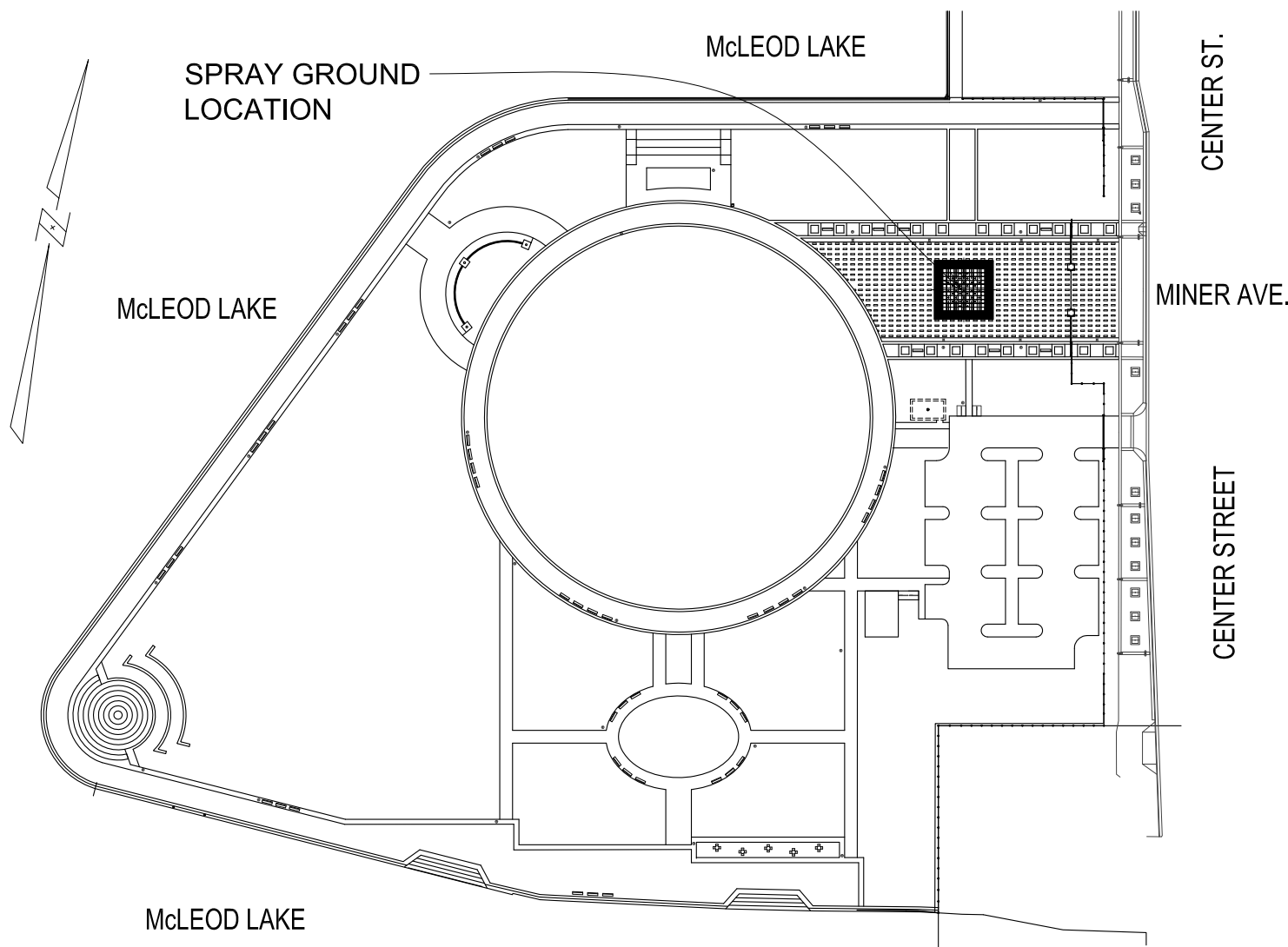


# WEBER EVENTS CENTER FOUNTAIN RENOVATION

## STOCKTON, CALIFORNIA

### LOCATION MAP



### CITY REPRESENTATIVE:

VICTOR MACHADO  
PARKS MANAGER  
MUNICIPAL SERVICE CENTER  
1465 S. LINCOLN ST.  
STOCKTON, CA 95206  
TELEPHONE: (209) 937-8899

(Signature) (date)

### PREPARED BY:



**FORMOSA**  
FOUNTAIN & ENGINEERING COMPANY  
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### MECHANICAL NOTES

- 1) ALL MECHANICAL WORK SHALL BE COMPLIANT WITH THE 2016 CALIFORNIA BUILDING STANDARDS CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24) (HEREINAFTER "CBC").
- 2) VERIFY THE EXACT LOCATION OF THE EQUIPMENT SPACE AND WATER DISPLAYS WITH THE ARCHITECTURAL OR LANDSCAPE DRAWINGS IF NOT SPECIFIED BY THE FOUNTAIN DOCUMENTATION.
- 3) THE PIPE ROUTING SHOWN ON THE PIPING PLAN IS DIAGRAMMATIC AND PLACED FOR GRAPHIC CLARITY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT ROUTING AT THE SITE TO AVOID CONFLICT WITH SITE CONDITIONS. ANY REROUTING WHICH CREATES A TRAPPED CONDITION IN THE PIPING, OR ANY OTHER IMBALANCE, MUST BE CALLED TO THE FOUNTAIN CONSULTANT'S ATTENTION BEFORE THE PIPE IS INSTALLED.
- 4) ALL PIPING BETWEEN THE FOUNTAIN AND THE EQUIPMENT SPACE SHALL BE SLOPED DOWN TOWARD THE EQUIPMENT SPACE UNLESS OTHERWISE INDICATED IN THE FOUNTAIN DOCUMENTATION.
- 5) PROVIDE WATERSTOP, FLASHING FLANGE, OR PENETRATION SEAL AS APPROPRIATE AND AS SHOWN IN THE DETAILS PROVIDED, AT EACH WALL OR FLOOR PENETRATION UNDER THIS WORK.
- 6) PIPING IN PARALLEL OR CROSSING SHALL HAVE A THREE INCH MINIMUM CLEARANCE TO OTHER PIPE.
- 7) SUPPORT PIPING PER DRAWINGS AND PER THE 2018 CALIFORNIA PLUMBING CODE, SECTION 310.
- 8) ALL EQUIPMENT AND PIPING SHOWN ON THE EQUIPMENT SPACE PLANS ARE DRAWN GRAPHICALLY TO SCALE WITH PROPER CLEARANCES. ANY DEVIATION FROM THE ARRANGEMENTS SHOWN MUST BE APPROVED BY THE FOUNTAIN CONSULTANT PRIOR TO THE INSTALLATION OF EQUIPMENT OR PIPING.
- 9) PROVIDE UNIONS AND/OR FLANGES AS SHOWN, AND AS REQUIRED TO FACILITATE REMOVAL OF ALL VALVES, PUMPS AND OTHER EQUIPMENT. SUBJECT TO APPROVAL BY CITY OR ENGINEER.
- 10) NOT USED.
- 11) NO GALVANIZED, STEEL, ABS OR PVC TYPE 2 PIPING IS ALLOWABLE UNDER THE SCOPE OF THIS WORK.
- 12) ALL PIPING PENETRATIONS FROM THE EQUIPMENT SPACE SHALL BE IN THE SAME MATERIAL USED WITHIN THE EQUIPMENT SPACE.
- 13) ALL PIPING PENETRATIONS THROUGH THE POOL FLOOR SHALL BE OF RED BRASS PIPE OR COPPER TUBING APPROVED FOR THE APPLICATION UNLESS OTHERWISE NOTED. ALL PENETRATION SHALL BE FLASHED TO PREVENT LEAKAGE.
- 14) THE SUCTION EYE OF FLOODED END SUCTION PUMPS MUST BE LOCATED BELOW THE WATER LEVEL OF THE FOUNTAIN.
- 15) SUCTION LINES MUST BE A STRAIGHT RUN INTO THE PUMP SUCTION EYE OF AT LEAST EIGHT PIPE DIAMETERS BEFORE ANY ELBOWS OR TEES, WITH NO LOOPS OR HIGH POINTS IN THE SYSTEM.
- 16) USE LONG RADIUS ELBOWS IN THE SUCTION LINES. MAKE ALL RUNS AS DIRECT AS POSSIBLE, USING A MINIMUM NUMBER OF FITTINGS.
- 17) PROVIDE EQUIPMENT SPACE VENTILATION IN ACCORDANCE WITH THE SPECIFIED DESIGN. ANY DEVIATION MUST BE APPROVED BY THE FOUNTAIN CONSULTANT PRIOR TO INSTALLATION.
- 18) THE CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS THAT MIGHT BE CRITICAL TO OR EFFECT FOUNTAIN PERFORMANCE, SUCH AS ALL DIMENSIONS REFERENCED TO WATER LEVEL.

### ELECTRICAL NOTES

- 1) ALL ELECTRICAL WORK SHALL BE COMPLIANT WITH THE 2016 CALIFORNIA ELECTRICAL CODE (CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 3) (HEREINAFTER "CEC").
- 2) ALL ELECTRICAL WORK ASSOCIATED WITH THE FOUNTAIN(S) SHALL BE COMPLIANT WITH CEC ARTICLE 680 PART I AND V.
- 3) LUMINAIRES, SUBMERSIBLE PUMPS, AND OTHER SUBMERSIBLE EQUIPMENT SHALL BE COMPLIANT WITH CEC ARTICLE 680.51.
- 4) JUNCTION BOXES AND OTHER ENCLOSURES SHALL BE COMPLIANT WITH CEC ARTICLE 680.52.
- 5) ALL METAL PIPING SYSTEMS ASSOCIATED WITH THE FOUNTAIN(S) SHALL BE BONDED IN COMPLIANCE WITH CEC ARTICLE 680.53 AND ARTICLE 250.8.
- 6) GROUNDING SHALL BE COMPLIANT WITH CEC ARTICLE 680.54 AND 680.55
- 7) ANY CORD AND PLUG CONNECTED EQUIPMENT SHALL BE COMPLIANT WITH CEC ARTICLE 680.56.
- 8) ALL CONDUIT STUBBED UP THROUGH THE POOL FLOOR SHALL BE METALLIC AND LISTED. THE METAL SHALL BE CORROSION RESISTANT. THE METALLIC CONDUIT SHALL EXTEND 9" MINIMUM FROM THE POOL STRUCTURE INTO THE BACKFILL MATERIAL. THE METALLIC STUB-UP CONDUIT SHALL INCLUDE A WATER-STOP FLANGE AT THE MID POINT IN THE POOL STRUCTURE.
- 9) PRESSURE TEST PER THE 2018 ASTM F2261 THE CONDUIT SYSTEM TO VERIFY NO LEAKAGE. THE CONDUIT SYSTEM SHALL BE INSTALLED TO BE SELF-DRAINING.
- 10) ALL EQUIPMENT SHALL BE LISTED FOR THE PURPOSE AS REQUIRED BY THE CEC.
- 11) VERIFY THE EXACT LOCATIONS OF THE FOUNTAIN AND EQUIPMENT SPACE(S) WITH THE ARCHITECTURAL CONSTRUCTION DOCUMENTS. NOTIFY THE FOUNTAIN ENGINEER IF ANY SIGNIFICANT DISCREPANCIES EXIST WITH THE FOUNTAIN CONSTRUCTION DOCUMENTS.
- 12) CONDUIT ROUTING IS GENERALLY DIAGRAMMATIC AND SHOWN FOR CLARITY. THE CONTRACTOR SHALL LAY OUT THE CONDUIT RUNS TO SUIT ACTUAL SITE CONDITIONS. NOTIFY THE FOUNTAIN ENGINEER OF ANY CHANGES. PROVIDE AS BUILTS TO THE FOUNTAIN ENGINEER.
- 13) SENSOR AND DATA WIRING SHALL BE IN CONDUITS SEPARATE FROM POWER WIRING.
- 14) ALL COMPONENTS AND FASTENERS SHALL BE CORROSION RESISTANT.
- 15) ALL METALLIC COMPONENTS WITHIN THE PERIMETER OF THE FOUNTAIN OR WITHIN 6' OUTSIDE SHALL BE BONDED IN COMPLIANCE WITH THE CEC ARTICLE 680.

### CONSTRUCTION NOTES

- ALL LAYOUT DIMENSIONS ARE FROM PLAN VIEW CALCULATIONS. ACTUAL FIELD DIMENSIONS MAY VARY FROM PLAN DUE TO ACTUAL SITE CONDITIONS OR THIRD DIMENSION DISTANCES.
- ALL EXISTING CONDITIONS ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF EXISTING SITE IMPROVEMENTS DAMAGED DUE TO THE CONTRACTOR'S ACTIONS WHILE PERFORMING WORK ON THIS PROJECT. THE CONTRACTOR'S REPAIRS/REPLACEMENT SHALL BE SUBJECT TO THE SATISFACTION OF THE CITY REPRESENTATIVE. THE CONTRACTOR SHALL CREATE A VIDEO LOG OF THE EXISTING SITE CONDITIONS PRIOR TO START OF ANY WORK.
- ALL PROPOSED UTILITY INFORMATION IS SHOWN FOR REFERENCE ONLY. REFER TO THE CIVIL PLANS FOR CONFIRMATION.
- THESE DRAWINGS USE A SYSTEM OF KEYNOTES, SYMBOLS, AND ABBREVIATIONS FOR MATERIAL DESIGNATIONS AND SPECIFIC FUNCTION. THE CONTRACTOR SHALL BE FAMILIAR WITH THESE ITEMS PRIOR TO COMMENCING WORK. CONTACT THE ENGINEER IF ANY CONFLICTS ARE FOUND.
- ALL SYMBOLS ARE SHOWN DIAGRAMMATIC, ILLUSTRATING THE APPROXIMATE LOCATION OF EXISTING AND PROPOSED MATERIALS. ANY DISCREPANCIES OR CONFLICTS BETWEEN EXISTING AND PROPOSED CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PERFORMING WORK.
- REFER TO THE SPECIFICATONS FOR ADDITIONAL INFORMATION PERTAINING TO THE PROJECT MATERIALS, PROCEDURES, AND INSTALLATION.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- THE DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED BUILT CONDITIONS. ALL BRACING, TEMPORARY SUPPORTS, AND SHORING NECESSARY FOR CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DIMENSIONS MARKED "VERIFY" ARE TO BE FIELD MEASURED. ANY DISCREPANCIES FROM THE NOTED DIMENSION ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONTINUING WORK.
- ALL ARCHITECTURAL INFORMATION IS SHOWN FOR REFERNECE ONLY. REFER TO THE ARCHITECTURAL DRAWINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- REFER TO THE CIVIL DRAWINGS FOR ALL UNDERGROUND DRAINAGE, INLET, AND UTILITY LOCATIONS, ELEVATIONS, AND DETAILS. VERIFY THAT ALL UTILITIES DO NOT CONFLICT WITH PROPOSED CONSTRUCTION PRIOR TO WORK.
- LAYOUT OF ARCS AND CURVES ARE TO BE SMOOTH AND CONTINUOUS. OBTAIN ENGINEER APPROVAL PRIOR TO ALL CONSTRUCTION.



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Revision No.	Description	Date	By	Appr. By

FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
COVER SHEET		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE 7/15/2019	APPROVED BY: DATE	SHEET NO. F-1
DESIGNED BY LM	CITY ENGINEER STOCKTON, CALIFORNIA	PW1735 PROJECT NO.
DRAWN BY LM, VM		
CHECKED BY LM		
RECORD DWGS.		



EXISTING 4' IRRIGATION MAIN LINE APPROXIMATE LOCATION. SHUT OFF IRRIGATION SUPPLY WATER BEFORE EXCAVATING & REPAIR PIPE IF NECESSARY AFTER EXCAVATION.

EXCAVATE AS NECESSARY TO EXPOSE PIPING, NOM. 5.00.

EXISTING 3/4" IRRIGATION SPRINKLER LINE. REMOVE & REPLACE AFTER COMPLETION.

EQUIPMENT ROOM:  
ALL EXISTING EQUIPMENT TO BE REMOVED. THE INTERIOR SHALL BE PRESSURE WASHED AND PAINTED. UNUSED PIPES SHALL BE CUT FLUSH & SEALED.

PAINT INTERIOR WITH PPG AMERCOAT 385 OR APPROVED EQUAL.

REMOVE EXISTING PORTIBLE KIOSK

EXISTING TREES SHALL NOT BE DAMAGED DURING EXCAVATION.

EXISTING 12" STORM DRAIN

4.00 INV 12"

EXCAVATE AS NECESSARY TO EXPOSE PIPING, NOM. 5.00, EL 3.00 AT STORM DRAIN & DISPLAY DISCHARGE PIPING LOCATIONS.

TOP OF PAVER EL 10.70

REMOVE ALL ITEMS (PIPING, LIGHTING, MECHANICAL, ETC) FROM THE POOL, LEAVING THE PAVER SUPPORT STRUCTURE INTACT. THE PAVER SUPPORT STRUCTURE CAN BE REMOVED AND REINSTALLED IF DEEMED NECESSARY BY CONTRACTOR. KEEP THE CONDUIT STUB-UPS INTACT.

EXCAVATE AS NECESSARY TO INSTALL PERIMETER TRENCH DRAIN, NOM. EL 8.00.

REFER TO SECTION 02 41 00 OF THE SPECIFICATIONS.

1 DEMOLITION PLAN

Scale: 3/16" = 1'-0"



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FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
DEMOLITION PLAN		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE 7/15/2019	APPROVED BY: DATE	SHEET NO. F-2
DESIGNED BY LM	CITY ENGINEER STOCKTON, CALIFORNIA	OF SHEETS
DRAWN BY LM, VM		PW1735
CHECKED BY LM		PROJECT NO.
RECORD DWGS.		

PUBLIC RESTROOM LOCATION  
PER SECTION 3116B.

OUTDOOR SHOWER LOCATION,  
PER SECTION 3116B.  
STERN-WILLIAMS 6200



ANEMOMETER LOCATION  
(EXISTING)

PERIMETER TRENCH DRAIN  
TO STORM DRAIN

SPLASH ZONE, TYPICAL

SPRAY GROUND LOCATION

- REQUIRED SIGNS:
- CPR SIGN  
S-9117  
SMARTSIGN.COM
  - 911 SIGN  
K-3585 (LARGE 911)  
WITH FOUNTAIN LOCATION  
ADDRESS.  
SMARTSIGN.COM
  - EMERGENCY NUMBERS SIGN:  
S-1520  
SMARTSIGN.COM
  - DIARRHEA SIGN:  
20'x14" (1" LETTERS)  
NHE-17378  
COMPLIANCE SIGNS.COM
  - DO NOT DRINK SIGN:  
NHE-17820-CALIFORNIA  
COMPLIANCE SIGNS.COM
  - SPRAY GROUND RULES:  
S-7761  
MYSAFETYSIGN.COM

DRINKING FOUNTAIN LOCATION

SPRAY GROUND PUMP / FILTER  
ROOM.

SLOPE

SLOPE

4' DRY ZONE TYP.

SLOPE

SLOPE

N

HOSE BIB CONNECTION, 3/4"  
QUICK COUPLING VALVE TYPE.

① SPRAY GROUND, SHOWER, RESTROOM, AND SIGN PLAN

Scale: 1/16" = 1'-0"



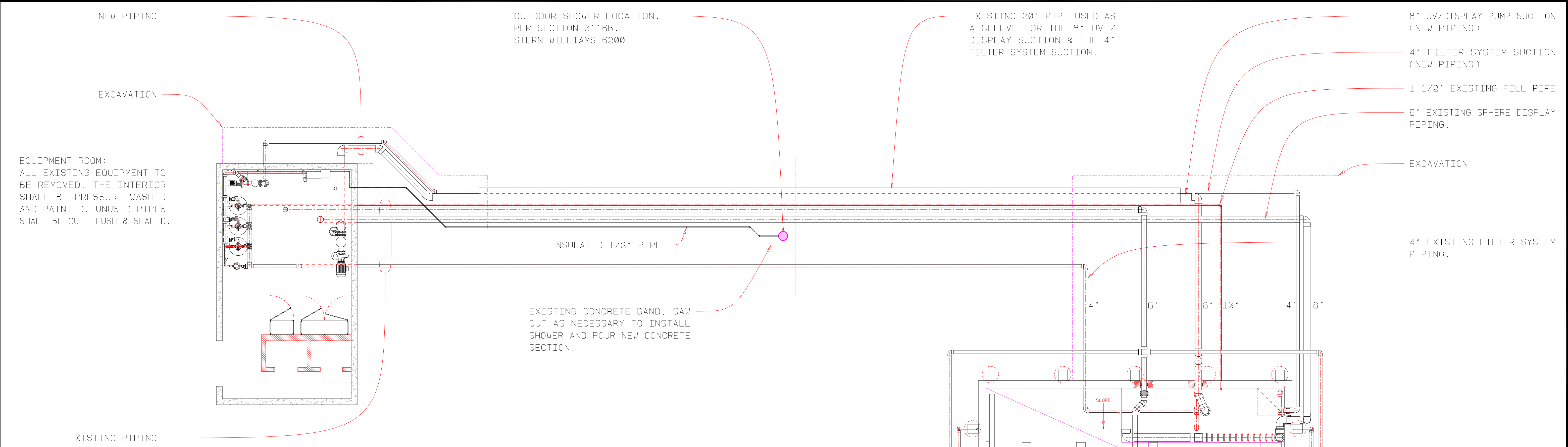
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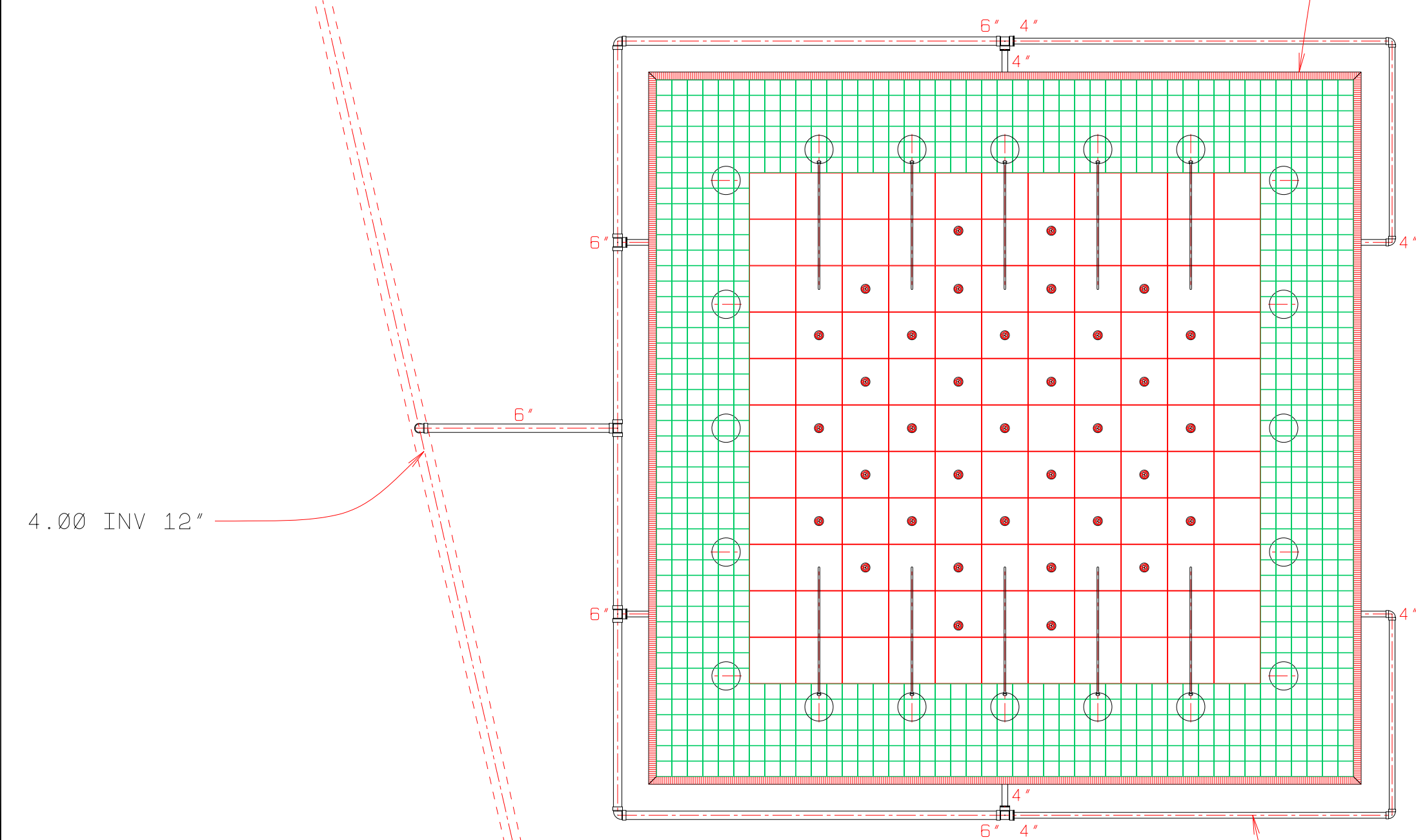
Revision No.	Description	Date	By	Appr'd. By

FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
CODE COMPLIANCE PLAN		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE 7/15/2019	APPROVED BY: DATE	SHEET NO. F-3
DESIGNED BY LM	CITY ENGINEER STOCKTON, CALIFORNIA	OF SHEETS
DRAWN BY LM, VM		PW1735
CHECKED BY LM		PROJECT NO.
RECORD DWGS.		



