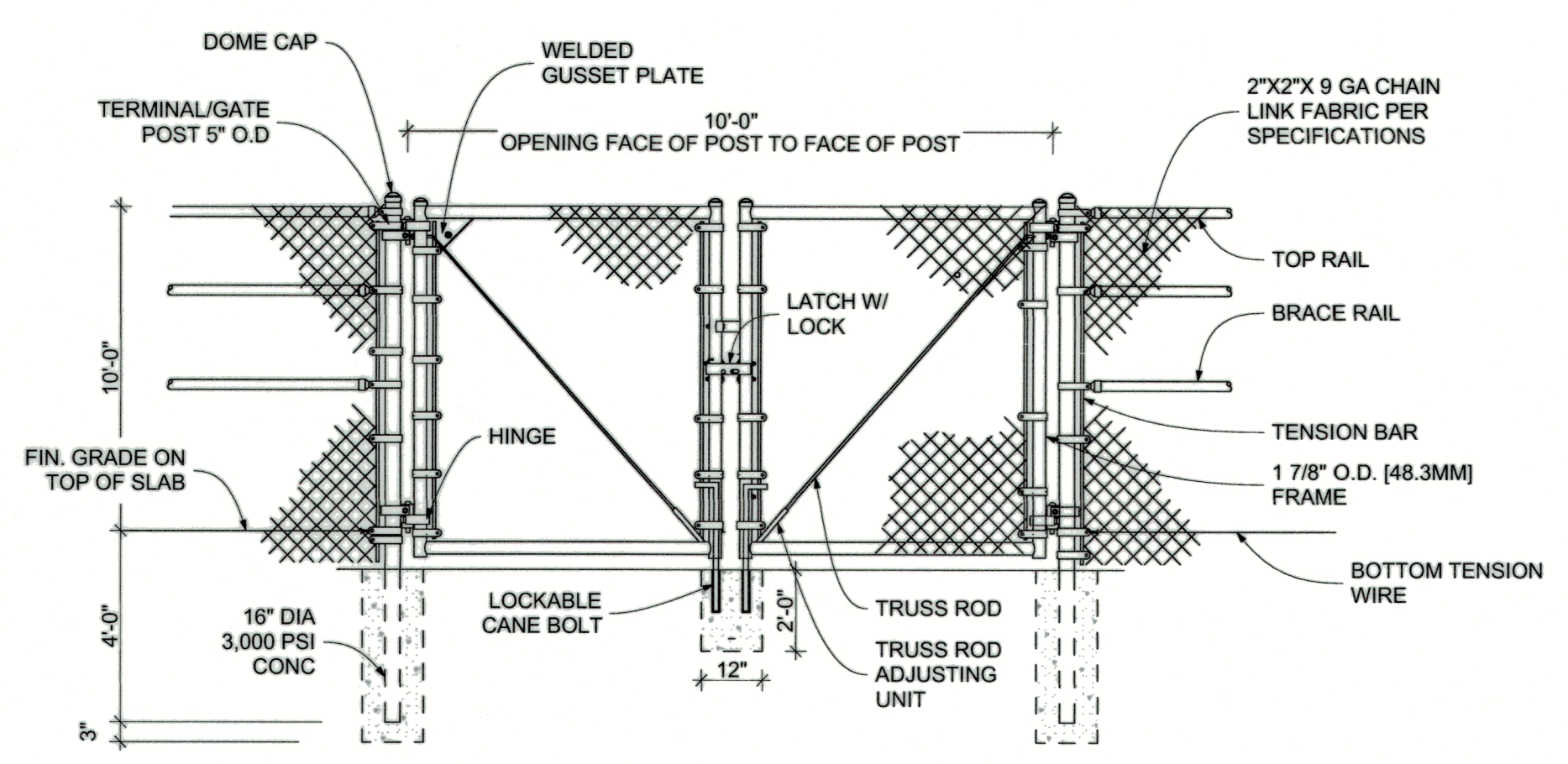
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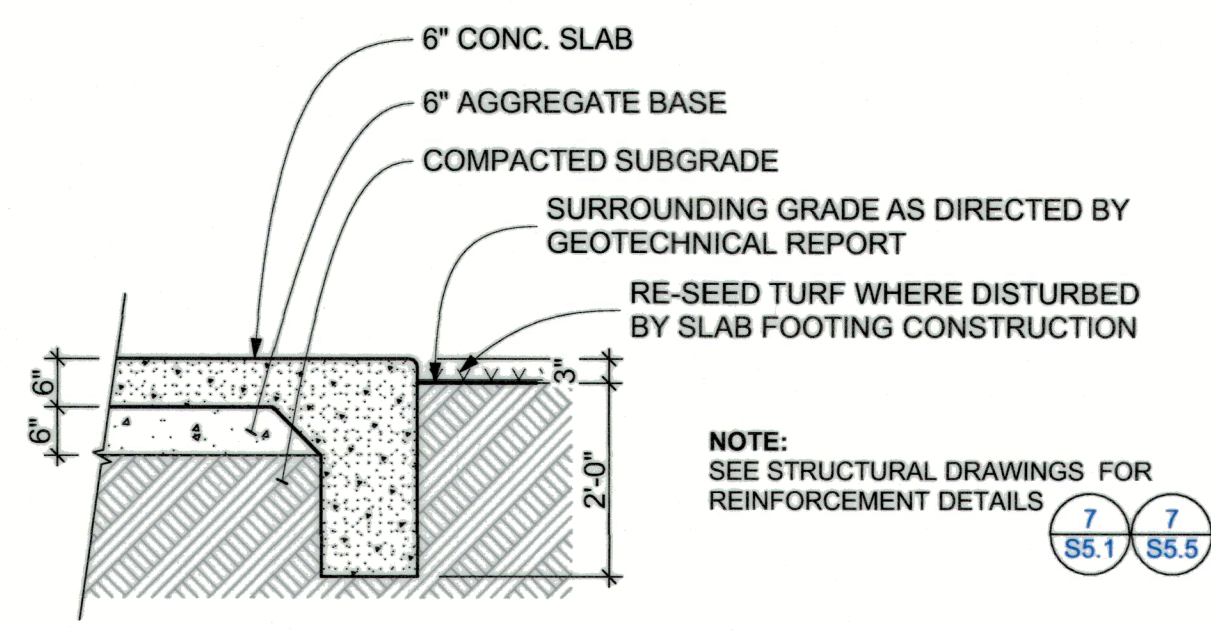
1 TYPICAL FENCE ELEVATION/SECTION

NOT TO SCALE TOP RAIL/TRUSSED BRACE RAIL BOTTOM TENSION WIRE



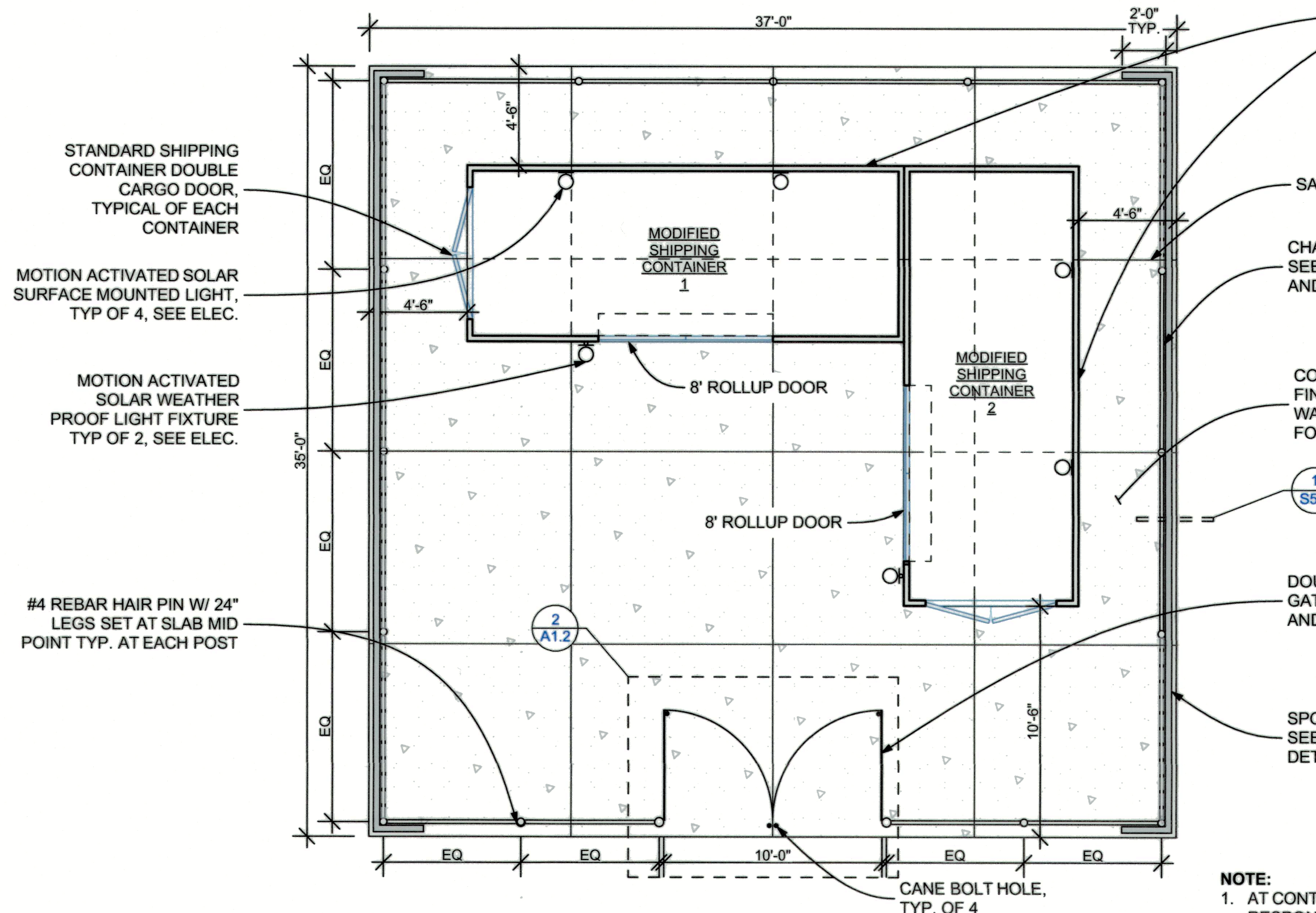
2 TYPICAL DOUBLE SWING GATE ELEVATION/SECTION

NOT TO SCALE TOP RAIL/TRUSSED BRACE RAIL BOTTOM TENSION WIRE



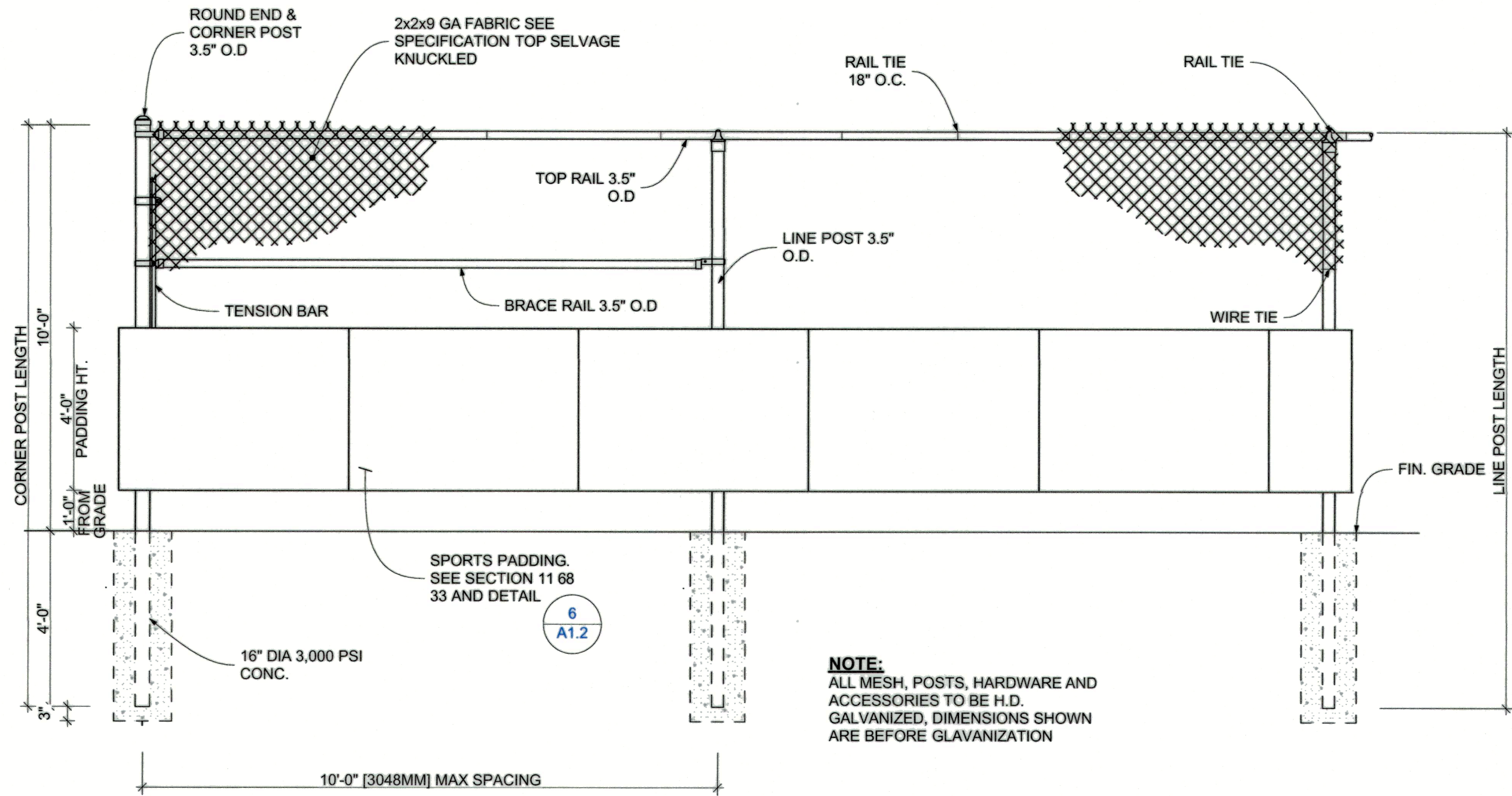
3 SLAB EDGE DETAIL

NOT TO SCALE



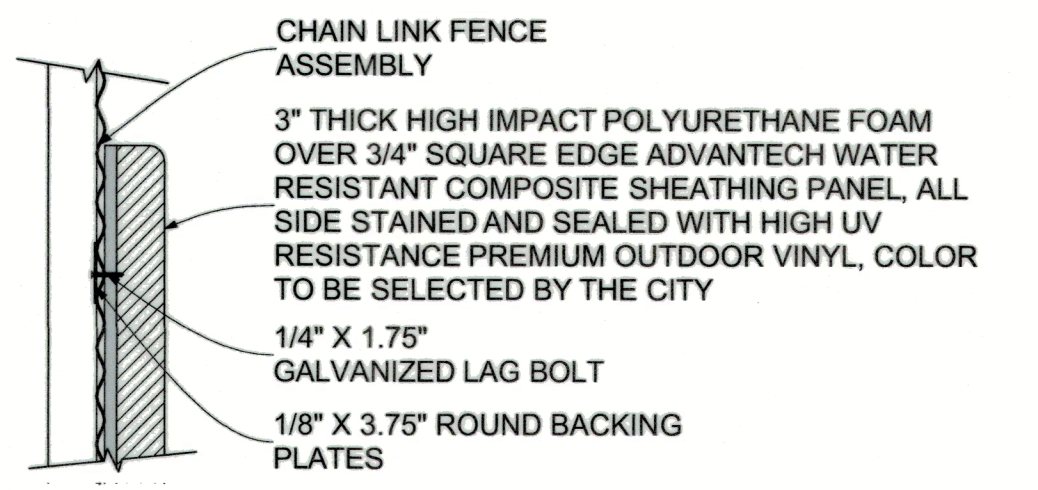
4 CONTAINER LAYOUT PLAN

SCALE: 1" = 5'



5 TYPICAL FENCE ELEVATION W/ SPORTS PADDING

NOT TO SCALE



6 SPORTS PADDING OVER CHAINLINK FENCE DETAIL

NOT TO SCALE TOP RAIL/TRUSSED BRACE RAIL BOTTOM TENSION WIRE

PROVIDE (2) 8X20 MODIFIED SINGLE USE SHIPPING CONTAINERS W/ BUILT-IN CARGO DOORS ONE SIDE; EACH RECEIVING FACTORY ROLLUP DOORS AND WOOD FLOORING; 8 ADDING FIELD INSTALLED MOTION ACTIVATED SOLAR LIGHTING AS INDICATED; SEE SECTION 11 68 31

STANDARD SHIPPING CONTAINER DOUBLE CARGO DOOR, TYPICAL OF EACH CONTAINER

MOTION ACTIVATED SOLAR SURFACE MOUNTED LIGHT, TYP OF 4, SEE ELEC.

MOTION ACTIVATED SOLAR WEATHER PROOF LIGHT FIXTURE TYP OF 2, SEE ELEC.

#4 REBAR HAIR PIN W/ 24" LEGS SET AT SLAB MID POINT TYP. AT EACH POST

SAWCUT CJ TO 1" DEPTH, TYP.

CHAIN LINK FENCE DETAIL SEE SECTION 32 31 13 ANDSEE DETAIL

CONCRETE SLAB, LT. BROOM FINISH, #4 REBAR 12" OC BOTH WAYS. SEE STRUCTURAL DWGS FOR DETAIL.

DOUBLE SWING CHAIN LINK GATE. SEE SECTION 32 31 13 AND SEE DETAIL

SPORTS PADDING ASSEMBLY SEE SECTION 11 68 33 AND SEE DETAIL

- NOTE: 1. AT CONTAINER SLAB AREA - CONTRACTOR SHALL RESPONSIBLE FOR REROUTING IRRIGATION LINES THAT RUN UNDER STORAGE AREA AND ADDING OR SUBTRACTING SPRINKLER HEADS AS REQUIRED TO ACHIEVE FULL COVERAGE OF TURF AREA. 2. NO NEW OR EXISTING IRRIGATION PIPES SHALL RUN UNDER THE SLAB. 3. RESEED TURF DAMAGED BY CONSTRUCTION OF SLAB AS DIRECTED BY CITY. 4. SLOPE SLAB 1% AS DIRECTED BY CITY ENGINEER.

