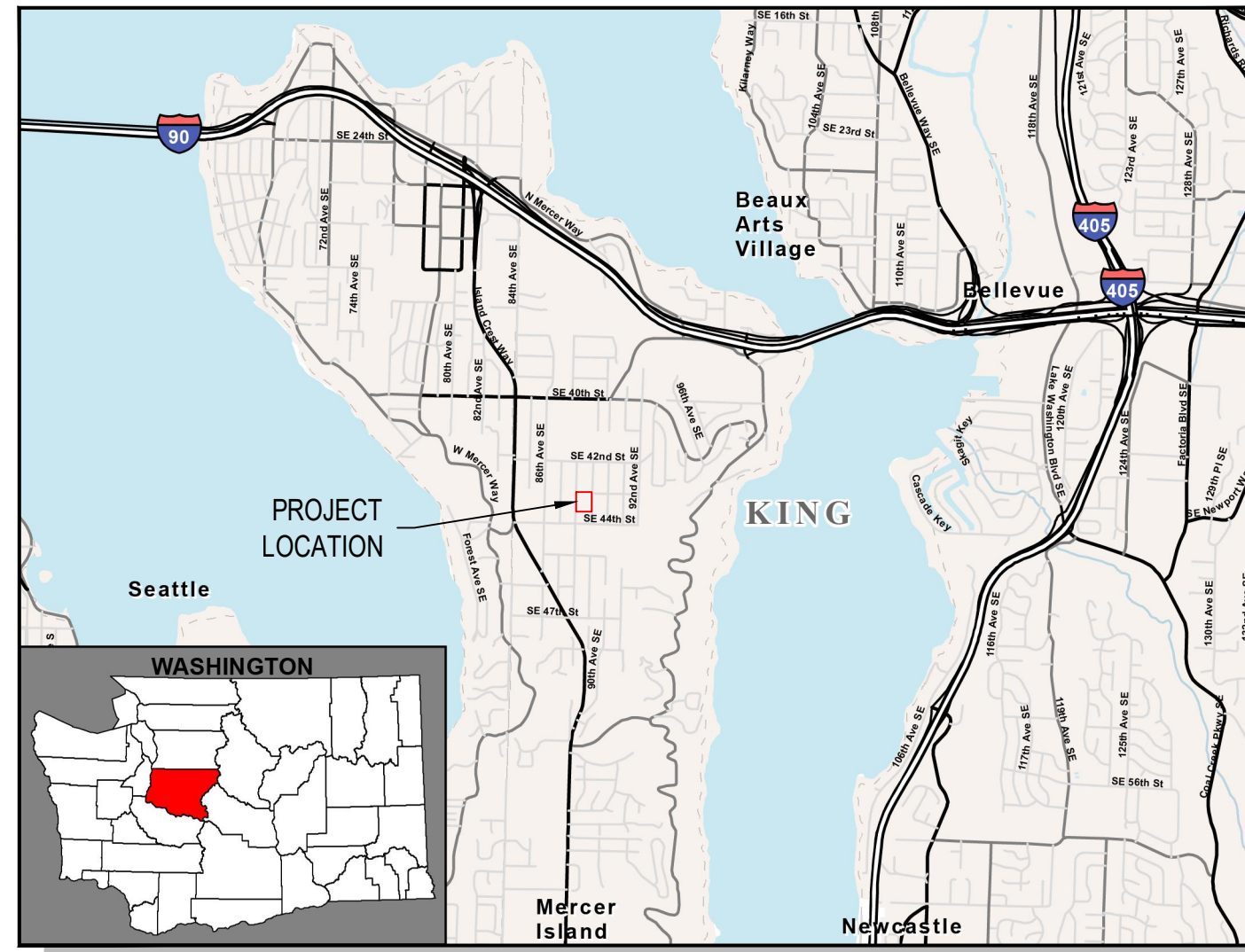


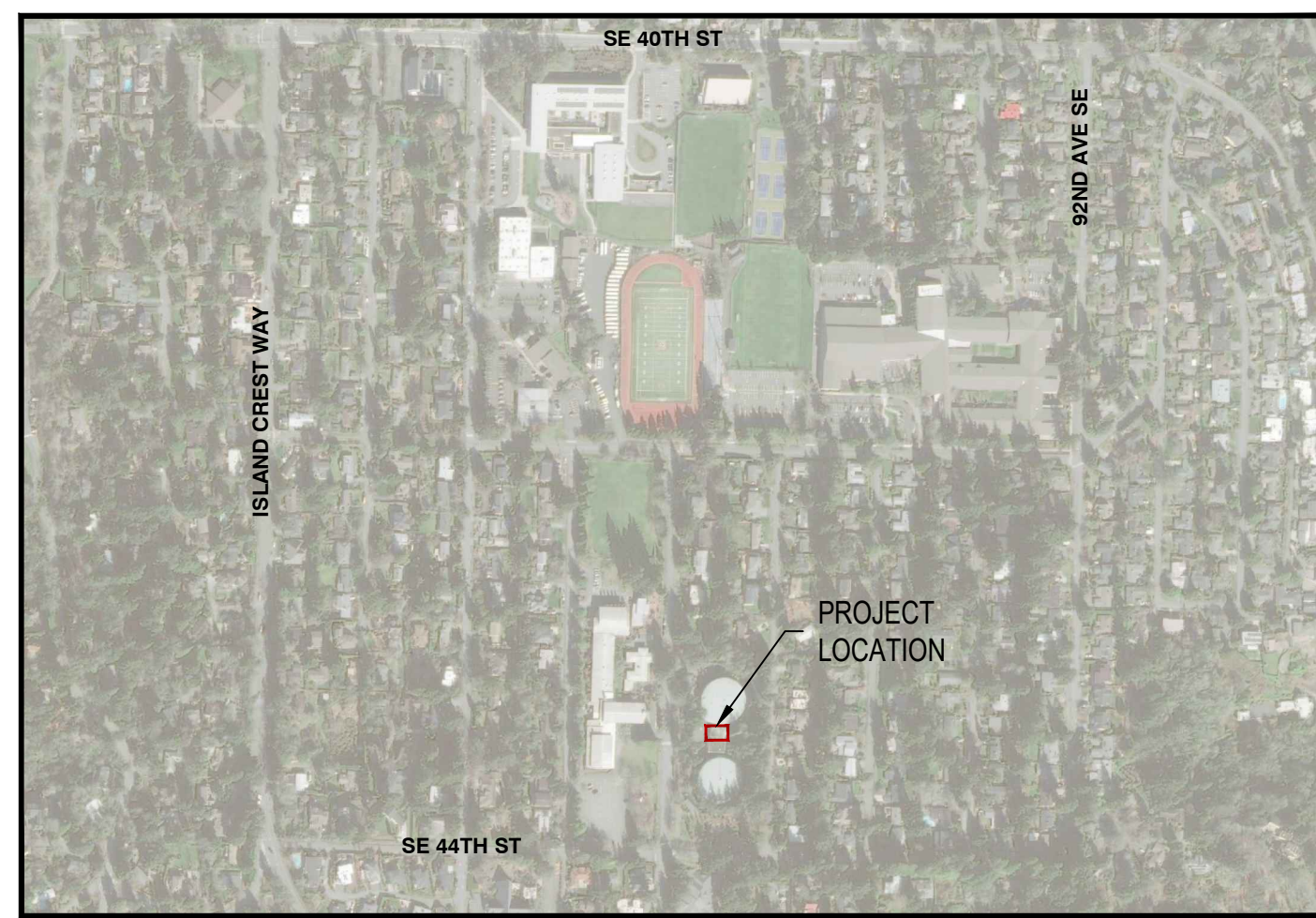


CITY OF MERCER ISLAND BOOSTER PUMP STATION UPGRADES

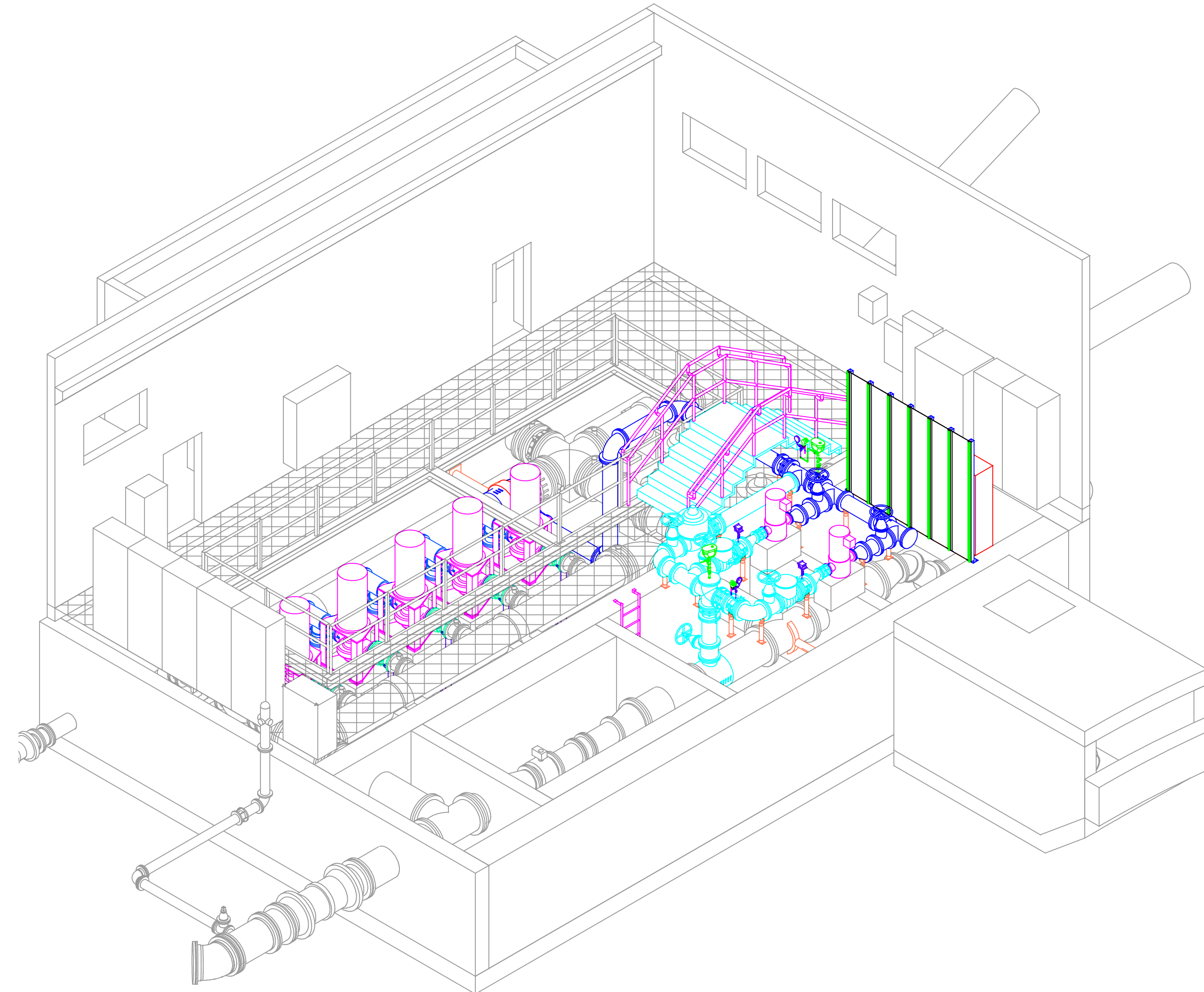
PROJECT VICINITY MAP



PROJECT LOCATION MAP



**CALL 48 HOURS BEFORE YOU DIG
ONE CALL 811
REPORT ALL SPILLS
DEPT. OF ECOLOGY 1-800-258-5990**



SHEET INDEX

SHEET NO.	DESCRIPTION	DWG NO.
01	COVER	COV
02	GENERAL INFORMATION	G01
03	EXISTING MECHANICAL AND DEMOLITION PLAN	M01
04	PROPOSED STRUCTURAL	S01
05	PROPOSED MECHANICAL PLAN	M02
06	PROPOSED MECHANICAL SECTIONS	M03
07	MECHANICAL DETAILS	M04
08	ELECTRICAL LEGEND	E01
09	ONE LINE DIAGRAM	E02
10	ELECTRICAL PLAN	E03
11	ELECTRICAL DETAILS	E04
12	CONTROL LOGIC DIAGRAM	E05

CONTACT PERSONNEL

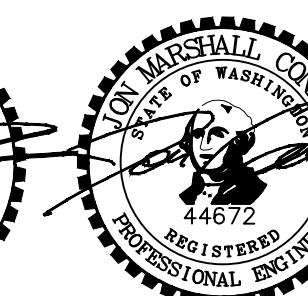
CONTACT	AGENCY	PHONE
EDWIN HALIM, P.E. (PROJECT MANAGER)	RH2 ENGINEERING	425-951-5332
MARINE BEHR, P.E. (PROJECT ENGINEER)	RH2 ENGINEERING	425-439-4008
CHRIS MARKS	CITY OF MERCER ISLAND	206-275-7822
ALLEN HUNTER	CITY OF MERCER ISLAND	206-275-7812



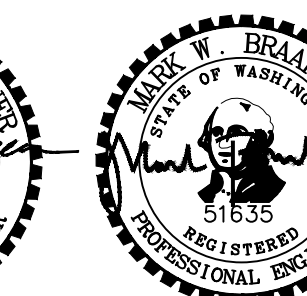
CIVIL ENGINEER
SIGNED: 01/23/2024



MECHANICAL ENGINEER
SIGNED: 01/23/2024



STRUCTURAL ENGINEER
SIGNED: 01/23/2024



ELECTRICAL ENGINEER
SIGNED: 01/23/2024



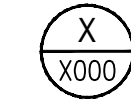
GENERAL NOTES

- ALL WORKMANSHIP, CONSTRUCTION AND MATERIALS SHALL BE PERFORMED OR SUPPLIED IN ACCORDANCE WITH THESE SPECIAL PROVISIONS, PLANS, OWNER STANDARD DETAILS, AND THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, 2020 EDITION, AS ISSUED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND THE AMERICAN PUBLIC WORKS ASSOCIATION, WHICH IS HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS.
- A PRECONSTRUCTION CONFERENCE IS REQUIRED PRIOR TO CONSTRUCTION, AND 48 HOURS ADVANCE NOTIFICATION PRIOR TO ACTUAL START OF WORK IS REQUIRED.
- THE EXISTING PHYSICAL FEATURES AND UTILITIES SHOWN ON THESE PLANS ARE BASED ON RECORD DRAWINGS, AND FIELD RECONNAISSANCE BY RH2 ENGINEERING.
- THE CONTRACTOR SHALL PROTECT BUILDINGS, FENCES, APPURTENANCES, ABOVE GROUND UTILITIES, AND OTHER PROPERTY ADJACENT TO ALL CONSTRUCTION AREAS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING ALL DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES.
- IN ACCORDANCE WITH THE DEPARTMENT OF ECOLOGY AIR QUALITY STANDARDS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING ALL FUGITIVE DUST THAT MAY BE GENERATED BY THE CONSTRUCTION PROJECT.
- THE CONTRACTOR SHALL CONTAIN WORK TO THE EXISTING FENCED RESERVOIR AND BOOSTER PUMP STATION SITE. CONSTRUCTION SHALL NOT IMPACT NORMAL OPERATIONS.
- THE CONTRACTOR SHALL SECURE NECESSARY PERMITS PRIOR TO STARTING CONSTRUCTION. THE OWNER WILL OBTAIN SOME OF THE REQUIRED PERMITS. SEE SPECIAL PROVISIONS FOR FURTHER INFORMATION REGARDING PERMITS.
- ANY REVISIONS TO PLANS MUST BE MADE BY THE ENGINEER AND APPROVED BY THE OWNER PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
- A COPY OF THE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

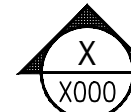
SECTION AND DETAIL REFERENCES

THE FOLLOWING CONVENTIONS HAVE BEEN USED WITHIN THESE DRAWINGS TO REFER THE READER BETWEEN THE SECTION/DETAIL AND THE PLAN FROM WHICH IT IS REFERENCED.