① SPRAY GROUND MECHANICAL PLAN 1  
3/16" = 1'-0"

EXISTING 12' STORM DRAIN



FOUNTAIN ELEVATION 10.70

② SITE DRAINAGE PLAN  
Scale: 1/8" = 1'-0"

EXISTING CONCRETE BAND, SAW CUT AS NECESSARY TO INSTALL SHOWER AND POUR NEW CONCRETE SECTION.

PERIMETER CHANNEL DRAIN, 6' WIDE, W/ SAND COLORED GRATE, & TAMPER RESISTANT SCREWS. POLYETHYLENE BODY POLYOLEFIN GRATE.  
10x DS-091  
12x DS-092  
12x DS-093  
04x DS-094  
08x DS-094N  
06x DS-340  
06x 1245  
90x 664 SAND GRATES  
180x DS-650 SCREWS  
NDS (OR APPROVED EQUAL)

SCH. 40 PVC DRAIN PIPES

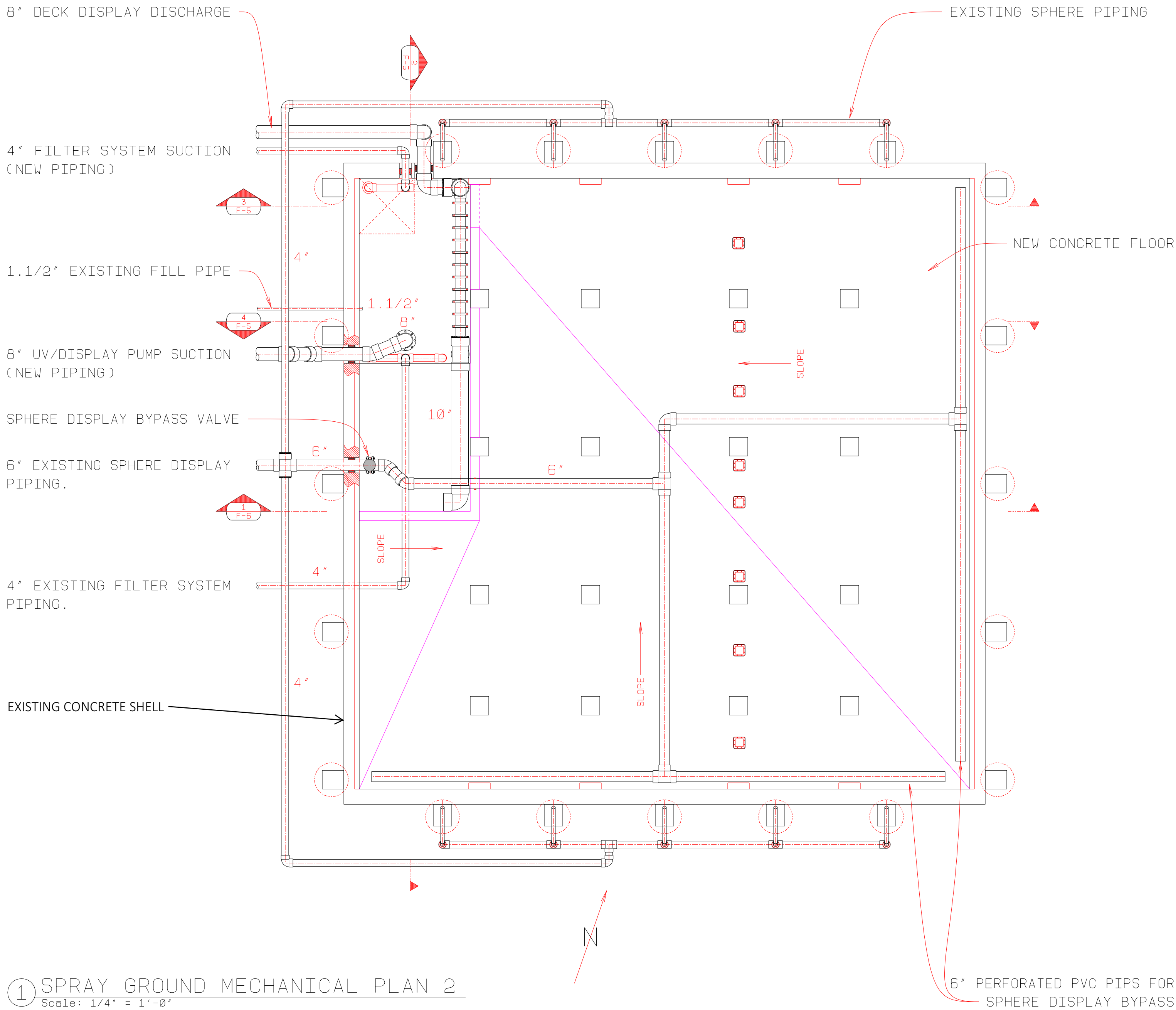


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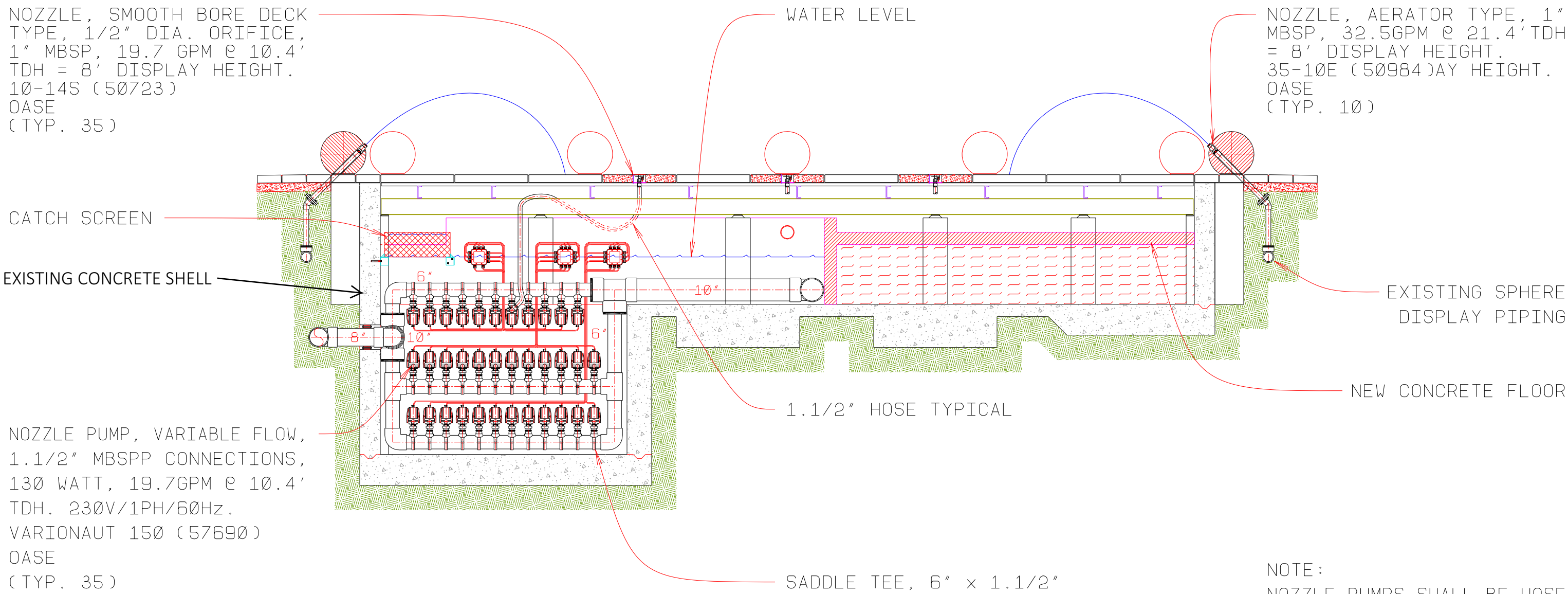
Revision No.	Description	Date	By	Appr. By

FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
MECHANICAL PLAN 1		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE DESIGNED BY DRAWN BY CHECKED BY RECORD DWGS.	7/15/2019 LM LM, VM LM 	APPROVED BY: DATE CITY ENGINEER STOCKTON, CALIFORNIA
SHEET NO. F-4 OF SHEETS PW1735 PROJECT NO.		



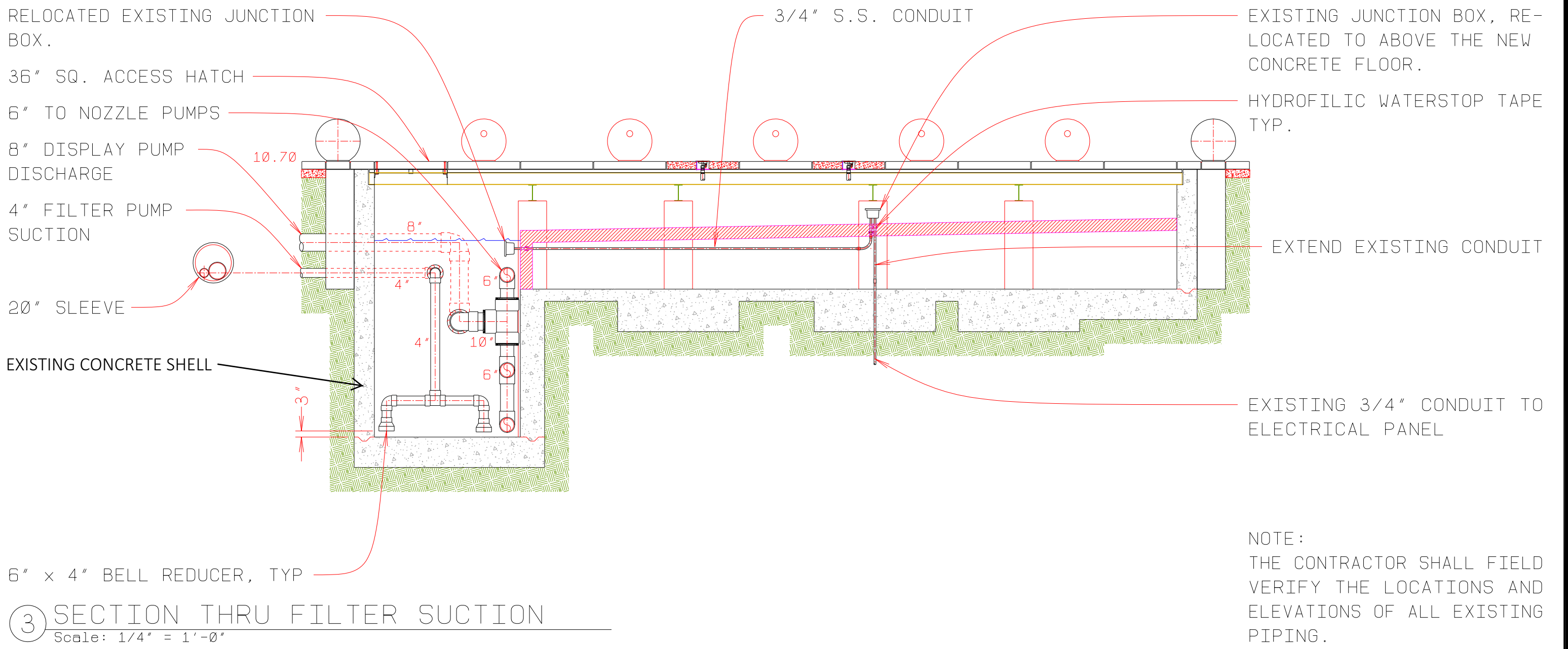


① SPRAY GROUND MECHANICAL PLAN 2  
Scale: 1/4" = 1'-0"

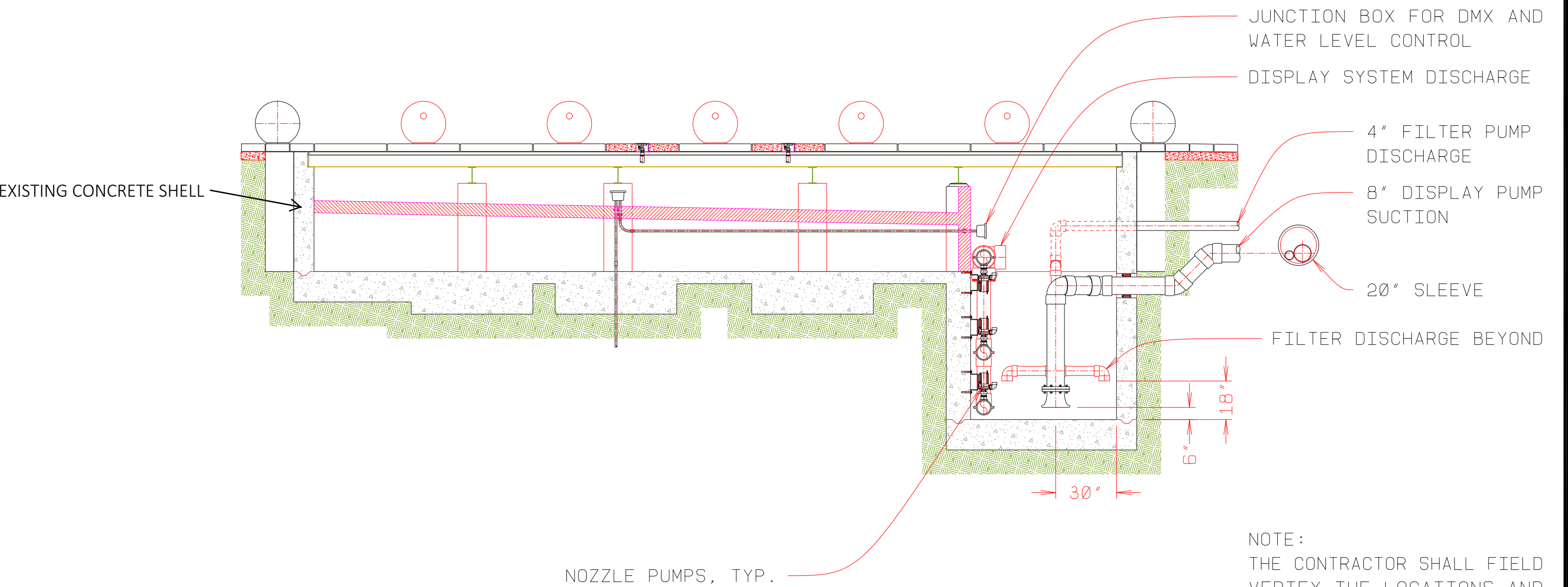


② SECTION THRU DECK NOZZLE PUMPS  
Scale: 1/4" = 1'-0"

NOTE:  
NOZZLE PUMPS SHALL BE HOSE  
CONNECTED TO THE NOZZLES.  
USE 1.1/2" ID EPDM HOSE.



③ SECTION THRU FILTER SUCTION  
Scale: 1/4" = 1'-0"



④ SECTION THRU DISPLAY SUCTION  
Scale: 1/4" = 1'-0"

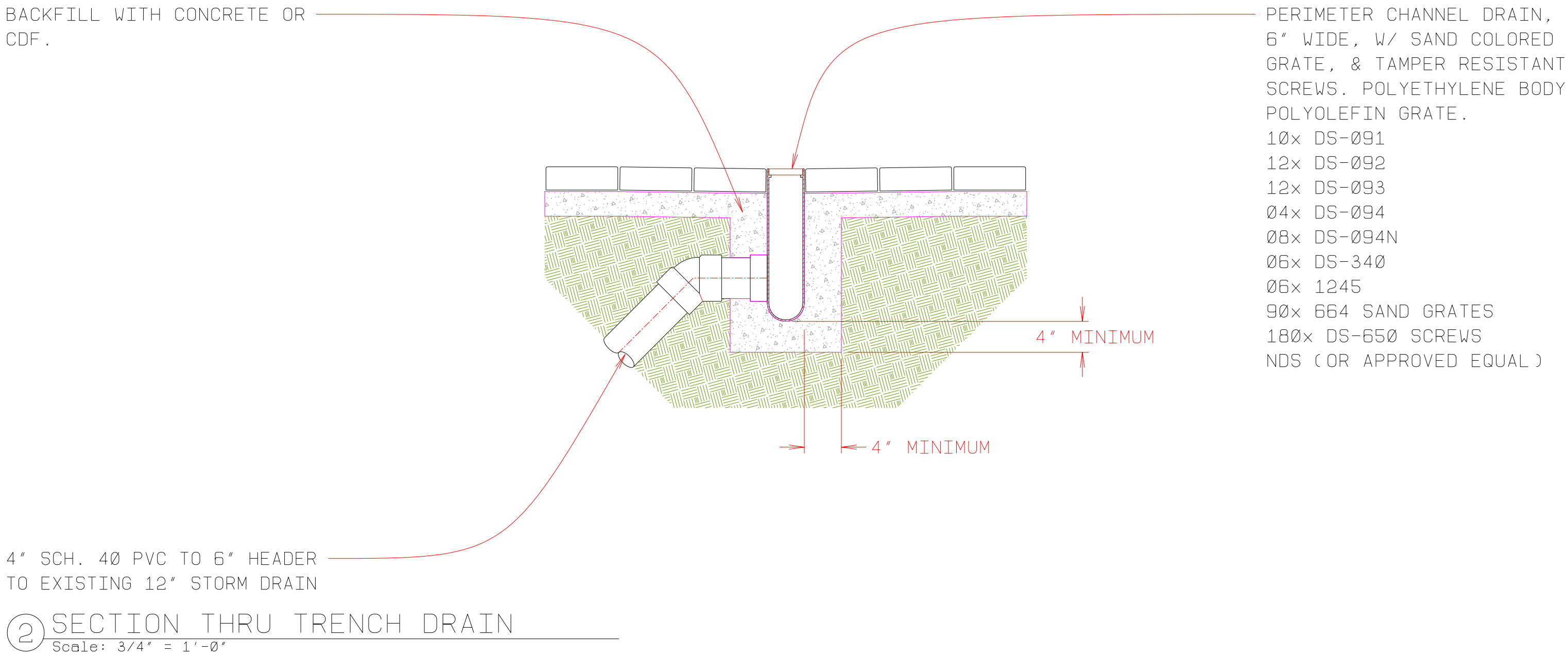
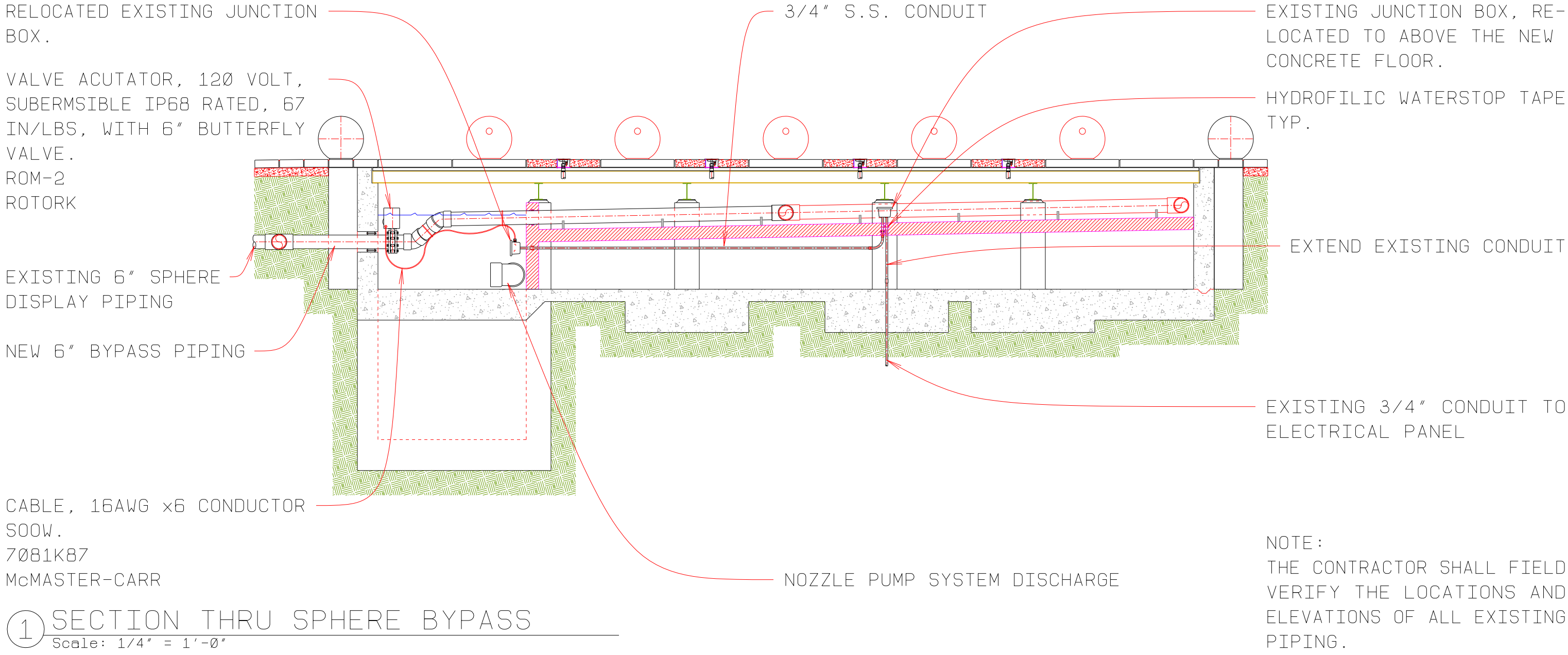


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FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
<b>MECHANICAL PLAN 2 AND SECTIONS</b>		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE 7/15/2019	APPROVED BY: DATE	SHEET NO. F-5
DESIGNED BY LM	CITY ENGINEER STOCKTON, CALIFORNIA	OF SHEETS
DRAWN BY LM, VM		PW1735
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RECORD DWGS.		





④ NOT USED  
Scale: None

⑤ NOT USED  
Scale: None

③ NOT USED  
Scale: None



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FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
MECHANICAL SECTIONS		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE 7/15/2019	APPROVED BY: DATE	SHEET NO. F-6
DESIGNED BY LM	CITY ENGINEER STOCKTON, CALIFORNIA	OF SHEETS
DRAWN BY LM, VM		PW1735
CHECKED BY LM		PROJECT NO.
RECORD DWGS.		

EXISTING CONCRETE SPHERE,  
WITH 2" NOZZLE CONNECTION  
(TYP. 10)

VALVE ACUTATOR, 120 VOLT,  
SUBERMSIBLE IP68 RATED, 67  
IN/LBS, WITH 6" BUTTERFLY  
VALVE.  
ROM-2  
ROTORK

EXISTING PIPING

NOZZLE PUMP, VARIABLE FLOW,  
1.1/2" MBSP CONNECTIONS,  
130 WATT, 19.7GPM @ 10.4'  
TDH. 230V/1PH/60Hz.  
VARIONAUT 150 (57690)  
OASE  
(TYP. 35)

ULTRAVIOLET DISINFECTION  
SYSTEM, COMPLIANT W/ CBC  
SECTION 3106B, 1,300 GPM  
EM1300EL  
DELTA UV

FLOW METER, 250-1050 GPM,  
ROTO-METER TYPE.  
F30600P  
BLUE-WHITE IND.

WATER FEATURE PUMP, 7½HP,  
RATED 925 GPM @ 28' TDH,  
1200 RPM, 9.40" TRIM, 87%  
EFF. 208V/3PH/60Hz. 6"x5"  
FLANGED CONNECTIONS. EPOXY  
COATED. NSF RATED.  
5095-7  
PACO

① UV/DISPLAY NOZZLE PLUMBING SCHEMATIC

Scale: None

NOZZLE, AERATOR TYPE, 1"  
MBSP, 32.5GPM @ 21.4' TDH  
= 8' DISPLAY HEIGHT.  
35-10E (50984)AY HEIGHT.  
OASE  
(TYP. 10)

SPHERE NOZZLE BYPASS PIPE,  
6" PERFORATED SCH. 40 PVC.

1" TYPICAL

2" TYPICAL

NOZZLE, SMOOTH BORE DECK  
TYPE, 1/2" DIA. ORIFICE,  
1" MBSP, 19.7 GPM @ 10.4'  
TDH = 8' DISPLAY HEIGHT.  
10-14S (50723)  
OASE  
(TYP. 35)

1.1/2" HOSE TYPICAL

STRAINER, IN-LINE, 8" x 6"  
REDUCING, SELF-PRIMING PUMP  
CONFIG, FRP BODY W/ CLEAR  
ACRYLIC LID.  
F0-8X6-SPR  
MERMADE

SURGE BASIN, 4,300 GALLON  
CONCRETE CONSTRUCTION.