NOTE: ALL MESH, POSTS, HARDWARE AND ACCESSORIES TO BE H.D. GALVANIZED, DIMENSIONS SHOWN ARE BEFORE GLAVANIZATION

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NOTE: SEE STRUCTURAL DRAWINGS FOR REINFORCEMENT DETAILS

NOTE: SECURE PADDING TO THE CHAIN LINK FENCE AS PER MANUFACTURER'S INSTRUCTIONS

CAD FILE: BIMcloud BIM24 - BIMcloud Basic for ARCHICAD 24/City of Stockton/Stockton McNair Soccer Stadium, 9/22/2021, 10:00 AM



City Approvals

**Public Works Department**

Approved by *[Signature]* Date *11/2/21*

City Engineer, Stockton, CA

Issue: 100% CDs W/ PLAN CHECK CORRECTIONS 9-20-2021

No.	Date	Description

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**McNair Soccer Complex Phase - 2**

9820 Ronald E. McNair Way  
Stockton CA 95210

Architect of Record: JH  
Project Architect: JH  
Drafted By: AP  
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Sheet Title

**GATE AND SCOREBOARD DETAIL**

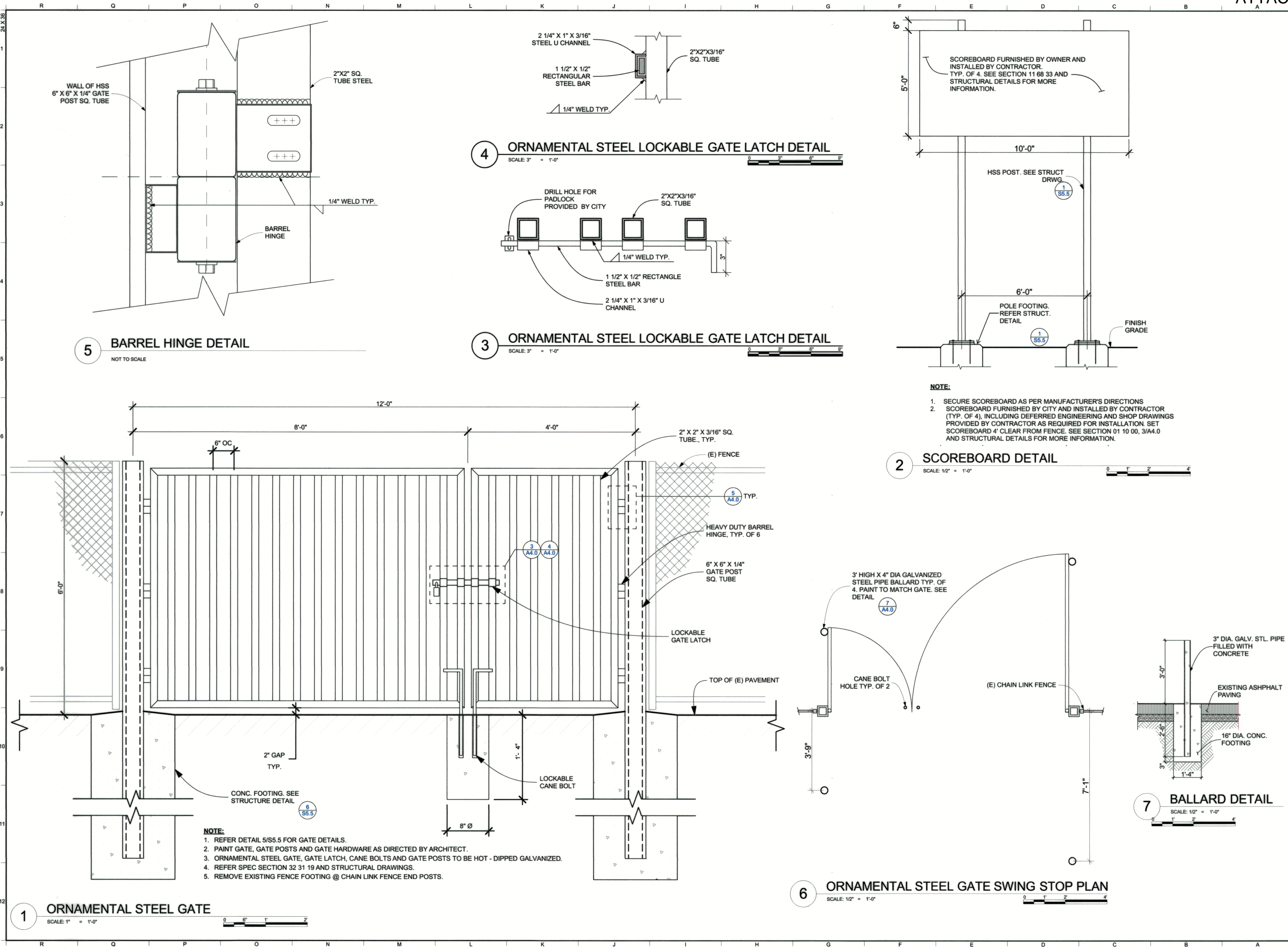
Project Number  
CR16024

Reference North

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CAD FILE: BIMcloud: BIM24 - BIMcloud Basic for ARCHICAD 24/City of Stockton/Stockton McNair Soccer Stadium, 9/22/2021, 10:00 AM

1. GENERAL:
A. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE 2019 EDITION OF THE CALIFORNIA BUILDING CODE AND ITS REFERENCED DESIGN STANDARDS.
B. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
C. DETAILS SHOWN ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED.
D. THE STRUCTURAL DRAWINGS AND DETAILS SHALL NOT BE SCALED. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION.
E. DIMENSIONS SHOWN SHALL TAKE PRECEDENCE OVER SCALE ON PLANS AND DETAILS, ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER.
F. SITE CONDITIONS THAT ARE NOT REFLECTED ON THE STRUCTURAL DRAWINGS OR THAT DEVIATE FROM THE MAXIMUM OR MINIMUM DIMENSIONS INDICATED SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER IN A TIMELY MANNER.
G. THE REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL ENGINEER IS FOR GENERAL COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS.
H. ALL DETAIL CHANGES DESIRED SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER IN WRITING.
I. THE RESPONSIBILITY FOR REVIEW AND COORDINATION OF DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF RELATED CONSTRUCTION SHALL BEAR ON THE CONTRACTOR.
J. LOADS TO THE BUILDING THAT EXCEED THE LOADS INDICATED IN THE STRUCTURAL DRAWINGS, OR ANY LOADS EXCEEDING 400 POUNDS THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE STRUCTURAL ENGINEER.
K. CONSTRUCTION/BUILDING MATERIALS SHALL BE SPREAD OUT IF PLACED ON THE STRUCTURE.
L. THE STRUCTURAL DRAWINGS SHOW THE REQUIREMENTS FOR THE COMPLETED STRUCTURE ONLY.
M. DEVIATIONS FROM EXISTING CONDITIONS WHERE INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE RESOLVED WITH THE STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH DEMOLITION WORK OR NEW CONSTRUCTION.
N. THE RESPONSIBILITY FOR NECESSARY SHORING OR BRACING OF THE STRUCTURE DURING CONSTRUCTION OR DEMOLITION SHALL BEAR ON THE CONTRACTOR.
O. CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, UTILITIES, ETC.
P. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SITE IMPROVEMENTS.
Q. INTERRUPTION OF MAINTENANCE OPERATIONS: BETWEEN THE 1ST OF MAY AND OCTOBER 31ST, THE PARK IRRIGATION SYSTEM SHALL NOT BE TURNED OFF FOR ANY LONGER THAN 3 CONSECUTIVE DAYS WITHIN ANY 10-DAY PERIOD.
2. DESIGN DATA:
A. WIND DESIGN DATA:
BASIC DESIGN WIND SPEED (V-LRFD): 95 MPH
RISK CATEGORY: II
WIND EXPOSURE: C
DESIGN WIND PRESSURE (FREE STANDING WALLS AND SIGNS - LRFD): SCOREBOARDS 28.9 PSF (AT 12'-6" AFF)
B. EARTHQUAKE DESIGN DATA:
RISK CATEGORY: II
SEISMIC IMPORTANCE FACTOR: 1.0
MAPPED SPECTRAL RESPONSE: SS = 0.681 S1 = 0.273
SITE CLASS: D
DESIGN SPECTRAL RESPONSE: SDS = 0.570 SD1 = 0.374
SEISMIC DESIGN CATEGORY: D
LONGITUDE/LATITUDE: 38.04292/-121.298122
3. POST INSTALLED ANCHORS:
A. GENERAL:
1) ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE REQUIREMENTS OF THE APPLICABLE CODE REPORT.
2) ANCHORS SHALL BE OF THE TYPE, DIAMETER AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDMENT, SPACING, EDGE DISTANCE) AS INDICATED ON THE DRAWINGS.
3) ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURERS PUBLISHED CODE REPORT.
4) ANCHOR SHALL BE TIGHTENED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
B. ADHESIVE ANCHORS OR REBAR INSTALLED WITH ADHESIVE:
1) ADHESIVE ANCHOR INSTALLERS SHALL BE TRAINED BY A QUALIFIED REPRESENTATIVE OF ADHESIVE MANUFACTURER ON THE PROPER PROCEDURES AND TECHNIQUES FOR INSTALLATION.
2) ADHESIVE SHALL BE STORED ON THE JOBSITE IN A COOL, DRY LOCATION IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS.
3) ADHESIVE ANCHORS SHALL NOT BE USED FOR OVERHEAD INSTALLATION UNLESS SPECIFICALLY DETAILED IN THE STRUCTURAL DRAWINGS.
4) ADHESIVE ANCHORS SHALL BE INSTALLED WHILE CONCRETE IS DRY AND ALLOWED TO CURE FULLY PRIOR TO REINTRODUCING WATER TO SYSTEM.
5) ADHESIVE ANCHORS FOR INSTALLATION IN SOLID NORMAL-WEIGHT CONCRETE SHALL BE ONE OF THE FOLLOWING AS NOTED ON THE PLAN:
C. EXPANSION ANCHORS FOR INSTALLATION IN CONCRETE OR MASONRY SHALL BE ONE OF THE FOLLOWING AS NOTED ON THE PLAN:
D. SCREW ANCHORS IN CONCRETE OR MASONRY SHALL BE ONE OF THE FOLLOWING AS NOTED ON THE PLAN:
E. POWDER ACTIVATED FASTENERS (PAF) IN CONCRETE, MASONRY OR STRUCTURAL STEEL SHALL BE ONE OF THE FOLLOWING AS NOTED ON THE PLAN:
4. FOUNDATION:
A. FOUNDATION DESIGN CRITERIA:
1) THE FOUNDATION SYSTEM WAS PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS MADE BY THE GEOTECHNICAL ENGINEER OF RECORD.
2) ALLOWABLE SOIL BEARING PRESSURE SHALL BE 2,000 PSF (D+L) ON PROPERLY COMPACTED FILL SOIL.
B. FOUNDATION DESIGN CRITERIA:
1) MIN FOOTING EMBED. BELOW ADJ. FIN. GRADE: 24 INCHES
2) DESIGN COEFF. OF SLIDING FRICTION: 0.3
3) DESIGN PASSIVE PRESSURE: 250 PCF
4) DESIGN ACTIVE PRESSURE: 60 PCF
C. FOUNDATION CONSTRUCTION:
1) SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH THE BUILDING CODE.
2) PLACE REINFORCING STEEL AND CONCRETE AS SOON AS POSSIBLE AFTER EXCAVATION FOR THE FOUNDATION.
3) CONCRETE SHALL OBTAIN THE SPECIFIED 28-DAY CONCRETE COMPRESSIVE STRENGTH PRIOR TO BACK-FILLING UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.
4) FOOTING AND UTILITY TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED IN LAYERS SUBJECT TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER.
5) ALL ABANDONED FOOTINGS, UTILITIES, ETC. THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED.
5. REINFORCED CONCRETE:
A. GENERAL:
1) ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI 318 AND CBC BUILDING CODES.
2) SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH THE BUILDING CODE.
3) READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
4) CEMENT SHALL CONFORM TO ASTM C150 TYPE I OR II, LOW ALKALI.
5) AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
6) AGGREGATES FOR LIGHTWEIGHT CONCRETE SHALL BE EXPANDED SHALE TYPE AND CONFORM TO ASTM C330.
7) FLY ASH SHALL CONFORM TO ASTM C618 CLASS F.
8) THE CONTRACTOR SHOULD BE AWARE THAT FLY ASH USE MAY SIGNIFICANTLY RETARD THE SETTING TIME OF CONCRETE.
9) CONCRETE MIX SHALL BE DESIGNED BY QUALIFIED TESTING LABORATORY AND SHALL BEAR THE SEAL AND SIGNATURE OF A CALIFORNIA LICENSED CIVIL ENGINEER.
10) MIX DESIGNS SHALL BE SUBMITTED TO STRUCTURAL ENGINEER OF RECORD (SEOR) FOR REVIEW AND APPROVAL PRIOR TO USE.
11) CONSTRUCTION AND CONTROL JOINTS SHALL BE PROVIDED AS INDICATED FOR WALLS, SLABS AND OTHER ELEMENTS.
12) CONDUIT, PIPES OR DUCTS SHALL NOT BE PLACED IN CONCRETE ON METAL DECK.
13) WHERE PERMITTED BY STRUCTURAL ENGINEER, CONDUIT OR SLEEVES WITHIN SLABS AND WALLS SHALL BE PLACED WITHIN THE MIDDLE THIRD OF THE THICKNESS OF THE SLAB OR WALL.
B. CONCRETE STRENGTH:
1) CONCRETE SHALL BE HARD ROCK AND OBTAIN A MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH (FC) AS FOLLOWS:
C. ANCHOR BOLTS (UNLESS NOTED OTHERWISE ON PLANS):
1) HOOKED BOLTS, HEADED BOLTS, THREADED RODS:
(a) SILL PLATES AND WOOD LEDGERS: ASTM F1555-36
(b) HOLDDOWN BOLTS: ASTM F1554-36 (NO HOOKS)
(c) WALL ANCHORS: ASTM F1554-36 (NO HOOKS)
(d) HIGH STRENGTH ANCHORS: ASTM F1554-55
(e) PEMB ANCHOR BOLTS: F1554-55
2) ANCHOR BOLTS EXTENDING THROUGH PRESSURE TREATED WOOD SHALL BE NOT DIPPED GALVANIZED AT LEAST FOR THE PORTION OF THE BOLTS IN CONTACT WITH PRESSURE TREATMENT.
3) ANCHOR BOLTS SHALL BE HAND TIGHT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
D. MISCELLANEOUS:
1) PROVIDE 1/4" CHAMFER ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE NOTED ON THE PLANS.
2) ANCHOR BOLTS AND DOWELS MUST BE SECURELY SUPPORTED IN PLACE BEFORE POURING CONCRETE TO ENSURE PROPER LOCATION PER PLAN.
E. VAPOR BARRIER: ASTM E 1745 CLASS A (SAME AS W.R. MEADOWS PERMINATOR, STEGO VAPOR BARRIER, OR RYDEN VAPOR BLOCK (10 MIL MIN))
F. CONCRETE BONDING AGENT (CBA):
1) SIKA ARMATEC 110 EPOCHEM
2) WR MEADOWS SEALTIGHT INTRALOK OR APPROVED EQUIVALENT.
3) PRIOR TO APPLYING CBA, EXISTING CONCRETE SURFACE SHALL BE ROUGHENED TO A 1/4" AMPLITUDE AND CLEANED OF ALL DEBRIS, APPLY CBA PER MANUFACTURERS RECOMMENDATIONS.
G. FLATNESS CATEGORY USES:
1) CONVENTIONAL = UTILITY SPACES LEFT EXPOSED, NO APPLIED FINISHES.
2) MODERATELY FLAT = CARPETED FINISHES IN COMMERCIAL BUILDINGS AND LOW SPEED VEHICULAR TRAFFIC.
3) FLAT = SUITABLE FOR TILE, VINYL TILE, AND CONVENTIONAL FORK LIFT TRAFFIC IN INDUSTRIAL BUILDINGS.
4) VERY FLAT = HIGH-END INDUSTRIAL APPLICATIONS FOR HIGH SPEED FORK LIFTS AND OTHER PRODUCTION EQUIPMENT.
5) SUPER FLAT = SPECIALTY APPLICATIONS.
6. STRUCTURAL STEEL:
A. STRUCTURAL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 22 OF CBC AND AISC 360 'SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS' AND AISC 303 'CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.'
B. MATERIALS:
1) STRUCTURAL STEEL:
(a) W SHAPES: ASTM A992, FY = 50 KSI. SHAPES WITH FLANGES 1 1/2" THICK & THICKER, AND PLATES THAT ARE 1 1/2" THICK OR THICKER IN BUILT-UP CROSS-SECTION SHALL HAVE MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT 70 DEGREES F.
(b) OTHER ROLLED SHAPES: ASTM A36, FY = 36 KSI.
(c) RECTANGULAR TUBING (HSS) - A500, GRADE B, FY = 46 KSI.
(d) ROUND TUBING (HSS): ASTM A500 GR. B, FY = 42KSI.
(e) PIPE: ASTM A53 GR. B, FY = 35 KSI.
(f) PLATE & BAR: ASTM A36, FY = 36 KSI.
2) HIGH STRENGTH BOLTS: ASTM A325 TYPE 1 SNUG TIGHT PER RCSC 'SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS' UNLESS NOTED OTHERWISE. IT IS ACCEPTABLE TO USE A3125 SPECIFICATION AS SUBSTITUTE WHERE A325 IS NOT AVAILABLE.
3) COMMON BOLTS: ASTM A307 GR. A SNUG TIGHT PER RCSC.
4) ANCHOR BOLTS: ASTM F1554 GR. 36 UNLESS NOTED OTHERWISE. ANCHOR BOLTS EXTENDING THROUGH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED AT LEAST FOR THE PORTION OF THE BOLTS IN CONTACT WITH PRESSURE TREATMENT.
5) NUTS: PLAIN ASTM A563 GR. C HEAVY HEX, GALVANIZED ASTM A563 GR. DH HEAVY HEX.
6) WASHERS: PLAIN ASTM F436 ROCKWELL C HARDNESS 38 MIN, DIRECT TENSION INDICATING WASHERS - ASTM F959.