REFERENCE BUBBLES



PLAN REFERENCE BUBBLE - REFERS READER BACK TO THE PLAN FROM WHICH THE DETAIL OR SECTION ORIGINATED.



DETAIL/SECTION REFERENCE BUBBLE - REFERS READER TO THE DRAWING ON WHICH THE DETAIL OR SECTION IS LOCATED.

WHERE, ID = SECTION/DETAIL REFERENCE NUMBER
= DRAWING NUMBER ON WHICH DETAIL ORIGINATED OR RESIDES.

SECTION/DETAIL REFERENCE NUMBER CONVENTIONS:
SECTIONS OR ELEVATIONS SHOULD HAVE A LETTER REFERENCE NUMBER (A THROUGH ZZ).

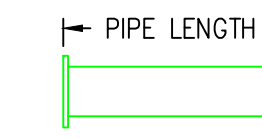
ABBREVIATIONS

CONC	CONCRETE	O.C.	ON CENTER
CL	CENTERLINE	PE	POLYETHYLENE
DIAM	DIAMETER	PROP	PROPOSED
DI	DUCTILE IRON	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	PW	PLATE WASHER
ELEV	ELEVATION	R	RIGHT
EX	EXISTING	RT	RIGHT
FRP	FIBERGLASS REINFORCED PLASTIC	SPEC	SPECIFICATIONS
HN	HEX NUT	STD	STANDARD
L	LEFT	T&B	TOP AND BOTTOM
LT	LEFT	TYP	TYPICAL
LF	LINEAR FEET	W	WATER
MIN.	MINIMUM		

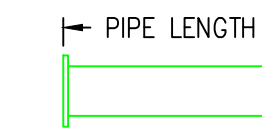
PIPE LENGTH MEASUREMENTS

PIPE LENGTHS CALLED OUT ON PLANS ARE MEASURED AS FOLLOWS:

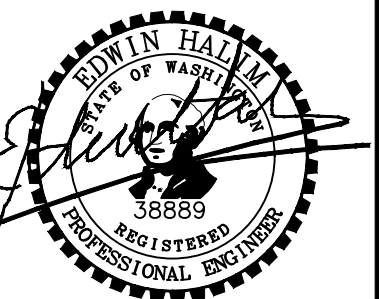
FLANGE x FLANGE (FLxFL) PIPE
MEASURED FROM FACE OF
FLANGE TO FACE OF FLANGE.



FLANGE x GROOVED (FLxGR) PIPE
MEASURED FROM FACE OF
FLANGE TO CENTER OF FITTING.



FITTINGS ARE ASSUMED TO BE STANDARD LENGTH 125#, 250# FLANGED OR COMPACT CLASS 350 MECHANICAL JOINTS. CONTRACTOR RESPONSIBLE FOR VERIFYING LENGTHS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE INTO ACCOUNT ANY VARIATIONS IN FITTING DIMENSIONS.



SIGNED: 01/23/2024



SIGNED: 01/23/2024

CITY OF MERCER ISLAND
BOOSTER PUMP STATION UPGRADES

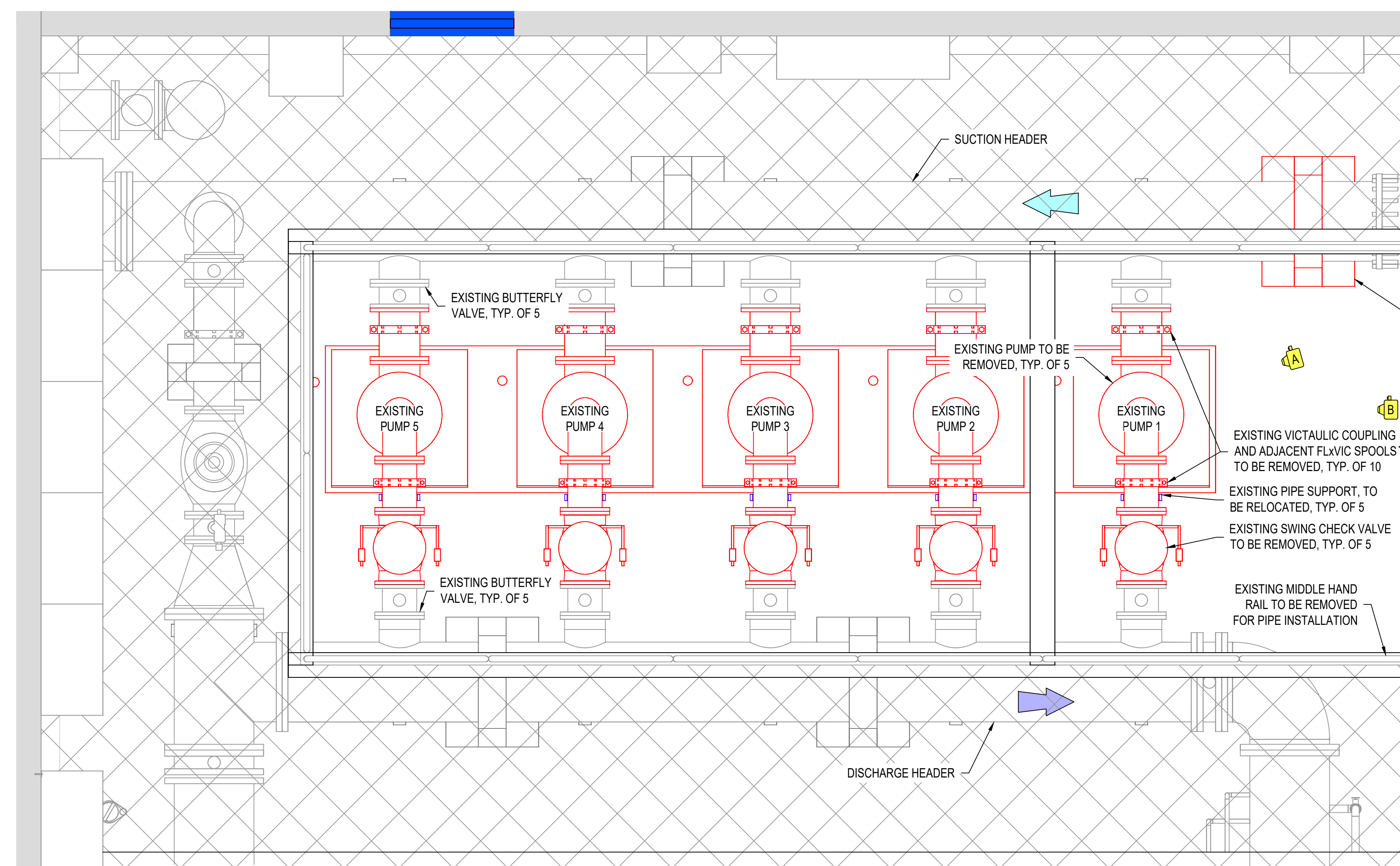
GENERAL INFORMATION



NO.	DATE	DESCRIPTION	BY	REVIEW

SCALE: SHOWN
DRAWING IS FULL SCALE WHEN
BAR MEASURES 2"

DWG NO.: G01 SHEET NO.: 02 12



EXISTING PUMP DEMOLITION

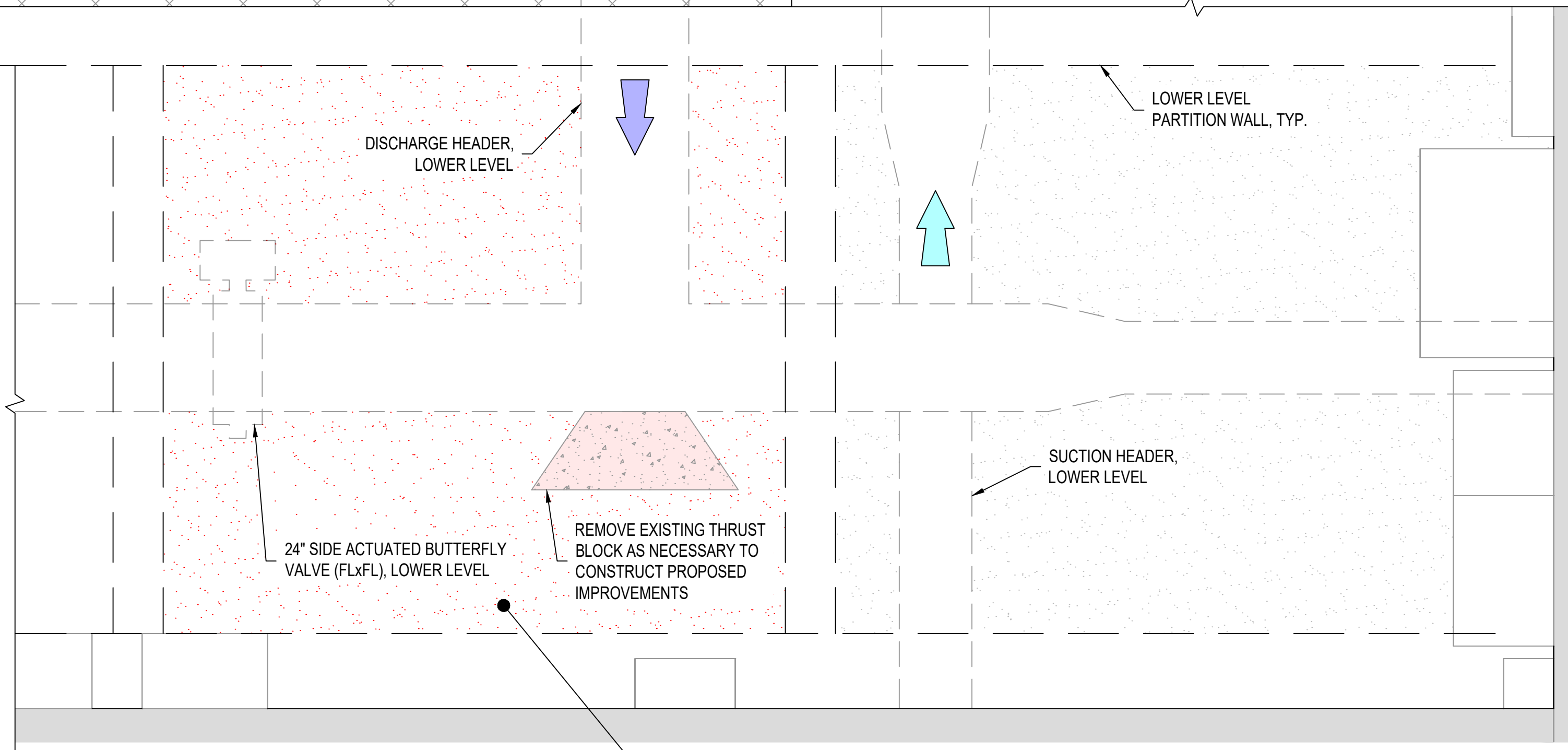
NOTE: THE EXISTING PUMPS CONTAIN MERCURY SEALS.

- CONSULT THE PUMP MANUAL FOR REMOVAL INSTRUCTIONS BEFORE REMOVING THE PUMPS.
- USE A BARRIER, SUCH AS AN IMPERMEABLE TARP, TO PROTECT THE PUMP CAN IN CASE OF A SPILL.
- PROVIDE A MERCURY SPILL CLEANUP KIT ON SITE AND TRAIN STAFF ON ITS USE.
- DISPOSE OF MERCURY AND MERCURY-CONTAINING EQUIPMENT ACCORDING TO FEDERAL, STATE, AND LOCAL REGULATIONS.

REFER TO DWG NO. M04 FOR PUMP BARREL, PLATE, PAD, AND CAN ABANDONMENT DETAILS.