FILTER, HIGH RATE SAND TYPE  
60 GPM, W/ BACKWASH VALVE  
2" NPT CONNECTIONS.  
TA60D-2  
PENTAIR  
(TYP. 3)

EROSION CHLORINATOR, 3/4"  
INLET x 1.1/2" OUTLET.  
RAINBOW 300  
PENTAIR

VALVE, SOLENOID, 3/4" NPT,  
GENERAL PURPOSE TYPE, 120  
VAC COIL, STAINLESS.  
ASCO

SENSOR CELL, PH & ORP, FOR  
CHEMICAL CONTROLLER.  
554  
ROLA-CHEM

FILTRATION SYSTEM PUMP, 5  
HP, RATED 180GPM @ 75' TDH  
1800 RPM, 9.35" TRIM, 70%  
EFF. 208V/3PH/60Hz. 2½"x2"  
FLANGED CONNECTIONS. EPOXY  
COATED. NSF RATED.  
2095-3  
PACO

STRAINER, IN-LINE, 4"x2½"  
REDUCING, SELF-PRIMING PUMP  
CONFIG, FRP BODY W/ CLEAR  
ACRYLIC LID.  
F0-4X2½-SPR  
MERMADE

② FILTRATION SYSTEM PLUMBING SCHEMATIC

Scale: None

2" BACKWASH LINE, TO POINT  
'A' ON DRAIN SCHEMATIC.

VALVE, SOLENOID, 2" NPT  
GENERAL PURPOSE TYPE,  
120 VAC COIL,  
ASCO

FLOW METER, 80 TO 300 GPM,  
3", ROTO-METER TYPE.  
F30300P  
BLUE-WHITE IND.

SURGE BASIN, 4,300 GALLON  
CONCRETE CONSTRUCTION.



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FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
PLUMBING SCHEMATICS 1		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE 7/15/2019	APPROVED BY: DATE	SHEET NO. F-7
DESIGNED BY LM	CITY ENGINEER STOCKTON, CALIFORNIA	OF SHEETS
DRAWN BY LM, VM		PW1735
CHECKED BY LM		PROJECT NO.
RECORD DWGS.		

NOTE:  
ALL PIPING SHALL BE BRASS.  
BRONZE, OR STAINLESS STEEL

VALVE, SOLENOID, 1/2" NPT,  
SLOW CLOSING TYPE, 120VAC  
COIL, BRASS CONST.  
8221G3-120VAC  
ASCO

1.1/2", CITY WATER SUPPLY

Y-STRAINER, 1.1/2"NPT, #40  
MESH, BRONZE CONST.  
4385K74  
McMASTER-CARR

1.1/2" BRASS BALL VALVE FOR  
CITY WATER QUICK FILL, USE  
FOR SERVICE AND TEST ONLY

③ CITY WATER INLET SYSTEM PLUMBING SCHEMATIC  
Scale: None

MODIFY EXISTING VENT PIPE  
TO CURRENT CODE.

TO POINT "A" ON THE FILTER  
PLUMBING SCHEMATIC.

EXISTING CONNECTION TO SS

② DRAIN SYSTEM PLUMBING SCHEMATIC  
Scale: None

WATER HEATER, ELECTRIC, FOR  
SHOWER, 2.5GPM, 6KW, 208V,  
1/2" CONNECTIONS.  
RETEX-06  
RHEEM

VALVE, SOLENOID, 1" NPT,  
SLOW CLOSING TYPE, 120VAC  
COIL, BRASS CONST.  
8221G10-120C  
ASCO

SURGE BASIN, 4,300 GALLON  
CONCRETE CONSTRUCTION.

SUMP PUMP, 1/2HP, 1.1/4"  
FNPT CONNECTION, 120VAC/  
1PH/60HZ, RATED 35 GPM @  
20' TDH.  
KP-350  
GRUNDFOS  
(TYP. 2)

SURGE BASIN, 4,300 GALLON  
CONCRETE CONSTRUCTION.

④ NOT USED  
Scale: None

⑤ NOT USED  
Scale: None

③ NOT USED  
Scale: None



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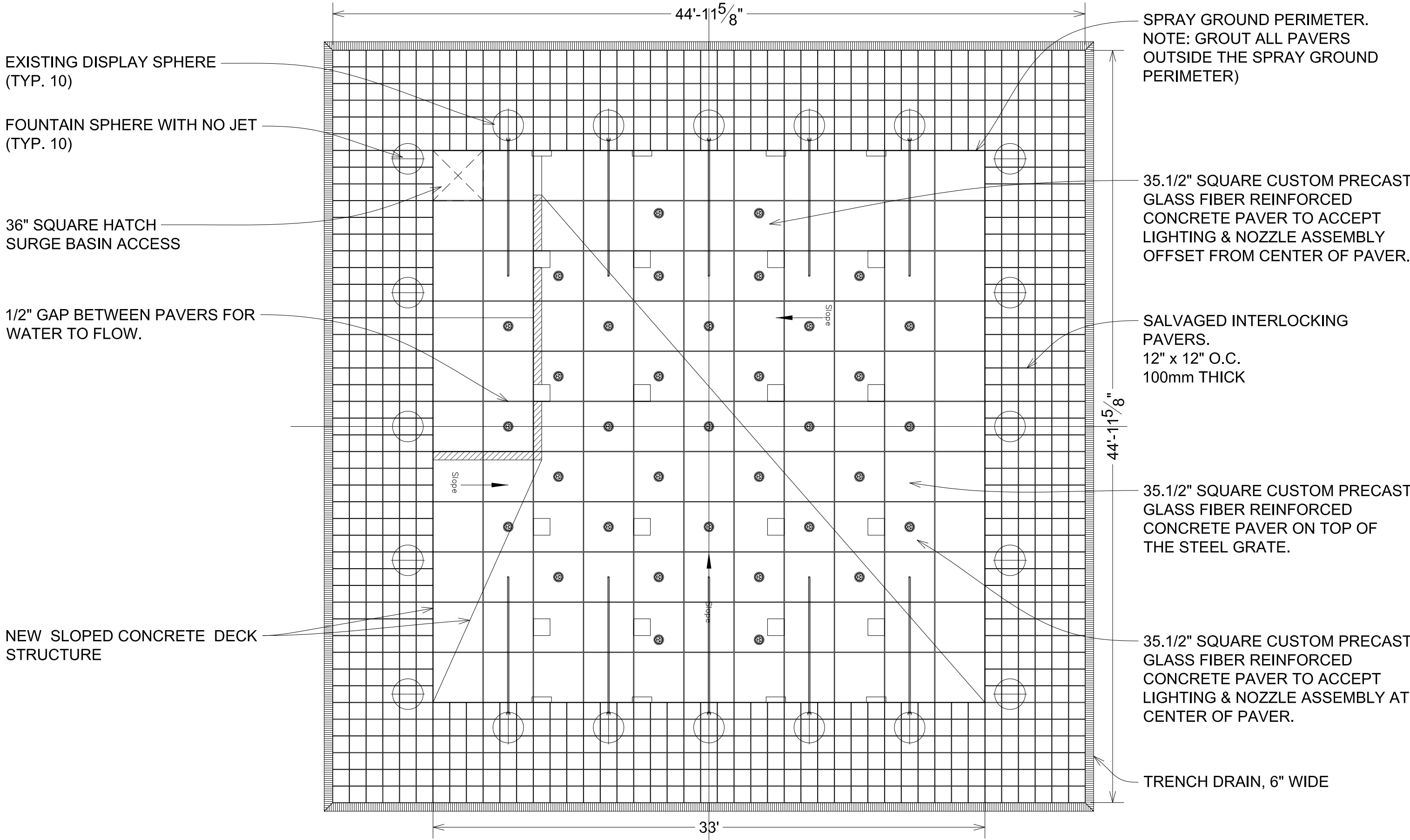


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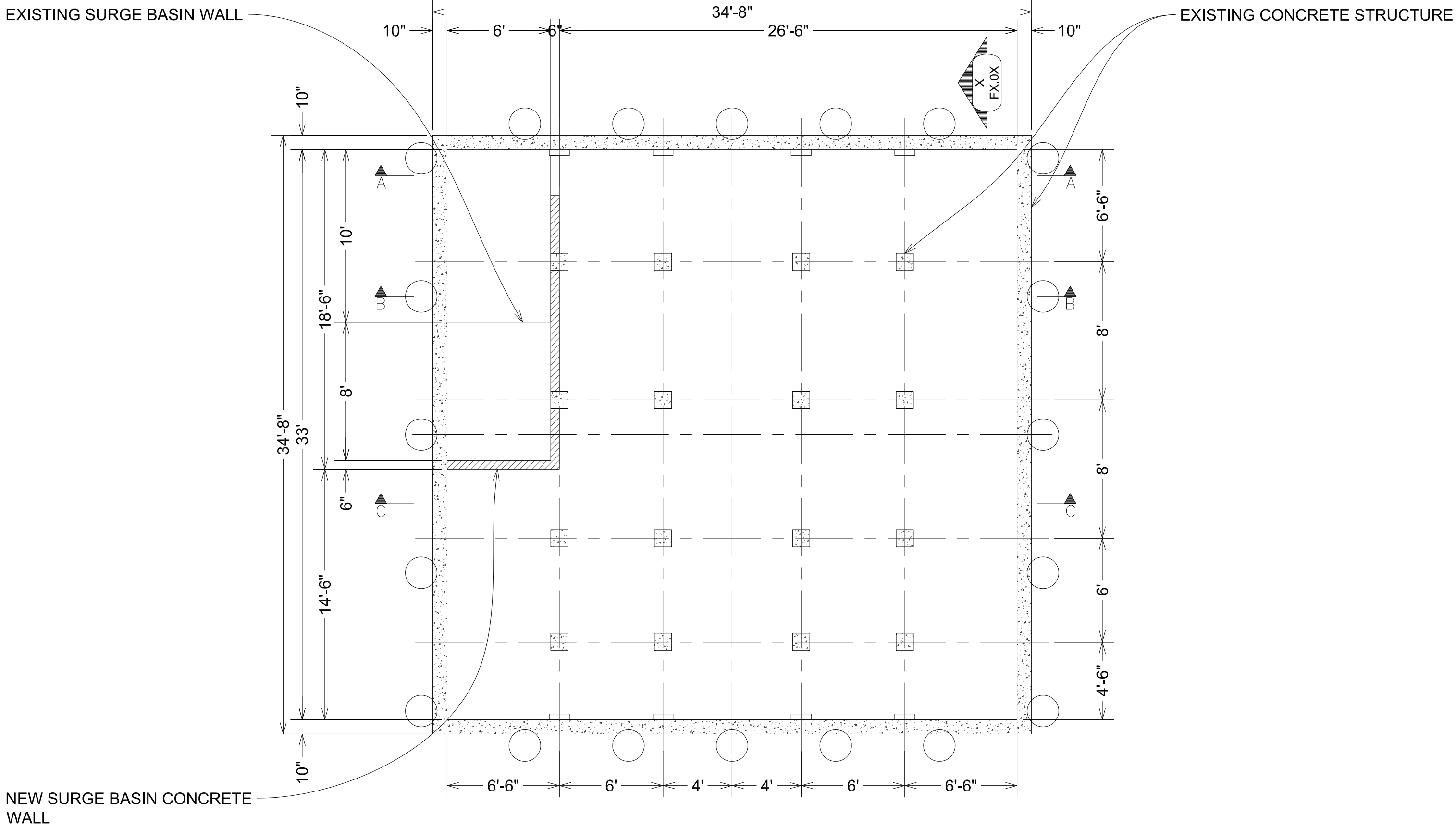
FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
PLUMBING SCHEMATICS 2		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE 7/15/2019	APPROVED BY: DATE	SHEET NO. F-8
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CHECKED BY LM		PROJECT NO.
RECORD DWGS.		





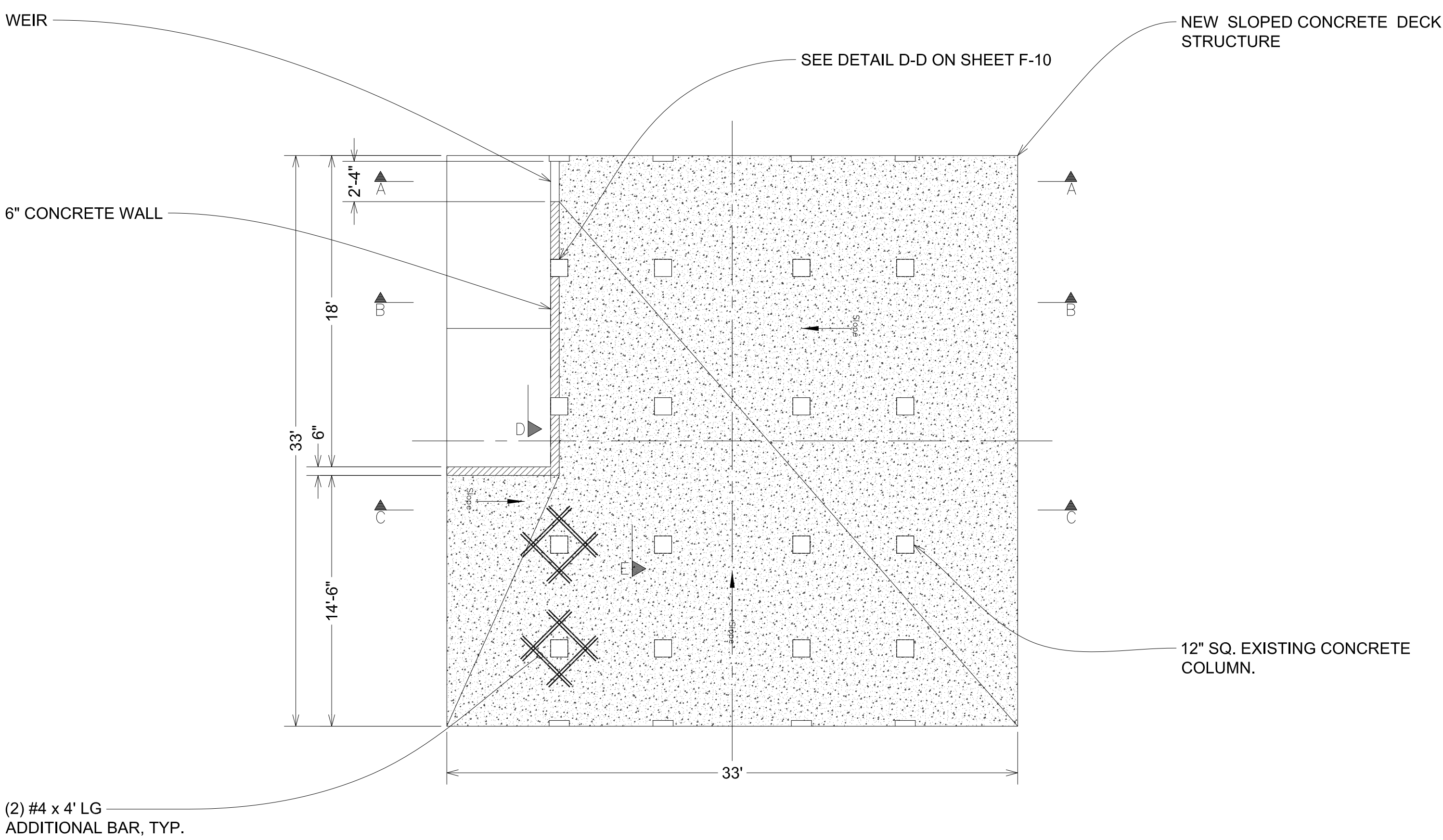
**1 SLOPED CONCRETE WITH PAVERS PLAN**

Scale: 3/16" = 1'-0"



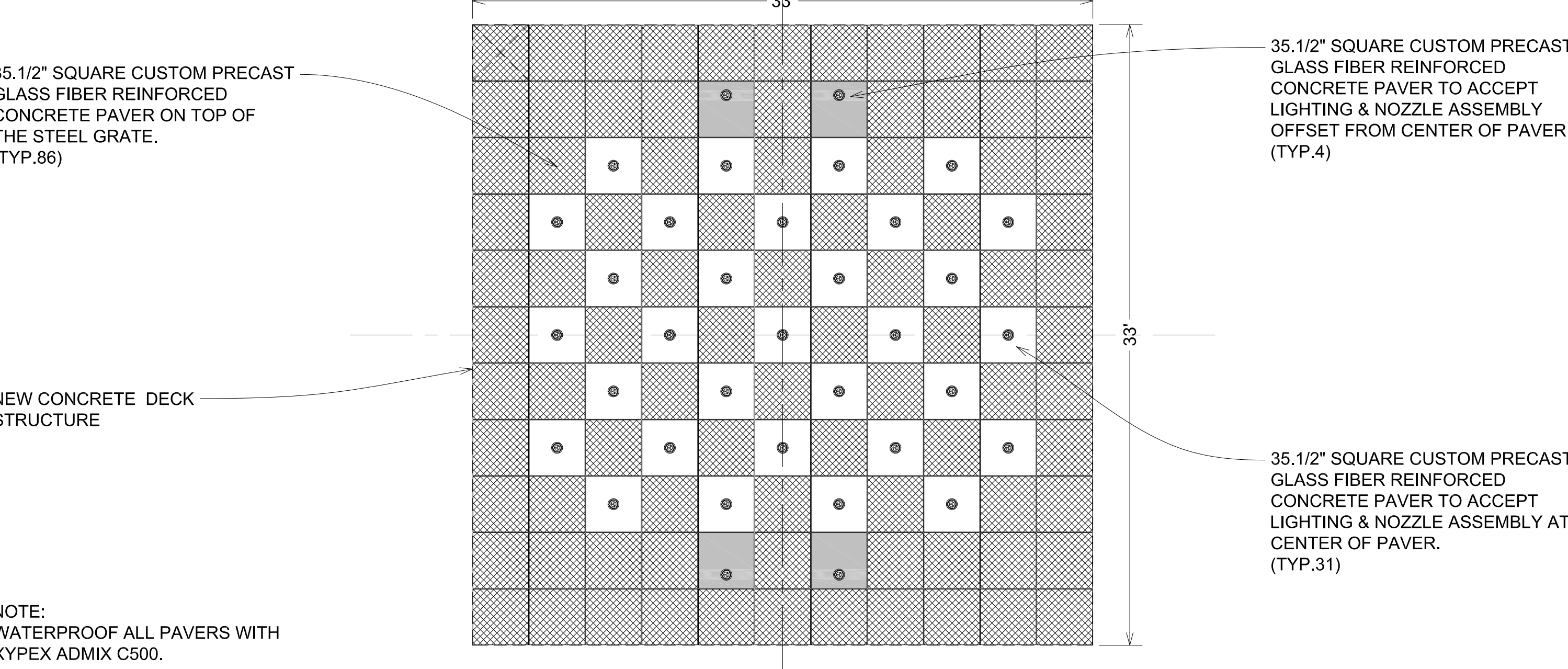
**2 EXISTING CONCRETE STRUCTURE PLAN**

Scale: 3/16" = 1'-0"



**3 NEW CONCRETE DECK STRUCTURE**

Scale: 3/16" = 1'-0"



**4 GLASS FIBER REINFORCED CONCRETE PAVER LAYOUT**

Scale: 3/16" = 1'-0"

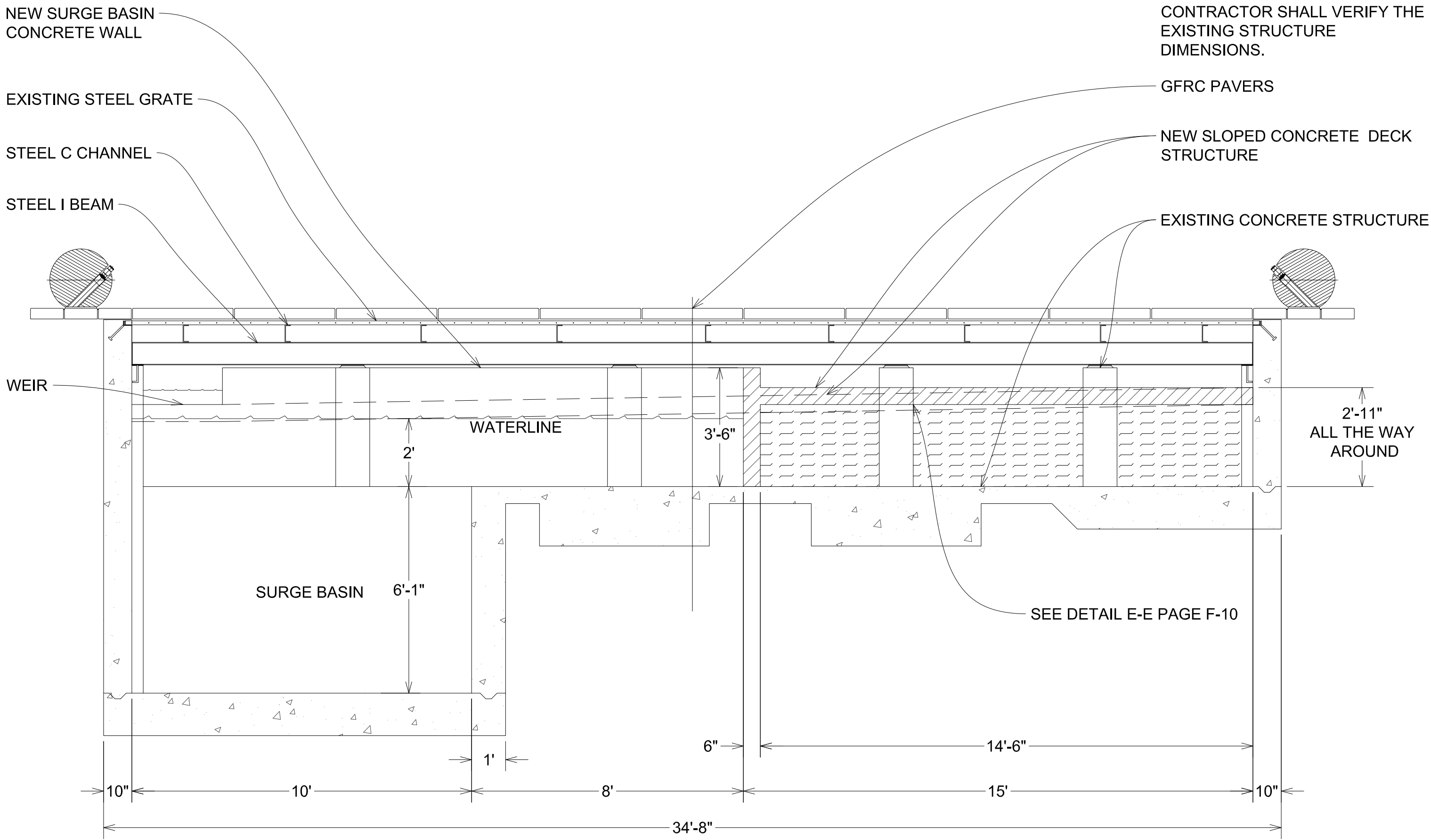


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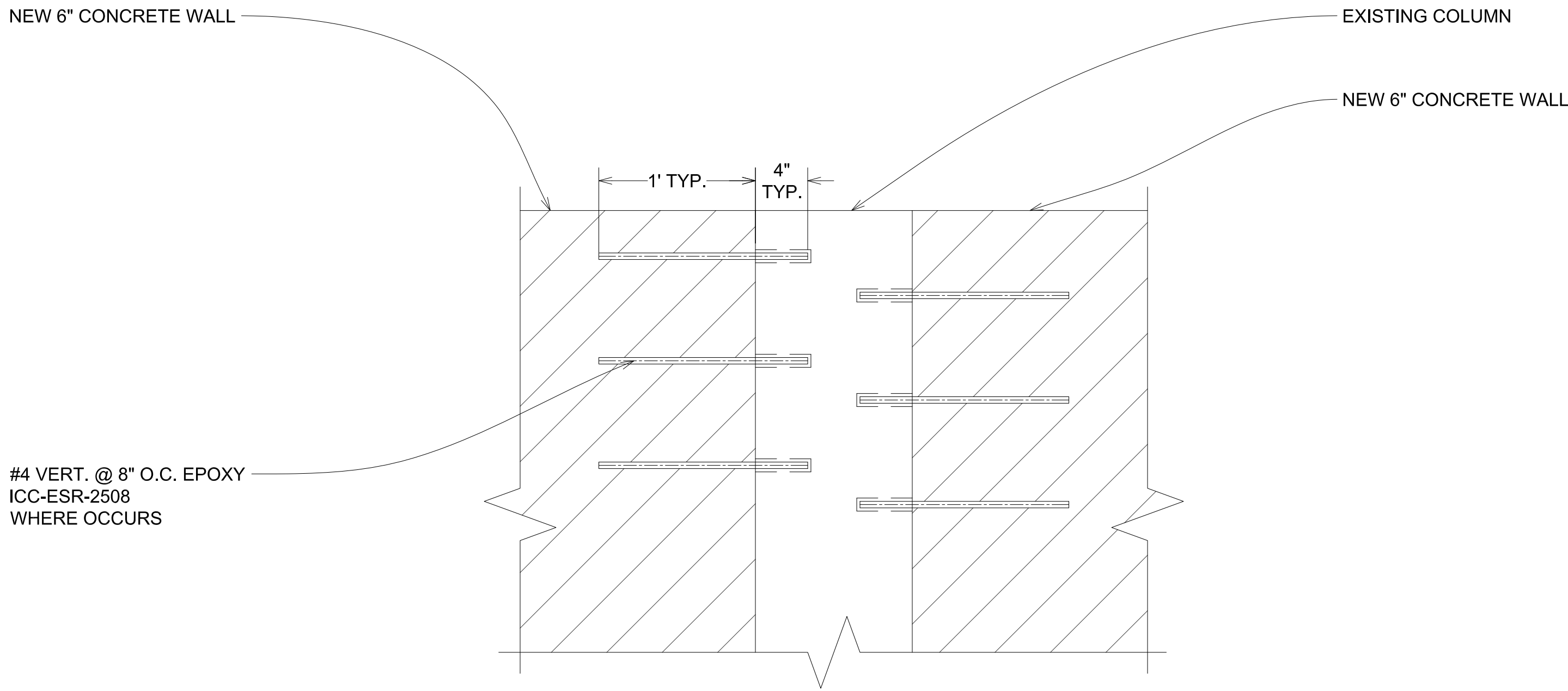
Revision No.	Description	Date	By	Appr'd. By