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City Approvals
Public Works Department
Approved by: [Signature]
Date: 11/2/21
City Engineer, Stockton, CA

Table with 3 columns: No., Date, Description. Header: Issue: 100% CDs w/ PLAN CHECK CORRECTIONS 9-20-2021

Project
McNair Soccer Complex Phase - 2
9550 Ronald E. McNair Way Stockton CA 95210

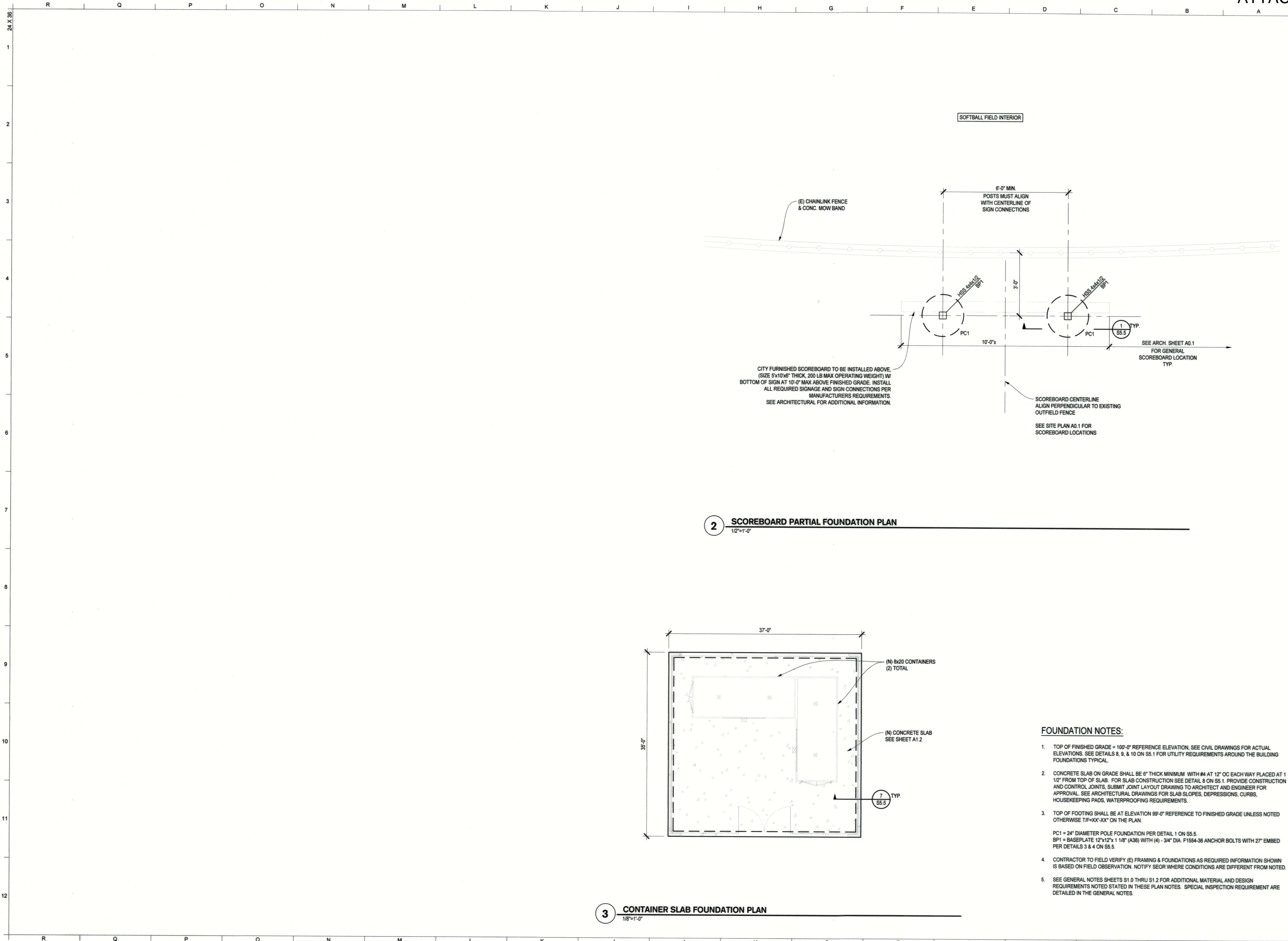
Architect of Record: JH
Project Architect: JH
Drafted By: ATL
Checked By: FM
File Date:

Sheet Title
GENERAL NOTES

Project Number
CR 16024
Reference North
Sheet Scale
Sheet Number
S1.0

5463.5C





DATE SIGNED: 10/01/21

Consultant

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City Approvals

**Public Works Department**

Approved by: *[Signature]*  
Date: *[Signature]*

*[Signature]*  
City Engineer, Stockton, CA

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No.	Date	Description

Project

**McNair Soccer Complex Phase - 2**

9550 Ronald E. McNair Way Stockton CA 95210

Architect of Record	JH
Project Architect	JH
Drafted By	ATL
Checked By	FM
File Date	

Sheet Title

**PARTIAL PLAN-STRUCTURAL**

Project Number  
**CR 16024**

Reference North

Sheet Scale

Sheet Number  
**S2.0**

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Architect  
**indigo**  
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REGISTERED PROFESSIONAL ENGINEER  
 FRANK MICHAEL MARYNOVIC  
 55380  
 STATE OF CALIFORNIA  
 DATE SIGNED: 10/01/21

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No.	Date	Description

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**McNair Soccer Complex Phase - 2**  
 9550 Ronald E. McNair Way Stockton CA 95210

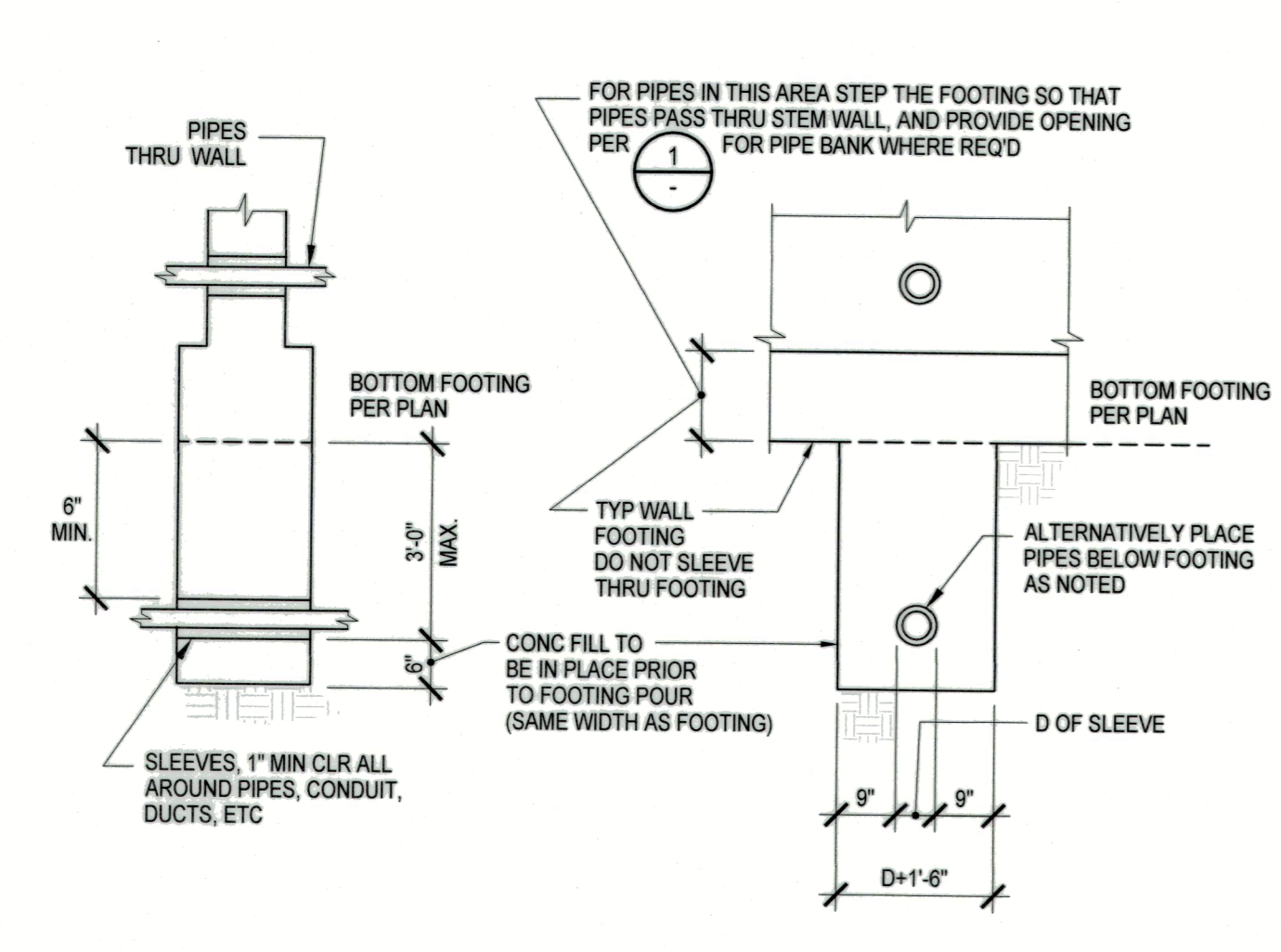
Architect of Record: JH  
 Project Architect: JH  
 Drafted By: ATCL  
 Checked By: FM  
 File Date:  

Sheet Title  
**FOUNDATION DETAILS & SECTIONS**

Project Number  
 CR 16024

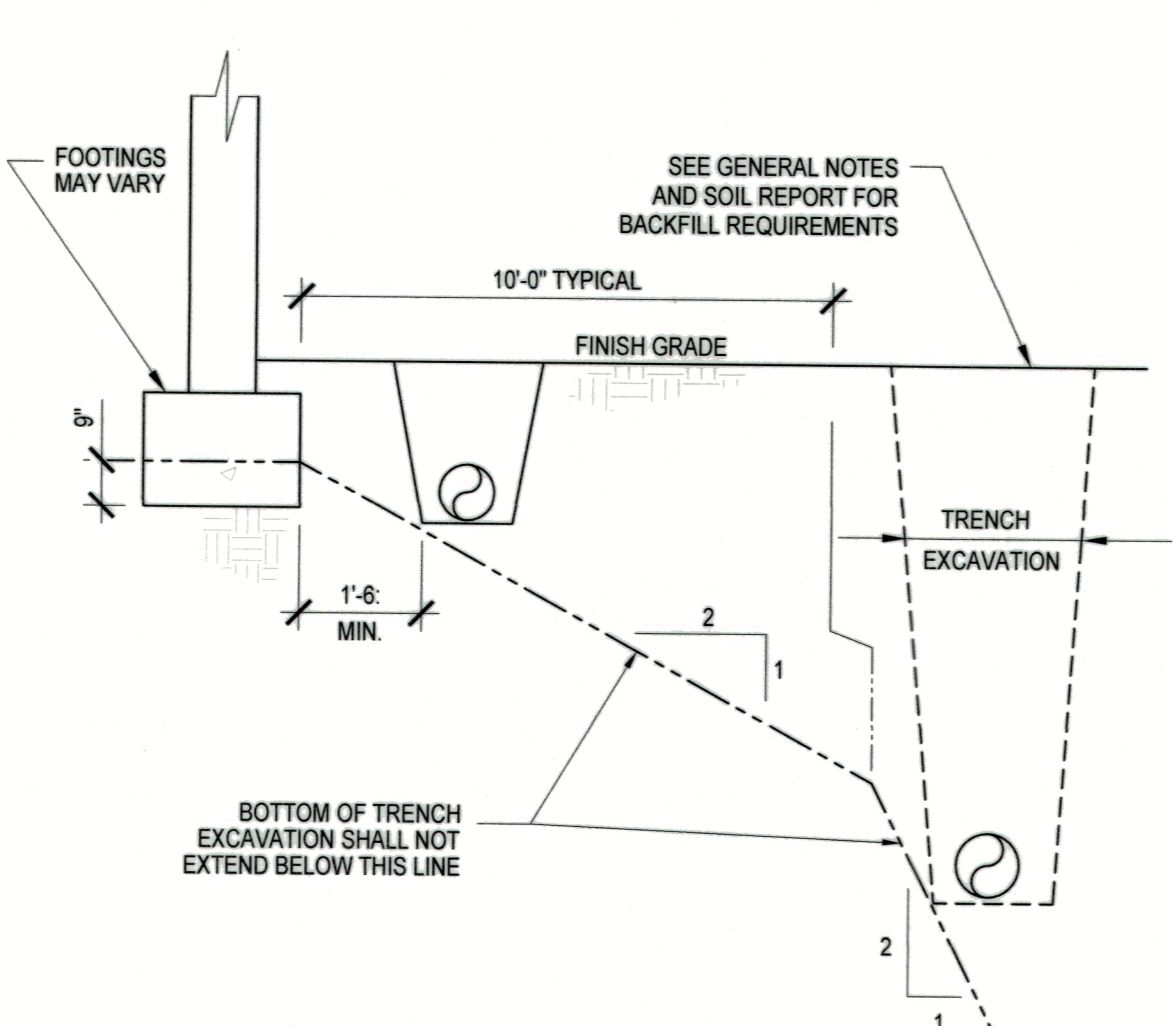
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**S5.1**

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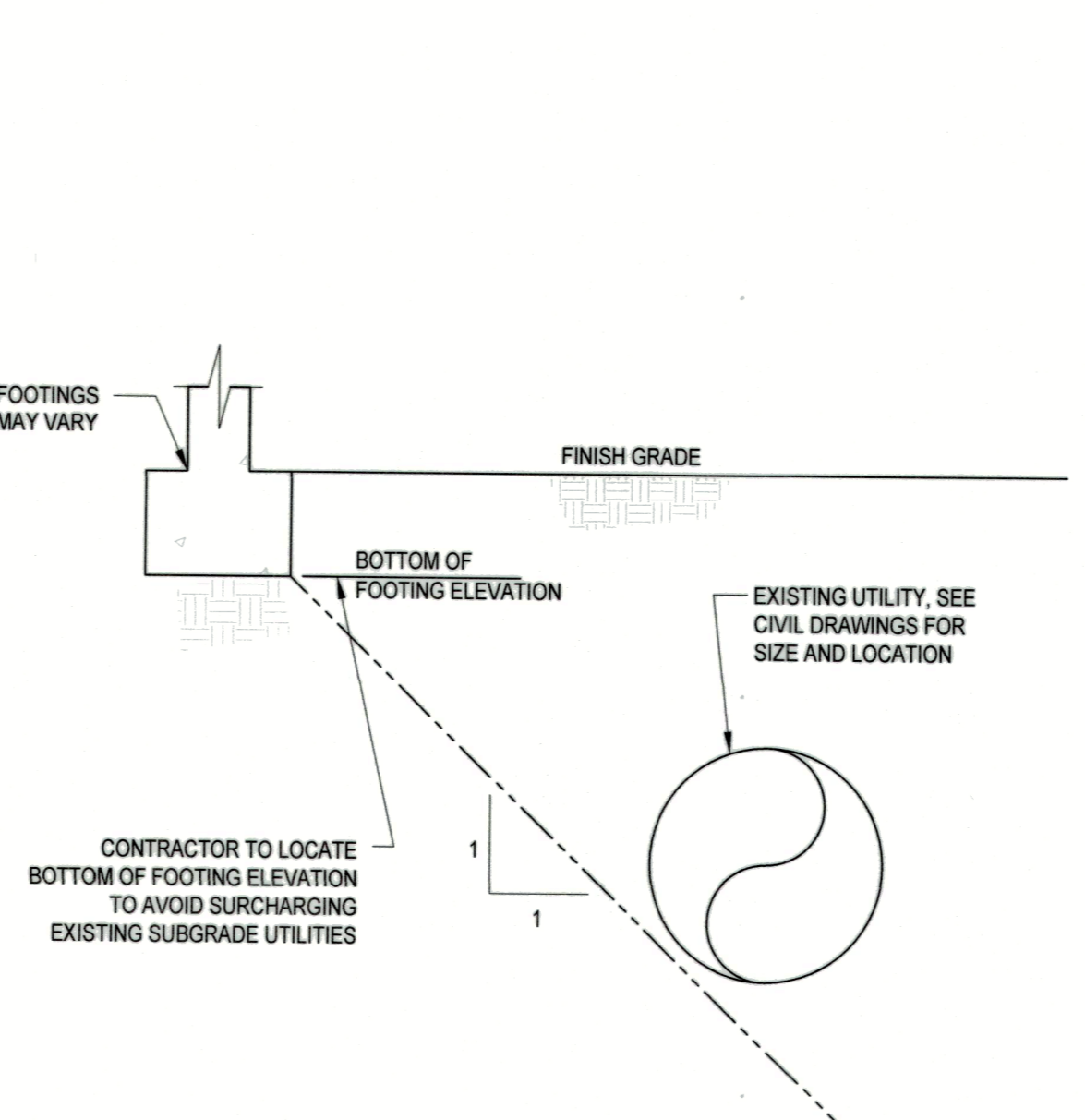
- NOTES:  
 1. FOR PIPES 3'-0" OR LESS BELOW BOTTOM OF FOOTINGS PROVIDE SLEEVE AND CONCRETE AS SHOWN.  
 2. FIRE SERVICE LINES SHALL HAVE 2" MIN. CLR. ALL AROUND  
 3. TRENCHES FOR PIPES/CONDUITS WITH INVERT ELEVATION GREATER THAN SHOWN SHALL BE BACKFILLED PER GEOTECH RECOMMENDATIONS.

**10 EXCAVATION PERPENDICULAR TO FOOTING**  
 NTS

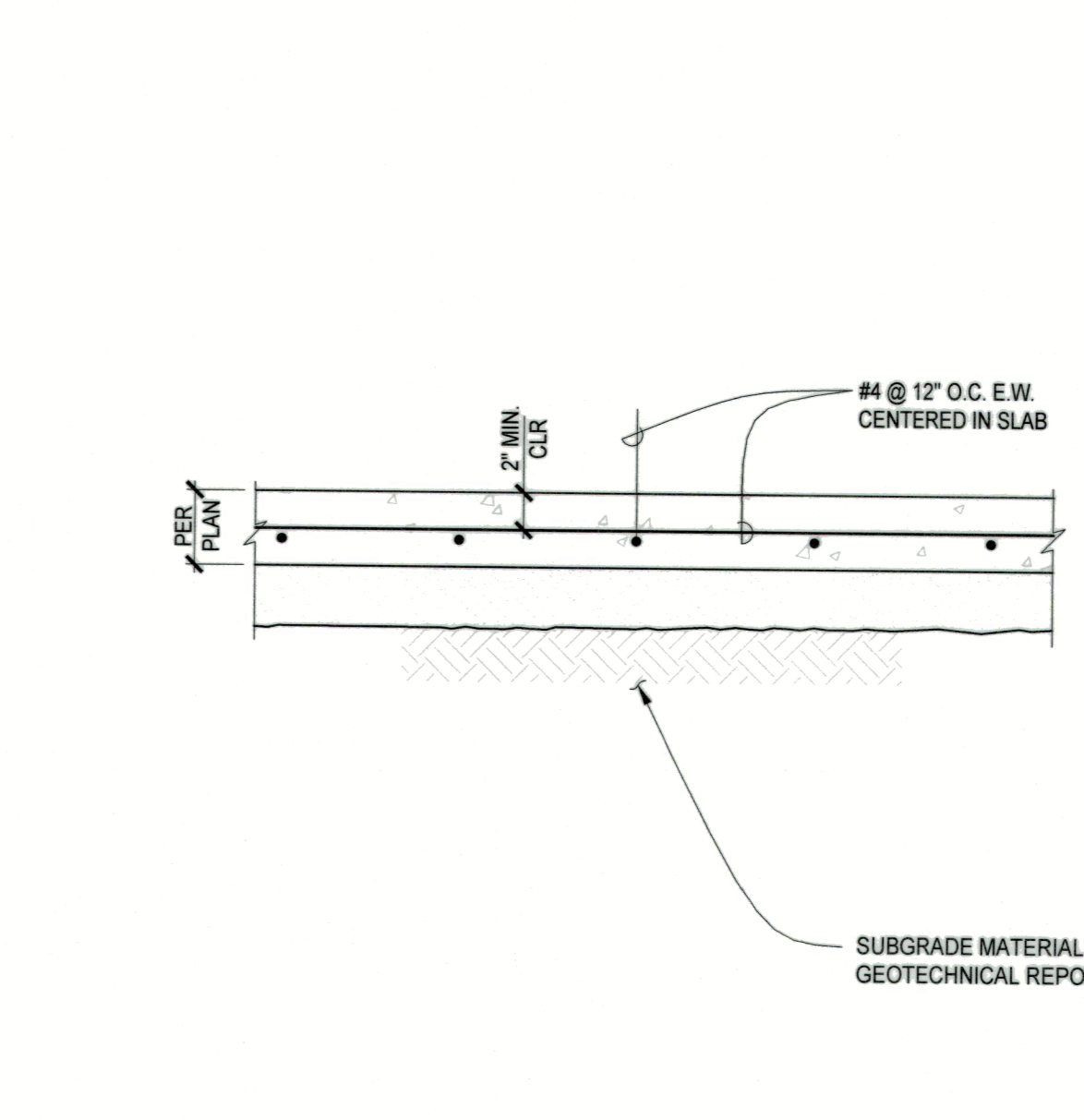


- NOTES:  
 1. THE CONTRACTOR SHALL COORDINATE ALL EXCAVATION OPERATIONS WITH BUILDING FOUNDATION REQUIREMENTS.