EXISTING PUMP GALLERY



EXISTING MECHANICAL AND DEMOLITION PLAN

1/2" = 1'-0"

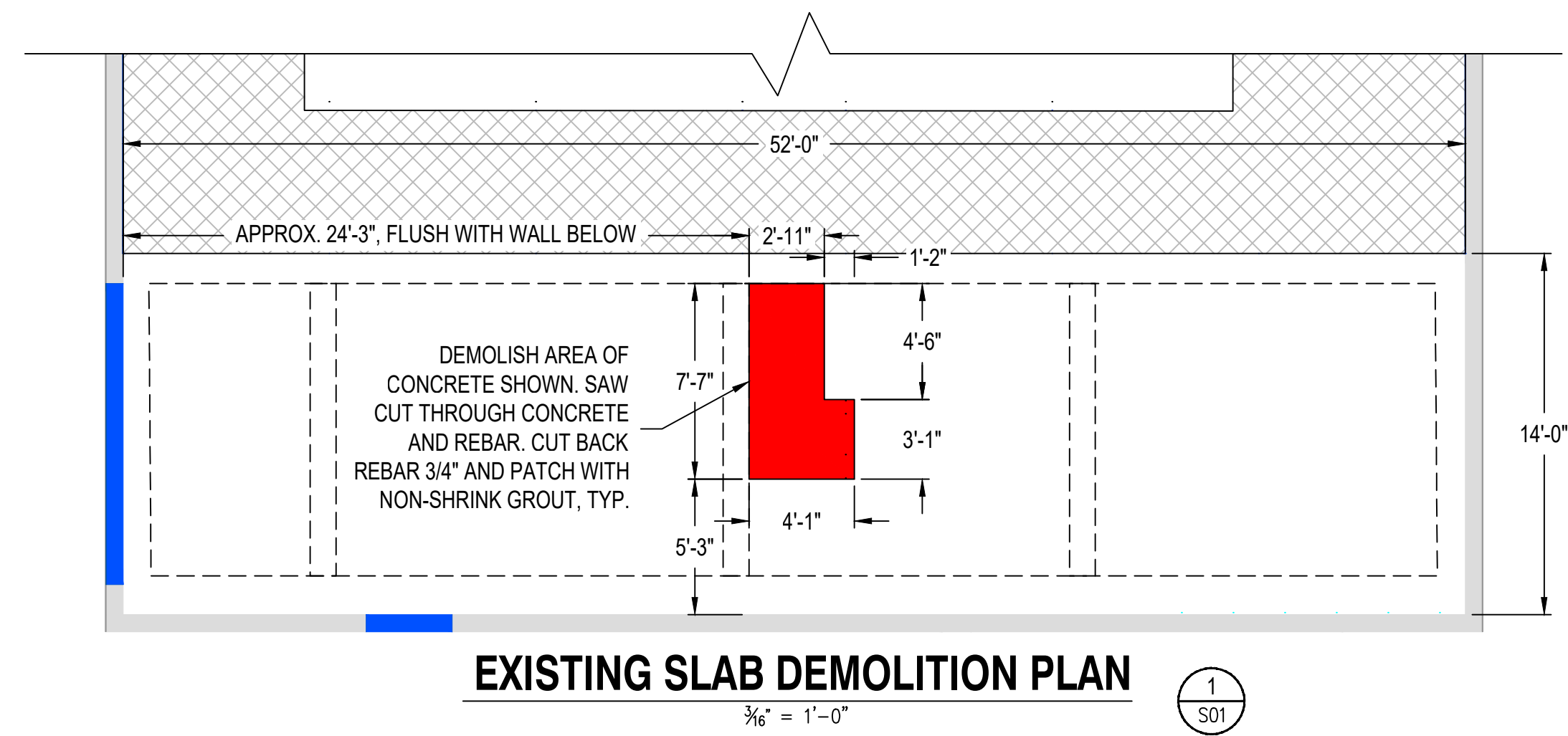


REMOVE EXISTING SAND WITHIN THE FULL LOWER LEVEL PARTITION AREA, APPROX. 40 CY. SUPPORT PIPING AND FITTINGS AT JOINTS AS NECESSARY BEFORE FINAL SUPPORTS INSTALLED.

NOTES:

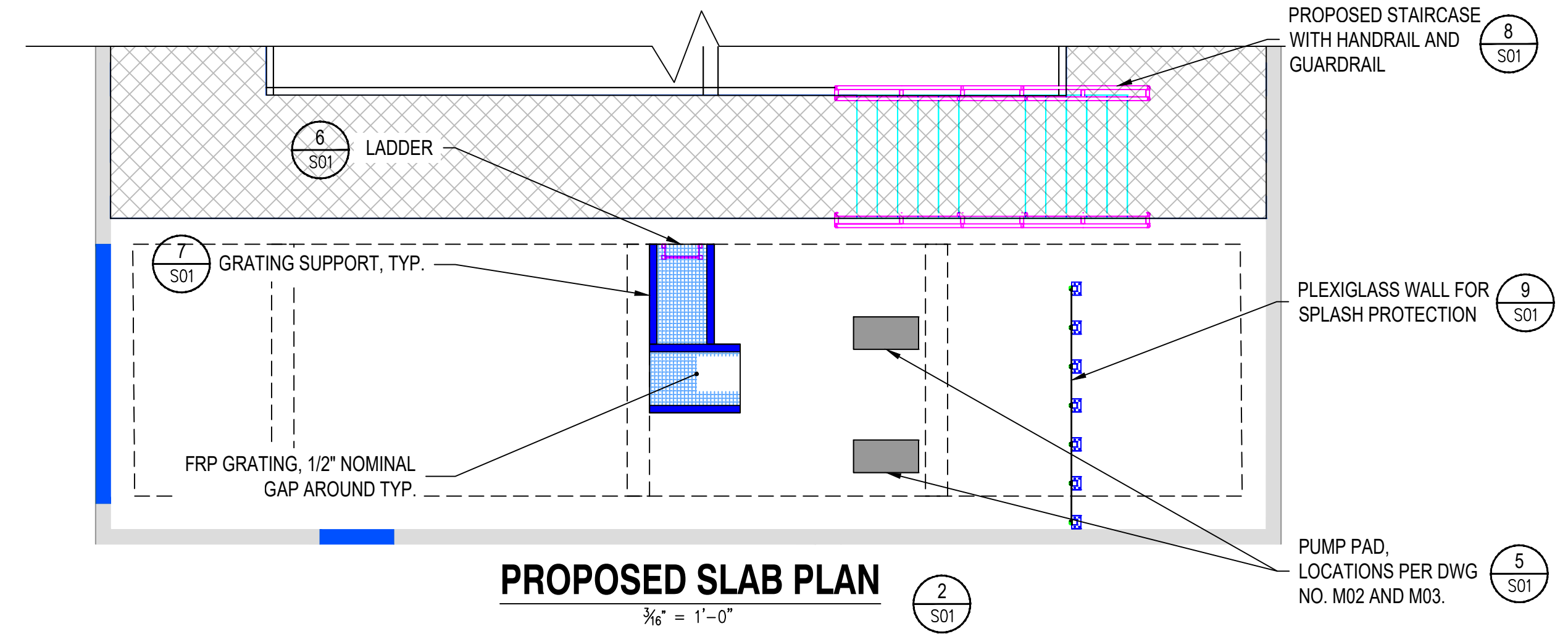
1. REFER TO SPECIFICATIONS FOR CONSTRUCTION MILESTONE AND PHASING REQUIREMENTS.
2. PRIOR TO ORDERING SPOOLS CONFIRM:
 - A. THE LOCATION OF THE EXISTING BUTTERFLY VALVE IN THE LOWER LEVEL PARTITION AREA.
 - B. THE DISTANCE BETWEEN THE EXISTING BUTTERFLY VALVES ADJACENT TO THE SUCTION AND DISCHARGE HEADER FOR PUMPS 1-5.
 COORDINATE WITH THE OWNER IF MEASURED DISTANCES RESULTS IN A DISCREPANCY FROM THE PLANS.