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CONCRETE & PAVER PLAN		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
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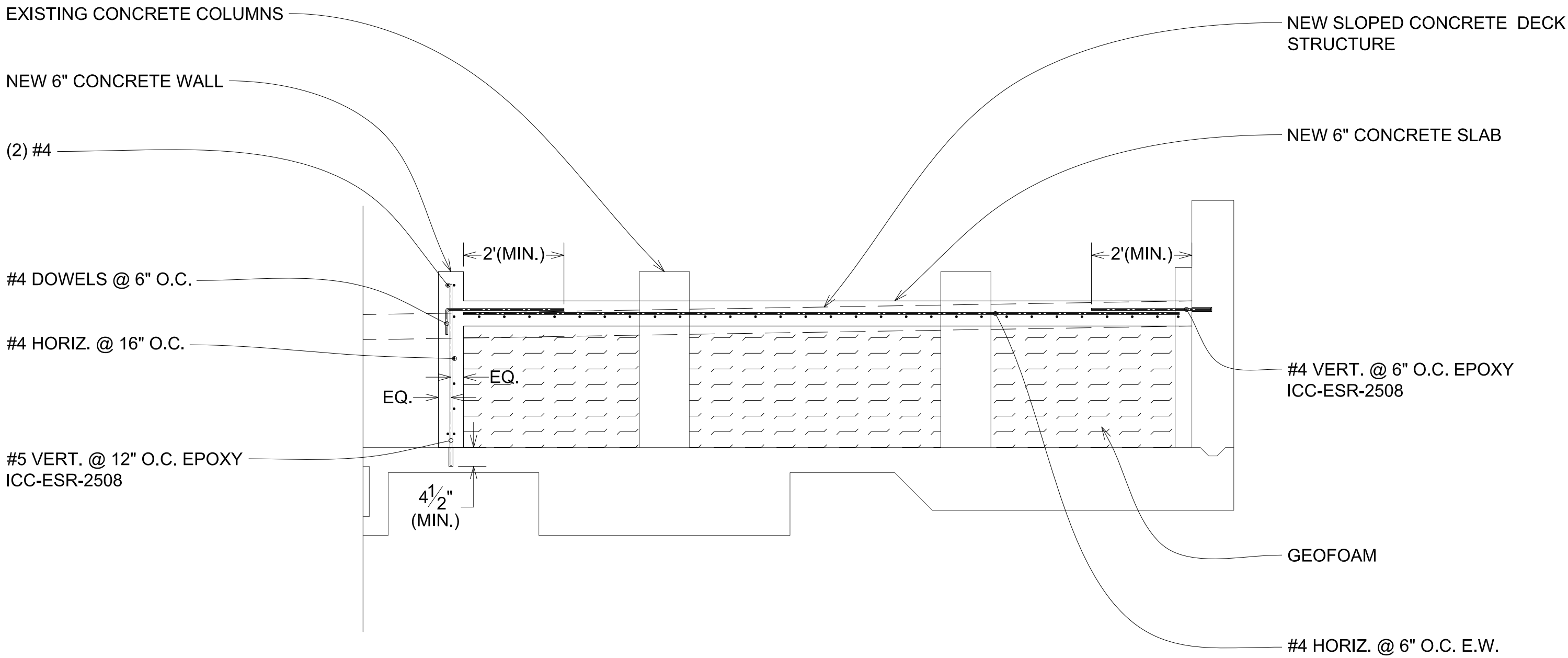




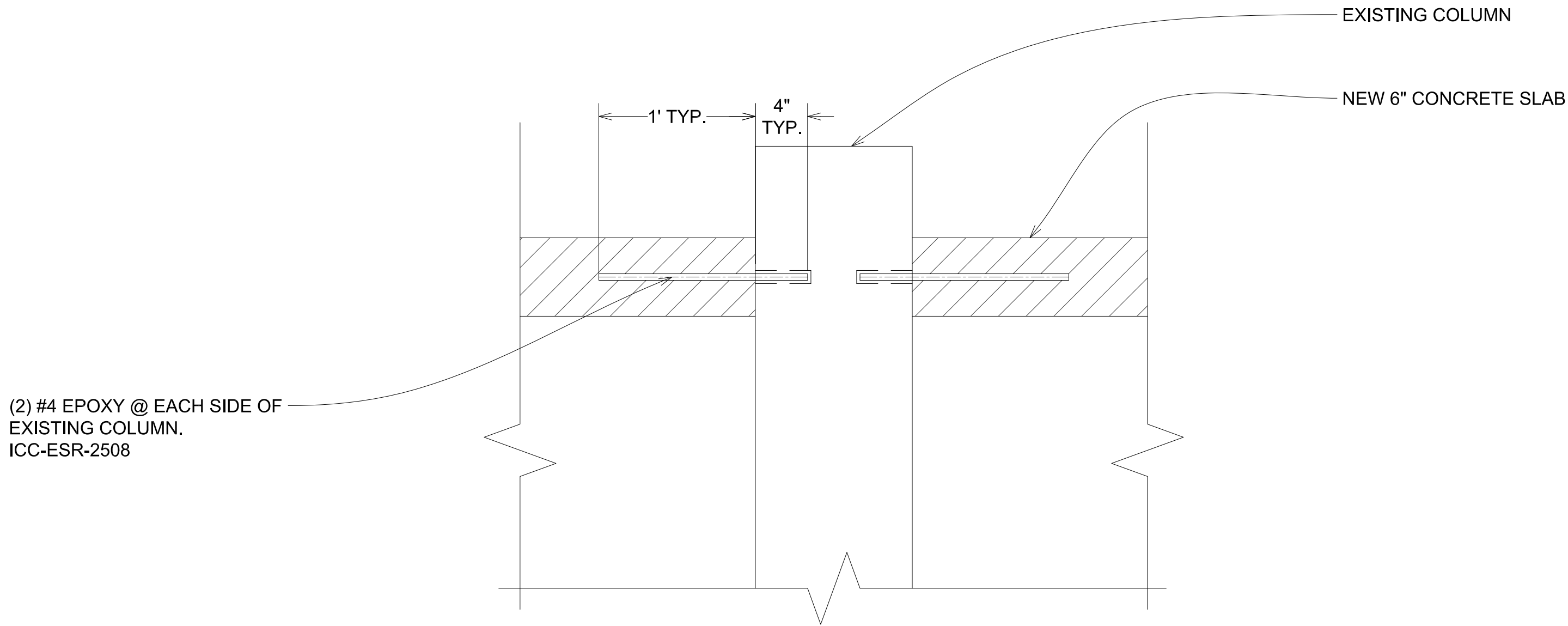
1 CONCRETE SECTION



3 DETAIL D-D



2 CONCRETE DECK STRUCTURAL DETAIL



4 DETAIL E-E



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CONCRETE SECTION & DETAILS		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
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RECORD DWGS.	CITY ENGINEER STOCKTON, CALIFORNIA	PW1735 PROJECT NO.



GENERAL

- 1) THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE, AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUB-CONTRACTORS. STRUCTURAL ENGINEER OF RECORD SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
- 2) ALL MATERIALS AND WORKMANSHIP SHALL BE PERFORMED IN ACCORDANCE WITH 2013 CALIFORNIA BUILDING CODE.
- 3) ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
- 4) NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 5) WHERE NO DETAILS SHOWN OR NOTED ON THE DRAWINGS, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- 6) OPENINGS, POCKETS, SLEEVES, ETC., SHALL NOT BE PLACED IN SLABS, BEAMS, WALLS, COLUMNS AND FOOTINGS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
- 7) CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF.
- 8) THIS SET OF DRAWINGS REPRESENT THE FINISHED STRUCTURE, METHOD OF CONSTRUCTION NOT NECESSARY INDICATED, THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING, SHORING, SCAFFOLDING, ETC.

1STRUCTURAL NOTES

Scale: None

- 1) ALL CONCRETE SHALL BE NORMAL WEIGHT CONFORMING TO THE FOLLOWING:
- | LOCATION        | 28-DAY MIN. COMPRESSIVE STRENGTH |
|-----------------|----------------------------------|
| A. ALL CONCRETE | 4500 psi*                        |
| B. FOOTING      | 4500 psi*                        |
- \* WHERE SUBSTRATE EXPOSURE LEVEL IS SEVERE USE 4500 psi WITH W/C RATIO OF 0.45 (MAX)
- 2) ALL CONCRETE MIX DESIGN SHALL BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 3) PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE V CEMENT.
- 4) AGGREGATE SHALL CONFORM TO ASTM C-33.
- 5) WATER SHALL BE CLEAN, FREE FROM DELETERIOUS AMOUNTS OF ACIDS, ALKALIS OR ORGANIC MATERIALS, OILS, SALTS AS PER C.B.C. SECTION 1903.4.
- 6) CONCRETE MIXING OPERATIONS, ETC. SHALL CONFORM TO ASTM C-94. WATER-CEMENT RATIO IS LESS THAN 0.50
- 7) UNLESS SHOWN OR NOTED OTHERWISE, CONCRETE COVERAGE FOR REINFORCING BAR TO FACE OF BAR SHALL BE AS FOLLOWS:
- 8)
- |   |        |
|---|--------|
| A. CONCRETE IN CONTACT WITH EARTH, UNFORMED       | 3"     |
| B. CONCRETE IN CONTACT WITH EARTH, FORMED         | 2"     |
| C. WALLS  | 1.1/2" |
| D. BEAMS, GIRDERS & COLUMNS (TO TIES OR STIRRUPS) | 1.1/2" |

- 8) CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT EXCEED 1/3 OF THE THICKNESS OF THE SLAB AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING STEEL. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 6".
- 9) CONSTRUCTION JOINTS:
- THE SURFACES OF ALL CONSTRUCTION JOINTS SHALL BE CLEAN, FREE FROM LOOSE DEBRIS. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED.
- 10) CONCRETE SHALL BE CURED IN ACCORDANCE WITH SECT 1905.11 OF C.B.C.
- 11) REMOVAL OF CONCRETE FORMS AND SHORES SHALL BE IN ACCORDANCE WITH SECTION 1906.2 OF C.B.C..
- 12) CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL COMPLY WITH THE PROVISION OF SECTION 1906.3 OF C.B.C.
- 13) DESIGN AND CONSTRUCTION OF CONCRETE FORMWORK SHALL CONFORM TO ACI 347 "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
- 14) ALL SAW CUTS IN SLAB ON GRADE SHALL BE MADE NOT LATER THAN 24 HOURS AFTER PLACING CONCRETE.

- 1) ALL REINFORCING BARS SHALL BE ASTM A-615 GRADE 60 DEFORMED BILLET STEEL BARS, EXCEPT NOTED BELOW:
- A. WELDED SMOOTH WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- 2) GRADE 60 BARS SHALL BE MARKED SO ITS IDENTIFICATION CAN BE MADE WHEN THE FINAL IN PLACE INSPECTION IS MADE.
- 3) THE TIE WIRE USED SHALL BE BLACK ANNEALED WIRE, 16 GA. OR HEAVIER.
- 4) BAR SUPPORTS SHALL CONFORM TO THE BAR SUPPORT SPECIFICATIONS CONTAINED IN THE "MANUAL OF STANDARD PRACTICE" BY ACI.
- 5) A CERTIFIED COPY OF MILL TEST ON EACH HEAT OF REINFORCING STEEL DELIVERED SHOWING PHYSICAL AND CHEMICAL ANALYSIS SHALL BE PROVIDED UPON REQUEST AT THE TIME OF SHIPMENT.
- 6) ALL REQUIREMENT OF CONCRETE REINFORCEMENT NOT COVERED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE".
- 7) REINFORCING STEEL AT THE TIME OF THE CONCRETE IS PLACED SHALL BE FREE FROM MUD, OIL, OR OTHER NON METALLIC COATINGS THAT ADVERSELY AFFECT BONDING CAPACITY.
- 8) ALL HOOKS SHALL CONFORM TO THE BEND DIMENSION PER ACI "STANDARD HOOK" UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- 9) REINFORCING BARS SHALL NOT BE BENT OR STRAIGHTENED IN A MANNER THAT WILL INJURE THE MATERIAL.

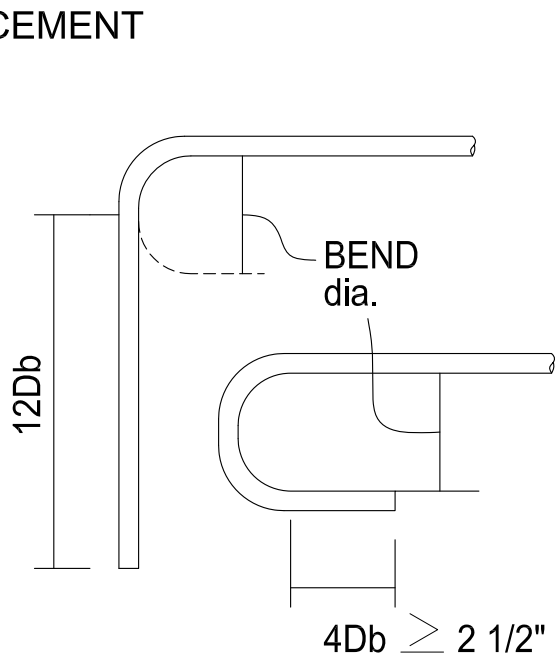
3REINFORCING STEEL

Scale: None

16. REQUIREMENTS FOR STANDARD HOOKS AND MINIMUM FINISHED INSIDE BEND DIAMETERS FOR REINFORCING BARS ARE ILLUSTRATED BELOW. THE STANDARD HOOK DETAILS FOR STIRRUPS AND TIES APPLY TO NO. 8 AND SMALLER BAR SIZES ONLY.

TABLE 3-1 STANDARD HOOKS FOR PRIMARY REINFORCEMENT

BAR SIZE NO.	MIN. FINISHED BEND DIA. (a)
3 THROUGH 8	6Db
9, 10, 11	8Db
14 AND 18	10Db



	<table><tr><td>BAR</td><td>A = 6db ≥ 3"</td></tr><tr><td>#3</td><td>= 3"</td></tr><tr><td>#4</td><td>= 3"</td></tr><tr><td>#5</td><td>= 4"</td></tr><tr><td>#6</td><td>= 5"</td></tr><tr><td>#7</td><td>= 6"</td></tr><tr><td>#8</td><td>= 6"</td></tr></table>	BAR	A = 6db ≥ 3"	#3	= 3"	#4	= 3"	#5	= 4"	#6	= 5"	#7	= 6"	#8	= 6"
BAR	A = 6db ≥ 3"														
#3	= 3"														
#4	= 3"														
#5	= 4"														
#6	= 5"														
#7	= 6"														
#8	= 6"														

SEISMIC HOOK DETAIL

NOTE: SEISMIC HOOKS SHALL BE USED FOR ALL HOOPS, STIRRUPS, AND CROSS-TIES IN SEISMIC RESISTING ELEMENTS

4STRUCTURAL DETAILS

Scale: None



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STRUCTURAL NOTES & DETAILS		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
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2CONCRETE NOTES

Scale: None

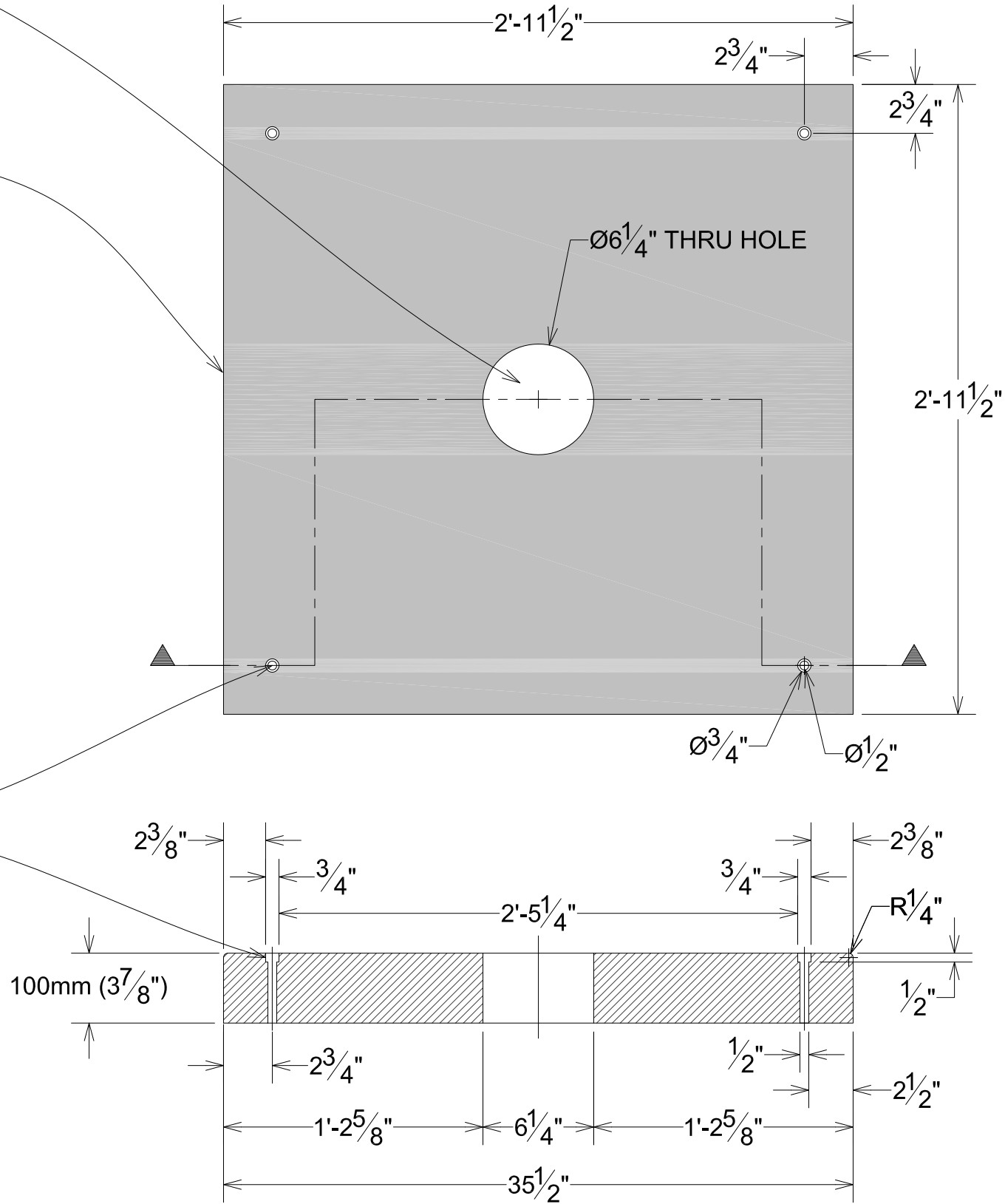


LIGHTING & NOZZLE AREA

35.1/2" SQUARE CUSTOM PRECAST GLASS FIBER REINFORCED CONCRETE PAVER TO ACCEPT LIGHTING & NOZZLE ASSEMBLY. (TYP.31)

NOTE: WATERPROOF ALL PAVERS WITH XYPEX ADMIX C500.

1/2" DIA THRU HOLE WITH 3/4" DIA X 1/2" DEEP COUNTERBORE (TYP.4)



NOTE: CONTRACTOR SHALL CHECK FINAL FIELD MEASUREMENTS BEFORE CUSTOM CONCRETE PAVERS FABRICATION.

### 1 CUSTOM PAVER FOR LIGHT/NOZZLE DETAIL

Scale: 1.1/2" = 1'-0"

0 1'

35.1/2" SQUARE CUSTOM PRECAST GLASS FIBER REINFORCED CONCRETE PAVER TO ACCEPT LIGHTING & NOZZLE ASSEMBLY.

2x2" PAVER MOUNT STAINLESS STEEL PLATE

LIGHTING & NOZZLE ASSEMBLY

Ø7" LED MOUNT STAINLESS STEEL PLATE

NEW CONCRETE DECK STRUCTURE

### 2 CUSTOM PAVER FOR LIGHTING/NOZZLE SECTION

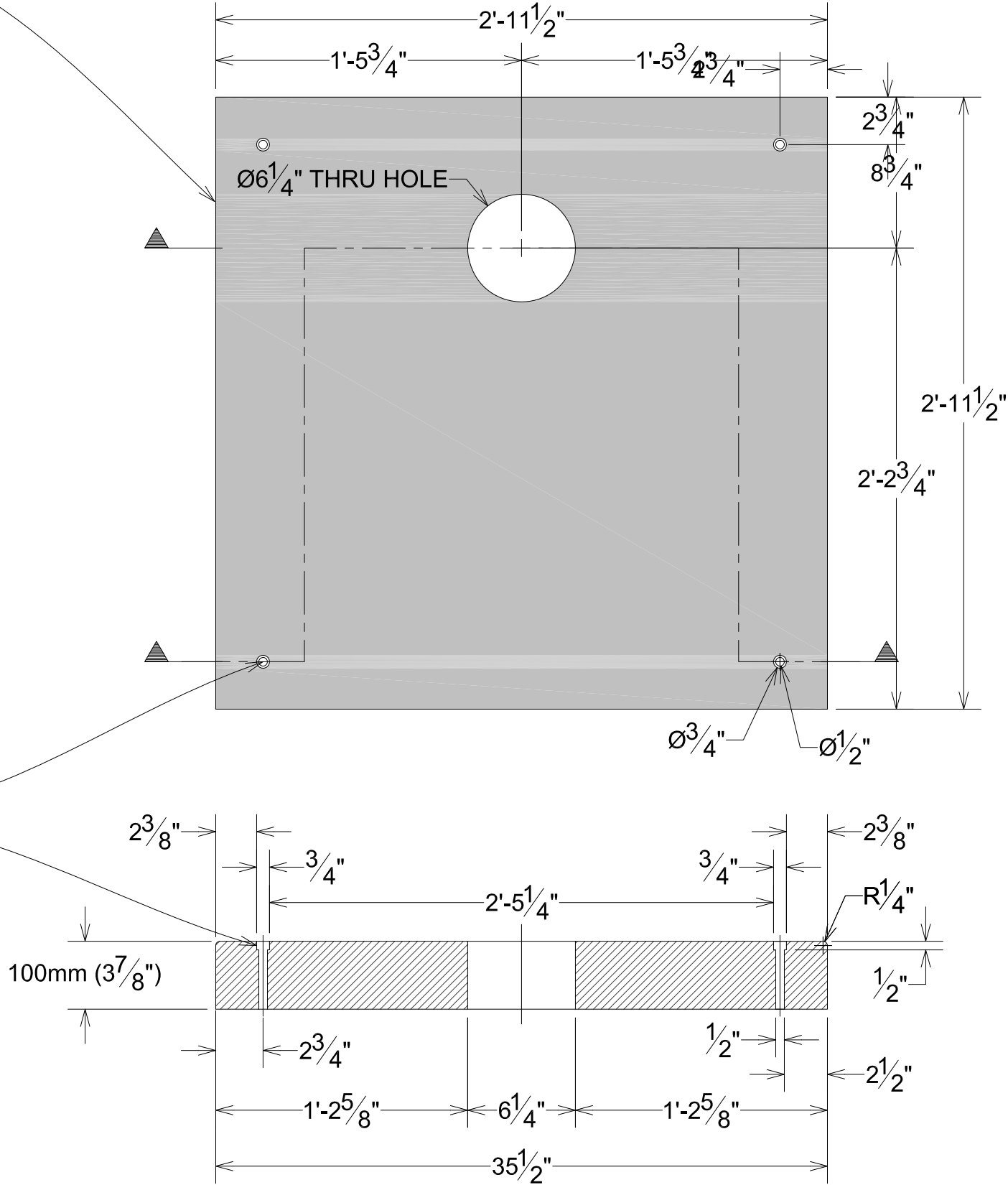
Scale: 3" = 1'-0"

0 6"

35.1/2" SQUARE CUSTOM PRECAST GLASS FIBER REINFORCED CONCRETE PAVER TO ACCEPT LIGHTING & NOZZLE ASSEMBLY OFFSET FROM CENTER OF PAVER. (TYP.4)

NOTE: WATERPROOF ALL PAVERS WITH XYPEX ADMIX C500.