**9 EXCAVATION PARALLEL TO NEW FOUNDATION**  
 NTS



**8 FOOTING PARALLEL TO (E) UTILITY**  
 NTS



**7 TYPICAL CONCRETE SLAB ON GRADE**  
 NTS

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIFIED COVER (IN) UNO
CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	#6 THROUGH #18 BARS	2
		#5 BARS AND SMALLER	1-1/2
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	SLAB, JOIST, AND WALLS	#14 AND #18 BARS	1-1/2
		#11 BARS AND SMALLER	3/4
		BEAMS, COLUMNS, PEDESTALS AND TENSION TIES	PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS
TILT UP PANELS		MAIN REINF. (INSIDE/OUTSIDE FACE)	1
		TIES/STIRRUPS (INSIDE/OUTSIDE FACE)	3/4
		MAIN REINF. EDGE OF PANEL	2
		TIES/STIRRUPS EDGE OF PANEL	1-1/2

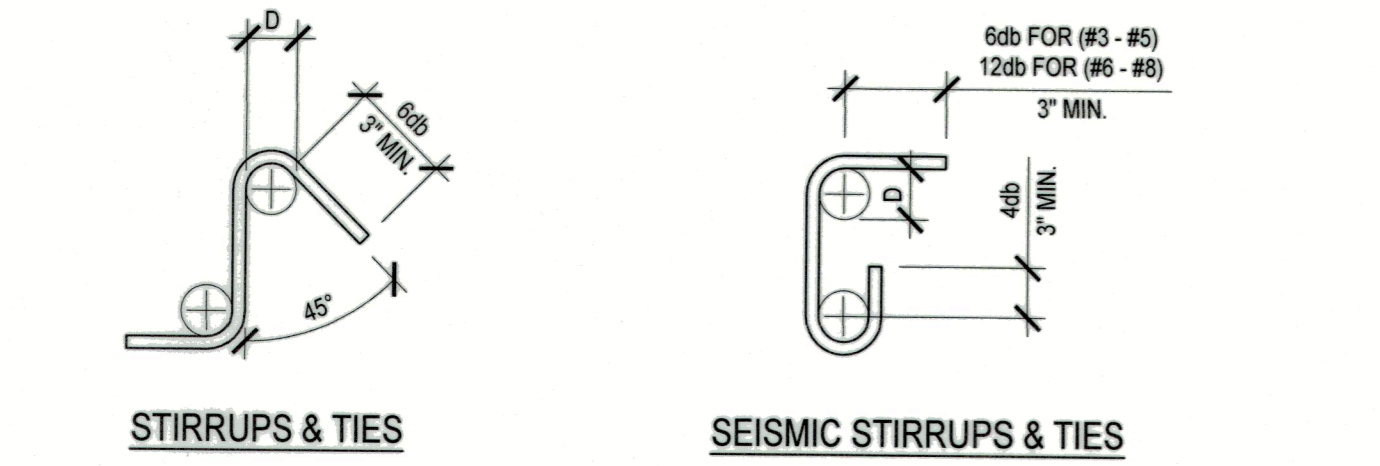
- NOTES:  
 1. MINIMUM SPECIFIED COVER ABOVE IS BASED ON CAST-IN-PLACE CONSTRUCTION (NON-PRESTRESSED).  
 2. PROVIDE 1-1/2" CLEAR FROM TOP OF SLAB FOR SLAB ON GRADE.  
 3. FOR PRECAST, PRE-STRESSED USE ALTERNATE SCHEDULE.  
 4. REINFORCING BARS SHALL EXTEND AS FAR AS POSSIBLE AND END IN EITHER A STANDARD HOOK OR TENSION LAP SPlice UNLESS DETAILED OTHERWISE.

**6 CONCRETE CLEAR COVER**  
 NTS

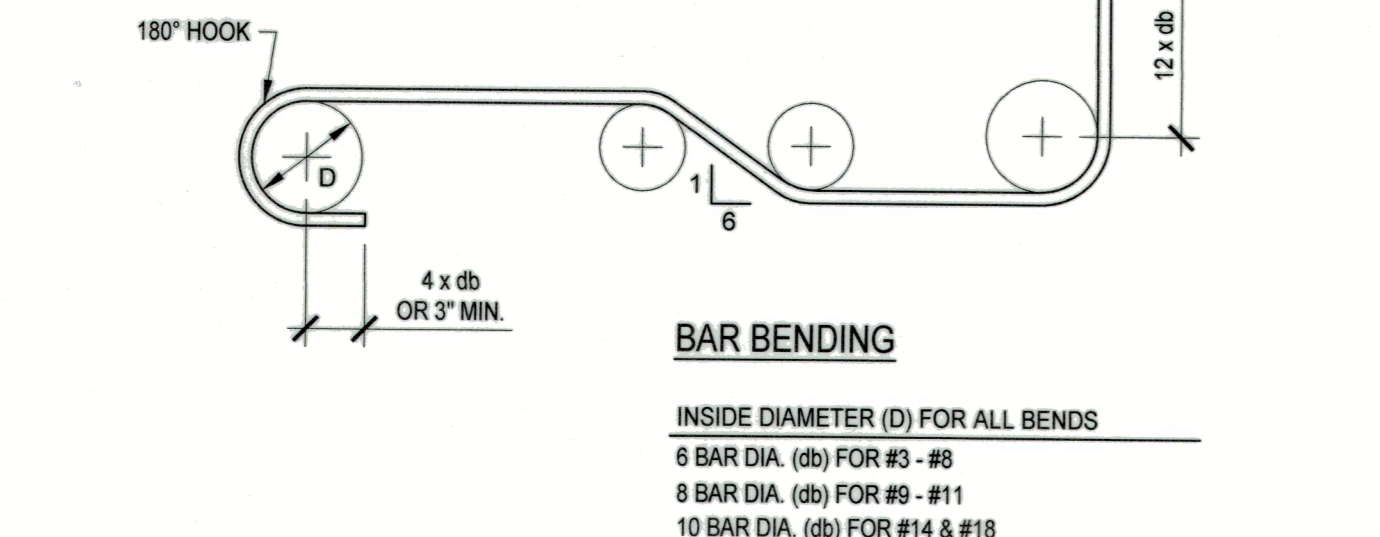
BAR SIZE	CONCRETE f <sub>c</sub> =3000 PSI				CONCRETE f <sub>c</sub> =3500 PSI				CONCRETE f <sub>c</sub> =4000 PSI				CONCRETE f <sub>c</sub> =5000 PSI			
	TENSION LAP SPlice		TENSION DEVELOPMENT		TENSION LAP SPlice		TENSION DEVELOPMENT		TENSION LAP SPlice		TENSION DEVELOPMENT		TENSION LAP SPlice		TENSION DEVELOPMENT	
	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	30	23	23	17	28	21	21	16	28	20	20	15	23	17	17	13
#4	38	29	29	22	37	28	28	21	33	25	25	19	30	23	23	17
#5	49	37	37	28	45	34	34	26	42	32	32	24	38	29	29	22
#6	56	43	43	33	54	41	41	31	50	38	38	29	45	34	34	26
#7	82	63	63	48	77	59	59	45	72	55	55	42	65	50	50	38
#8	94	72	72	55	88	67	67	51	82	63	63	48	73	56	56	43
#9	106	81	81	62	99	76	76	58	93	71	71	54	82	63	63	48
#10	119	91	91	70	111	85	85	65	104	80	80	61	93	71	71	54
#11	133	102	102	78	123	94	94	72	115	88	88	67	102	78	78	60
#14																
#18	MECH SPlice	121	93													
		162	124													

- NOTES:  
 1. SPlice AND DEVELOPMENT LENGTHS ARE GIVEN IN INCHES ASSUMING NORMAL WEIGHT CONCRETE AND GRADE 60 REINFORCING.  
 2. LAP SPlice AND DEVELOPMENT LENGTHS BASED ON ACI 25.4.2.2, ASSUMING A MINIMUM CLEAR SPACING 2DB, AND MINIMUM CLEAR COVER OF 1DB.  
 3. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW.  
 4. LAP SPlices SHALL NOT BE PLACED WITHIN JOINTS, OR WITHIN A DISTANCE OF TWICE THE BEAM DEPTH FROM THE FACE OF THE JOINT.  
 5. MECHANICAL SPlice SHALL BE DAYTON BAR-LOCK COUPLER OR APPROVED EQUAL CAPABLE OF DEVELOPING 125% OF REBAR TENSILE STRENGTH.  
 6. WHERE LIGHT WEIGHT CONCRETE IS USED INCREASE TENSION LAP AND DEVELOPMENT LENGTHS BY 30%.  
 7. WHERE EPOXY COATED OR ZINC COATED BARS ARE USED INCREASE TENSION LAP AND DEVELOPMENT BY 50%.  
 8. LAP SPlice AND DEVELOPMENT LENGTHS FOR BUNDLED BARS SHALL BE INCREASED BY 20% FOR 3-BAR BUNDLE, AND 33% FOR A 4-BAR BUNDLE.

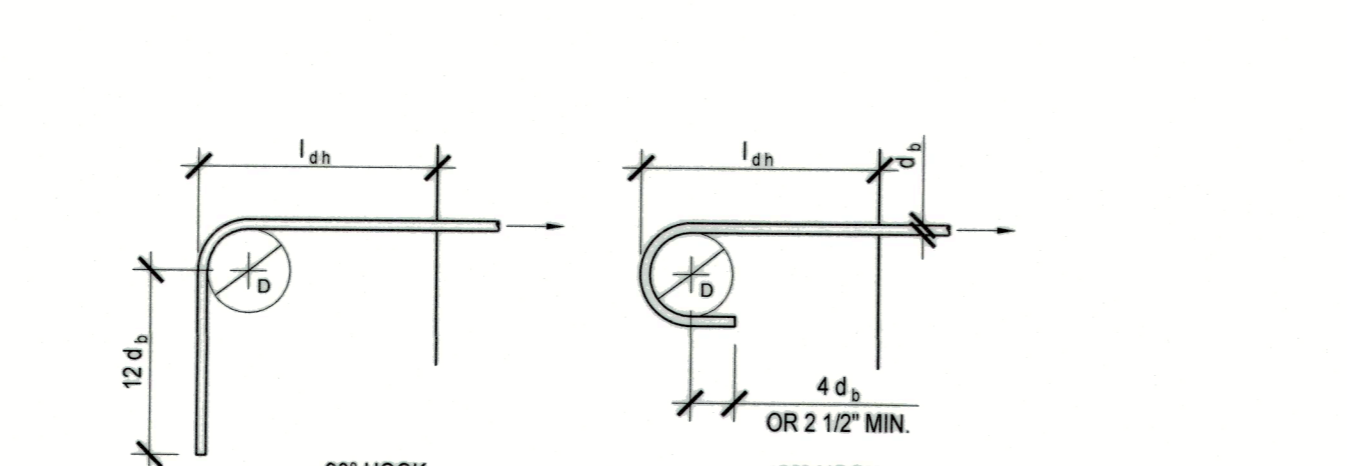
**5 REINFORCING STEEL TENSION DEVELOPMENT & LAP SPlice**  
 NTS



INSIDE DIAMETER (D) FOR TIE BENDS  
 D=1-1/2" FOR #3  
 D=2" FOR #4  
 D=2-1/2" FOR #5  
 D=6db FOR #6 - #8



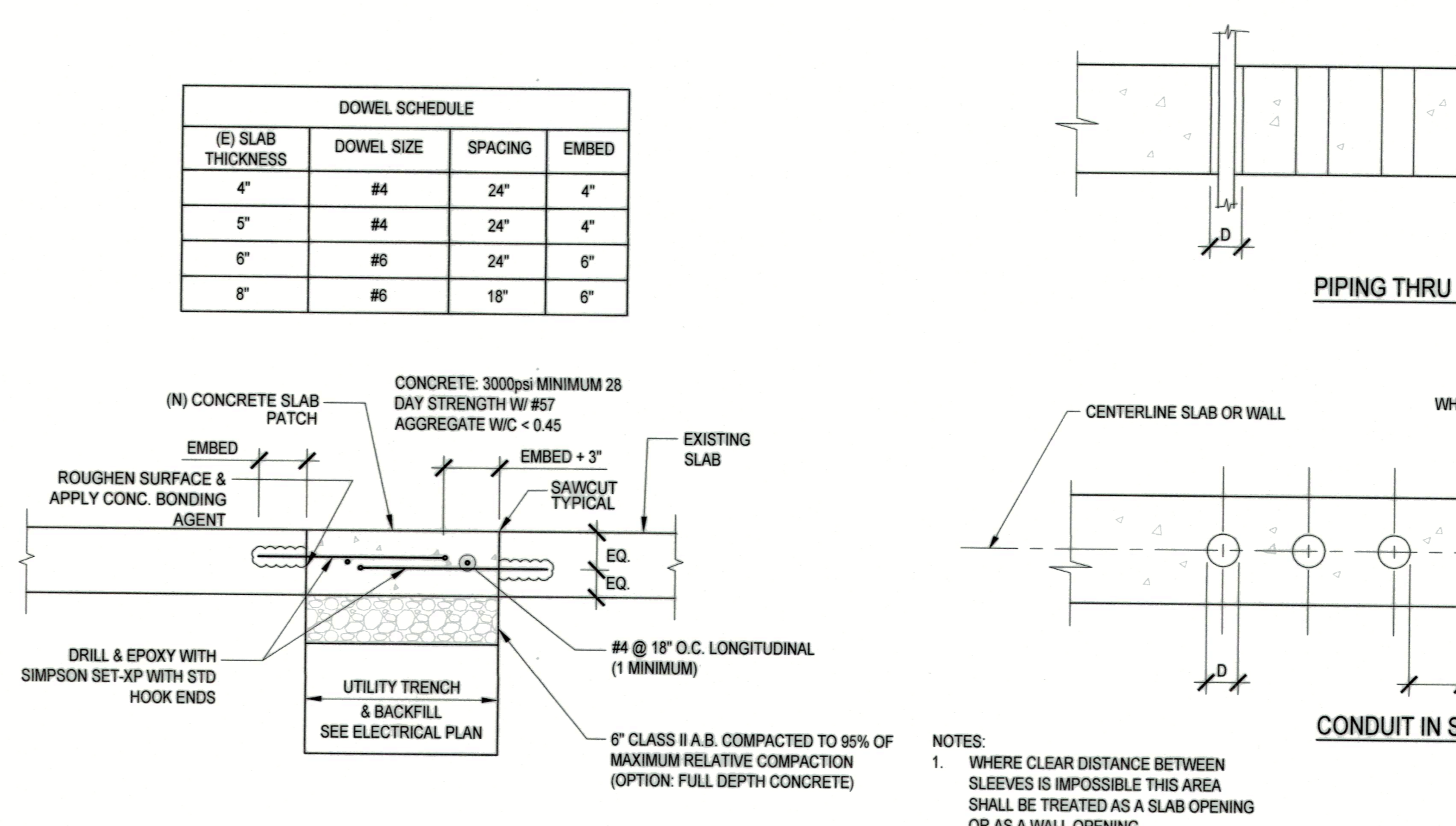
**4 STANDARD HOOK**  
 NTS



GENERAL USE  
 1. SIDE COVER ≥ 2 1/2 IN. ANCHOR BOLTS  
 2. END COVER (90° HOOKS) ≥ 2 IN.