NO.	DATE	DESCRIPTION	BY	REVIEW



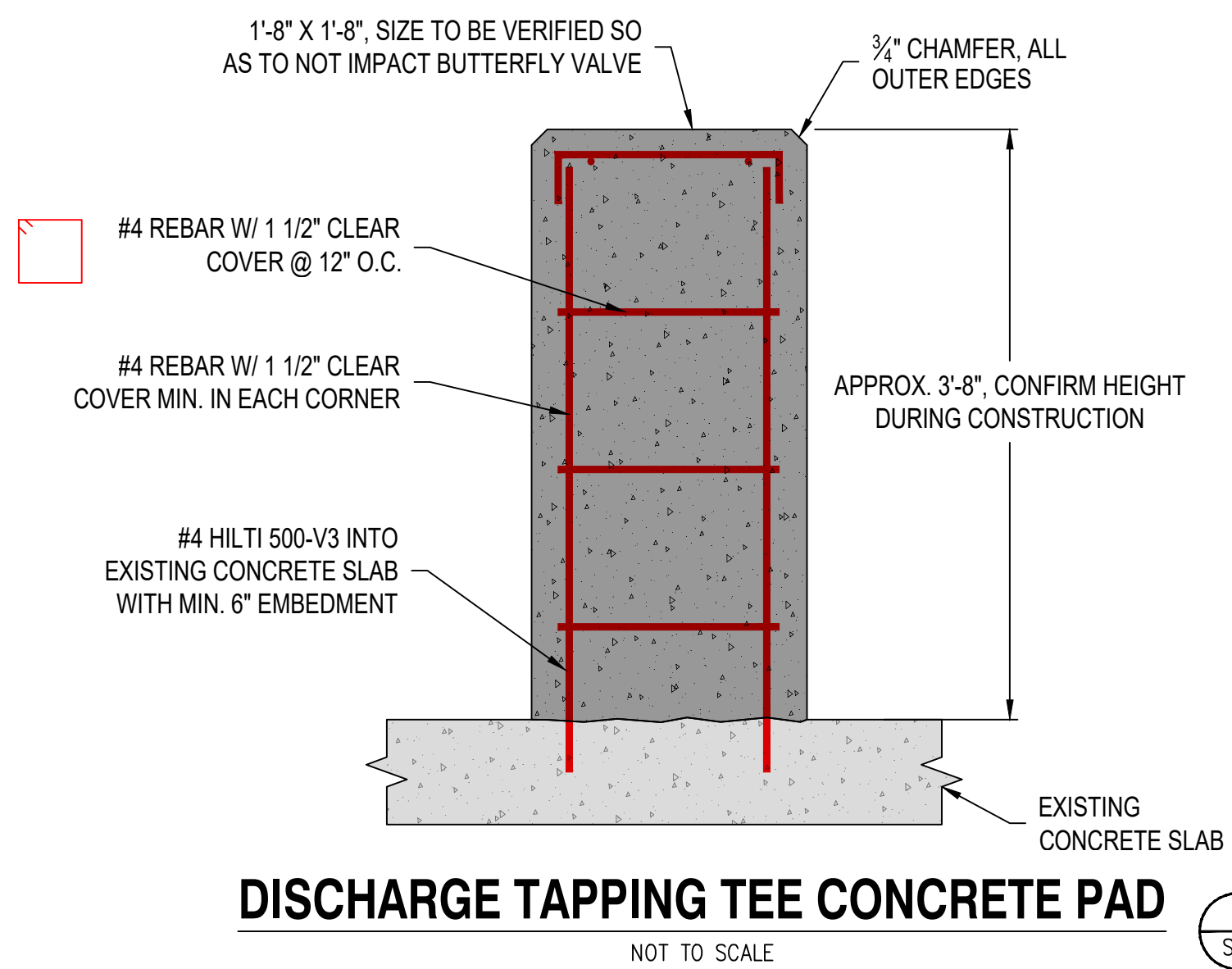
EXISTING SLAB DEMOLITION PLAN

1
S01



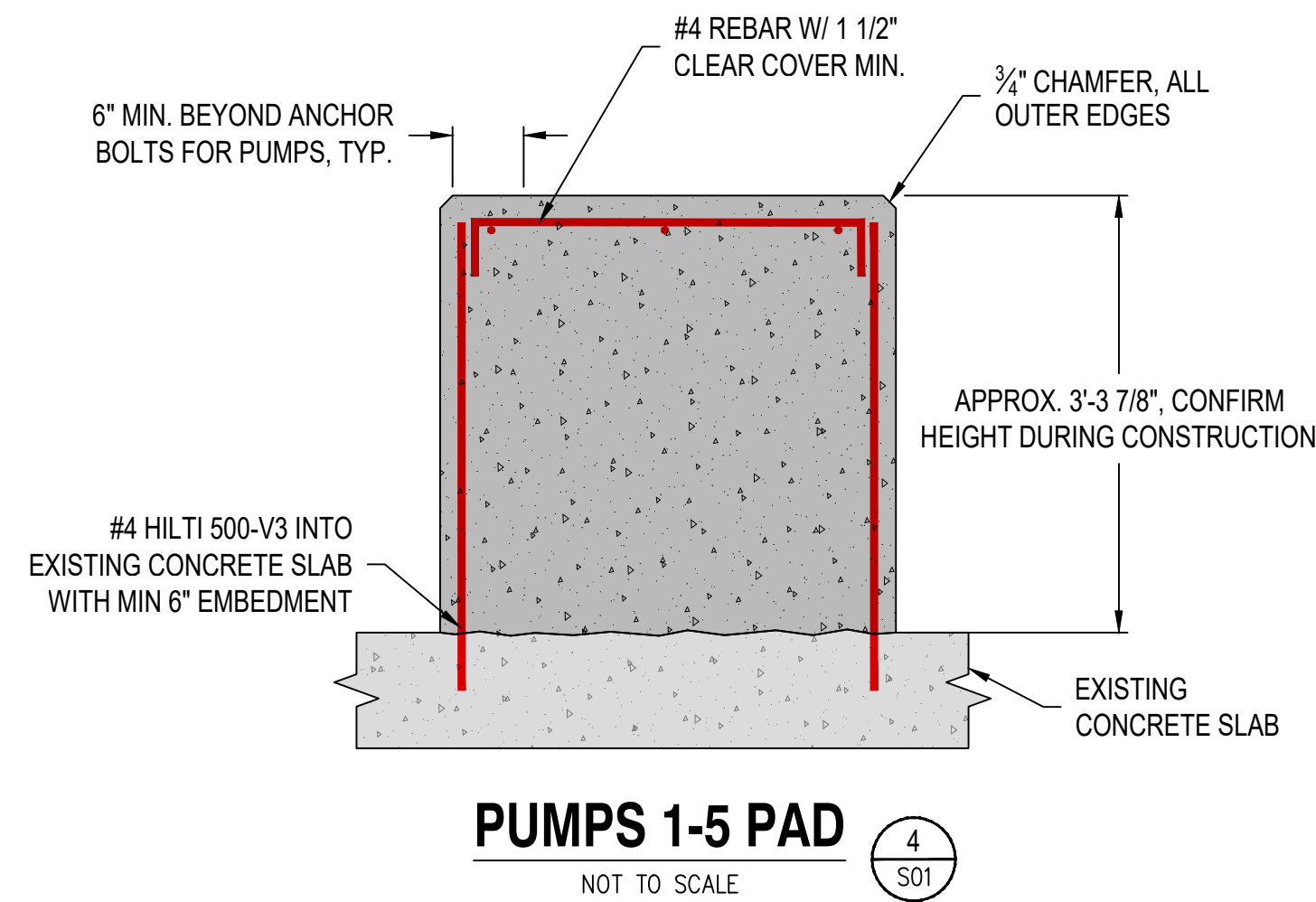
PROPOSED SLAB PLAN

2
S01



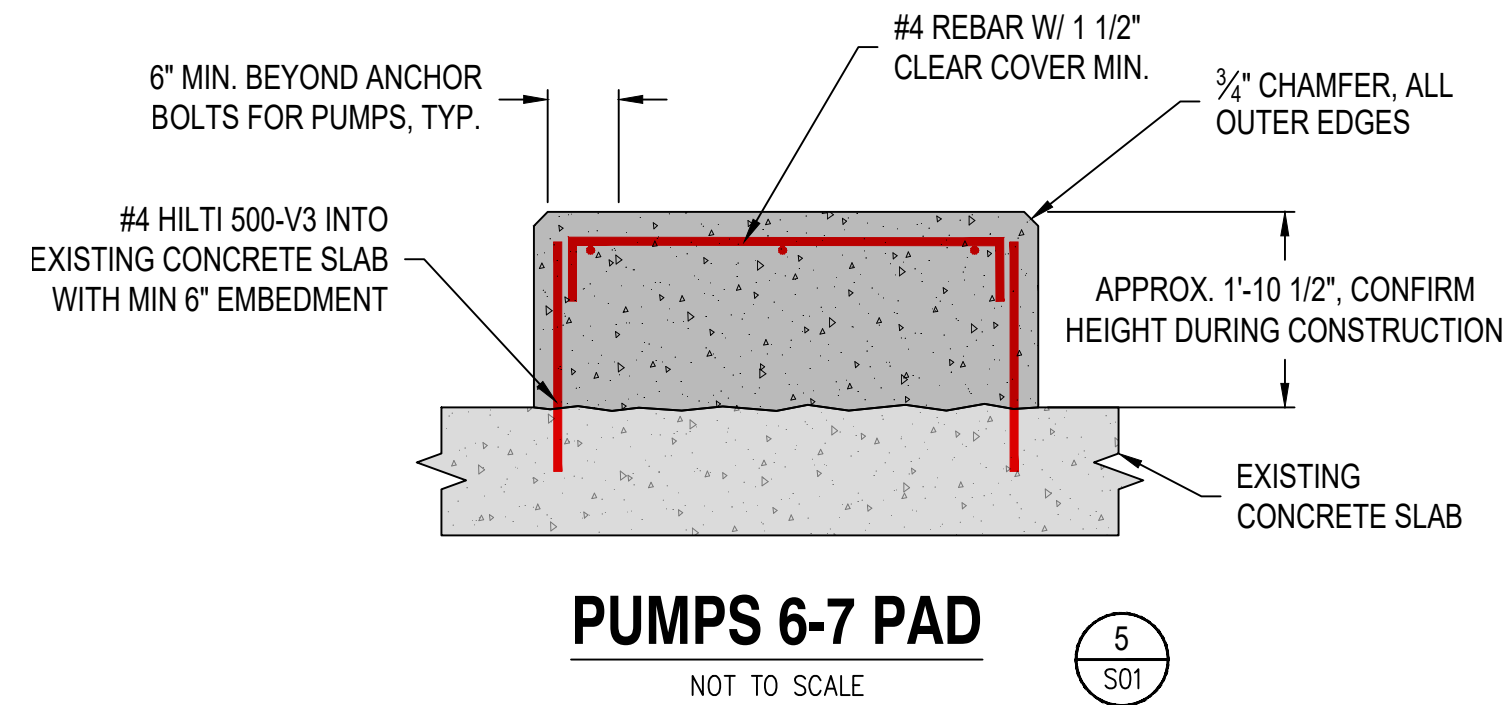
DISCHARGE TAPPING TEE CONCRETE PAD

3
S01



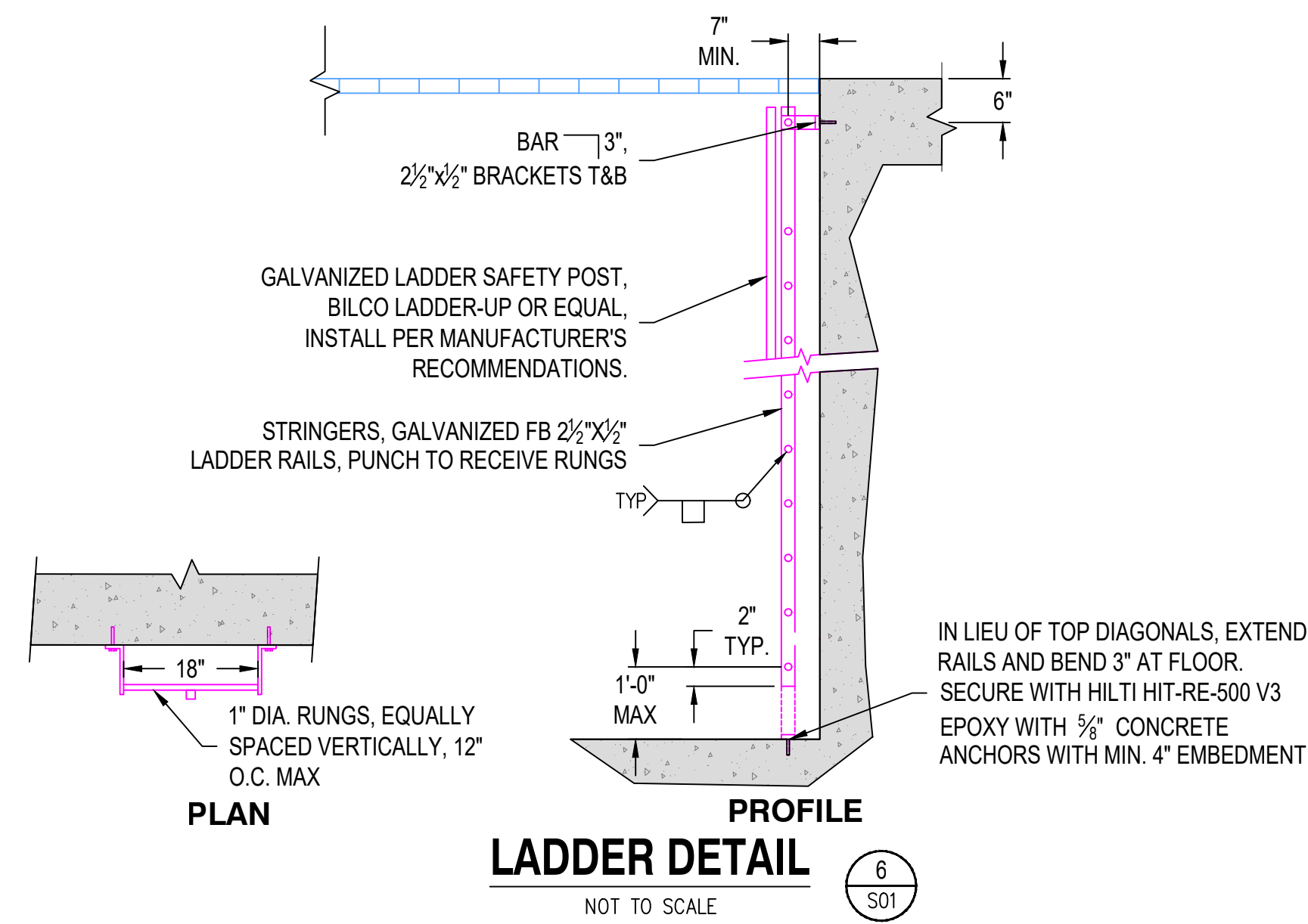
PUMPS 1-5 PAD

4
S01



PUMPS 6-7 PAD

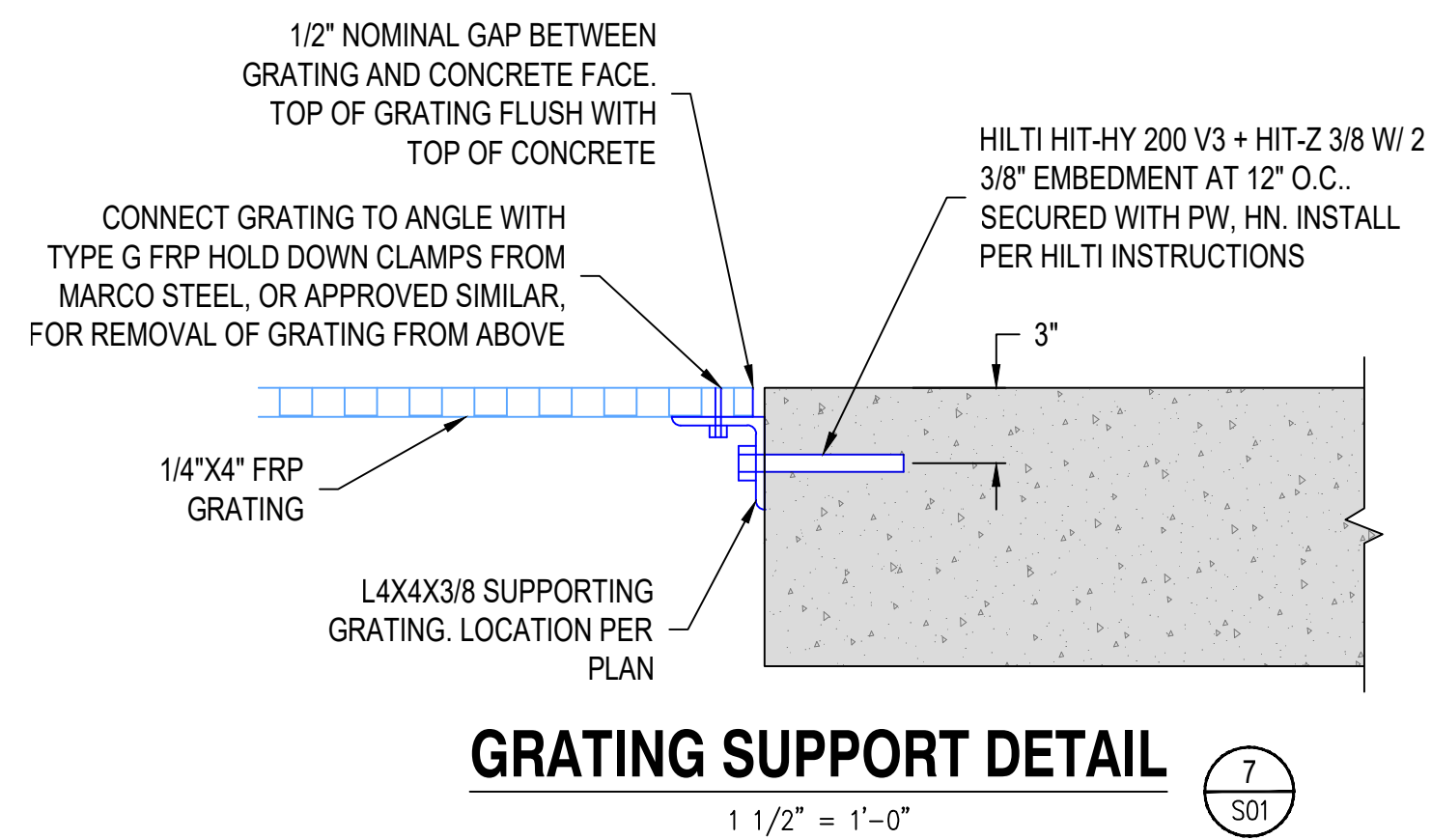
5
S01



LADDER DETAIL

NOT TO SCALE

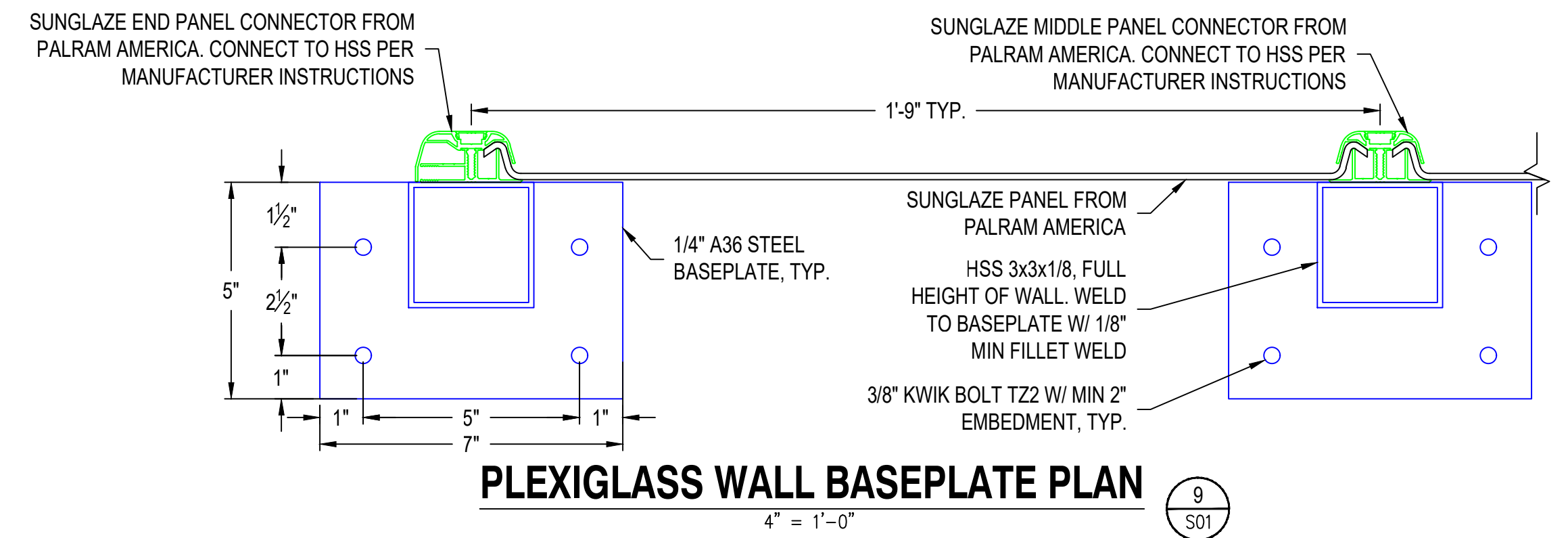
6
S01



GRATING SUPPORT DETAIL

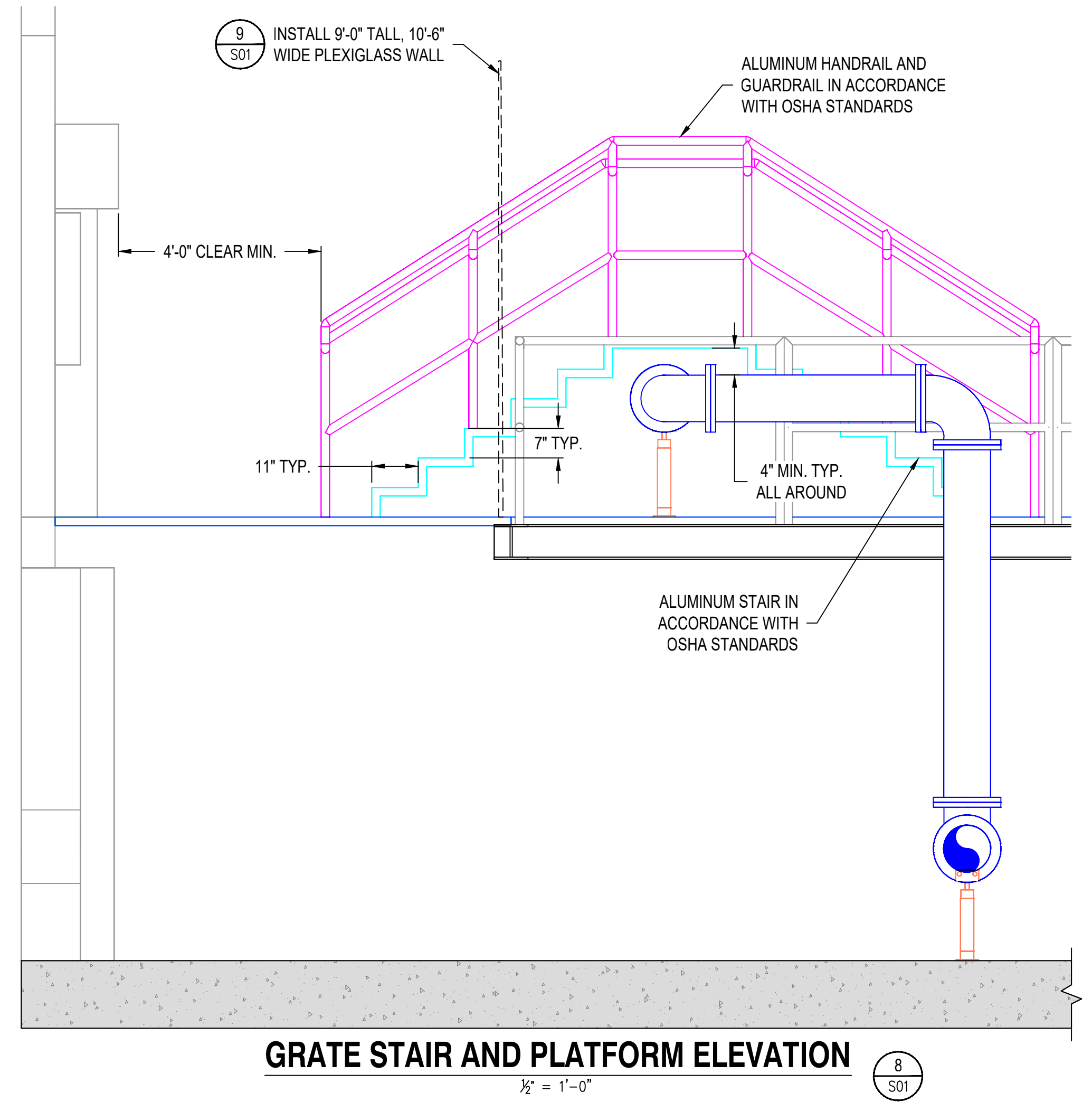
1 1/2" = 1'-0"

7
S01



PLEXIGLASS WALL BASEPLATE PLAN

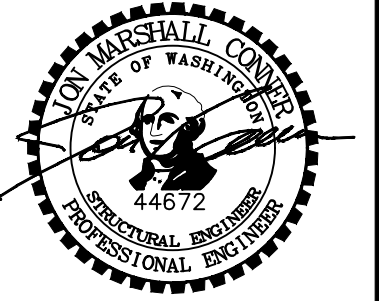
9
S01



GRATE STAIR AND PLATFORM ELEVATION

1/2" = 1'-0"

8
S01



SIGNED: 01/23/2024

**CITY OF MERCER ISLAND
BOOSTER PUMP STATION UPGRADES**



PROPOSED STRUCTURAL

NO.	DATE	DESCRIPTION	BY	REVIEW

JOB NO.: 21-0228

ENGINEER: MCCB

CLIENT: M-I

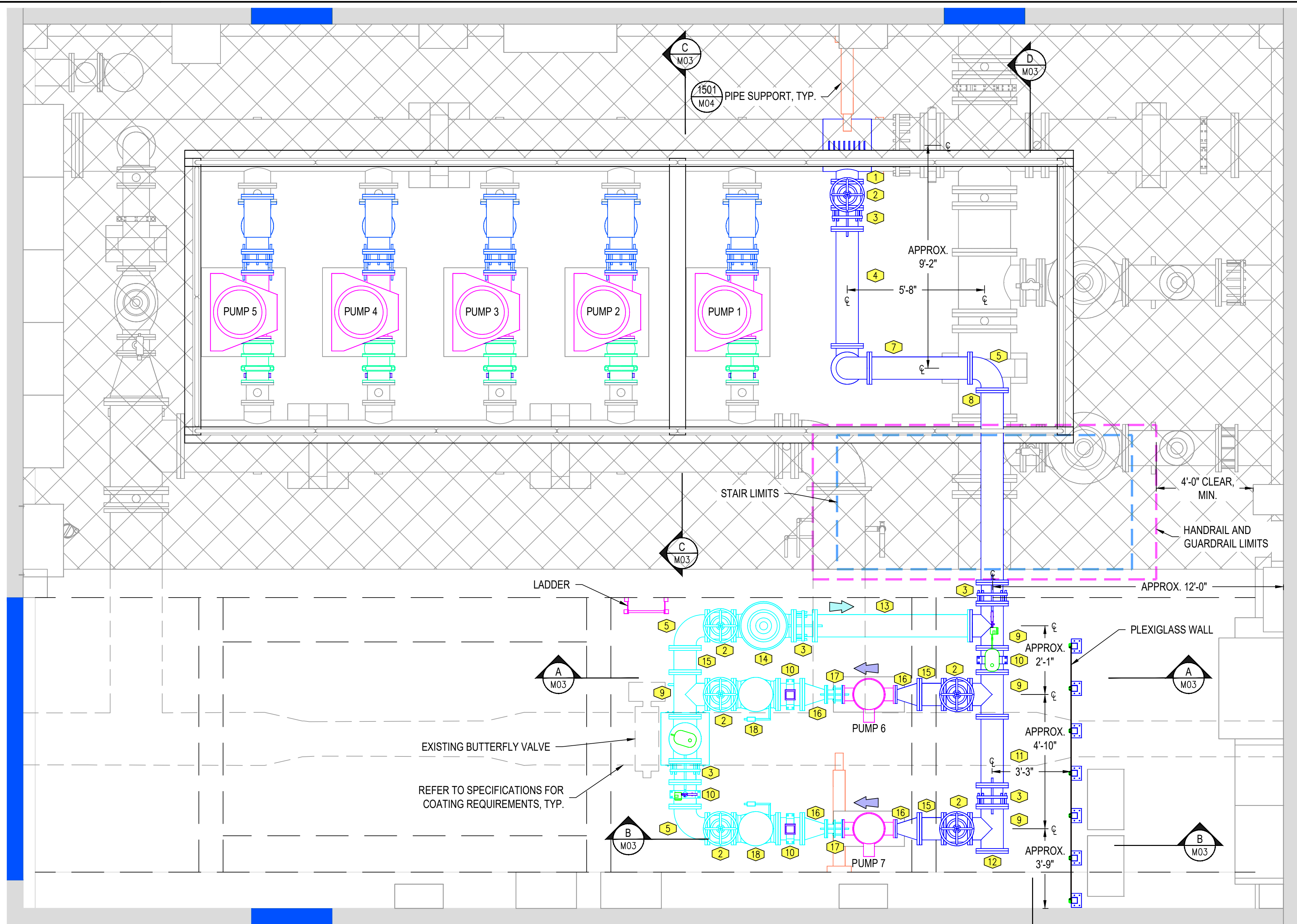
REVIEWER: EH

DATE:

DWG NO.: S01

SHEET NO.: 04

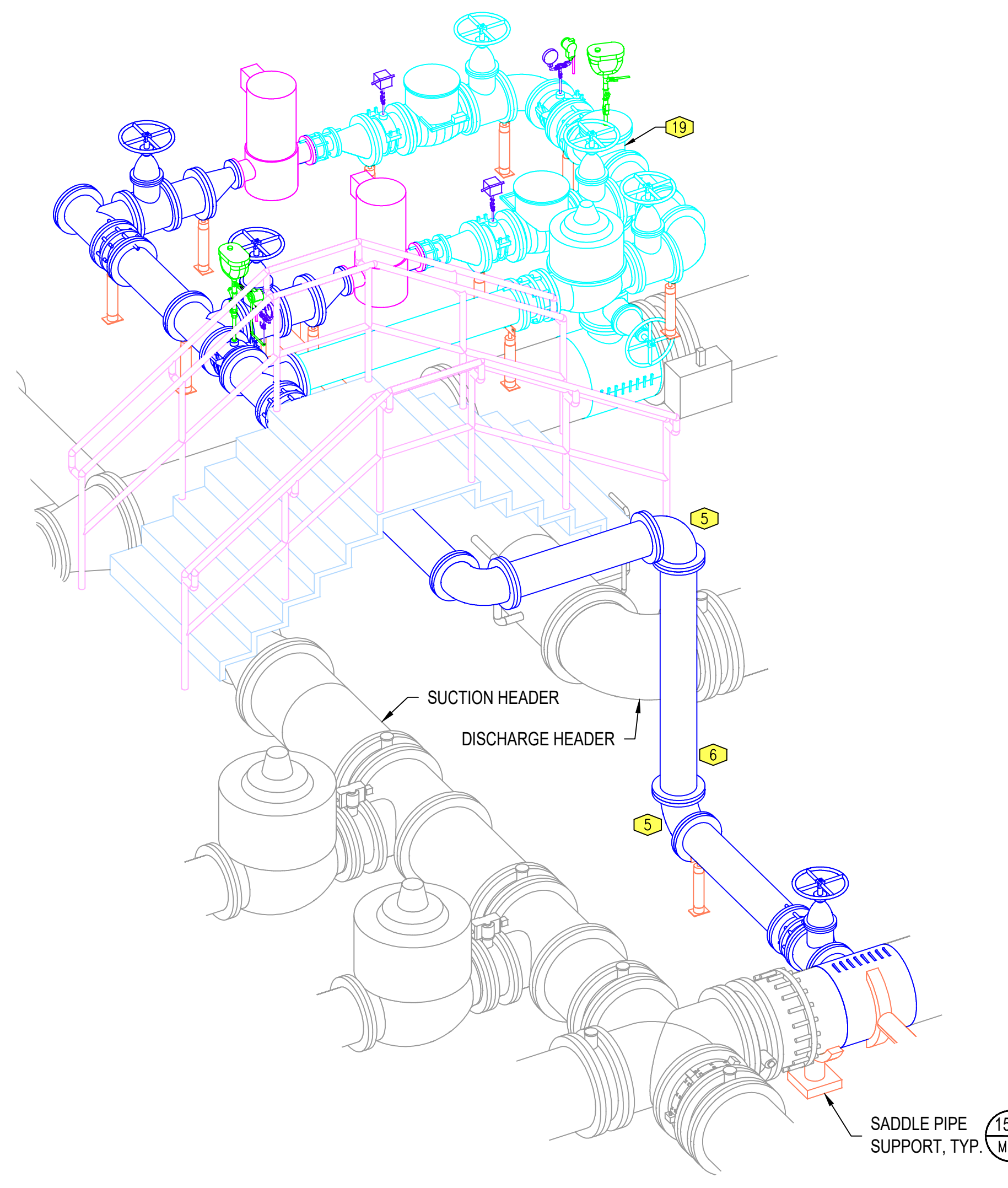