1/2" DIA THRU HOLE WITH 3/4" DIA X 1/2" DEEP COUNTERBORE (TYP.4)



NOTE: CONTRACTOR SHALL CHECK FINAL FIELD MEASUREMENTS BEFORE CUSTOM CONCRETE PAVERS FABRICATION.

### 3 CUSTOM PAVER FOR LIGHT/NOZZLE DETAIL

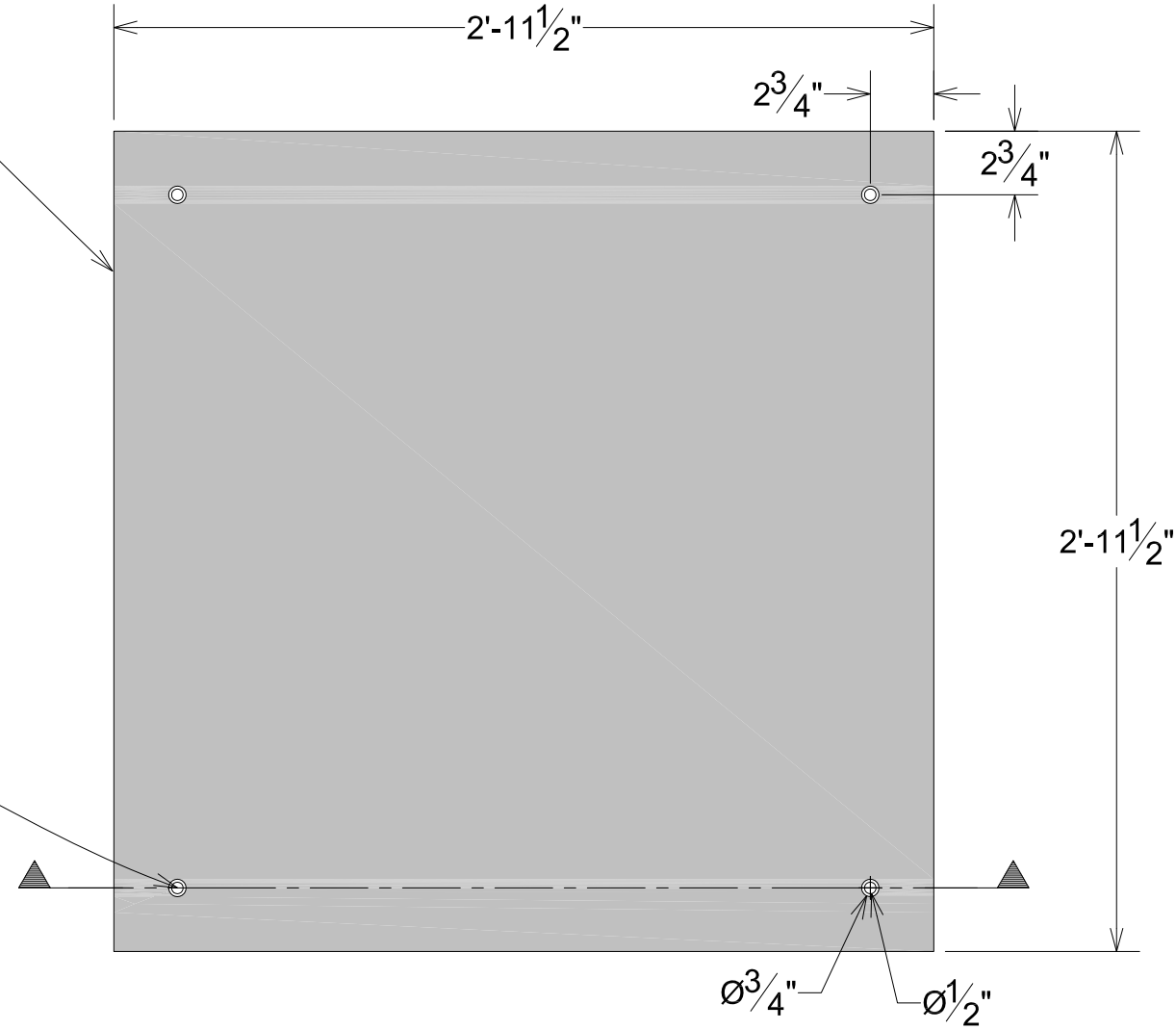
Scale: 1.1/2" = 1'-0"

0 1'

35.1/2" SQUARE CUSTOM PRECAST GLASS FIBER REINFORCED CONCRETE PAVER

NOTE: WATERPROOF ALL PAVERS WITH XYPEX ADMIX C500.

1/2" DIA THRU HOLE WITH 3/4" DIA X 1/2" DEEP COUNTERBORE (TYP.4)



NOTE: CONTRACTOR SHALL CHECK FINAL FIELD MEASUREMENTS BEFORE CUSTOM CONCRETE PAVERS FABRICATION.

### 4 CUSTOM PAVER DETAIL

Scale: 1.1/2" = 1'-0"

0 1'



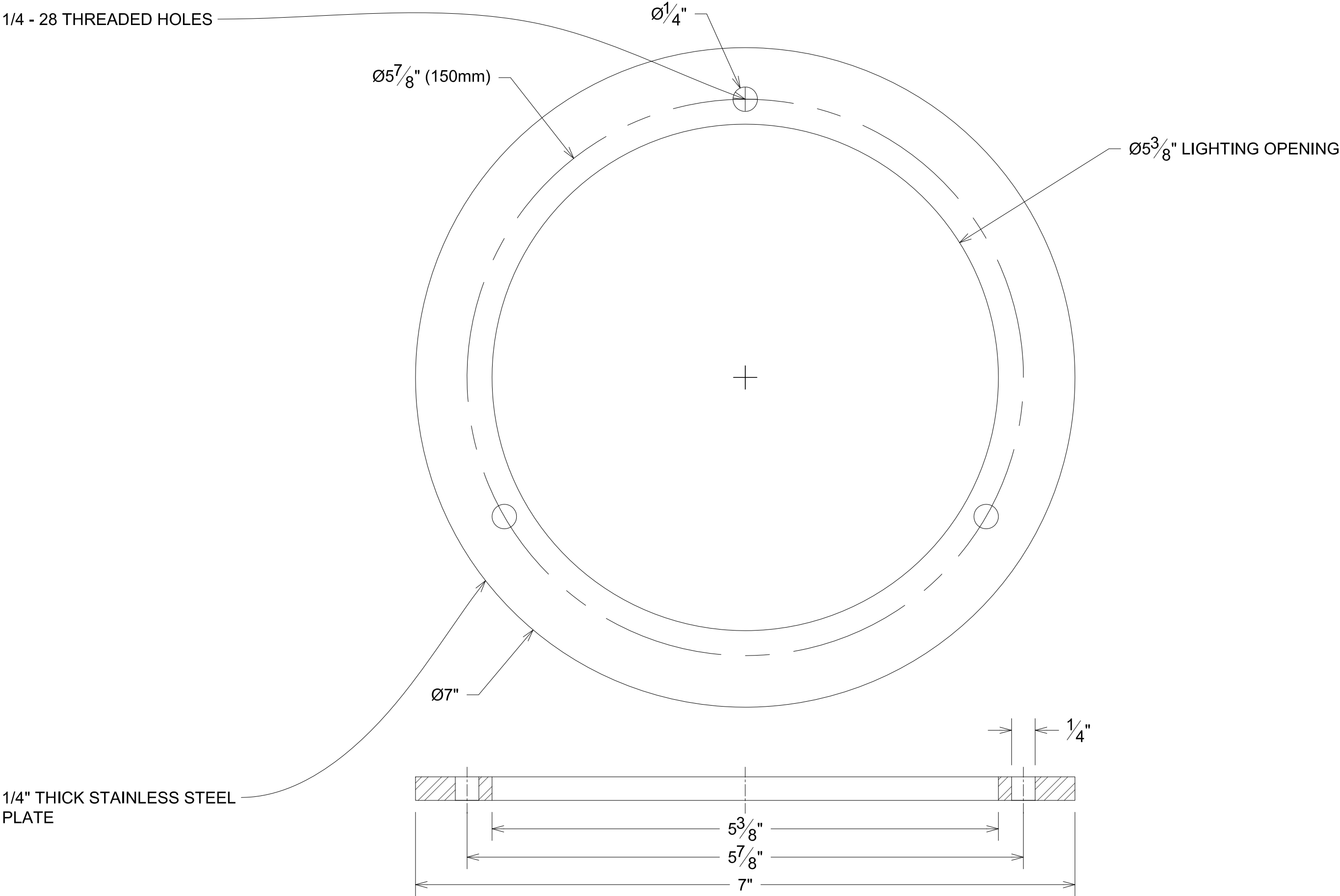
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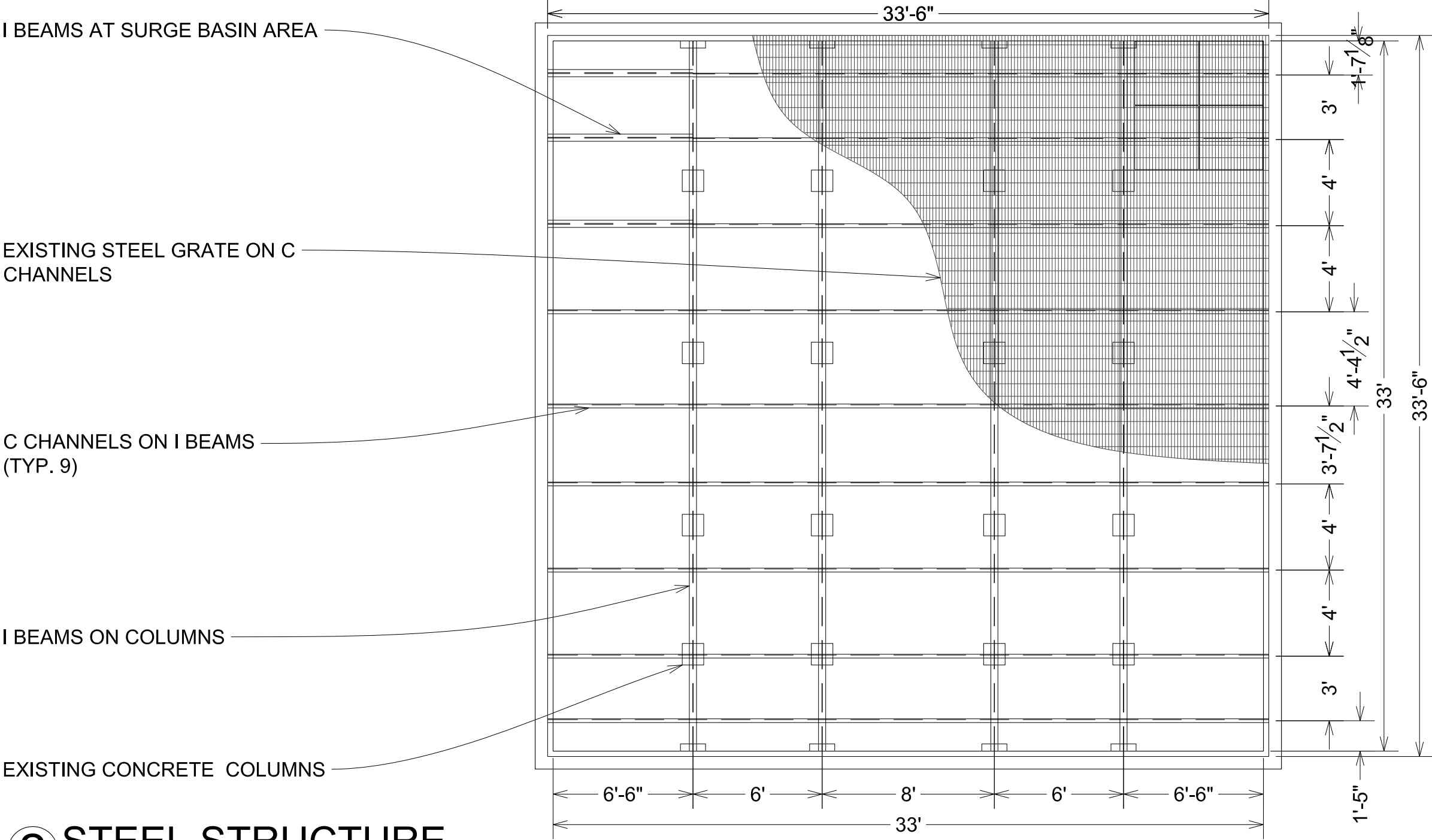
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FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
CUSTOM PAVER DETAILS		
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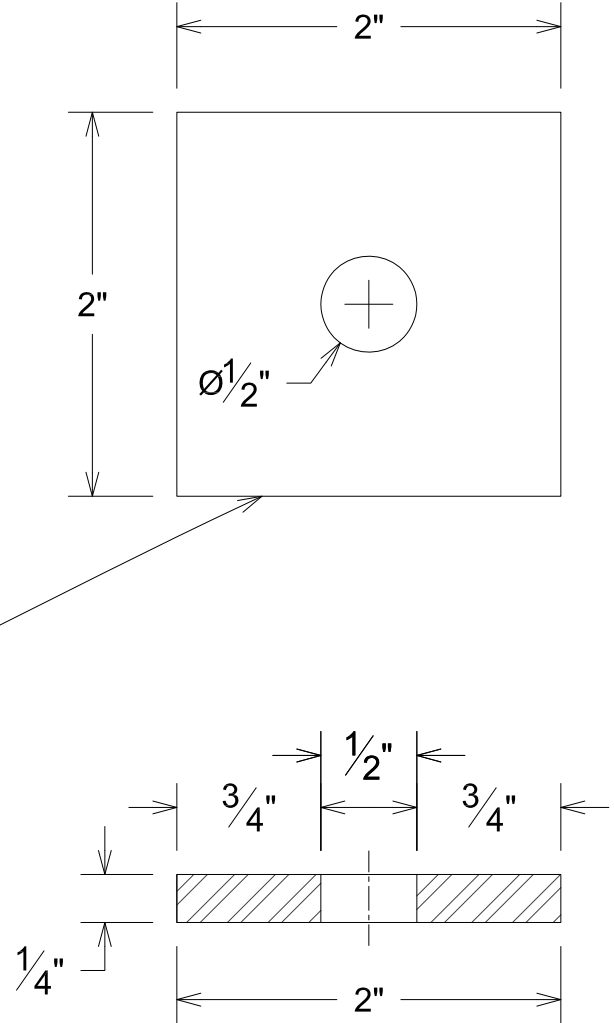




1 LED MOUNT PLATE




2 STEEL STRUCTURE



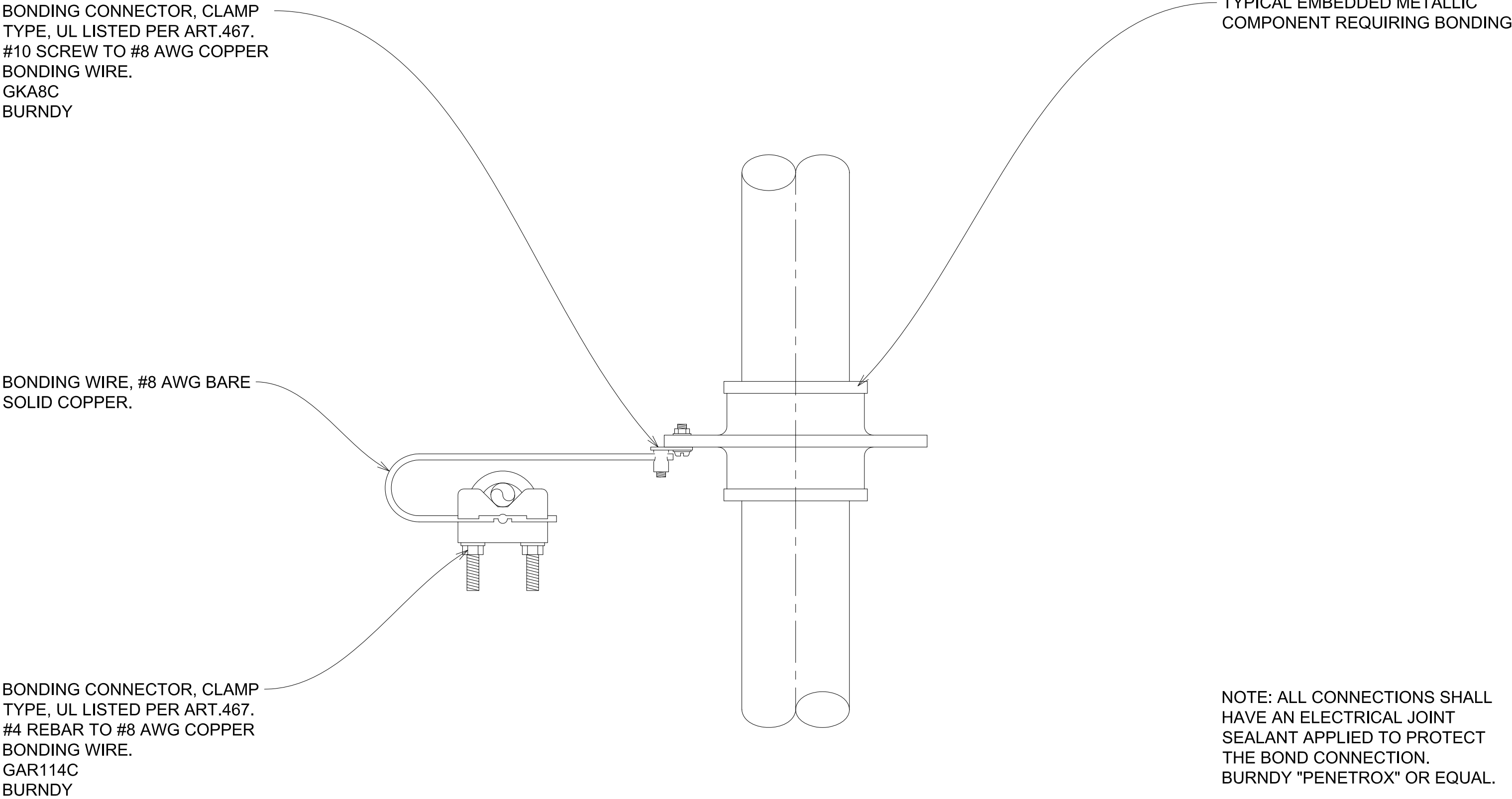
3 PAVER MOUNT PLATE



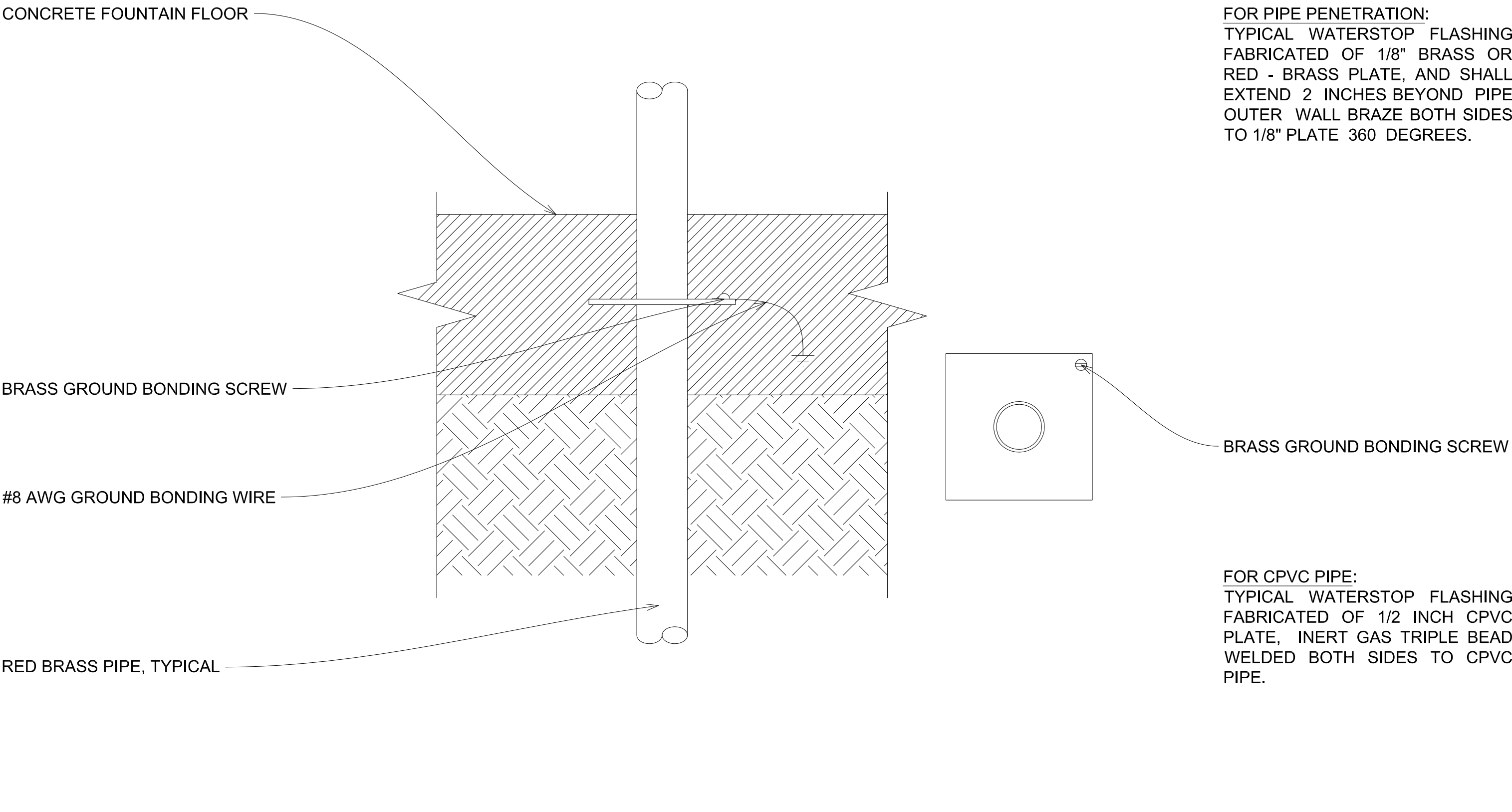
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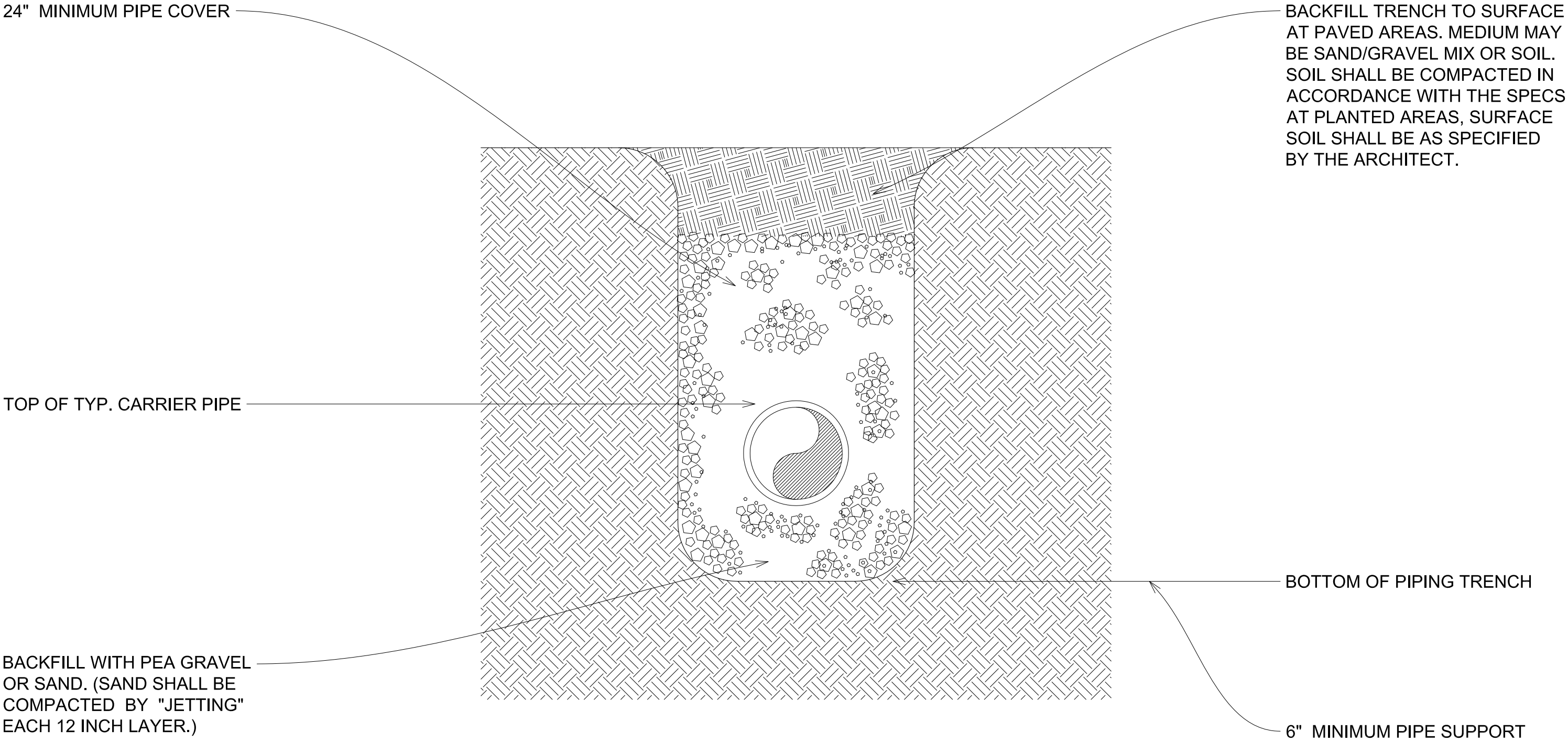
FFY 2018-20		
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CITY PROJECT NO. PW 1735		
MECHANICAL DETAILS		
DEPARTMENT OF PUBLIC WORKS		
CITY OF STOCKTON, CALIFORNIA		