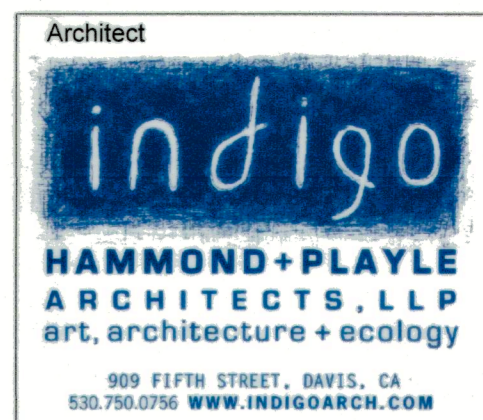
BAR SIZE NO.	NORMAL WEIGHT CONCRETE, f <sub>c</sub> (PSI)				
	3,000	3,500	4,000	5,000	6,000
#3	9	8	8	7	6
#4	11	11	10	9	8
#5	14	13	12	11	10
#6	17	16	15	13	12
#7	20	18	17	15	14
#8	22	21	19	17	16
#9	25	23	22	20	18
#10	28	26	25	22	20
#11	31	28	27	24	22
#14	38	36	33	29	27

**3 STANDARD HOOK**  
 NTS



**2 UTILITY TRENCH SLAB REPAIR**  
 NTS

**1 CONDUIT IN SLAB OR WALL**  
 NTS



DATE SIGNED: 10/01/21

Consultant

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City Approvals

**Public Works Department**  
Approved by *[Signature]* (Date)  
City Engineer, Stockton, CA

Issue: 100% CDs W/ PLAN CHECK  
CORRECTIONS 9-20-2021

No.	Date	Description

Project

**McNair Soccer Complex Phase - 2**  
9550 Ronald E. McNair Way Stockton CA 95210

Architect of Record: JH  
Project Architect: JH  
Drafted By: ATL  
Checked By: FM  
File Date:

Sheet Title

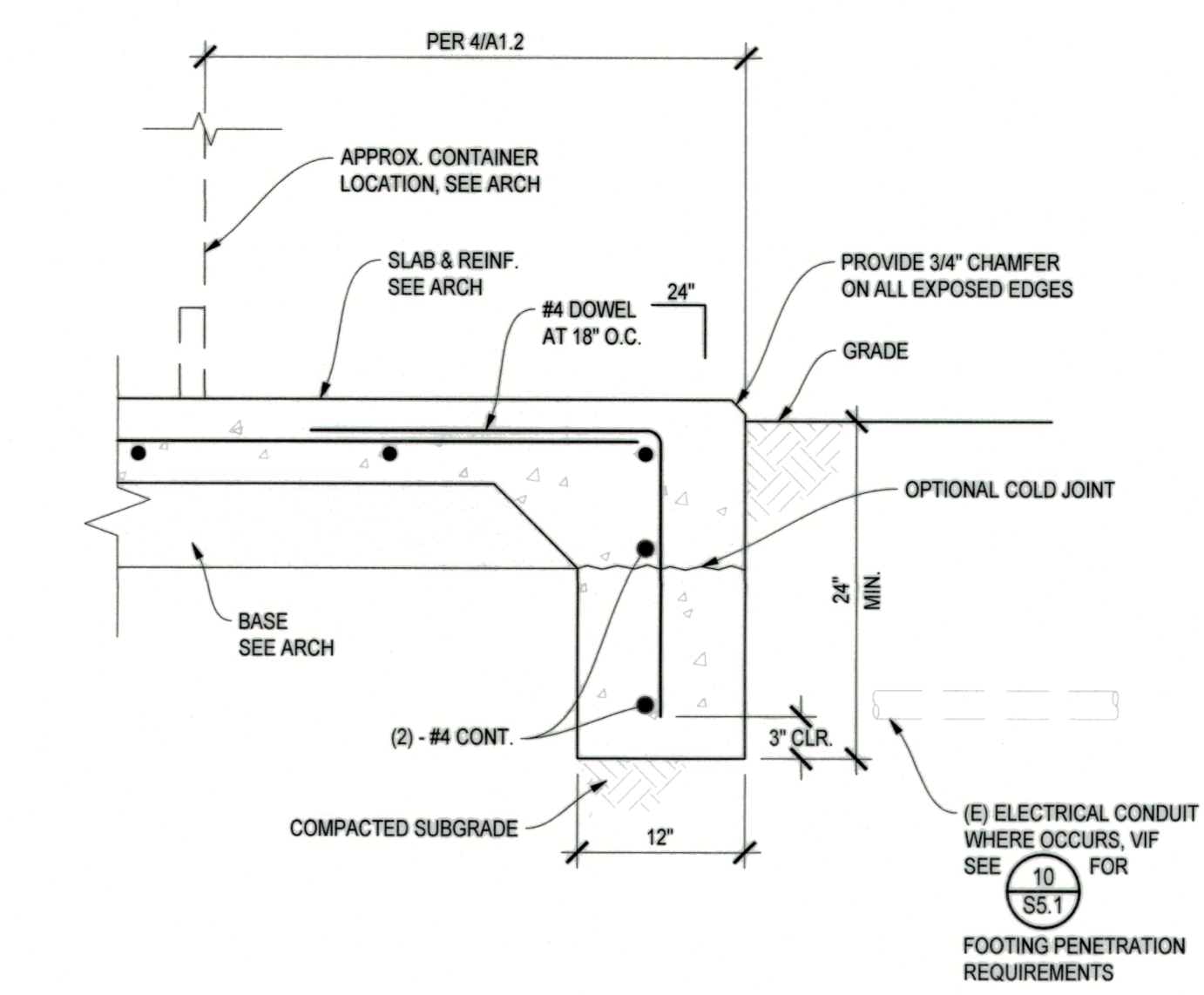
**STEEL FRAME DETAILS & SECTIONS**

Project Number  
CR 16024

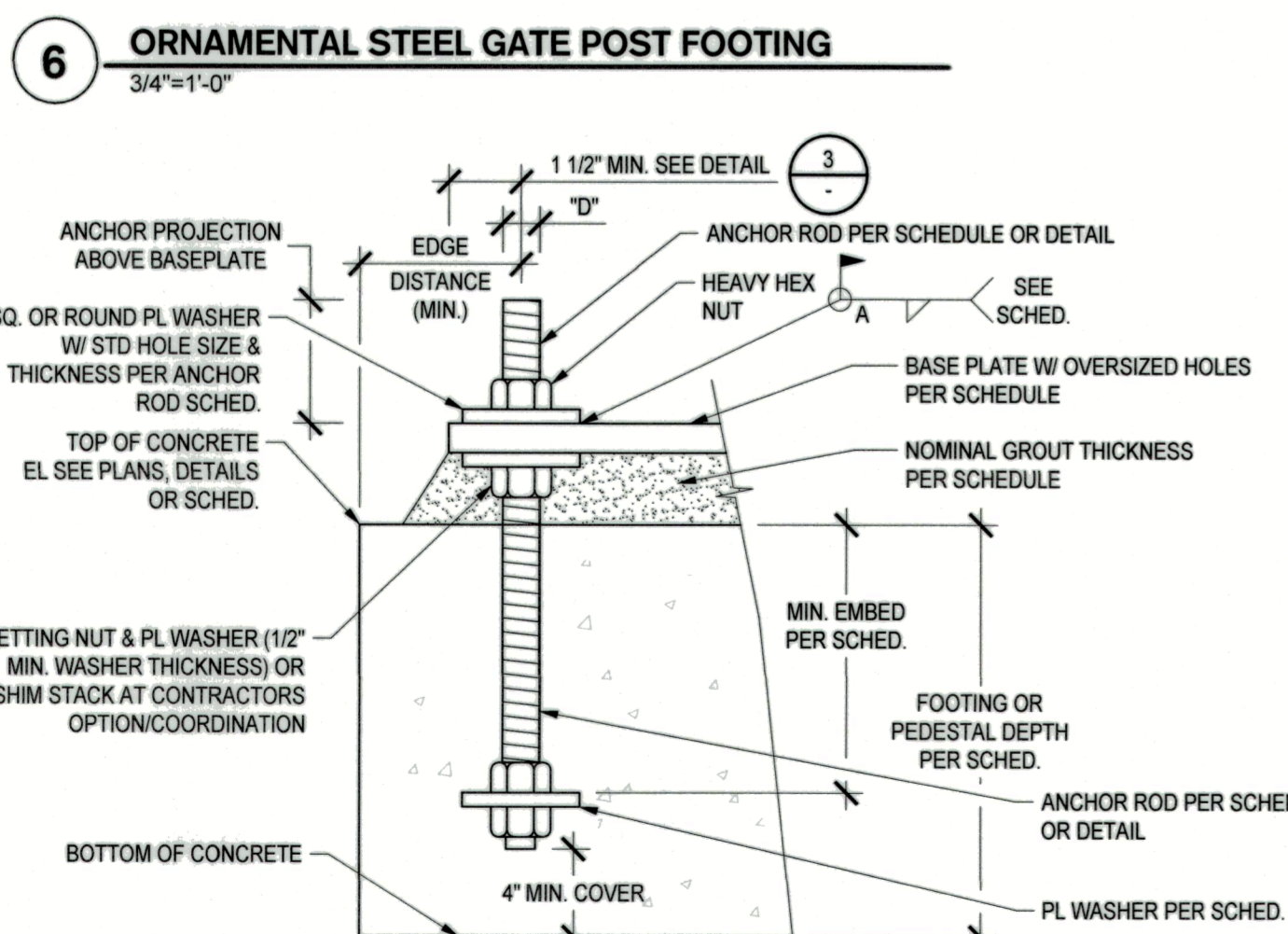
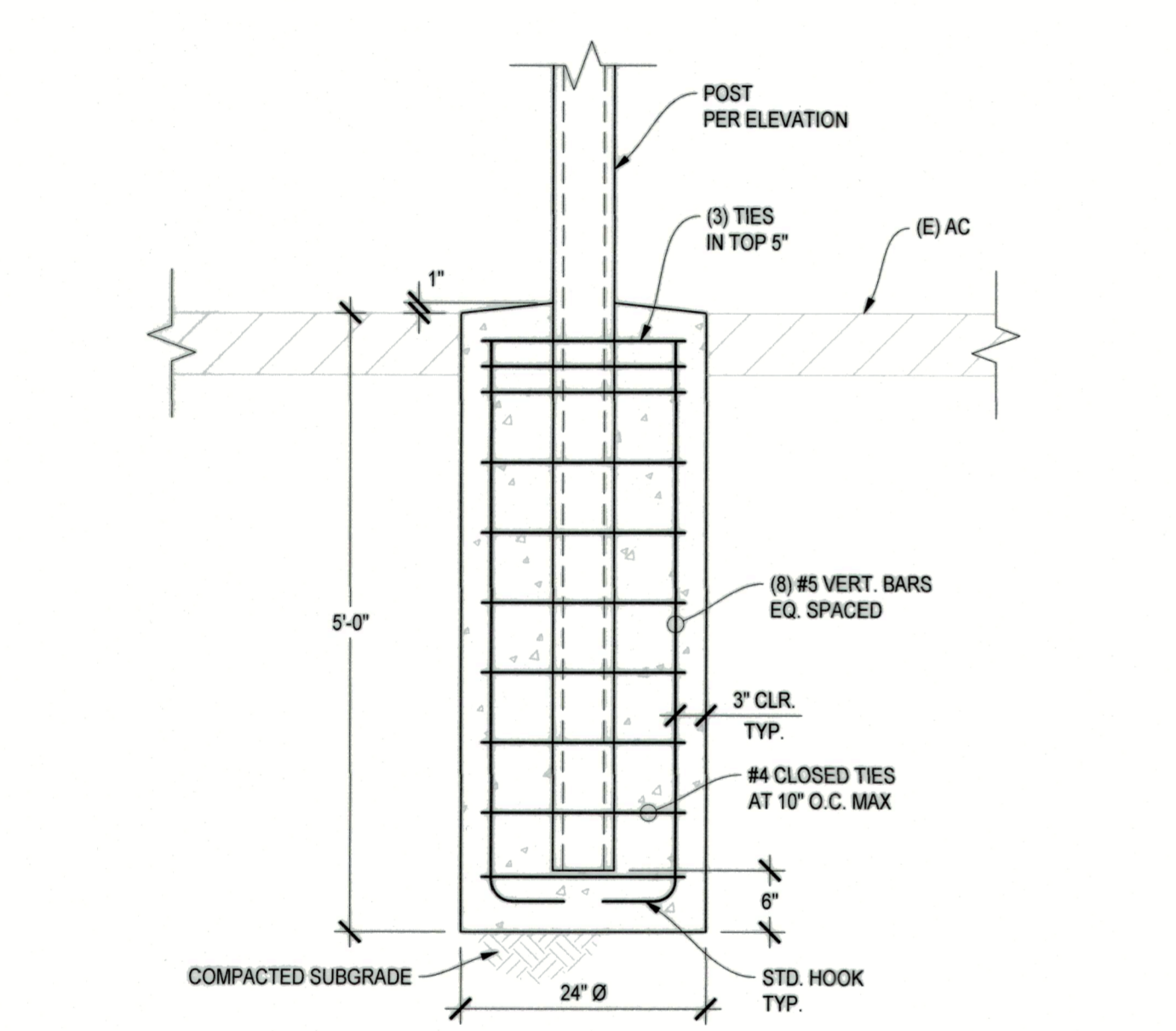
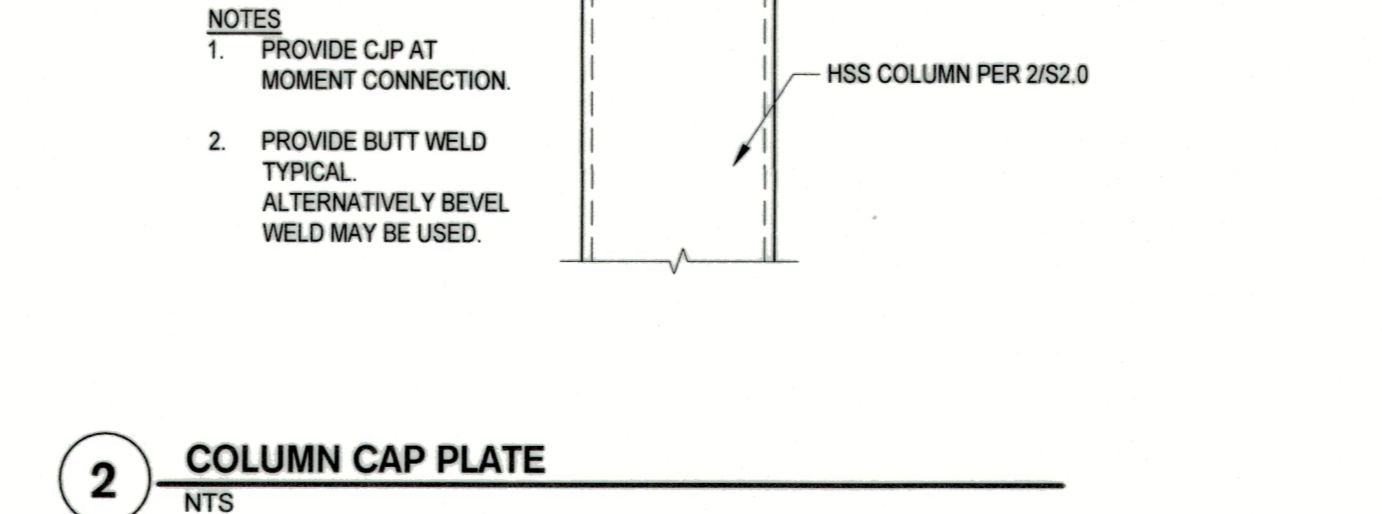
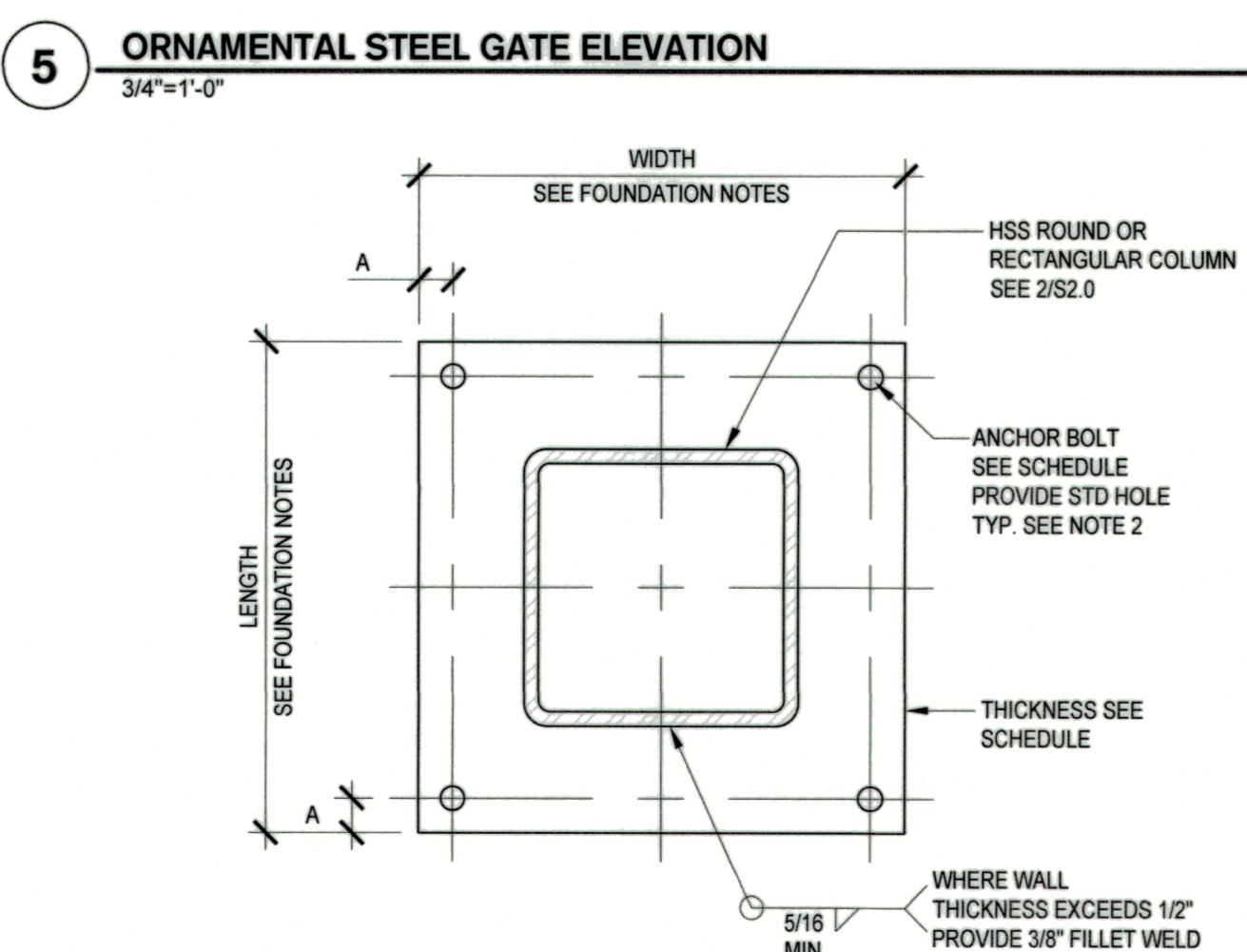
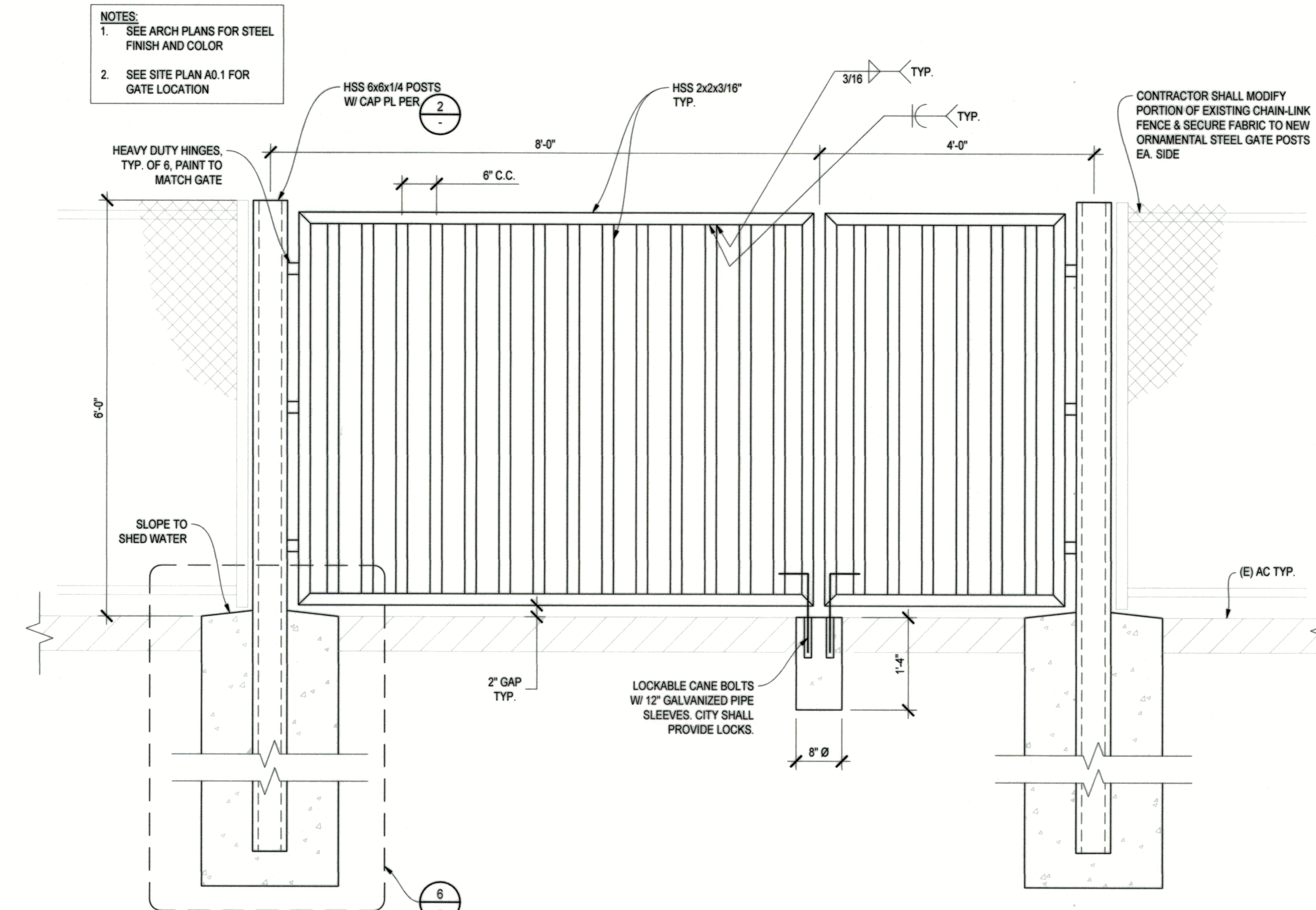
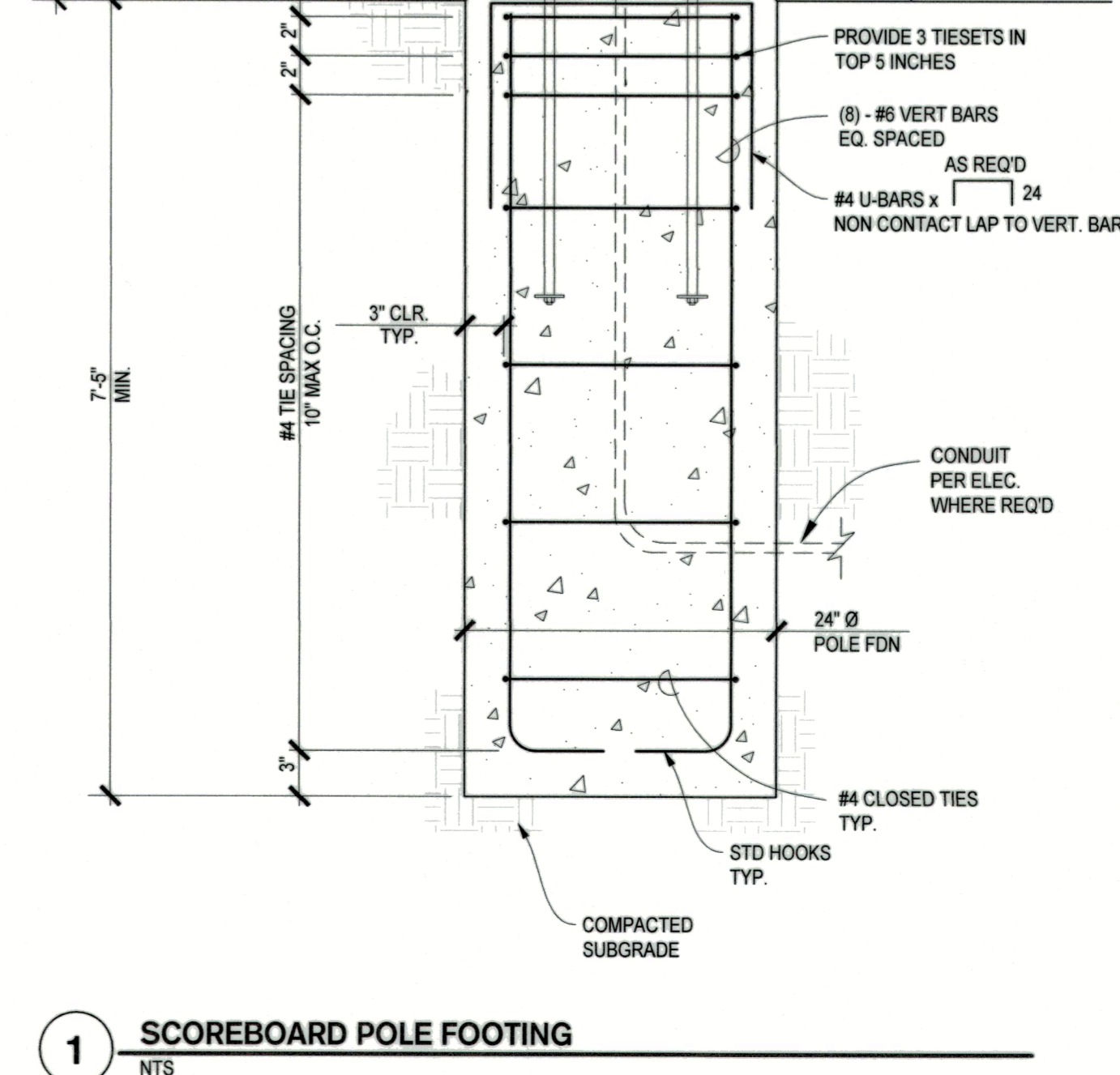
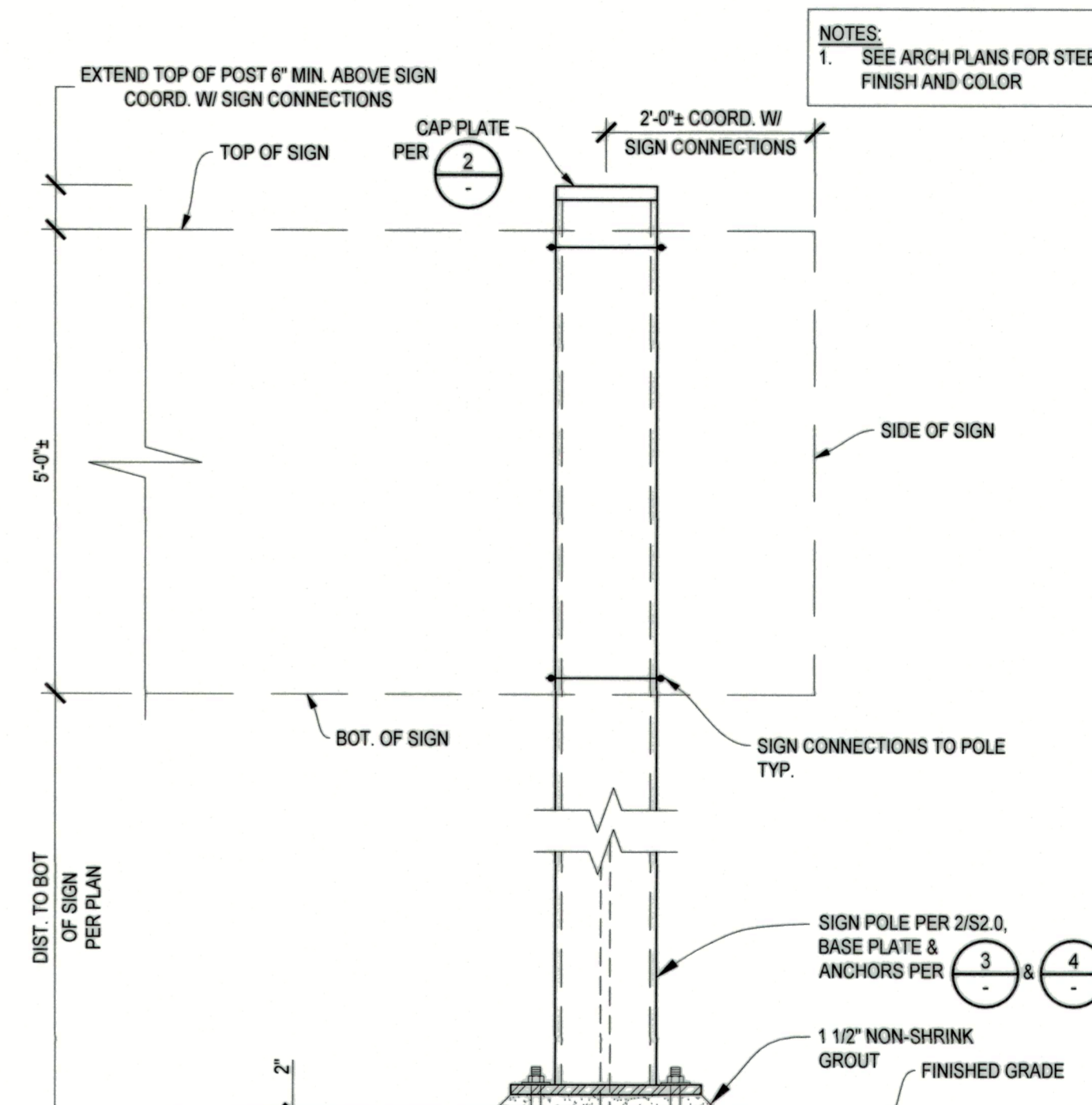
Reference North