12



PROPOSED MECHANICAL PLAN
 $\frac{3}{8}" = 1'-0"$

MECHANICAL FITTING LEGEND		
1 24"x10" TAPPING TEE	8 10" DI SPOOL (FLxFL), LENGTH 7'-11"	14 10" CONTROL VALVE (FLxFL)
2 10" GATE VALVE (FLxFL)	9 10" DI TEE (FLxFL)	15 10" DI SPOOL (FLxFL), LENGTH 1'-0"
3 10" DISMANTLING JOINT, INSTALL AT NOMINAL LAY LENGTH	10 10" DI SPOOL (FLxFL), LENGTH 1'-0" WITH 10" TAPPING SADDLE CENTERED ON SPOOL	16 10"x4" DI ECCENTRIC REDUCER (FLxFL)
4 10" DI SPOOL (FLxFL), LENGTH 4'-10"	11 10" DI SPOOL (FLxFL), LENGTH 2'-10"	17 4" DISMANTLING JOINT, INSTALL AT NOMINAL LAY LENGTH
5 10" DI 90° BEND (FLxFL)	12 10" DI BLIND FLANGE	18 10" SWING CHECK VALVE (FLxFL)
6 10" DI SPOOL (FLxFL), LENGTH 7'-1"	13 10" DI SPOOL (FLxFL), LENGTH 6'-5"	19 10" DI CROSS (FLxFL)
7 10" DI SPOOL (FLxFL), LENGTH 4'-2"		

NOTE: SEE DWG NO. M03 FOR PIPES AND FITTINGS NOT CALLED OUT THIS SHEET.



PROPOSED PUMP 6 AND 7 MECHANICAL OBLIQUE VIEW
 NOT TO SCALE

NOTE: STRUCTURAL ELEMENTS SUCH AS WALLS AND FLOORS NOT SHOWN FOR CLARITY.