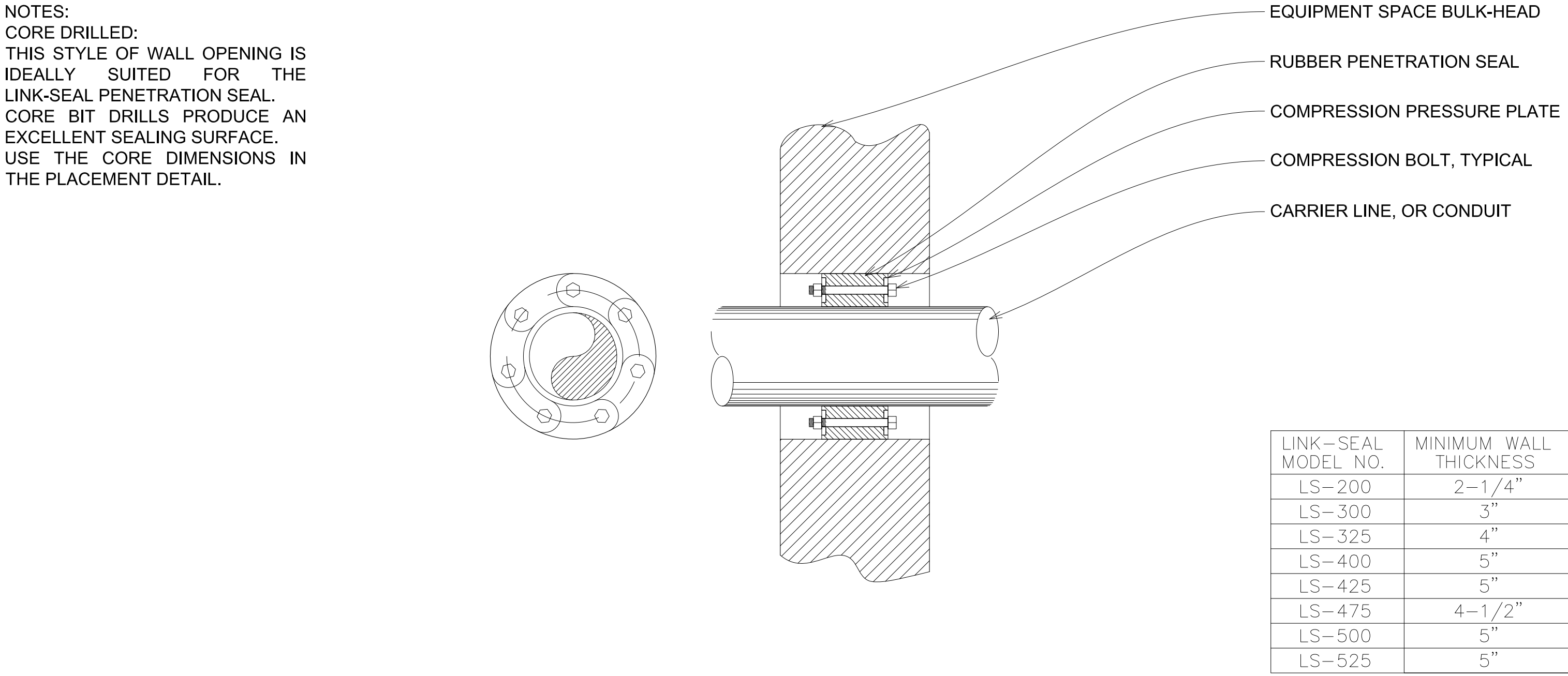
1 BONDING DETAIL



3 WATERSTOP FLANGE FABRICATION DETAIL



2 PIPING TRENCH



4 LINK-SEAL DETAIL

LINK-SEAL MODEL NO.	MINIMUM WALL THICKNESS
LS-200	2-1/4"
LS-300	3"
LS-325	4"
LS-400	5"
LS-425	5"
LS-475	4-1/2"
LS-500	5"
LS-525	5"



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DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
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SALVAGED EXISTING JUNCTION BOXES, TYPICAL.

36" SQUARE HATCH SURGE BASIN ACCESS

DMX CABLE FOR NOZZLE PUMPS. ABB NPC080-EX (TYP. 2)

WATER LEVEL SENSOR, 0-12 FEET, 4-20ma, SUBMERSIBLE. SBLT2-5-40 MERCOID/DWYER (SEE NOTE BELOW)

VALVE ACTUATOR, 120 VOLT, SUBMERSIBLE IP68 RATED, 67 IN/LBS, WITH 6" BUTTERFLY VALVE. ROM-2 ROTORK

CABLE, 16AWG x 6 CONDUCTOR, SOOW. 7081K87 McMASTER-CARR

3/4" EXISTING CONDUITS (TYP. 8)

JUNCTION BOX FOR PUMP POWER, 3/4" CONDUIT W/ 7x #14 AWG, THWN. (TYP. 3)

JUNCTION BOX FOR DATA CABLES, 3/4" CONDUIT WITH:

4x ABB NPC080-EX CABLES, THREE EXTEND THRU TO SECOND J-BOX

1x TUBING, McMASTER 5548K71, TO SECOND J-BOX

1x #14 AWG, THWN, GROUND

JUNCTION BOX FOR BYPASS VALVE 3/4" CONDUIT WITH:

1x #16 AWG x 6 CONDUCTOR, SOOW CABLE, TO SECOND J-BOX

1x #14 AWG, THWN, GROUND

JUNCTION BOX FOR LIGHTING POWER, 3/4" CONDUIT W/ 3x #14 AWG, THWN

1 JUNCTION BOX PLAN

Scale: 3/16" = 1'-0"

3 NOT USED

Scale: None

UNDERWATER JUNCTION BOX TYPICAL

SUBMERSIBLE EQUIPMENT CORD

EQUIPMENT CORD SEAL, SEE INSTALLATION INSTRUCTIONS FOR PROPER TORQUE SPECS.

SEAL EXPOSED COPPER & OTHER METALLIC PARTS & FITTINGS WITH TWO COATS OF COAL TAR MASTIC AFTER INSTALLATION USE KOPPERS #50 BITUMASTIC

POTTING COMPOUND, UNDERWATER ELECTRICAL URETHANE RE- ENTERABLE TYPE. PC21-12

PACKING TO PREVENT POTTING COMPOUND FROM ENTERING THE CONDUIT.

STAINLESS STEEL CONDUIT IN THE SURGE BASIN

2 JUNCTION BOX POTTING DETAIL

Scale: None

4 NOT USED

Scale: None



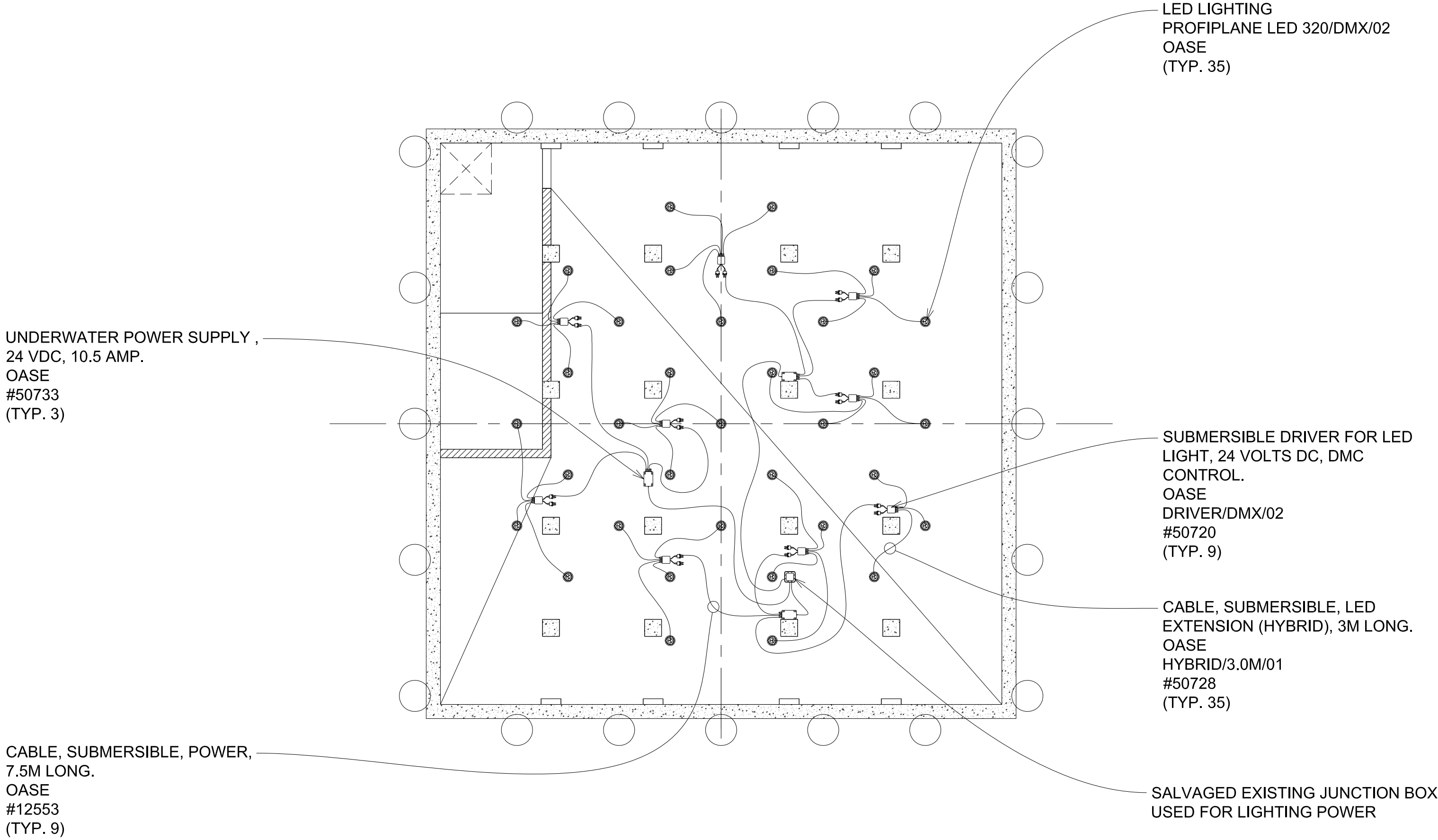
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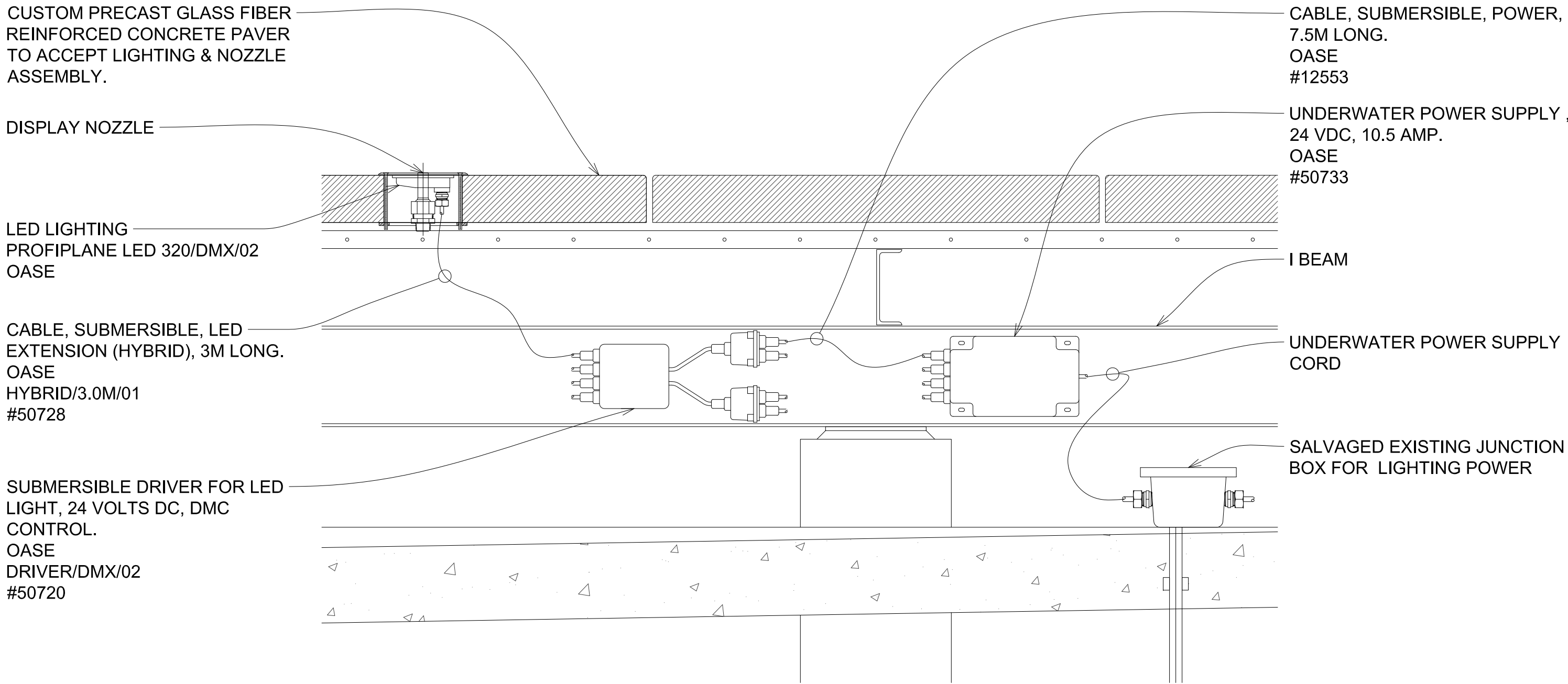
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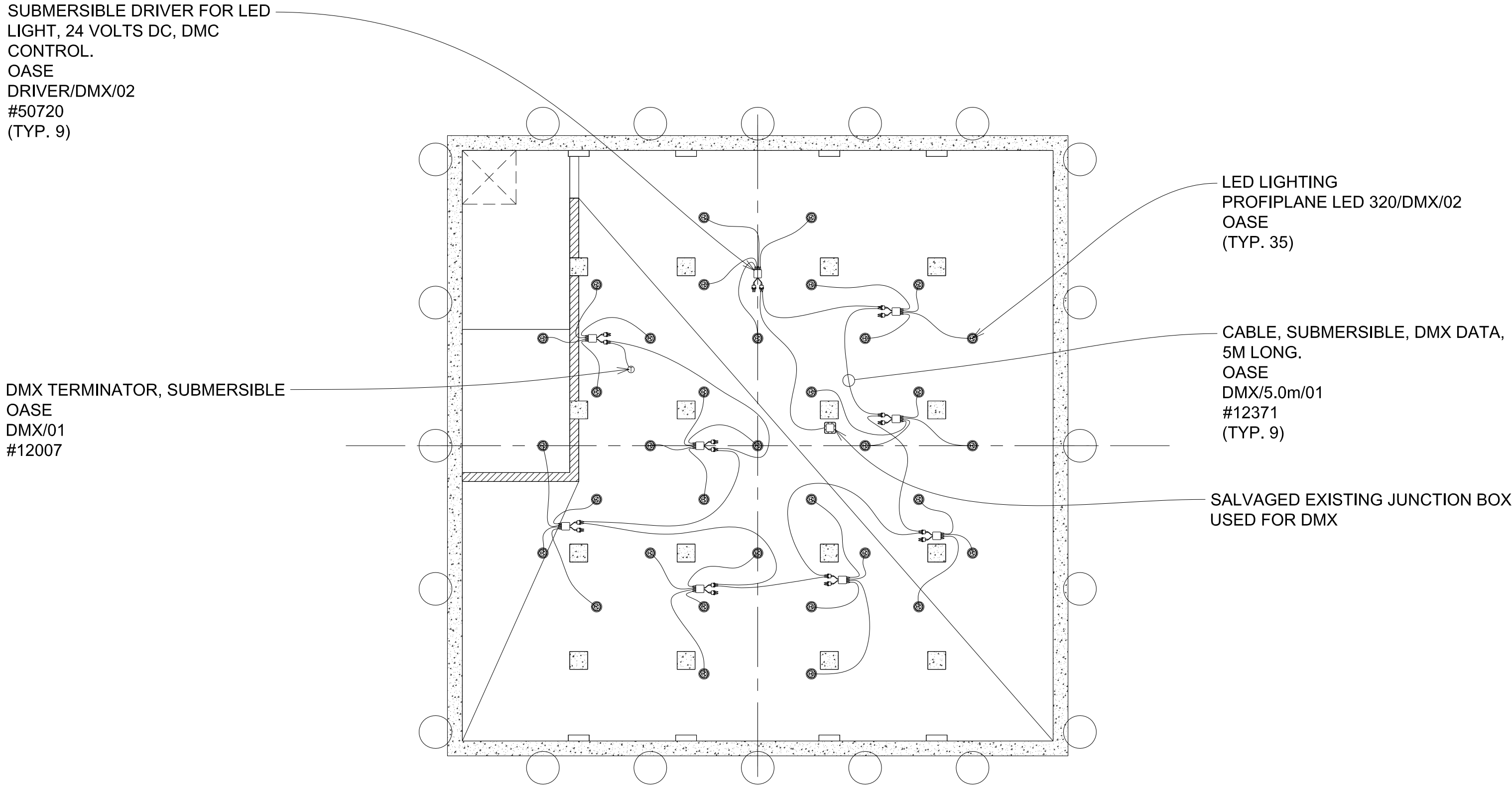
FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
ELECTRICAL PLAN & DETAILS		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE 7/15/2019	DESIGNED BY LM	APPROVED BY: DATE  CITY ENGINEER STOCKTON, CALIFORNIA
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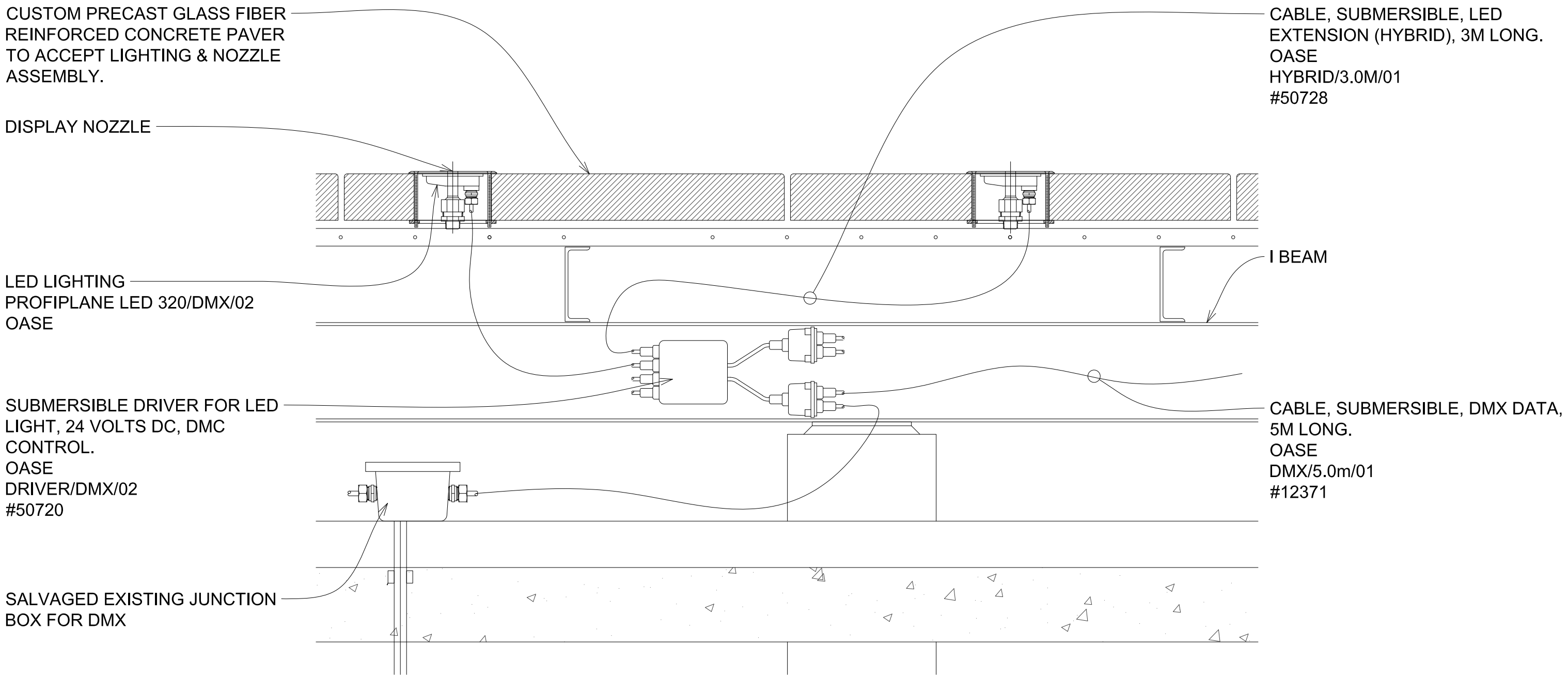
1 LIGHTING POWER CONNECTIONS PLAN  
Scale: 3/16" = 1'-0" 0 8'



2 LIGHTING POWER CONNECTION DETAIL  
Scale: 1.1/2" = 1'-0" 0 1'



3 LIGHTING DMX CONNECTIONS PLAN  
Scale: 3/16" = 1'-0" 0 8'



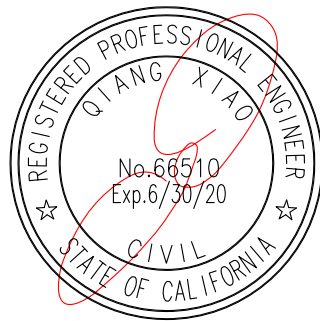
4 LIGHTING DMX CONNECTION DETAIL  
Scale: 1.1/2" = 1'-0" 0 1'