Sheet Scale

Sheet Number  
**S5.5**



**7 TURN DOWN FOOTING AT SLAB EDGE**  
1"=1'-0"



**ANCHOR ROD SCHEDULE**

ANCHOR ROD Ø	BASE PL HOLE Ø "D"	MIN WASHER SIZE	MIN WASHER THICKNESS	MIN PROJ ABOVE BASE PL	NOMINAL GROUT THICKNESS	WELD A	EDGE DIST (MIN)	EMBED (MIN)
3/4"	1 5/16"	3"	1/4"	3"	1 1/2"	5/16	5"	27"

**4 TYPICAL ANCHOR ROD**  
NTS

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24 X 36  
 UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be approved by M. Neils Engineering, Inc.  
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### ABBREVIATIONS















A	AMPERES	MFR.	MANUFACTURER
AC	ALTERNATING CURRENT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
A.F.F.	ABOVE FINISHED FLOOR	PFB	PROVISIONS FOR FUTURE CIRCUIT BREAKER
A.I.C.	AMPERE INTERRUPTING CAPACITY	PH	PHASE
AMP	AMPERE	RCPT.	RECEPTACLE
AWG	AMERICAN WIRE GAUGE	S.M.S	SHEET METAL SCREW
BKR	BREAKER	SYS	SYSTEM
C.	CONDUIT	TYPICAL	TYPICAL
C.B.	CIRCUIT BREAKER	UGPB	UNDERGROUND PULLBOX
CKT	CIRCUIT	UL	UNDERWRITERS LABORATORY
C.O.	CONDUIT ONLY, WITH PULL WIRE	V	VOLT
EMT	ELECTRICAL METALLIC CONDUIT	VA	VOLT-AMPERES
GA.	GAUGE	W	WIRE, WATT
GND	GROUND	WP	WEATHER PROTECTED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	XFMR	TRANSFORMER
Isc	SHORT CIRCUIT AMPERES		
KVA	KILO VOLT AMPERE		

### APPLICABLE CODES AND REGULATIONS

THE FOLLOWING ARE THE ENFORCEABLE CODES FOR FACILITIES UNDER THE AUTHORITY OF THE ALFRED E. ALQUIST HOSPITAL FACILITIES SEISMIC SAFETY ACT OF 1983.

2019	CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)).
2019	CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR (2015 IBC AND 2016 CALIFORNIA AMENDMENTS).
2019	CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR (2014 NEC AND 2014 CALIFORNIA AMENDMENTS).
2019	CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR (2015 UMC AND 2016 CALIFORNIA AMENDMENTS).
2019	CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR (2015 UPC AND 2016 CALIFORNIA AMENDMENTS).
2019	CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR (2015 IFC AND 2016 CALIFORNIA AMENDMENTS)
2019	CALIFORNIA GREEN BUILDING STANDARDS CODE - PART 11, TITLE 24
2015	N.F.P.A. 101 LIFE SAFETY CODE
2015	N.F.P.A. 99 STANDARD FOR HEALTH CARE FACILITIES
2016	N.F.P.A. 72 NATIONAL FIRE ALARM CODE
2016	EDITION TITLE 19, CALIFORNIA CODE OF REGULATIONS, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
	TITLE 8, CALIFORNIA CODE OF REGULATIONS, INDUSTRIAL STANDARDS.
	TITLE 22, CALIFORNIA CODE OF REGULATIONS, SOCIAL SECURITY DIVISIONS 5, 7.
	THE OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT (OSHPD) REGULATIONS.
	OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
	FACTORY MUTUAL SYSTEM (FM) REQUIREMENTS.
	ALL APPLICABLE STATE AND LOCAL CODES AND REGULATIONS

### ELECTRICAL SYMBOL LIST

 LUMINAIRE, WITH POLE AND BASE  
 SINGLE POLE TOGGLE SWITCH, +45° A.F.F. - "a" LETTER DENOTES SWITCH FUNCTION, TYPICAL FOR ALL SWITCHES UNLESS NOTED OTHERWISE  
 JUNCTION BOX - SIZE AS REQUIRED BY CODE  
 NEW UNDERGROUND PULL BOX  
 EXISTING CONDUIT AND WIRING  
 CONDUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.  
 CONDUIT HOMERUN TO PANELBOARD  
 CONDUIT TURNED AND RISED UP  
 CONDUIT TURNED AND DROPPED DOWN  
 CONDUIT WITH CAP  
 CONDUIT STUB WITH INSULATED BUSHING  
 DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME SHEET  
 DRAWING PLAN OR DETAIL DESIGNATION - "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, "E-1" DENOTES SHEET NUMBER  
 FEEDER TAG, DENOTES SIZE OF CONDUIT AND WIRE. SEE FEEDER SCHEDULE.

#### SYMBOL LIST NOTES:

- EXISTING ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT LIGHTLY AND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.
- VERIFY ON SITE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE DEDICATED PANELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING AND EQUIPMENT FOREIGN TO THE PANEL BOARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN OBJECTS IMPEDE THE DEDICATED PANELBOARD AREAS.
- WHERE CONDUIT STUB IS INDICATED, PROVIDE CONDUIT WITH BUSHING AT THE END OF CONDUIT AND PULL ROPE INTO ACCESSIBLE CEILING AREA.

### LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	VOLTAGE	LIGHT SOURCE	MOUNTING	REMARK
	CATALOG NO.	DESCRIPTION	(LED, WATTS, LUMENS, COLOR TEMPERATURE, CRI, R9 IF AVAILABLE)		NOTE No.
A	GUARDCCO SIGNIFY BRP710-LED-WW-MR-35MO-PDIM50-SOLAR	12V SOLAR POWERED LED FLOODLIGHT	LED, 17W, 2000L, 4000K*	POLE MOUNT	
	EATON ALL-PRO LED	12V SOLAR POWERED LED FLOODLIGHT	LED, 90W, 1000L	SURFACE	
B	MST800L	LED FLOODLIGHT			
P	EATON ALL-PRO LED	4" STRAIGHT STEEL SQ POLE, 110 MPH RATED	N/A		
	SSS-12-4-11-T2X6				

#### LUMINAIRE SCHEDULE REMARK NOTES:

GENERAL NOTE:  
REFER TO PLAN FOR LOCATION, QUANTITIES, AND SWITCH FUNCTION.

### ELECTRICAL SHEET INDEX

No. OF SHEETS	DRAWING No.	DRAWING DESCRIPTIONS
1	E0.1	ELECTRICAL SHEET INDEX, SYMBOL LIST, AND ABBREVIATIONS
2	E1.0	ENLARGED SITE PLAN - POWER AND LIGHTING
3	E1.1	ENLARGED SITE PLAN - ELECTRICAL
4	E2.0	ONE-LINE POWER DIAGRAM, PANEL SCHEDULE, AND DETAILS

### \*\* UNDERGROUND DIGGING CAUTION \*\*

USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED UTILITY CABLES, CONDUITS, AND PIPING. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.):

## 1-800-642-2444


TWO WORKING DAYS BEFORE DIGGING TO VERIFY UNDERGROUND UTILITIES.

### BRANCH CIRCUIT VOLTAGE DROP TABLE

VOLTAGE DROP VALUES NOT EXCEEDING 2% FOR FEEDERS HAVE BEEN SHOWN ON THE ONE LINE DIAGRAM. IN LIEU OF VOLTAGE DROP CALCULATIONS FOR EACH BRANCH CIRCUIT IN SCOPE OF WORK, THE GENERAL DESIGN STANDARD BELOW HAS BEEN FOLLOWED TO ENSURE A VOLTAGE DROP OF 3% IS NOT EXCEEDED. WHERE THE CIRCUIT LOAD OR CIRCUIT LENGTH LISTED HAS BEEN EXCEEDED, A DETAILED VOLTAGE DROP CALCULATION FOR THAT CIRCUIT HAS BEEN PROVIDED WITH THE TITLE 24 COMPLIANCE DOCUMENTATION.

VOLTAGE	MAXIMUM CIRCUIT LOAD FOR 20 AMP CIRCUIT BREAKER	CONDUCTOR SIZE	MAXIMUM BRANCH CIRCUIT LENGTH
120 VOLT	9 AMPS (1.08 KVA)	#8 AWG	285 FEET
		#10 AWG	180 FEET
	12 AMPS (1.44 KVA)	#8 AWG	210 FEET
		#10 AWG	135 FEET
	16 AMPS (1.92 KVA)	#8 AWG	85 FEET
		#12 AWG	55 FEET
240 VOLT	9 AMPS (2.16 KVA)	#8 AWG	510 FEET
		#10 AWG	330 FEET
	12 AMPS (2.88 KVA)	#8 AWG	200 FEET
		#10 AWG	380 FEET
	16 AMPS (3.84 KVA)	#8 AWG	250 FEET
		#12 AWG	150 FEET
		#8 AWG	285 FEET
		#10 AWG	185 FEET
		#12 AWG	110 FEET

Architect




909 FIFTH STREET, DAVIS, CA 95620-0796 WWW.INDIGOARCH.COM

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Agency approval

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City Approvals

**Public Works Department**  
 Approved by   
 Date \_\_\_\_\_  
 City Engineer, Stockton, CA

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Issue: **100% CDs W/ PLAN CHECK CORRECTIONS 9-20-2021**

No.	Date	Description

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Project

## McNair Soccer Complex Phase - 2

**9820 Ronald E. McNair Way Stockton CA 95210**

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Architect of Record	JH
Project Architect	JH
Checked By	AP
File Date	PN

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Sheet Title

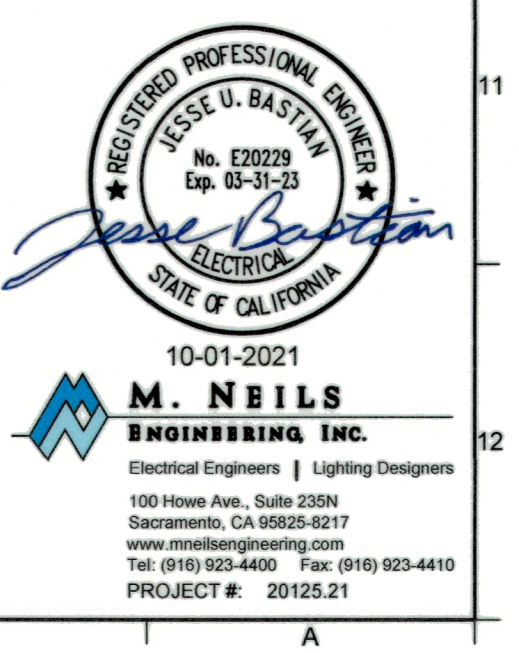
### ELECTRICAL SHEET INDEX, SYMBOL LIST, AND ABBREVIATIONS

Project Number

**CR16024**

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Reference North	Sheet Scale
N	Sheet Number
	<b>E0.1</b>



**5463.10 C**

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 Oct 01, 2021 - 2:30pm / wpu:james  
 UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

### NUMBERED NOTES

- 1 PROVIDE 120V, 20A SIGN DISCONNECT ON SUPPORT POLE. PROVIDE 120V CIRCUIT CONNECTION TO THE SCOREBOARD.
- 2 BORE UNDER (E) CONCRETE WALKWAY.