RH2

SIGNED: 01/23/2024

SIGNED: 01/23/2024

CITY OF MERCER ISLAND
BOOSTER PUMP STATION UPGRADES

PROPOSED MECHANICAL PLAN

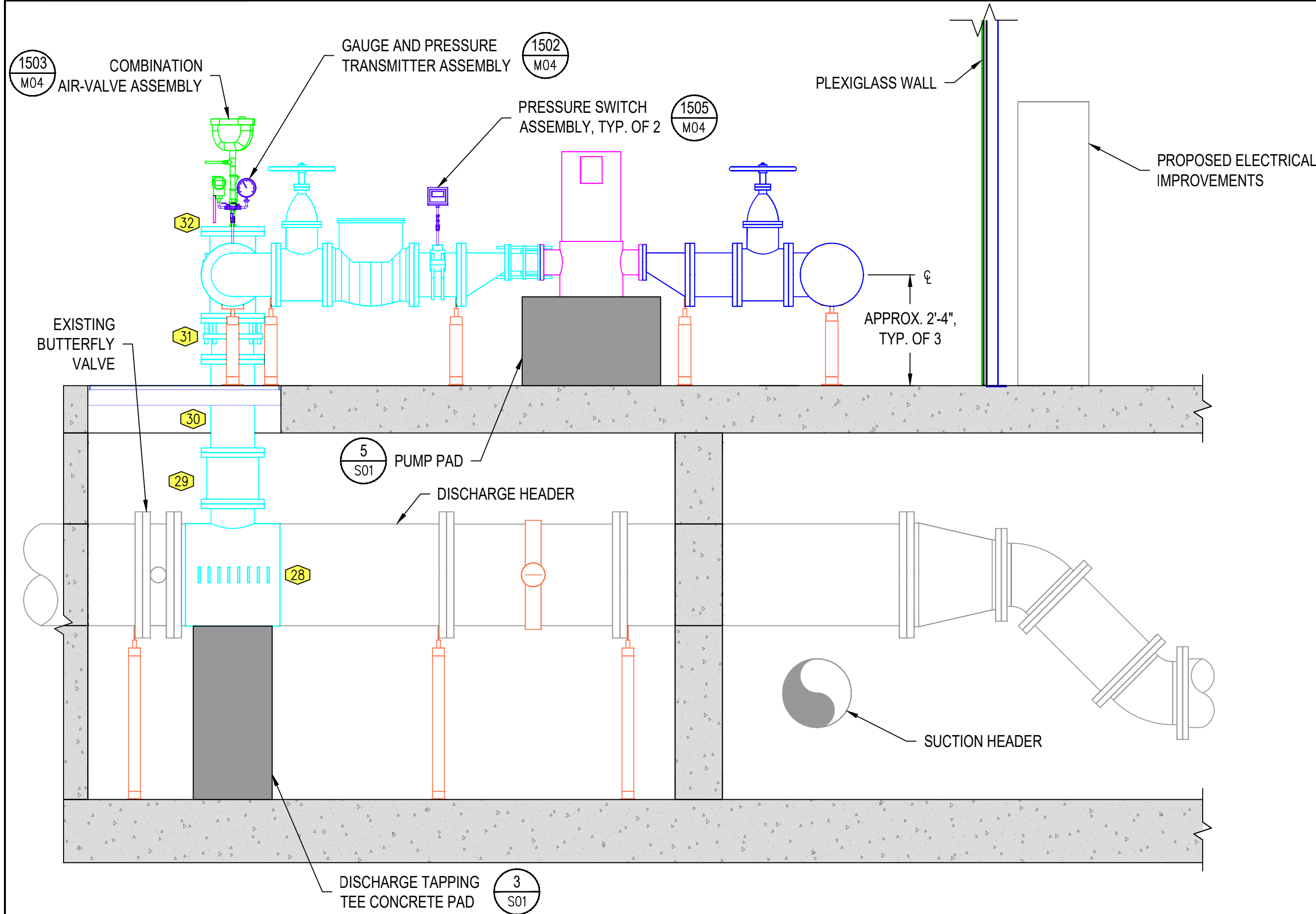
REVISIONS	
NO.	DESCRIPTION

ENGINEER: MCCB SWF/DATE: Jan 22, 2024 CLIENT: M-I JOB NO.: 21-0228
 REVIEWED: EH PLOT DATE: Jan 22, 2024 FILENAME: MBPS-D-MEC02.DWG

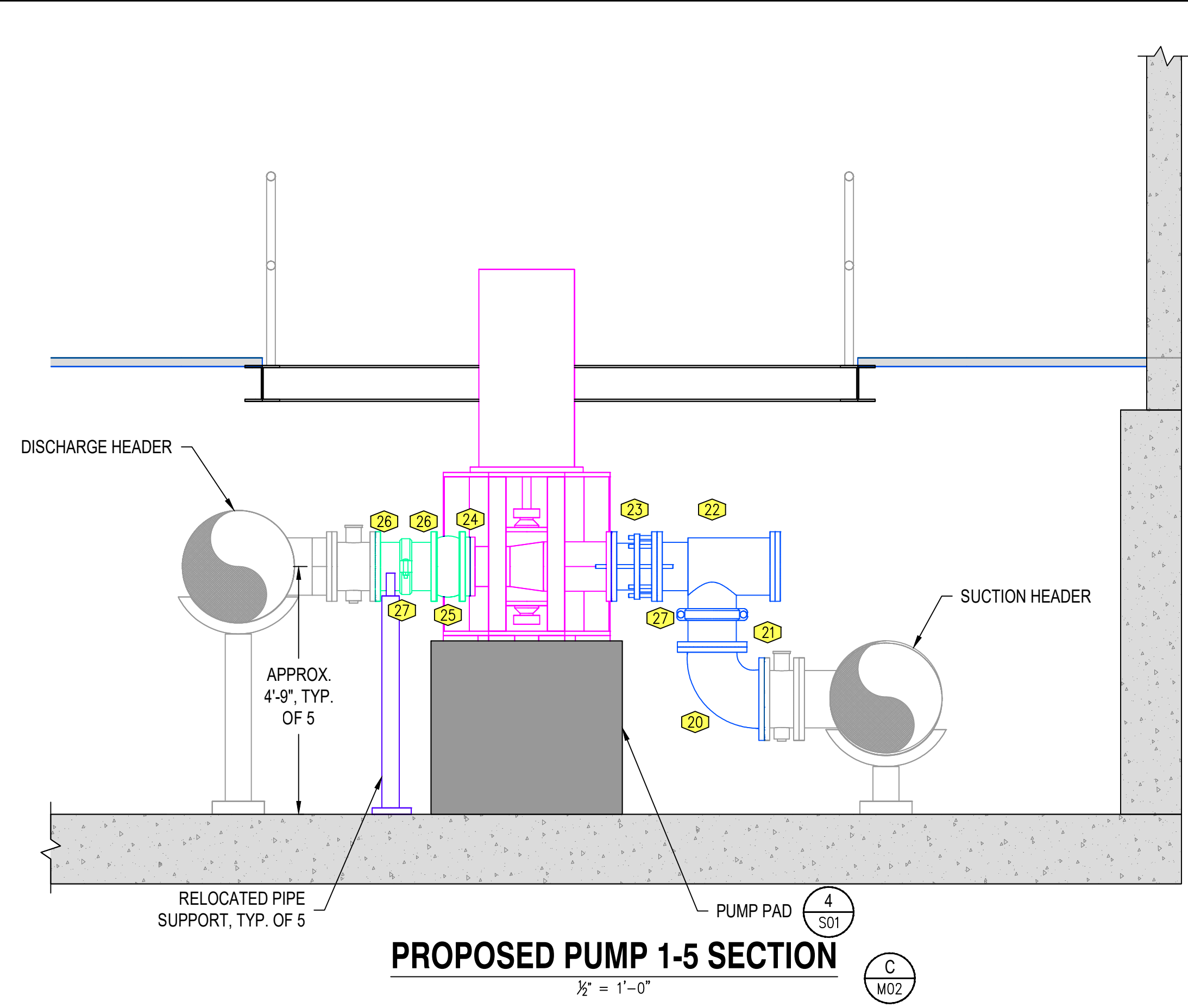
SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

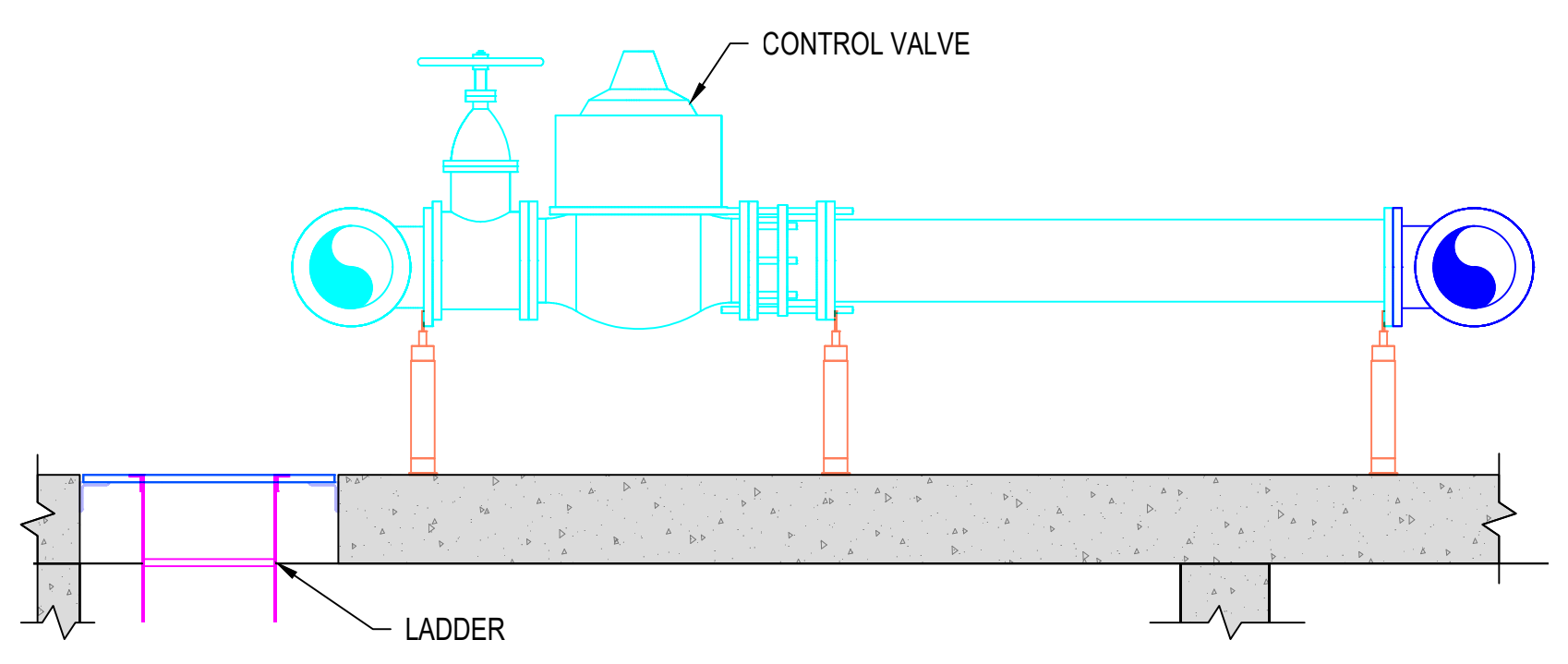
DWG NO.: M02 SHEET NO.: 05 12



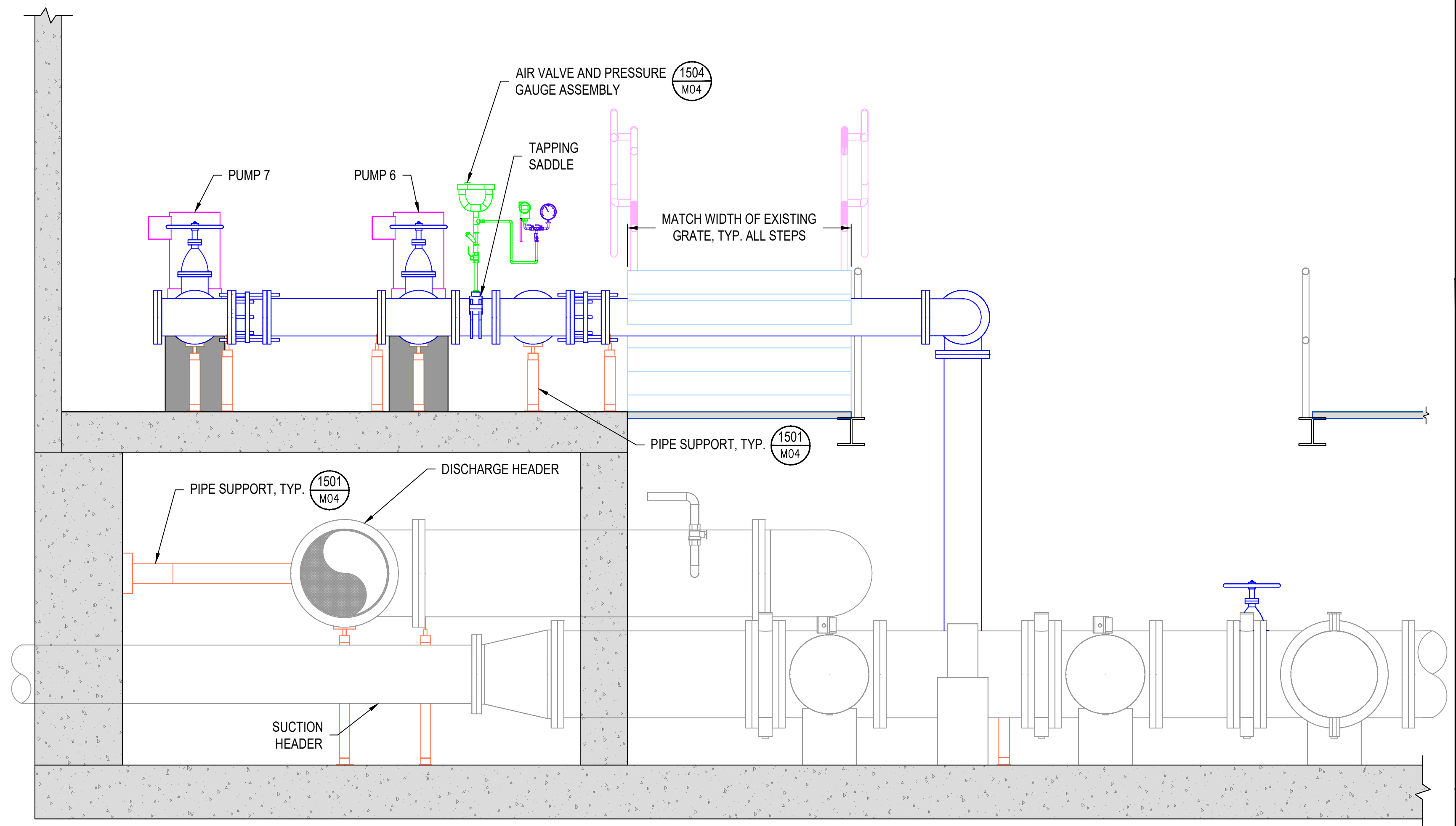
PROPOSED MECHANICAL SECTION B
M02
1/2" = 1'-0"



PROPOSED PUMP 1-5 SECTION C
M02
1/2" = 1'-0"



PROPOSED MECHANICAL SECTION A
M02
1/2" = 1'-0"



PROPOSED MECHANICAL SECTION D
M02
1/2" = 1'-0"

MECHANICAL FITTING LEGEND

- | | | |
|---|--|---|
| 20 12"x10" DI REDUCING 90° BEND (FLxFL) | 24 10"x8" DI SPACE SAVER FLANGE REDUCER | 28 24"x10" TAPPING TEE |
| 21 10" DI SPOOL (FLxGR), LENGTH 0'-7 1/2" | 25 10" WAFER STYLE DUAL DISC CHECK VALVE | 29 10" GATE VALVE (FLxFL) |
| 22 10" SUCTION DIFFUSER (GRxFL) | 26 10" DI SPOOL (FLxGR), LENGTH 0'-7" | 30 10" DI SPOOL (FLxFL), LENGTH 2'-0" |
| 23 10" DISMANTLING JOINT, INSTALL AT NOMINAL LAY LENGTH | 27 10" VICTAULIC COUPLING | 31 10" DISMANTLING JOINT, INSTALL AT NOMINAL LAY LENGTH |
| | | 32 10" DI BLIND FLANGE WITH 2" THREADED TAP |

NOTE: SEE DWG NO. M02 FOR PIPES AND FITTINGS NOT CALLED OUT THIS SHEET.