FFY 2018-20  
WEBER EVENTS CENTER FOUNTAIN RENOVATION  
CITY PROJECT NO. PW 1735

ELECTRICAL PLAN & DETAILS

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

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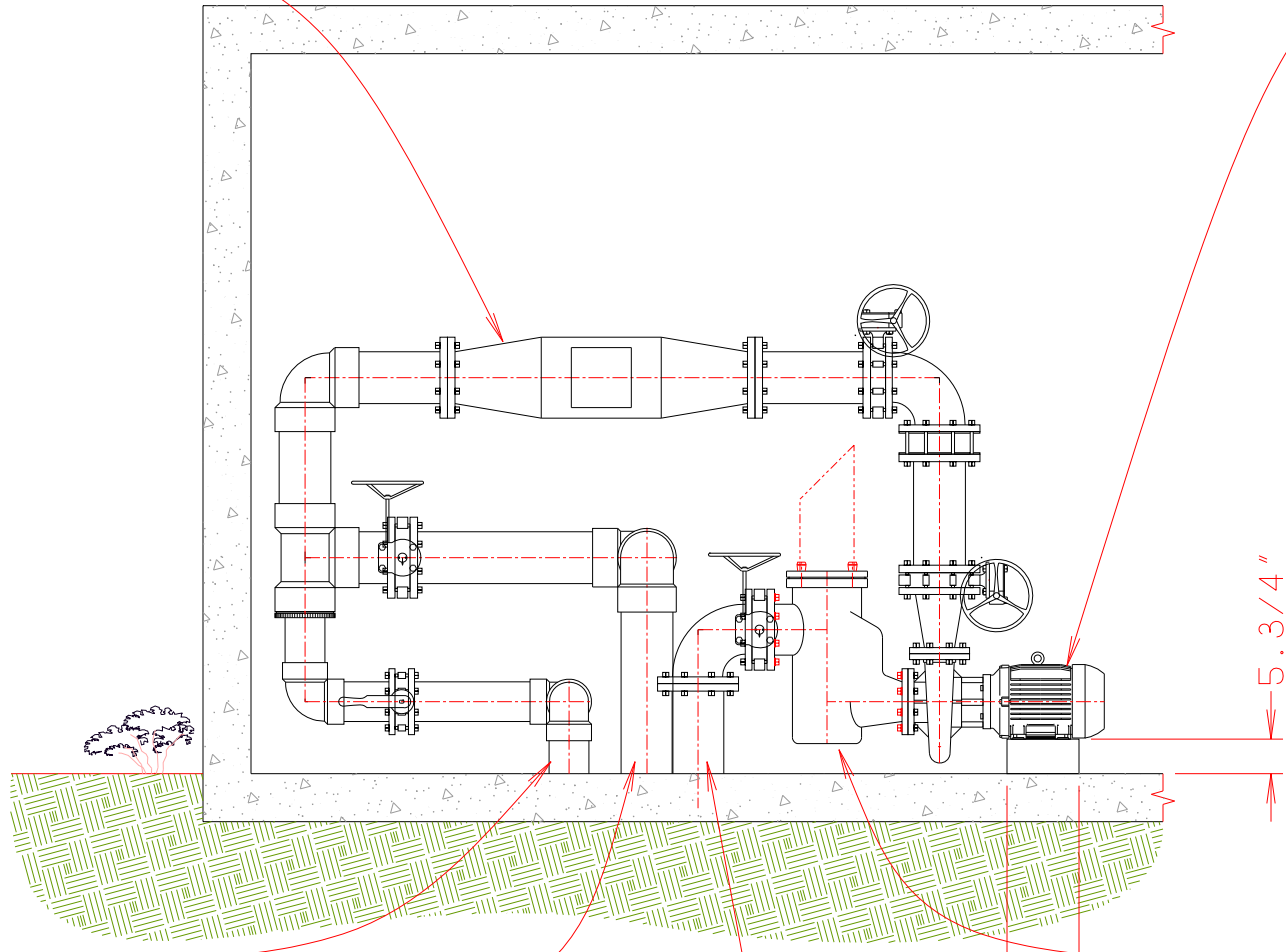


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Revision No.	Description	Date	By	Appr'd. By



ULTRAVIOLET DISINFECTION SYSTEM, COMPLIANT W/ CBC SECTION 3106B, 1,300 GPM EM1300EL, DELTA UV



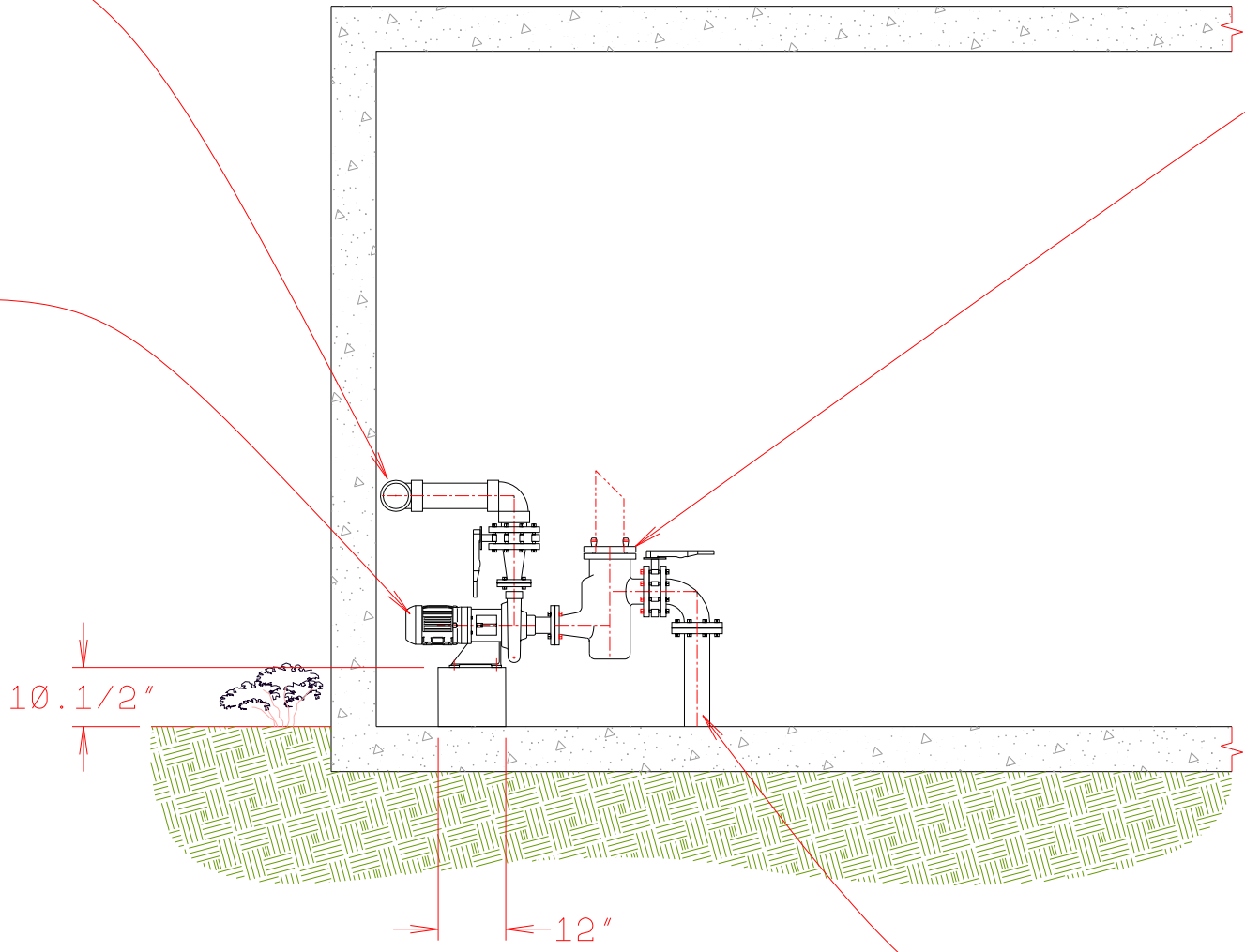
EXISTING 6" DISCHARGE PIPE

EXISTING 8" DISCHARGE PIPE

③ SECTION THRU EQUIPMENT ROOM AT DISPLAY  
Scale: 3/8" = 1'-0"

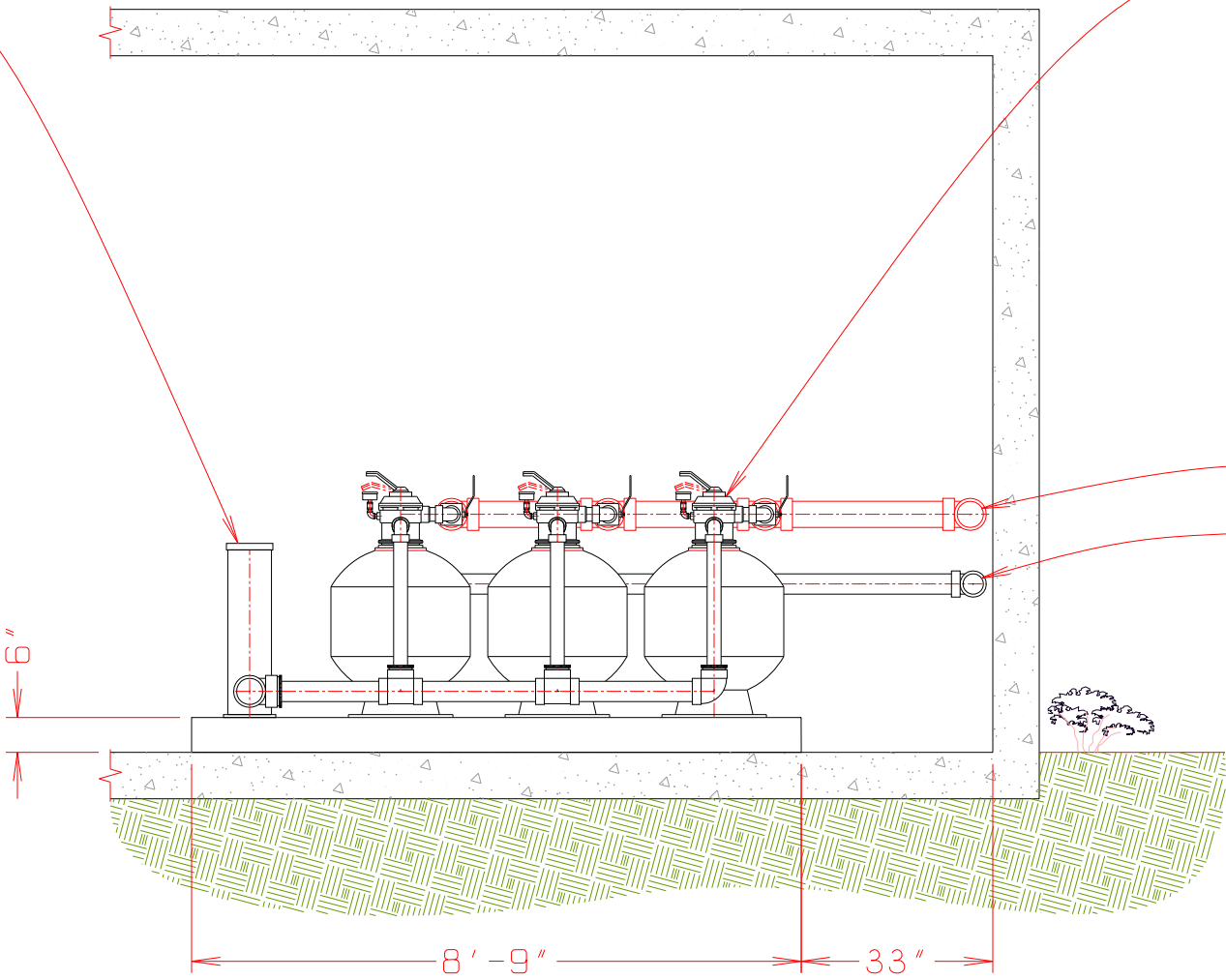
4" PIPE TO FILTERS

FILTRATION SYSTEM PUMP, 5 HP, RATED 180GPM @ 75' TDH 1800 RPM, 9.35" TRIM, 70% EFF. 208V/3PH/60Hz. 2 1/2"x2" FLANGED CONNECTIONS. EPOXY COATED. NSF RATED. 2095-3, PACO



④ SECTION THRU EQUIPMENT ROOM AT FILTER PUMP  
Scale: 3/8" = 1'-0"

EROSION CHLORINATOR, 3/4" INLET x 1.1/2" OUTLET. RAINBOW 300, PENTAIR



⑤ SECTION THRU EQUIPMENT ROOM AT FILTERS  
Scale: 3/8" = 1'-0"

WATER FEATURE PUMP, 7 1/2 HP, RATED 925 GPM @ 28' TDH, 1200 RPM, 9.40" TRIM, 87% EFF. 208V/3PH/60Hz. 6"x5" FLANGED CONNECTIONS. EPOXY COATED. NSF RATED. 5095-7 PACO

STRAINER, IN-LINE, 8" x 6" REDUCING, SELF-PRIMING PUMP CONFIG, FRP BODY W/ CLEAR ACRYLIC LID. FO-8X6-SPR, MERMADE

STRAINER, IN-LINE, 4"x2 1/2" REDUCING, SELF-PRIMING PUMP CONFIG, FRP BODY W/ CLEAR ACRYLIC LID. FO-4X2 1/2-SPR, MERMADE

EXISTING 4" SUCTION PIPE

FILTER, HIGH RATE SAND TYPE 60 GPM, W/ BACKWASH VALVE 2" NPT CONNECTIONS. TA60D-2, PENTAIR

4" PIPE FROM FILTER PUMP  
3" PIPE TO FLOOR DRAIN

WATER FEATURE PUMP, 7 1/2 HP, RATED 925 GPM @ 28' TDH, 1200 RPM, 9.40" TRIM, 87% EFF. 208V/3PH/60Hz. 6"x5" FLANGED CONNECTIONS. EPOXY COATED. NSF RATED. 5095-7 PACO

EXISTING 8" SUCTION PIPE

WATER HEATER, ELECTRIC, FOR SHOWER, 2.5GPM, 6KW, 208V, 1/2" CONNECTIONS. RETEX-06, RHEEM

STRAINER, IN-LINE, 8" x 6" REDUCING, SELF-PRIMING PUMP CONFIG, FRP BODY W/ CLEAR ACRYLIC LID. FO-8X6-SPR, MERMADE

EXISTING 4" SUCTION PIPE

STRAINER, IN-LINE, 4"x2 1/2" REDUCING, SELF-PRIMING PUMP CONFIG, FRP BODY W/ CLEAR ACRYLIC LID. FO-4X2 1/2-SPR, MERMADE

FILTRATION SYSTEM PUMP, 5 HP, RATED 180GPM @ 75' TDH 1800 RPM, 9.35" TRIM, 70% EFF. 208V/3PH/60Hz. 2 1/2"x2" FLANGED CONNECTIONS. EPOXY COATED. NSF RATED. 2095-3, PACO

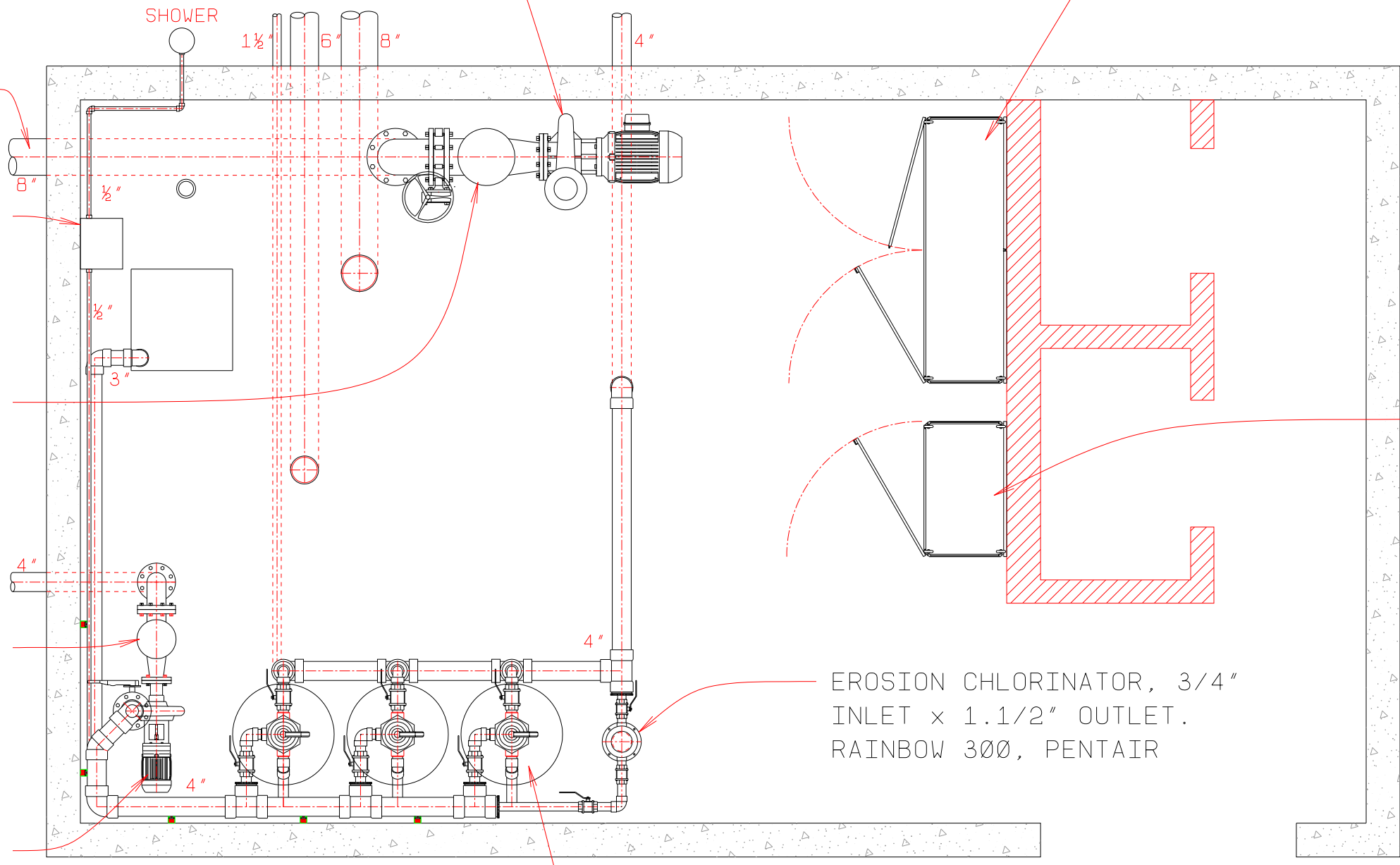
① EQUIPMENT ROOM PLAN  
Scale: 3/8" = 1'-0"

EXISTING 8" SUCTION PIPE

ULTRAVIOLET DISINFECTION SYSTEM, COMPLIANT W/ CBC SECTION 3106B, 1,300 GPM EM1300EL, DELTA UV

② EQUIPMENT ROOM PLAN, DISPLAY DISCHARGE  
Scale: 3/8" = 1'-0"

NOTE: DISPLAY PUMP DISCHARGE PIPING NOT SHOWN FOR CLARITY, SEE DETAIL 2.



FILTER, HIGH RATE SAND TYPE 60 GPM, W/ BACKWASH VALVE 2" NPT CONNECTIONS. TA60D-2, PENTAIR

PANEL "FCA"

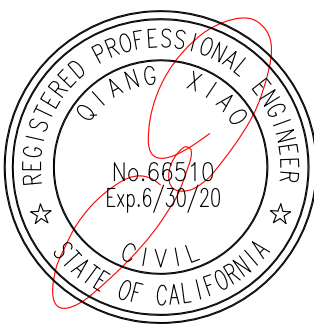
UV PANEL

ULTRAVIOLET DISINFECTION SYSTEM, COMPLIANT W/ CBC SECTION 3106B, 1,300 GPM EM1300EL, DELTA UV (NOT SHOWN, SEE DETAIL 2)