### LINETYPE SCHEDULE

- - - - - EXISTING CONDUIT AND WIRING  
 - - - - - NEW CONDUIT RUN UNDERGROUND MINIMUM 1" DIAMETER.

### FEEDER SCHEDULE

TAG	DESCRIPTION
402	1" C., 2 #8, AND 1 #10 GND.
552	1" C., 2 #6 AND 1 #10 GND.
702	1-1/4" C., 2 #4 AND 1 #8 GND.

### VOLTAGE DROP CALCULATION

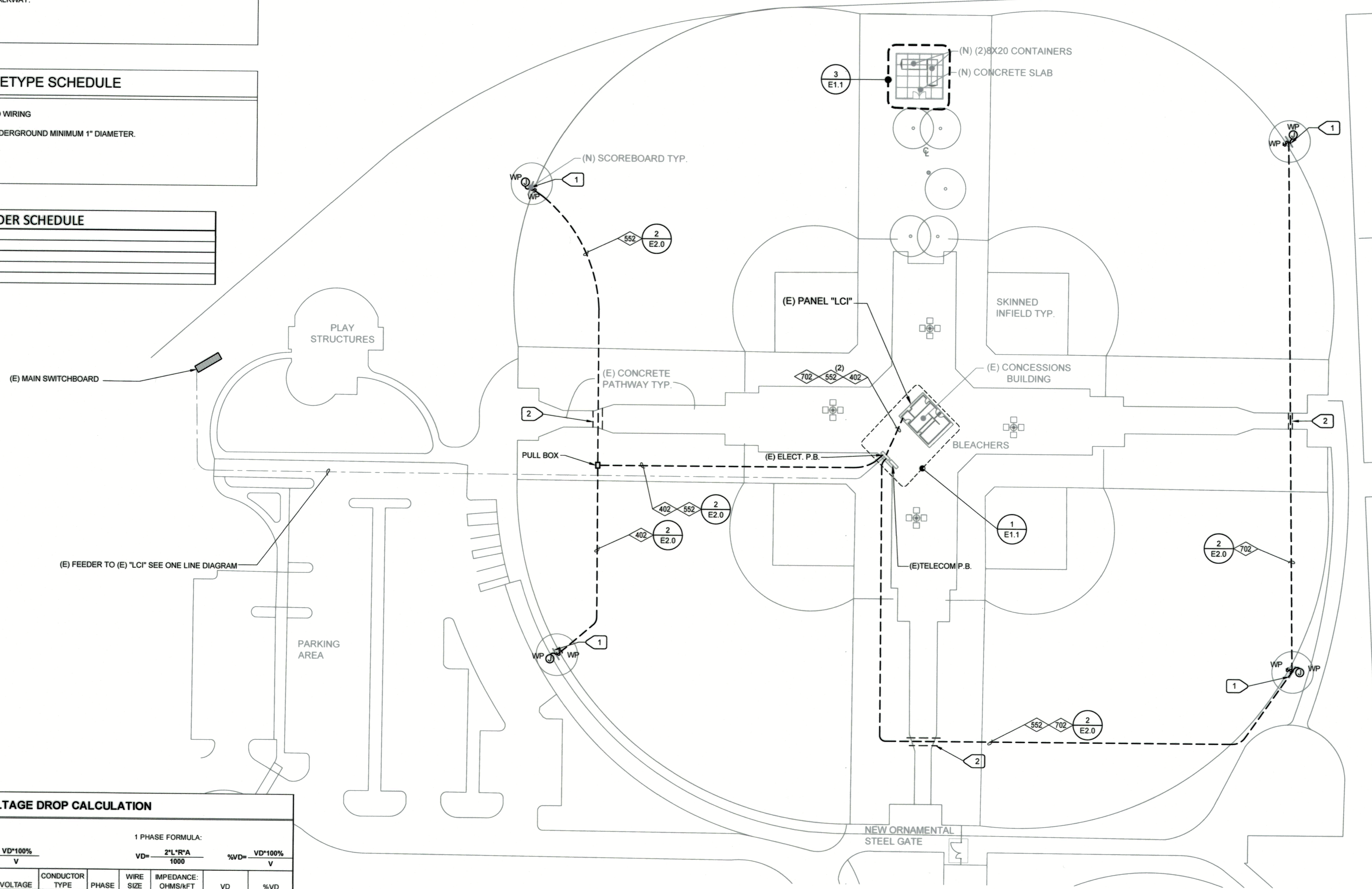
CEC 215.2(A)(3) FPN No. 2

3 PHASE FORMULA:  $VD = \frac{\sqrt{3} \cdot L \cdot R \cdot A}{1000}$       1 PHASE FORMULA:  $VD = \frac{2 \cdot L \cdot R \cdot A}{1000}$

$\%VD = \frac{VD \cdot 100\%}{V}$        $\%VD = \frac{VD \cdot 100\%}{V}$

PANEL - CKT	DISTANCE (FT)	AMPS	VOLTAGE	CONDUCTOR TYPE	PHASE	WIRE SIZE	IMPEDANCE: OHMS/KFT	VD	%VD
LC1 - 25	552	5.8	120	CU	1	#6	0.450	2.88	2.40%
LC1 - 27	402	5.8	120	CU	1	#8	0.700	3.26	2.72%
LC1 - 29	567	5.8	120	CU	1	#6	0.450	2.96	2.47%
LC1 - 31	975	5.8	120	CU	1	#4	0.300	3.39	2.83%

1. CONDUCTOR IMPEDANCE VALUES BASED ON CEC CHAPTER 9 TABLE 9 - EFFECTIVE IMPEDANCE FOR UNCOATED COPPER WIRES IN STEEL CONDUIT @ 0.85 PF (OHM/KFT)  
 2. PER CEC 210.19(A)(1) FPN NO. 4: BRANCH CIRCUITS ARE ALLOWED 3% VOLTAGE DROP AND THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5%



## 1 SITE PLAN - ELECTRICAL

E1.0      SCALE : 1" = 40'-0"

indigo

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art, architecture + ecology  
309 FIFTH STREET, OAKLAND, CA 94612  
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Agency approval

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City Approvals

**Public Works Department**

Approved by *[Signature]* Date *10/21*

City Engineer, Stockton, CA

---

Issue: **100% CDs W/ PLAN CHECK CORRECTIONS 9-20-2021**

No.	Date	Description

---

Project

**McNair Soccer Complex Phase - 2**

9820 Ronald E. McNair Way Stockton CA 95210

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Architect of Record: JH  
Project Architect: JH  
Drafted By: JHP  
Checked By: JPN  
File Date:

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Sheet Title

**SITE PLAN - ELECTRICAL**

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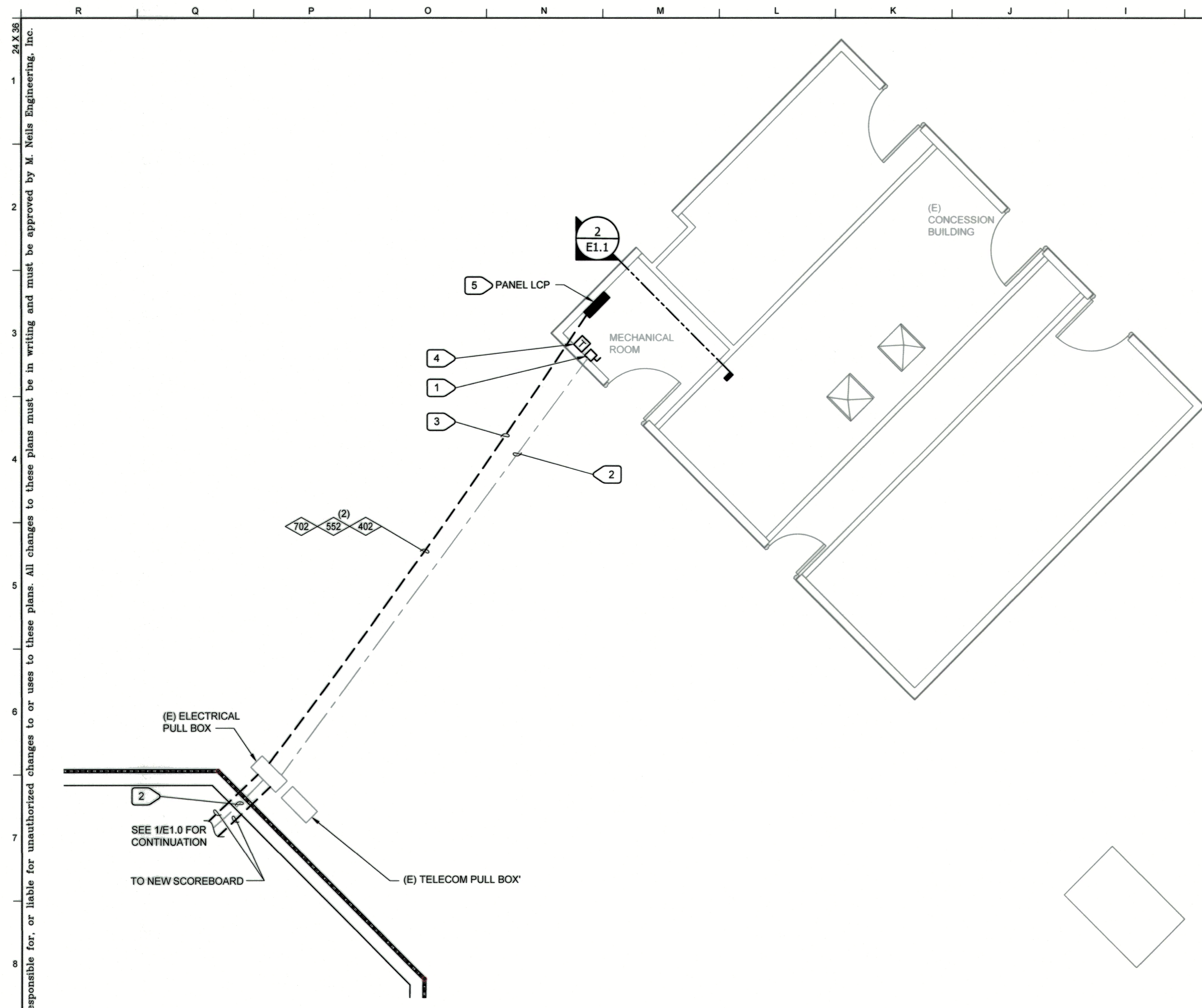
Project Number: CR16024

Reference North	Sheet Scale
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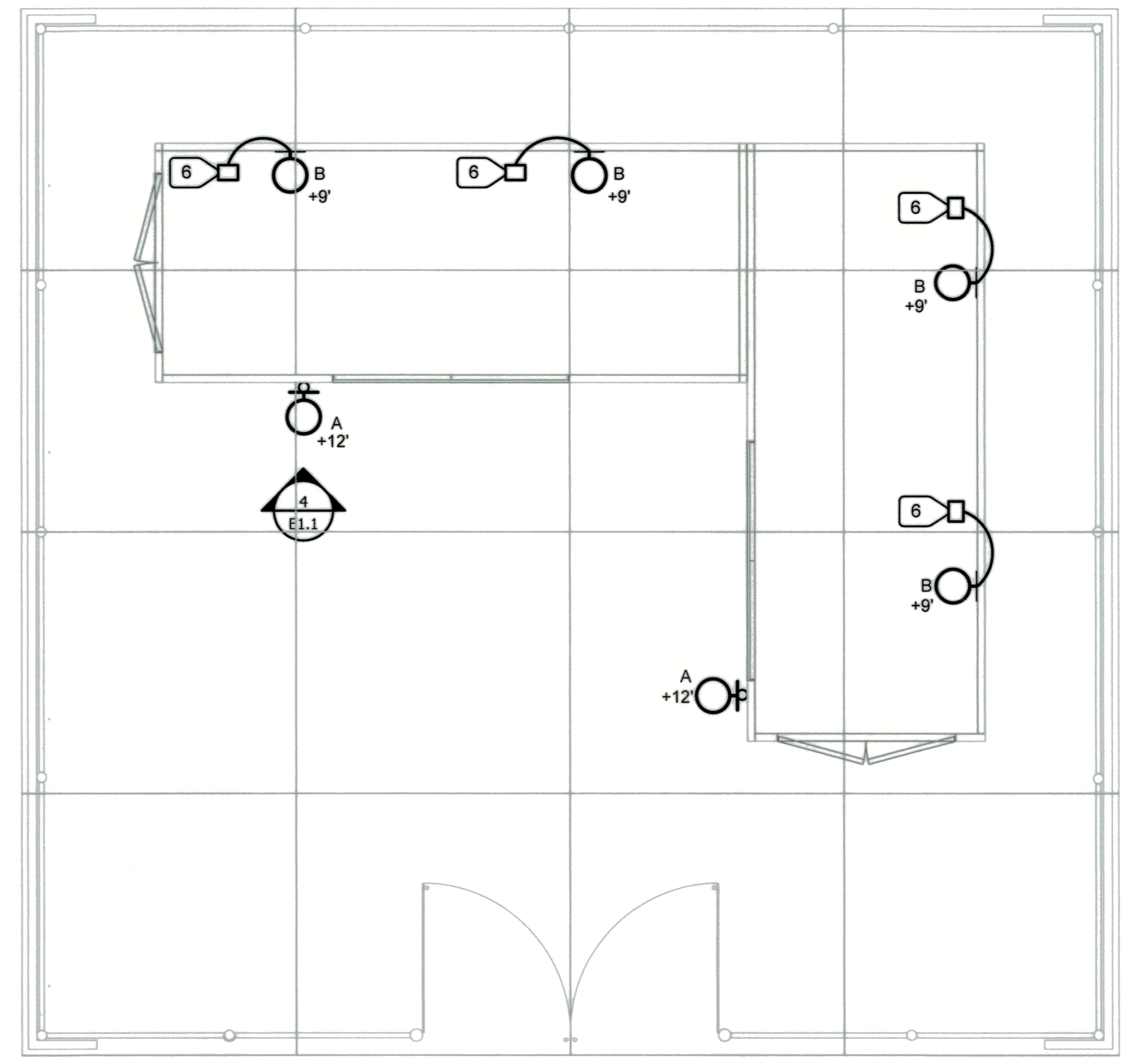
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10-01-2021  
**M. NEILS ENGINEERING INC.**  
 Electrical Engineers | Lighting Designers  
 100 Howe Ave., Suite 2300  
 Sacramento, CA 95825-8217  
 www.mneilsengineering.com  
 Tel: (916) 923-4400 Fax: (916) 923-4410  
 PROJECT #: 20125.21

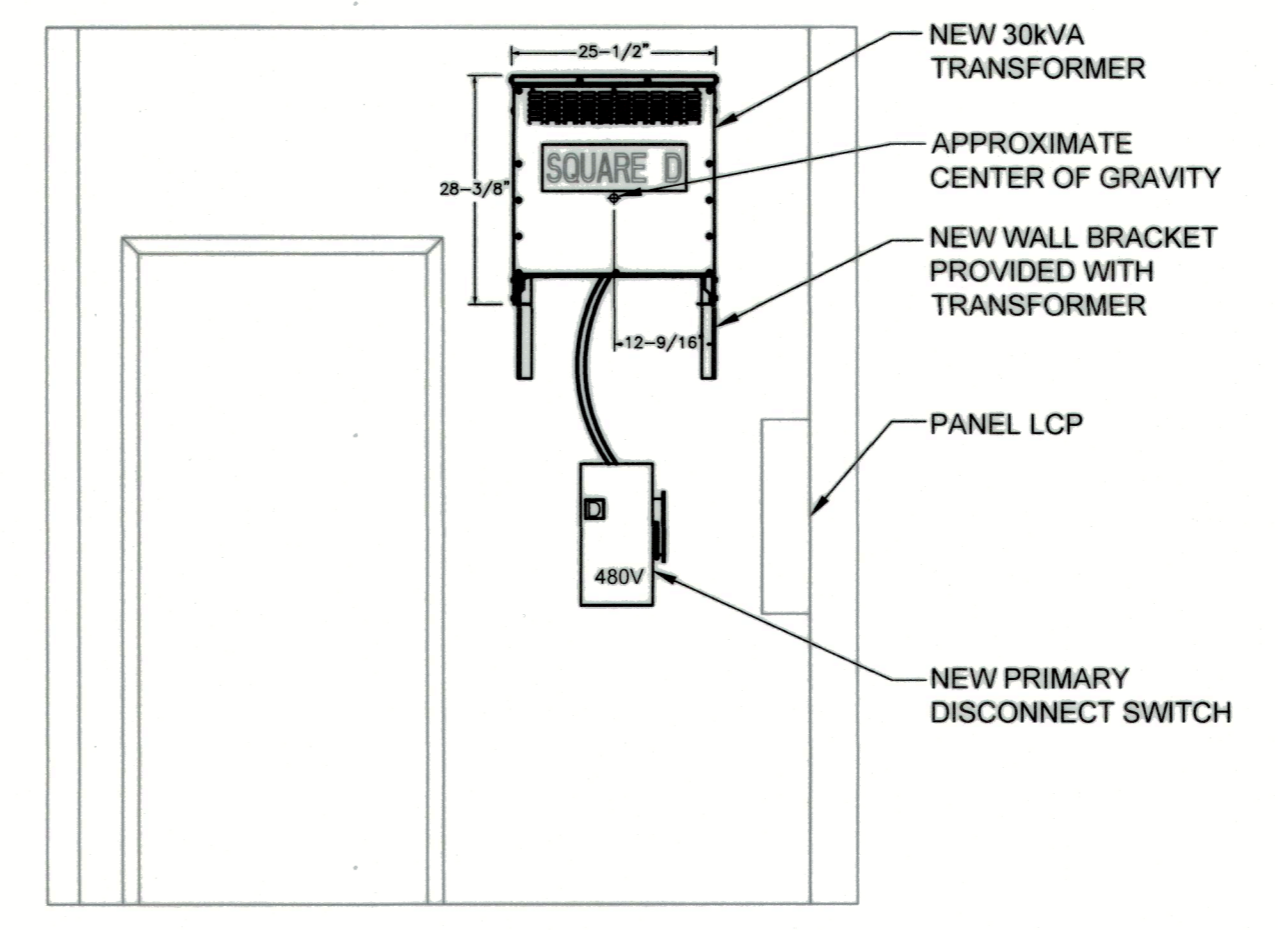
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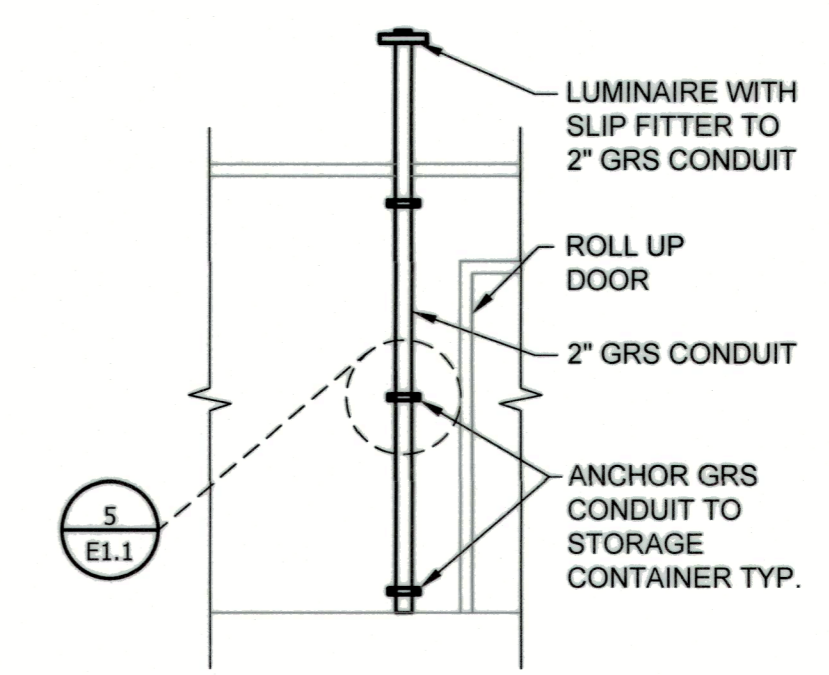
**1 CONCESSIONS & OFFICE PLAN - ELECTRICAL**  
E1.1 SCALE: 1/4" = 1'-0"