SIGNED: 01/23/2024



SIGNED: 01/23/2024

CITY OF MERCER ISLAND
BOOSTER PUMP STATION UPGRADES

PROPOSED MECHANICAL SECTIONS

NO.	DATE	DESCRIPTION	BY	REVIEW

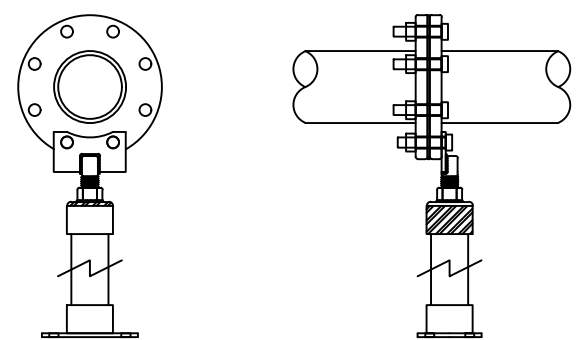
ENGINEER: MCCB CLIENT: M-I JOB NO.: 21-0228
 REVIEWED: EH FILENAME: MBPS-D-MEC02.DWG

SCALE: SHOWN

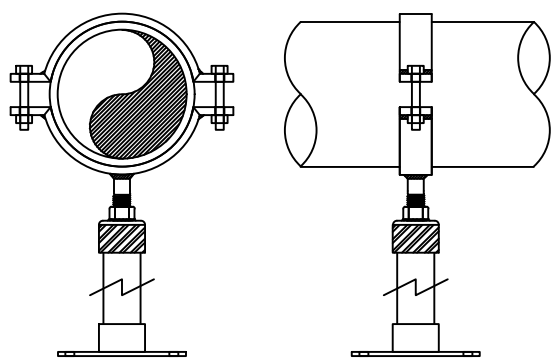


DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

DWG NO.: **M03** SHEET NO.: **06** 12



TYPE A - FLANGE SUPPORT
(TYP. AT VALVES, METERS, AND FITTINGS)

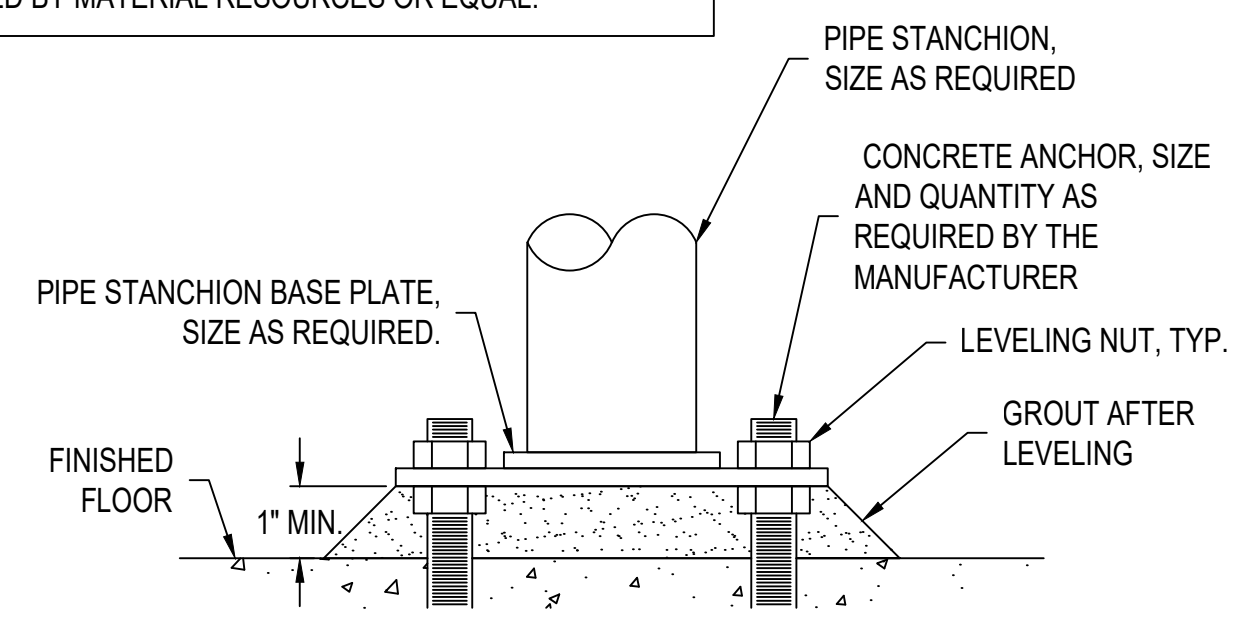


TYPE C - SADDLE CLAMP SUPPORT
(TYP. AT PIPING)

PIPE SUPPORT DETAIL
NOT TO SCALE

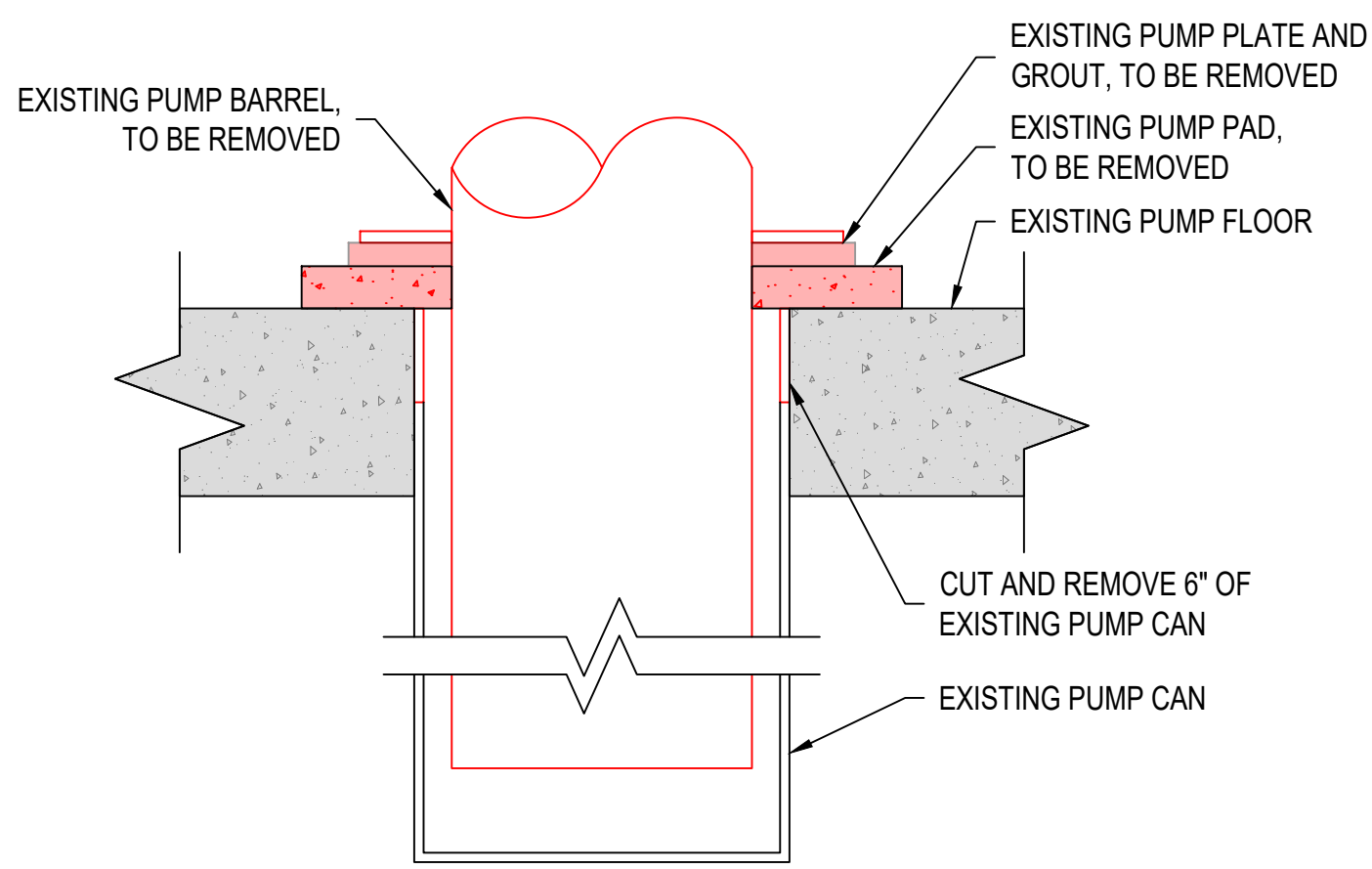
1501

NOTES:
 • CONTRACTOR SHALL PROVIDE SUPPORTS AS NEEDED TO SECURE PIPING SYSTEM IN NORMAL AND TEST OPERATING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR DESIGN OF THE NECESSARY PIPE SUPPORTS, HANGERS AND SEISMIC BRACING. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. SUBMIT DESIGN WITH PIPING PLAN.
 • SADDLE AND SADDLE CLAMP SUPPORTS SHALL BE "STANDON" BRAND AS MANUFACTURED BY MATERIAL RESOURCES OR EQUAL.