EXISTING 6" DISCHARGE

EXISTING 8" DISCHARGE

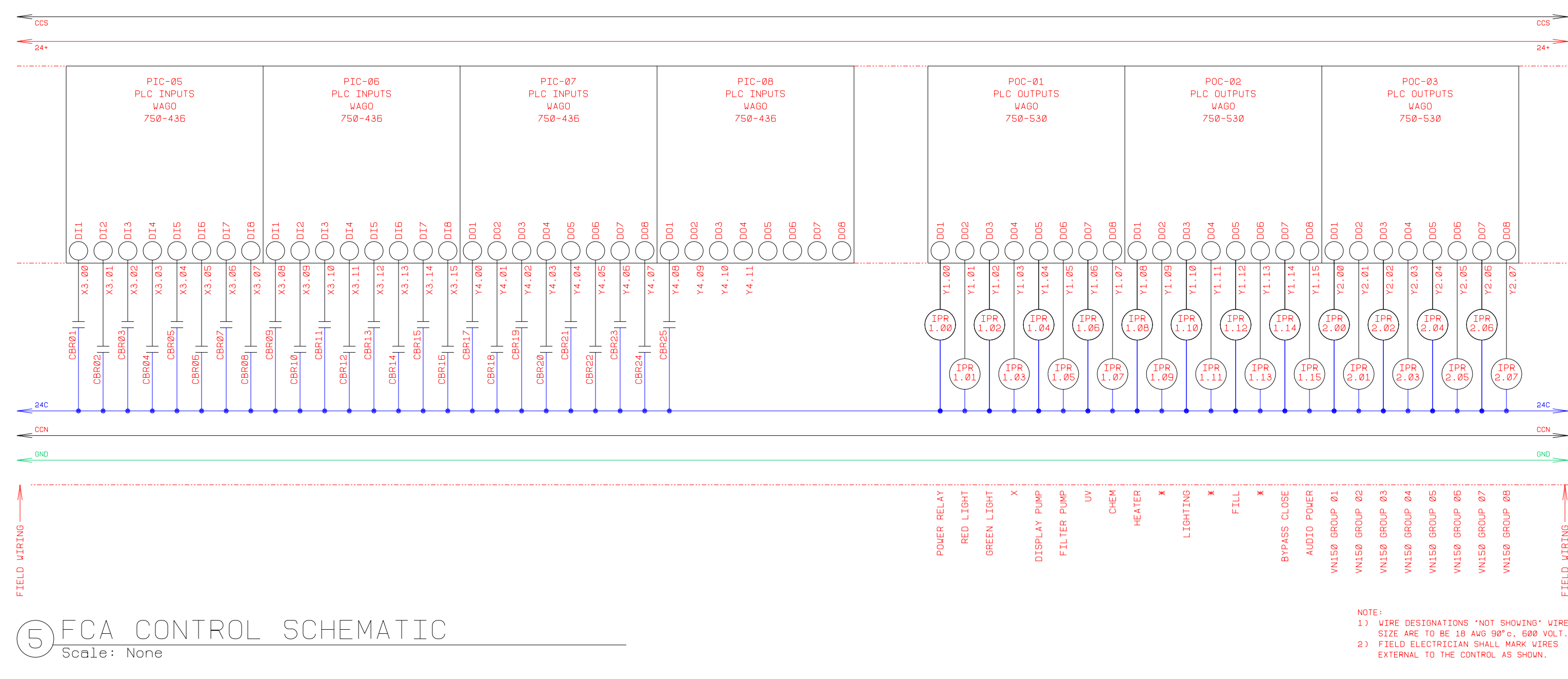
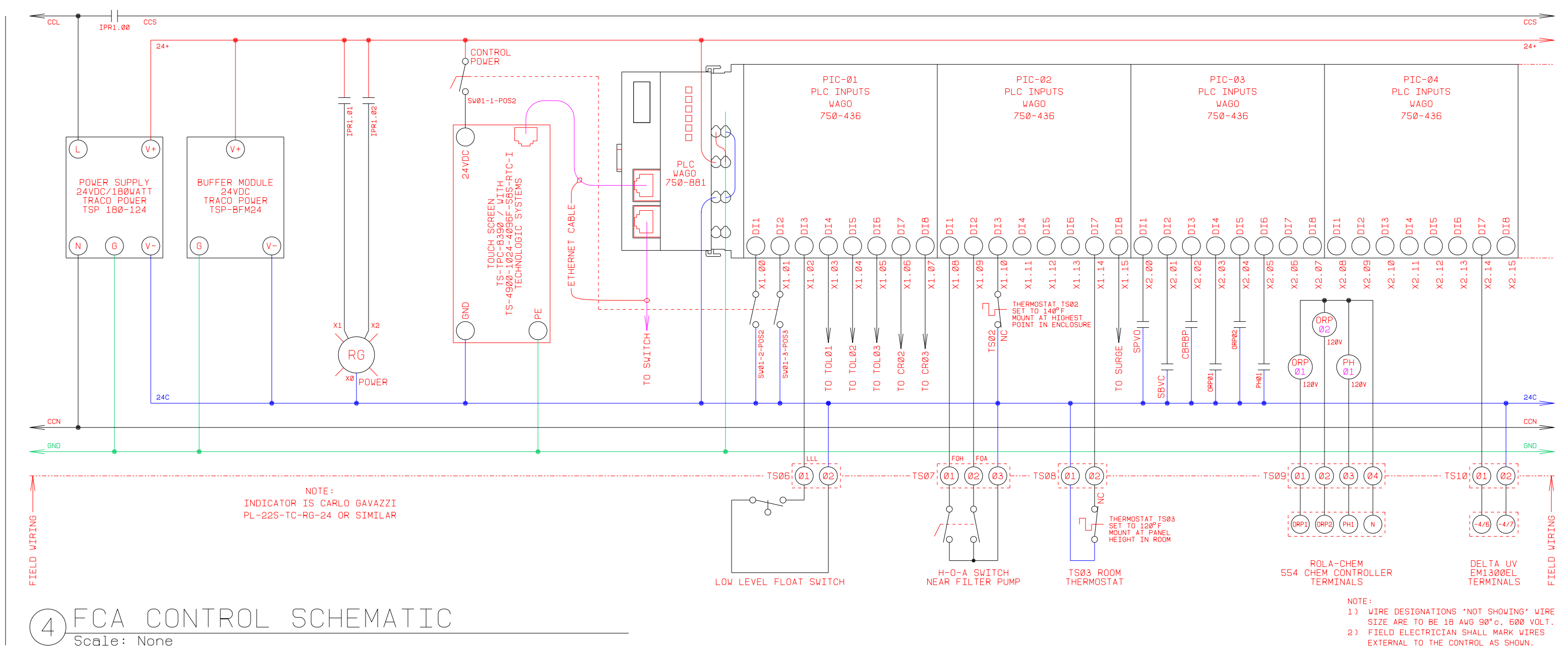
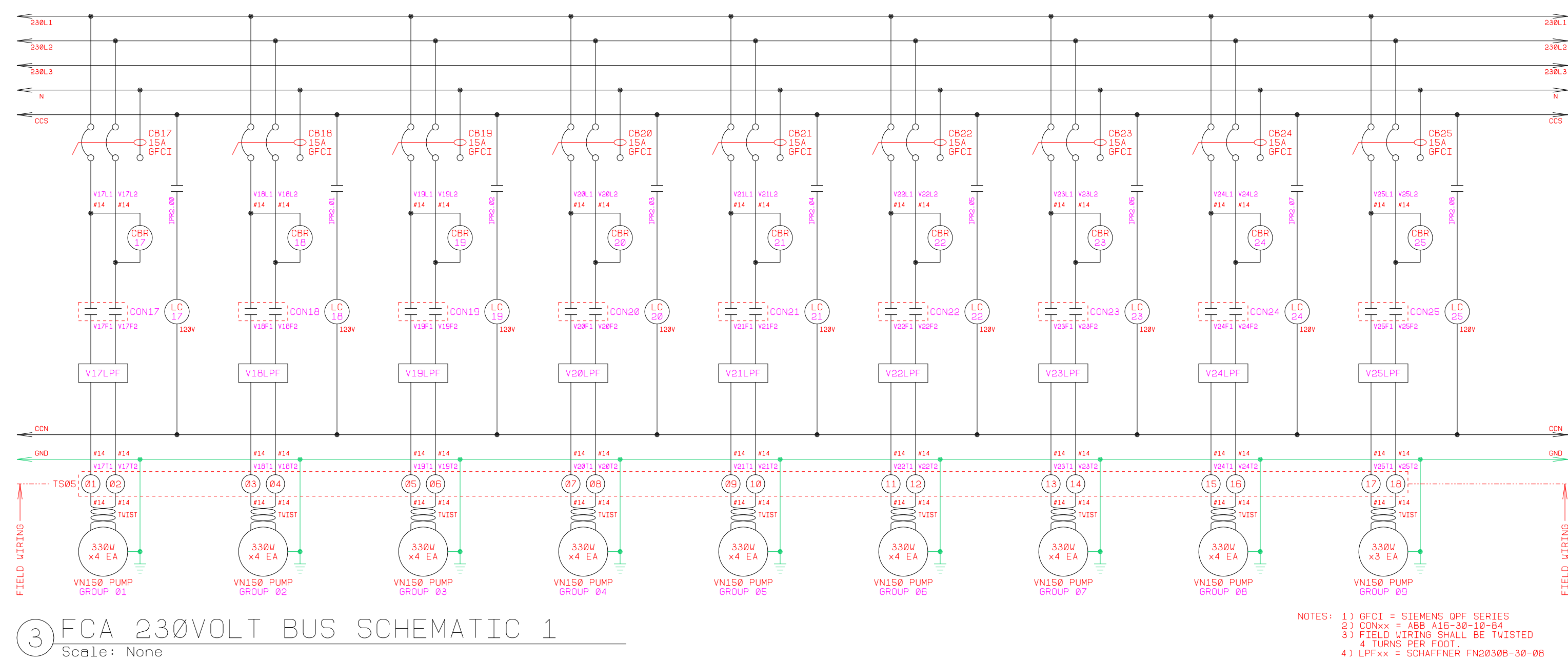
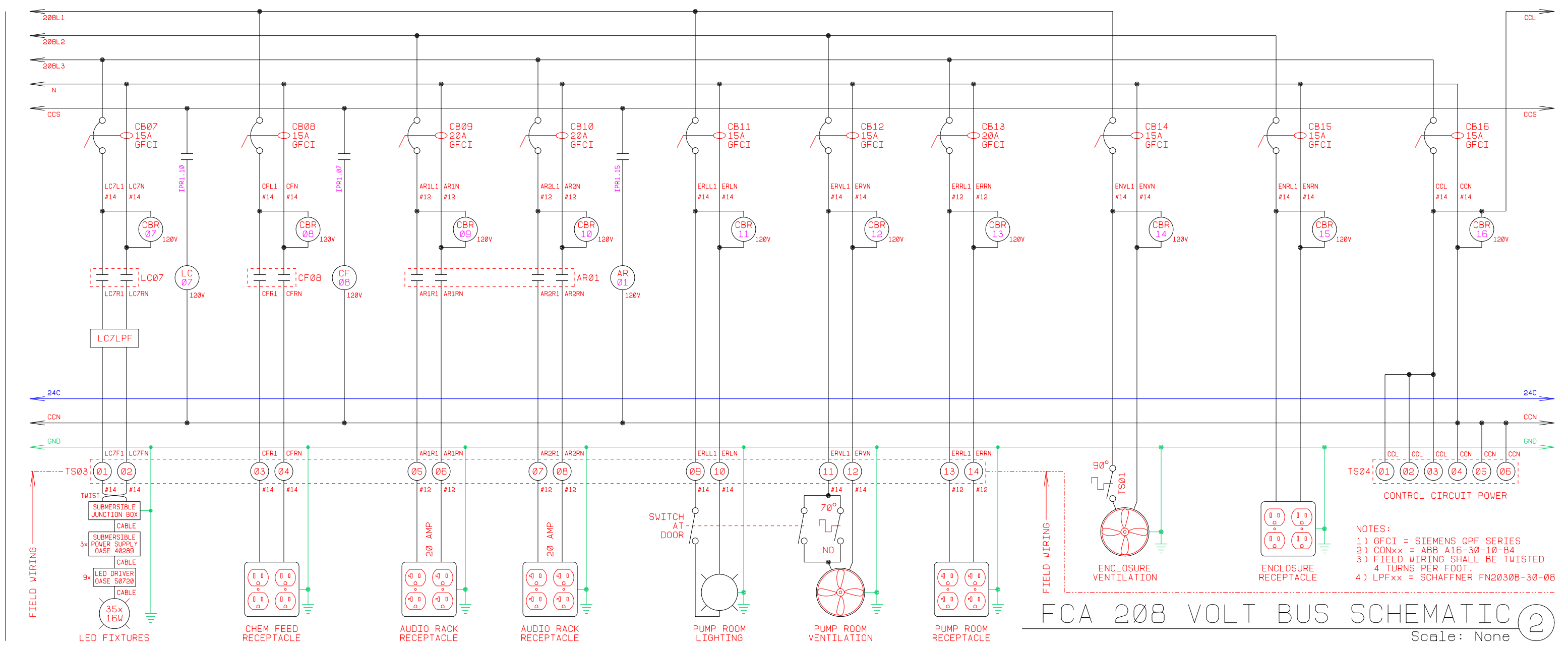
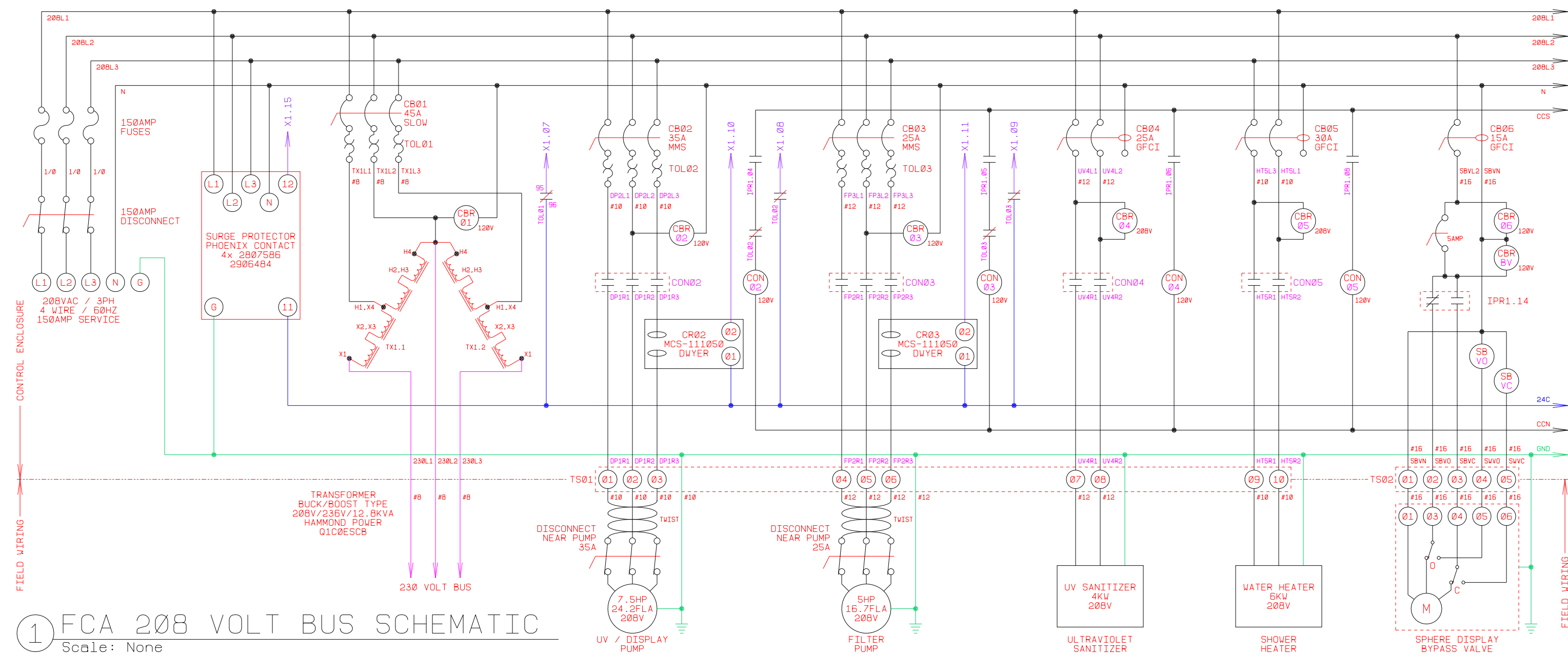
WATER FEATURE PUMP, 7 1/2 HP, RATED 925 GPM @ 28' TDH, 1200 RPM, 9.40" TRIM, 87% EFF. 208V/3PH/60Hz. 6"x5" FLANGED CONNECTIONS. EPOXY COATED. NSF RATED. 5095-7 PACO



PREPARED BY:  
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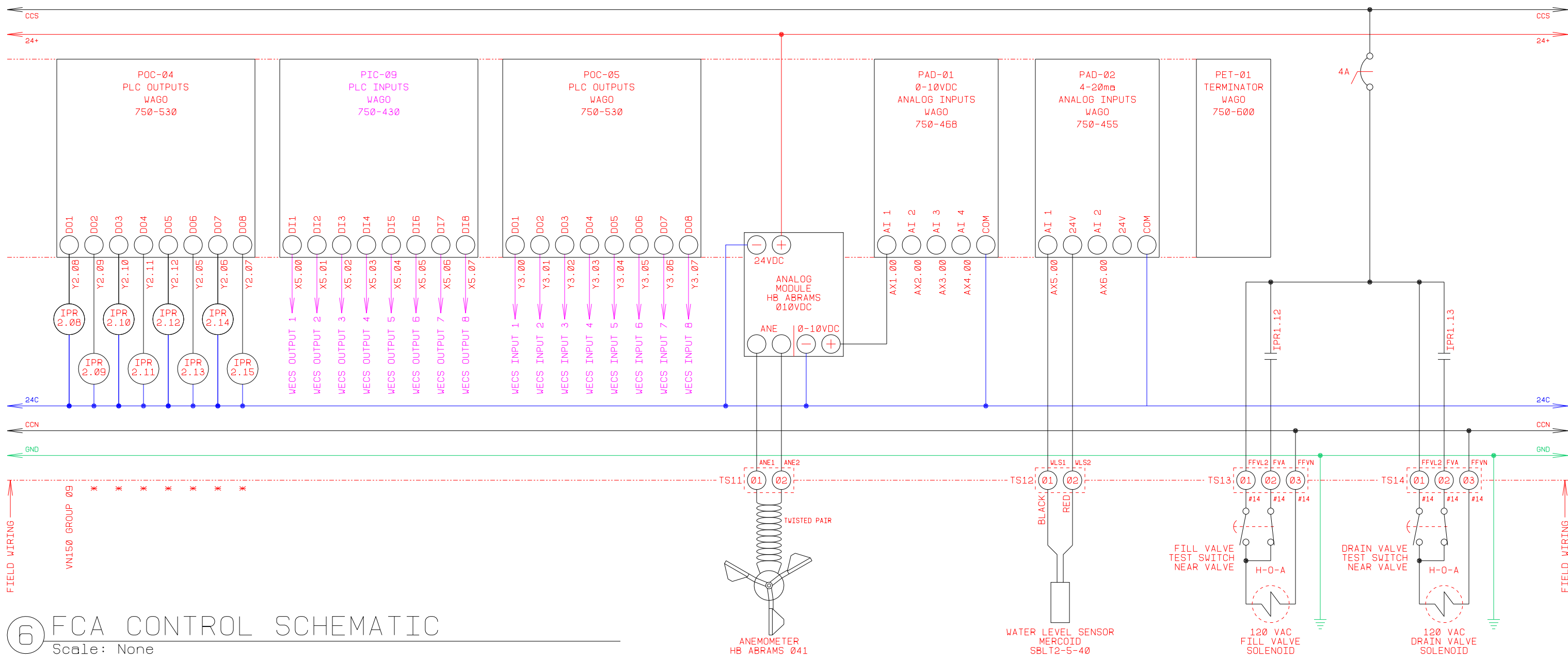
Revision No.	Description	Date	By	Approd. By

FFY 2018-20 WEBER EVENTS CENTER FOUNTAIN RENOVATION CITY PROJECT NO. PW 1735		
EQUIPMENT ROOM DETAILS		
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		
DATE 7/15/2019	APPROVED BY: DATE	SHEET NO. F-17
DESIGNED BY LM	CITY ENGINEER STOCKTON, CALIFORNIA	OF SHEETS
DRAWN BY LM, VM		PW1735
CHECKED BY LM		PROJECT NO.
RECORD DWGS.		

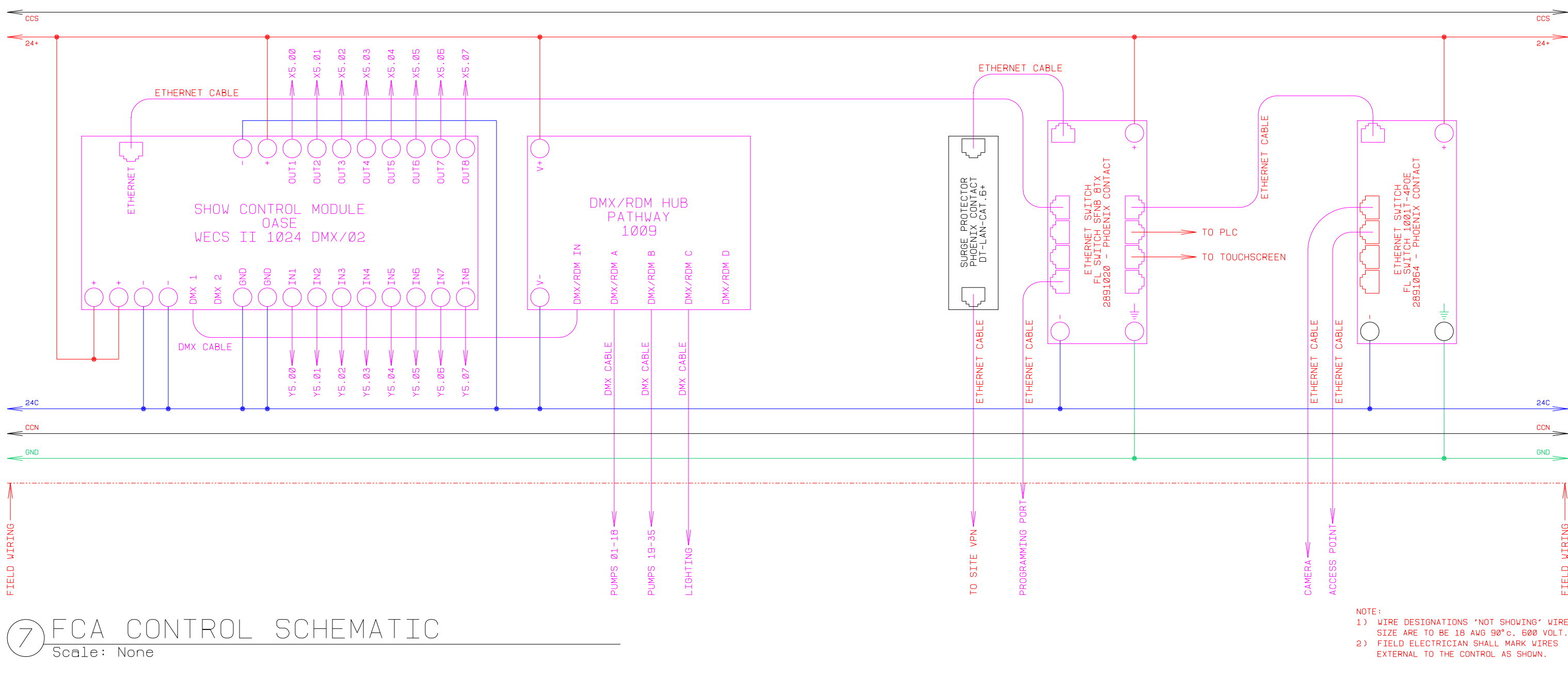


<i>Revision No.</i>	<i>Description</i>	<i>Date</i>	<i>By</i>	<i>Approd. By</i>

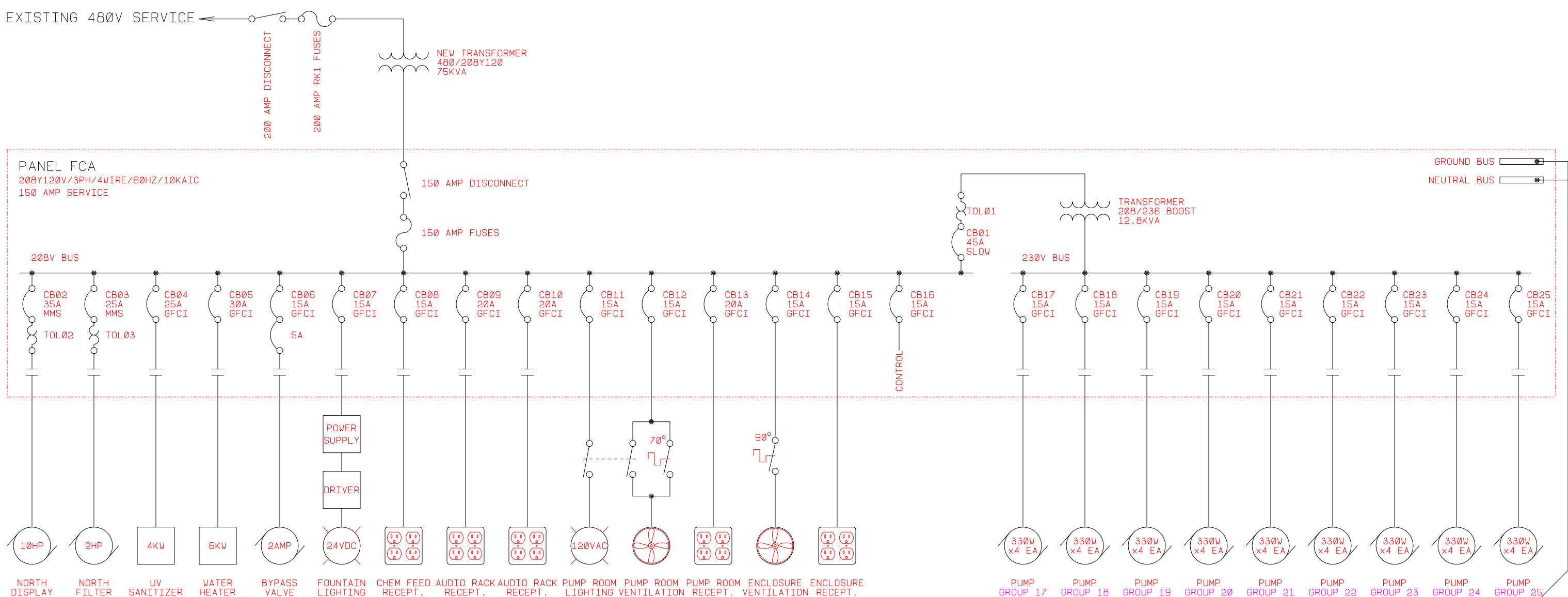




⑥ FCA CONTROL SCHEMATIC  
Scale: None



⑦ FCA CONTROL SCHEMATIC  
Scale: None



⑧ ONE-LINE ELECTRICAL DIAGRAM  
Scale: None

FCA (208 volt bus)										Breaker or MMS	
208Y120 vac / 3ph / 4wire / 60Hz / 10kAIC Fused at 150 amps Location: Equipment Room											
Cir:	Desc:	GFCI	LIGHTING	RECEPTACLE	OTHER	fla	VA	VA	VA	Poles:	Amps:
1	Transformer (230v bus)				X	33.7	4,053			3	45m
	Buck/boost, 12.8 KVA							4,053			
2	UV / Display pump (7½hp)				X	24.2	2,906		4,053	3	35m
	*							2,906			
3	Filter pump (5hp)				X	16.7	2,005		2,906	3	25m
	*							2,005			
4	UV Sanitizer (4Kw)	X			X	19.2	2,000			2	25
	*							2,000			
5	Water heater (6Kw)	X			X	28.8			3,000	2	30
	*										
6	Bypass valve	X			X	2.0		500		1	15
7	Fountain Lighting Circuit	X	X			9.0			1,080	1	15
8	Chem feed	X	X			5.0	600			1	15
9	Audio rack	X	X			10.0		1,200		1	20
10	Audio rack	X	X			10.0			1,200	1	20
11	Equipment room lighting	X	X			8.5	250			1	15
12	Equipment room ventilation	X	X	X		8.5		250		1	15
13	Equipment room receptacle	X	X			8.5			250	1	20
14	Enclosure ventilation	X	X			2.1	250			1	15
15	Enclosure receptacle	X	X			2.1		250		1	15
16	Control circuit	X			X	2.1			250	1	15
Subtotals:						15,064		13,164		14,744	VA
Total VA:								42,973			
Voltage:								208			
Amperage:								119			
Phase:								3			
Service (minimum):								150			
Service (selected):								150			

⑨ FCA 208V BUS LOADS  
Scale: None

FCA (230 volt bus)		GFCI	LIGHTING	RECEPTACLE	OTHER					Breaker or MMS	
						fla	VA	VA	VA	Poles:	Amps:
Cir:	Desc:										
17	VN150 JBvp01 (4x 330w) *	X			X	5.7	660		660	2	15
18	VN150 JBvp01 (4x 330w) *	X			X	5.7			660	2	15
19	VN150 JBvp01 (4x 330w) *	X			X	5.7			660	2	15
20	VN150 JBvp02 (4x 330w) *	X	X		X	5.7	660		660	2	15
21	VN150 JBvp02 (4x 330w) *	X			X	5.7			660	2	15
22	VN150 JBvp02 (4x 330w) *	X			X	5.7	660		660	2	15
23	VN150 JBvp03 (4x 330w) *	X			X	5.7			660	2	15
24	VN150 JBvp03 (4x 330w) *	X	X		X	5.7	660		660	2	15
25	VN150 JBvp03 (3x 330w) *	X	X		X	4.3		495		2	15
Subtotals:						3,960		3,795		3,795	VA
Total VA:								11,550			
Voltage:								230			
Amperage:								29			
Phase:								3			

⑩ FCA 230V BUS LOADS  
Scale: None



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Revision No.	Description	Date	By	Apprd. By

FFY 2018-20  
WEBER EVENTS CENTER FOUNTAIN RENOVATION  
CITY PROJECT NO. PW 1735

ELECTRICAL SCHEMATICS 2  
AND LOADS

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE 7/15/2019  
DESIGNED BY LM  
DRAWN BY LM, VM  
CHECKED BY LM  
RECORD DWGS.

APPROVED BY: DATE  
CITY ENGINEER  
STOCKTON, CALIFORNIA

SHEET NO.  
F-19  
OF SHEETS  
PW1735  
PROJECT NO.