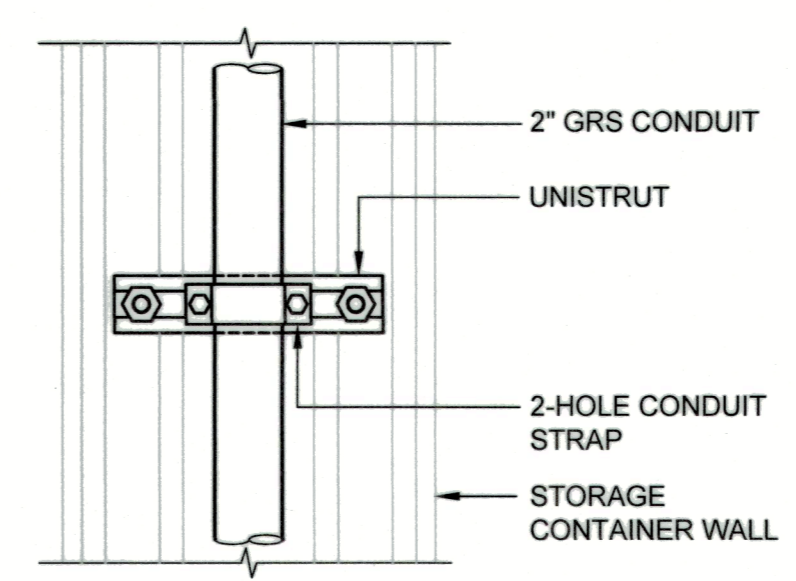
**3 STORAGE YARD PLAN**  
E1.1 SCALE: 1/4" = 1'-0"



**2 SECTION**  
E1.1 SCALE: 1/2" = 1'-0"



**4 ELEVATION**  
E1.1 SCALE: 1/4" = 1'-0"



**5 ENLARGED DETAIL**  
E1.1 NO SCALE

NUMBERED NOTES	
1	REMOVE EXISTING 30A, 3PH DISCONNECT SWITCH AND REPLACE WITH NEW 50A, 3PH PRIMARY DISCONNECT.
2	EXISTING 1 1/2" CONDUIT. REMOVE EXISTING CONDUCTORS AND PULL IN NEW CONDUCTORS. SEE PARTIAL ONE-LINE DIAGRAM ON SHEET E2.0.
3	SAW CUT (E) CONCRETE HARDSCAPE FOR INSTALLATION OF NEW BRANCH CIRCUIT CONDUITS AND CONDUCTORS PATCH TO MATCH EXISTING. SEE DETAIL "2/E2.0." CONFIRM LAYOUT OF SAWCUT WITH ENGINEER BEFORE STARTING WORK.
4	REMOVE EXISTING 15KVA WALL MOUNTED TRANSFORMER AND REPLACE WITH NEW 30KVA, 480V -120/208V, 3PH, 4W TRANSFORMER. PROVIDE WITH FACTORY WALL MOUNTING BRACKETS.
5	REMOVE EXISTING 100AMP, 120/208V, 3PH, 4W, 30 CIRCUIT PANEL BOARD AND REPLACE WITH NEW 100AMP, 120/208V, 3PH, 4W 42 CIRCUIT PANEL BOARD. TRANSFER ALL EXISTING BRANCH CIRCUITS FROM THE EXISTING PANEL BOARD TO THE NEW PANEL BOARD AND RECONNECT.
6	6" X 8" SOLAR PANEL (INCLUDED WITH LUMINAIRE) MOUNTED ON ROOF.

LINETYPE SCHEDULE	
- - - - -	EXISTING CONDUIT AND WIRING
- - - - -	NEW CONDUIT RUN UNDERGROUND MINIMUM 1" DIAMETER.

FEEDER SCHEDULE	
402	1" C., 2 #8, AND 1 #10 GND.
552	1" C., 2 #6 AND 1 #10 GND.
702	1-3/4" C., 2 #4 AND 1 #8 GND.



Agency approval  
City Approvals  
**Public Works Department**  
Approved by *[Signature]* Date *11/2/21*  
City Engineer, Stockton, CA

Issue: 100% CDs W/ PLAN CHECK CORRECTIONS 9-20-2021		
No.	Date	Description

Project  
**McNair Soccer Complex Phase - 2**  
9820 Ronald E. McNair Way Stockton CA 95210

Architect of Record	JH
Project Architect	JH
Drafted By	AP
Checked By	PN
File Date	

Sheet Title  
**ENLARGED SITE PLAN - ELECTRICAL**

Project Number  
CR16024

Reference North	Sheet Scale
N	Sheet Number
<b>E1.1</b>	



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PROJECT #: 20125.21

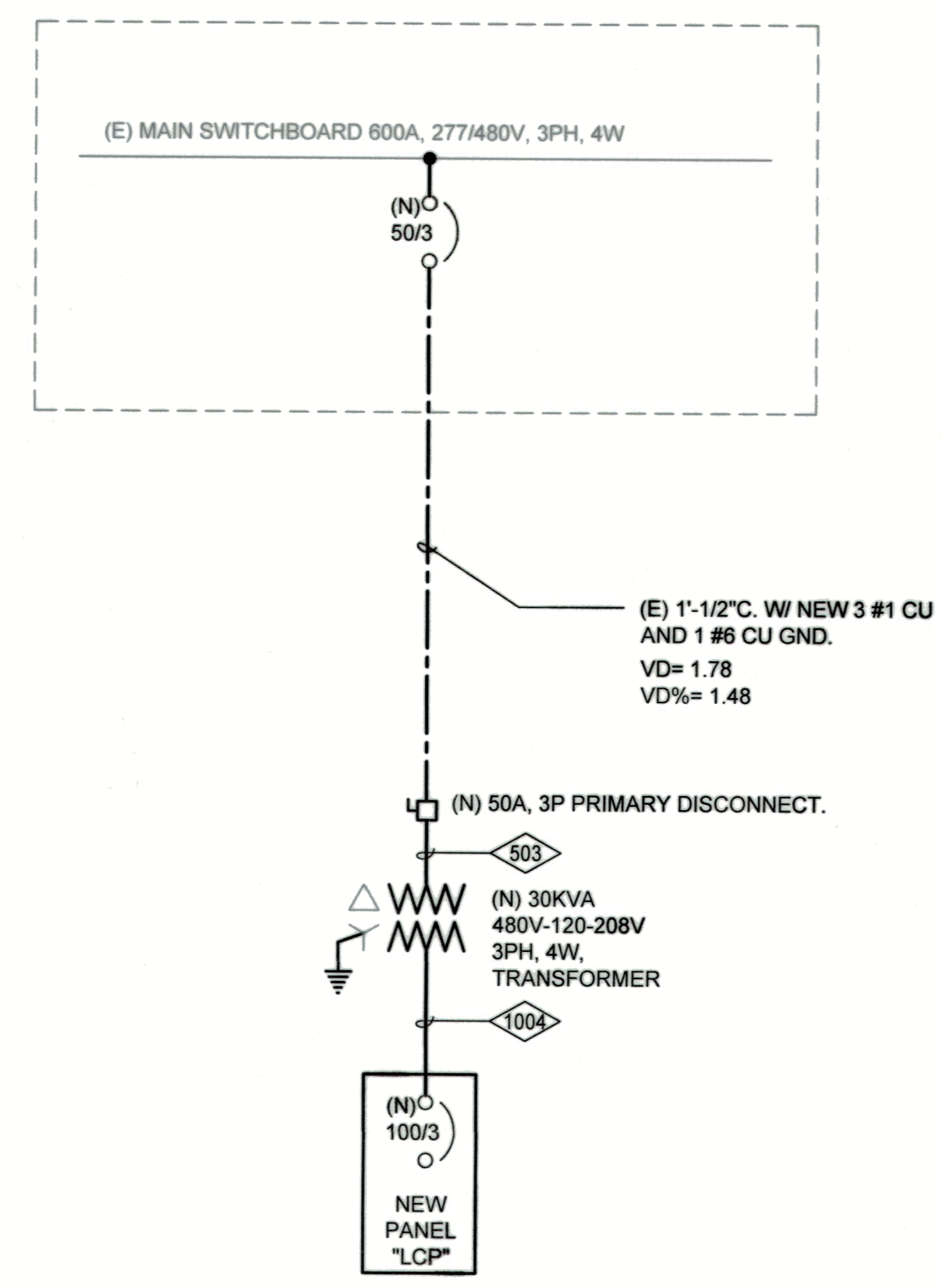
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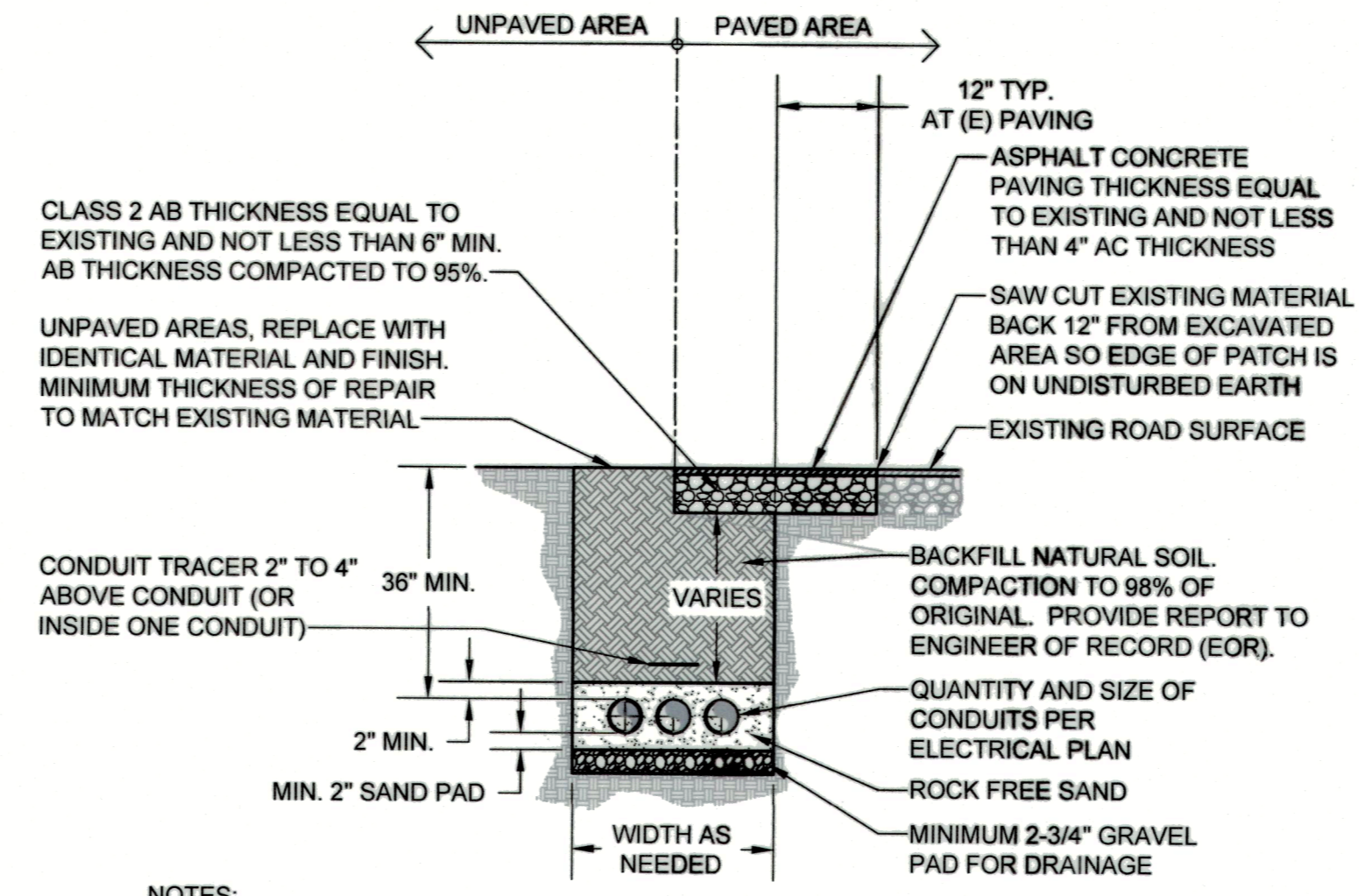
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FEEDER SCHEDULE	
TAG	DESCRIPTION
503	1-1/4" C, 3 #6, AND 1 #10 GND.
1004	1-1/4" C, 4 #2, AND 1 #8 GND.

NEW PANEL "LCP" SCHEDULE									
POWER SOURCE: PANEL "QHD1A"					LOCATION:				
TYPE:	BUS:	MAIN BKR:	VOLTAGE:	MOUNTING:	REMARKS:				
1	100A	SUB FD: 100A	480Y/277 VOLT. 3 PHASE, 4 WIRES	SURFACE	10K AIC MIN. SYMM.				
LOAD SERVED	kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED	
(E) IRRIGATION SPRINKLER	20/1	1	A		2	20/1		(E) EXISTING LIGHTING	
(E) FACP	20/1	3	B		4	20/1		(E) INTERIOR LIGHTING	
(E) RECEPT. RM H3	20/1	5	C		6	20/1		(E) INTERIOR LIGHTING	
(E) RECEPT. RM H3	20/1	7	A		8	20/1		(E) WATER HEATER	
(E) TTP	20/1	9	B		10	20/1		(E) LTG CONT. "LCP"	
(E) WATER HEATER	20/1	11	C		12	20/1		(E) IRRIGATION OUTLETS	
(E) LOAD	20/1	13	A		14	20/1		(E) LOAD	
(E) LOAD	20/1	15	B		16	20/1		(E) LOAD	
(E) LOAD	20/1	17	C		18	20/1		(E) LOAD	
(E) LOAD	20/1	19	A		20	20/1		(E) LOAD	
(E) LOAD	20/1	21	B		22	20/1		(E) LOAD	
(E) LOAD	20/1	23	C		24	20/1		(E) LOAD	
NEW SCOREBOARD	0.7	20/1	25	A	26	20/1		(E) LOAD	
NEW SCOREBOARD	0.7	20/1	27	B	28	20/1		(E) LOAD	
NEW SCOREBOARD	0.7	20/1	29	C	30	20/1		(E) LOAD	
NEW SCOREBOARD	0.7	20/1	31	A	32	20/1		(E) LOAD	
NEW PA SYSTEM	1.0	20/1	33	B	34	PFB		SPACE	
SPACE			PFB	35	C	36	PFB	SPACE	
SPACE			PFB	37	A	38	PFB	SPACE	
SPACE			PFB	39	B	40	PFB	SPACE	
SPACE			PFB	41	C	42	PFB	SPACE	

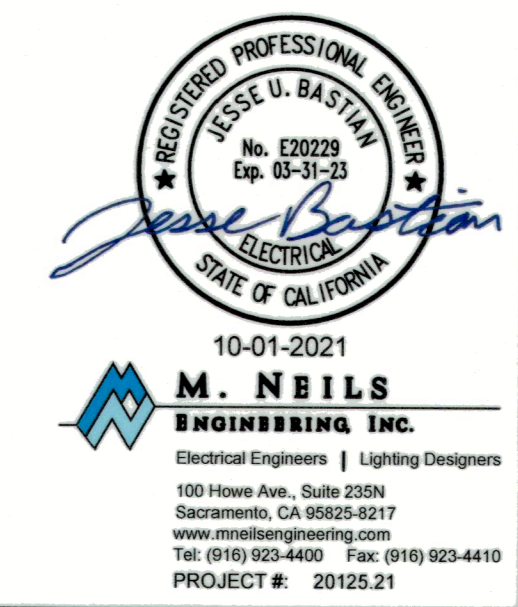


1 PARTIAL ONE LINE DIAGRAM  
E2.0



- NOTES:
- 12" MIN. RADIAL CONDUIT SEPARATION FROM EXISTING UTILITIES AND CONDUITS.
  - IN THE CASES WHERE THERE ARE EXISTING CONDUITS AT 36" DEPTH, THE NEW CONDUITS ARE TO GO UNDER WITH THE MINIMUM SPACING INDICATED.
  - NEW SURFACE (ASPHALT, CONCRETE, TURF, DIRT, ETC.) TO MATCH EXISTING IN QUALITY AND COLOR (FOR DIRT RESEED). PROVIDE EXPANSION JOINTS AT CONCRETE WALK TO ALIGN WITH EXISTING.

2 CONDUIT TRENCH DETAIL  
E2.0 NO SCALE



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Agency approval

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City Approvals  
**Public Works Department**  
 Approved by: *[Signature]*  
 Date: *[Date]*  
 City Engineer, Stockton, CA

---

Issue: 100% CDs W/ PLAN  
 CHECK CORRECTIONS  
 9-20-2021

No.	Date	Description

---

Project  
**McNair Soccer Complex Phase - 2**  
 9820 Ronald E. McNair Way Stockton CA 95210

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Architect of Record	JH
Project Architect	JH
Drawn By	JP
Checked By	PN
File Date	

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Sheet Title  
**ONE LINE DIAGRAM, PANEL SCHEDULE, AND DETAILS**

Project Number  
 CR16024

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Reference North	Sheet Scale
Sheet Number	<b>E2.0</b>

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