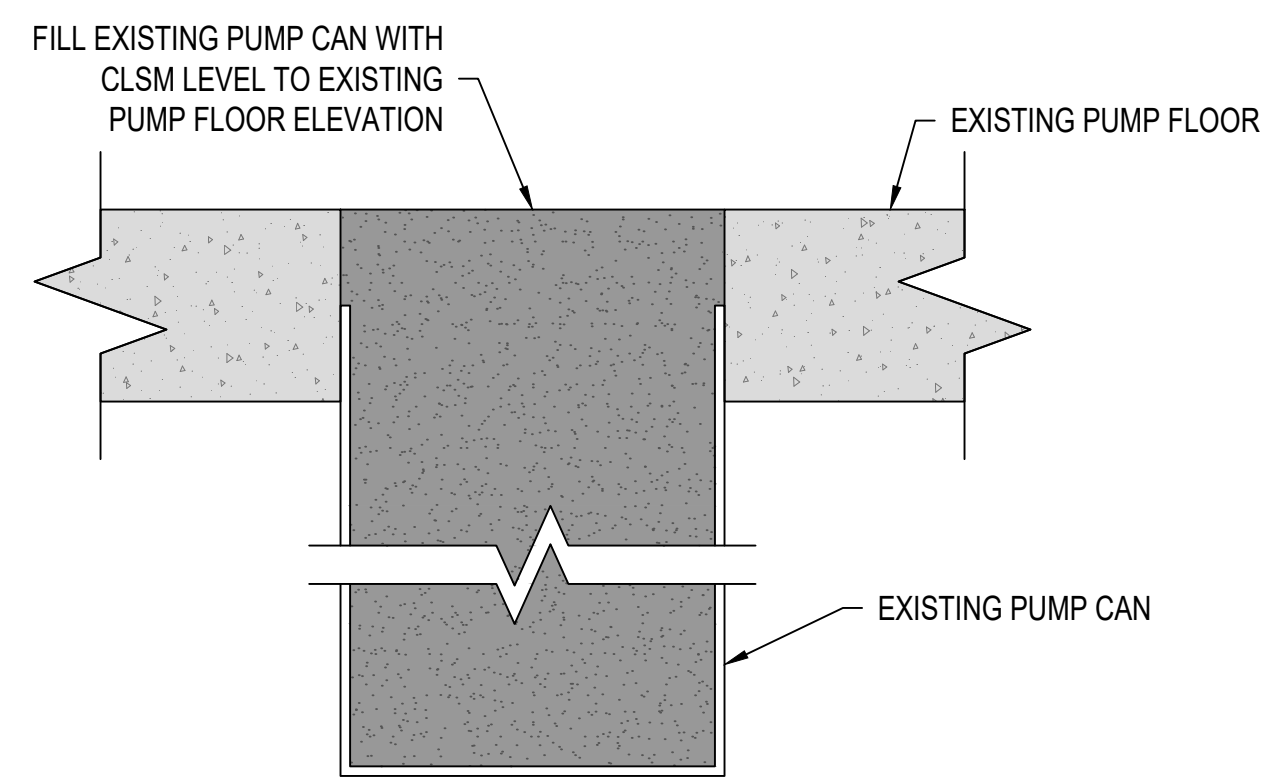


PIPE STANCHION DETAIL
NOT TO SCALE

NOT TO SCALE



PUMP CAN DEMOLITION

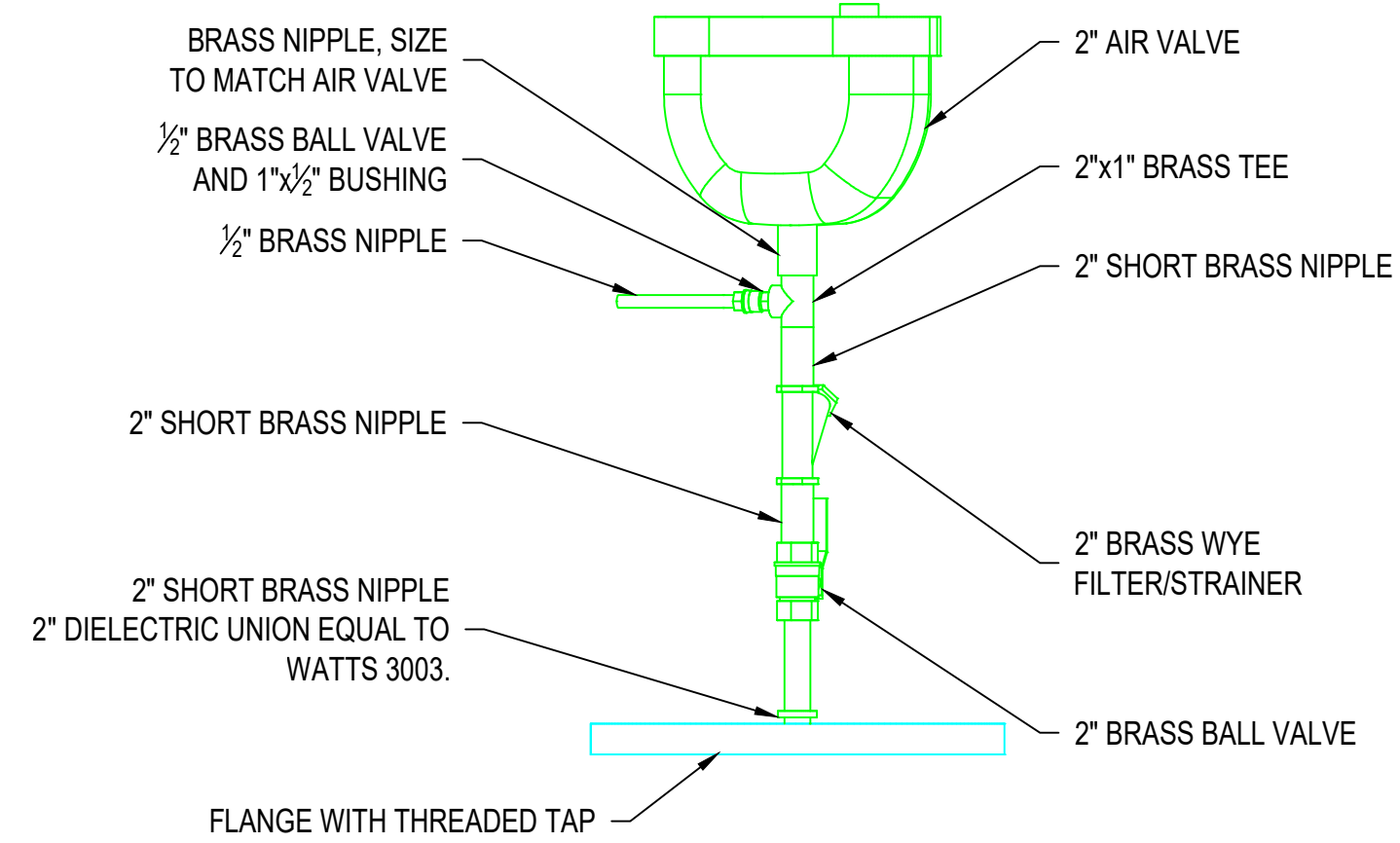


PUMP CAN ABANDONMENT

PUMP CAN ABANDONMENT DETAIL

NOT TO SCALE

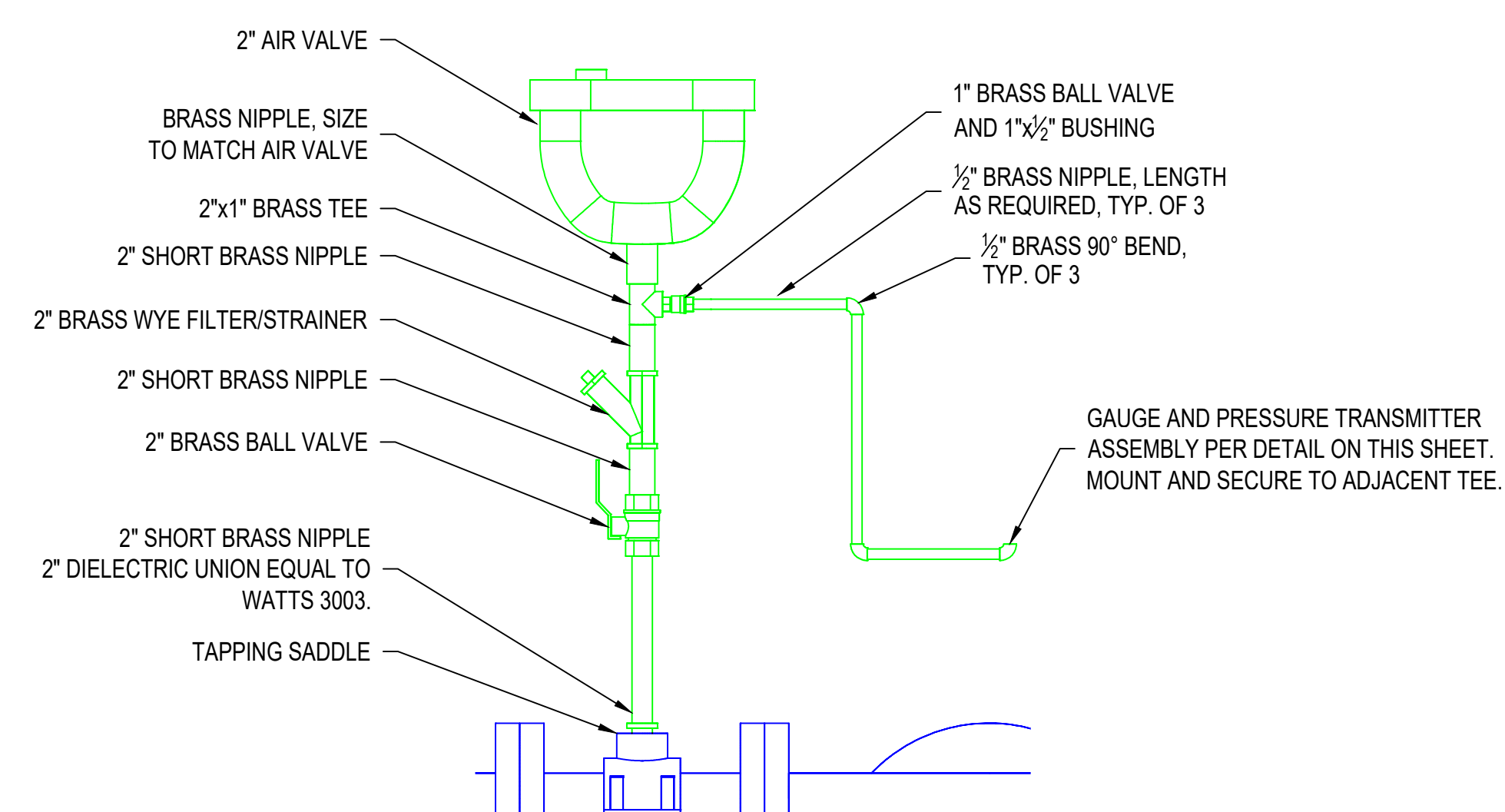
1506



COMBINATION-AIR VALVE ASSEMBLY

NOT TO SCALE

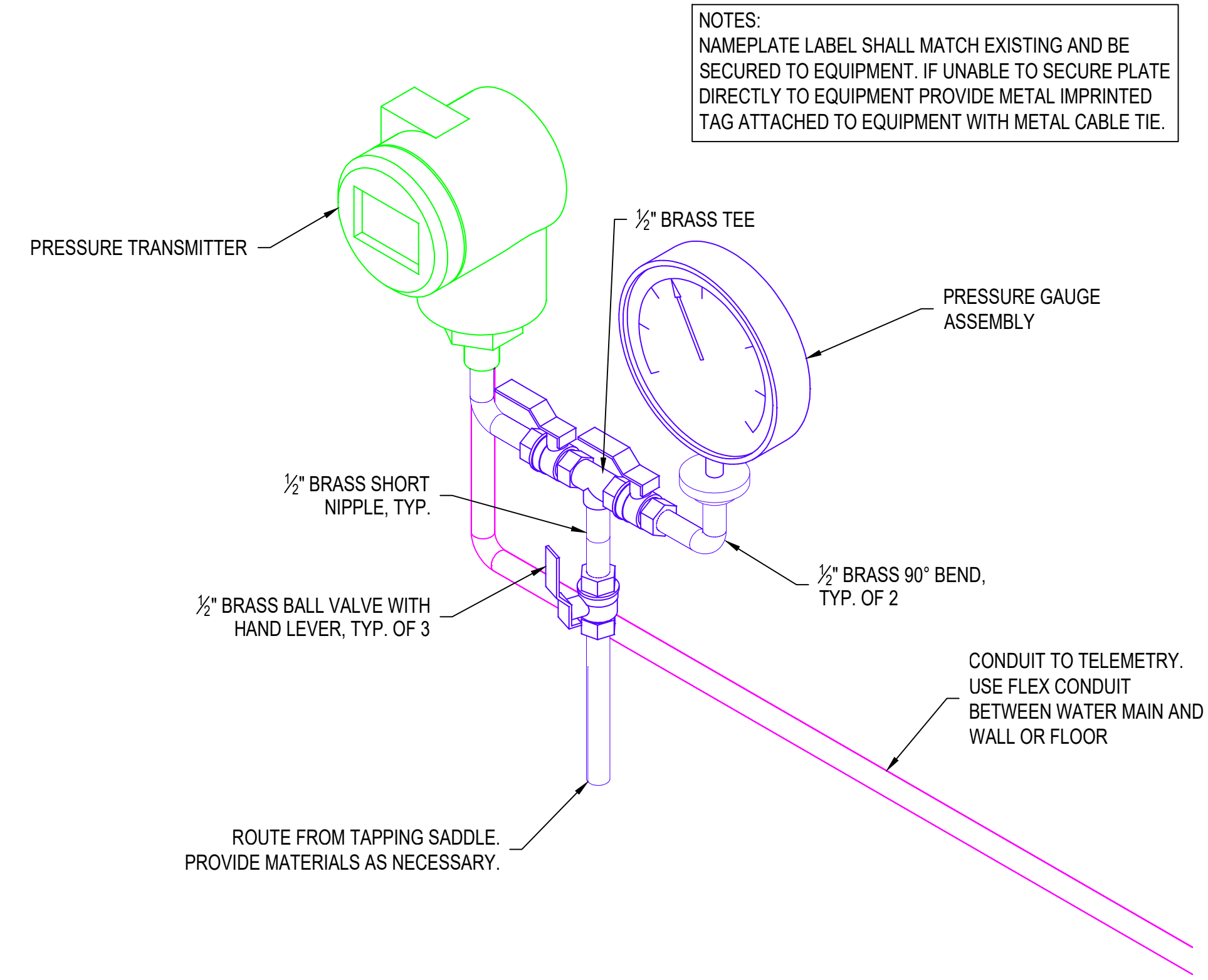
1503



AIR VALVE & PRESSURE GAUGE ASSEMBLY

NOT TO SCALE

1504

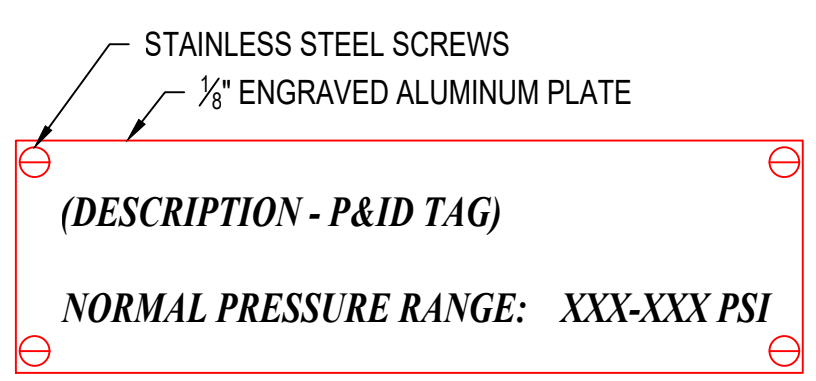


GAUGE AND PRESSURE TRANSMITTER ASSEMBLY

NOT TO SCALE

1502

NOTES:
 NAMEPLATE LABEL SHALL MATCH EXISTING AND BE SECURED TO EQUIPMENT. IF UNABLE TO SECURE PLATE DIRECTLY TO EQUIPMENT PROVIDE METAL IMPRINTED TAG ATTACHED TO EQUIPMENT WITH METAL CABLE TIE.



NOTE: SEE SPECIFICATIONS FOR DESCRIPTION, P&ID TAG, AND PRESSURE RANGE INFO

IDENTIFICATION AND CALIBRATION PLATE DETAIL



**CITY OF MERCER ISLAND
 BOOSTER PUMP STATION UPGRADES**

MECHANICAL DETAILS 1



NO.	DATE	DESCRIPTION	BY	REVIEW

ENGINEER: MCCB	DATE: Jan 22, 2024	SW: M-I	FILENAME: MBPS-D-MEC03.DWG	JOB NO.: 21-0228
REVIEWER: EH	DATE: Jan 22, 2024			

SCALE: SHOWN
 0" 1" 2"
 DRAWING IS FULL SCALE WHEN BAR MEASURES 2"
 DWG NO.: M04 SHEET NO.: 07 12

ONE-LINE DIAGRAM SYMBOLS

Table of symbols for one-line diagrams including circuit breaker, fuse, motor starter, transformer, and various meters.

GROUNDING SYSTEM SYMBOLS

Table of symbols for grounding systems including ground, metal pipe ground, and ground rods.

ELECTRICAL SITE PLAN SYMBOLS

Table of symbols for electrical site plans including utility poles, manholes, vaults, and transformers.

PANELBOARDS, SWITCHES, AND EQUIPMENT

Table of symbols for panelboards, switches, and equipment including service entrance, surface mounted panelboard, and equipment mounting stand.

RECEPTACLES AND JUNCTION BOX SYMBOLS

Table of symbols for receptacles and junction boxes including ceiling, wall, and floor junction boxes, and various receptacles.

SWITCH OUTLETS

Table of symbols for switch outlets including standard, 3-way, and 3-position switches, and dimmers.

LIGHTING FIXTURES/DEVICES

Table of symbols for lighting fixtures including fluorescent, wall/ceiling mounted, and emergency lights.

FIRE SYSTEM SYMBOLS

Table of symbols for fire systems including heat detector, smoke detector, and fire alarm devices.

ADDITIONAL SYMBOLS

Table of additional symbols including sound system speaker, volume control, and doorbell.

VALVE SYMBOLS

Table of symbols for valves including pilot valve solenoid, valve, check valve, and control valve.

ABBREVIATIONS

Table of abbreviations for electrical symbols including SPDT, DPST, WP, GFI, P, C, J, PC, CJ, CKT., C.O., N.L., AL., CU., HOA, RTM, OC, MRIL, SFIL, SFTR, OTIL, MOIL.

INDICATE TYPE BY LETTER

Table of symbols for indicating type by letter including V, AH, A, AH, VAR, VARH, PF, V, VA, W, WH.

RACEWAY LEGEND

Table of symbols for raceway legends including proposed power, telephone, instrumentation, and fiber optics.

BUILDING OR FACILITY PLAN LEGEND

Table of symbols for building or facility plan legends including 480V and 120V/208V/240V raceways, control lines, and conduit types.

ONE-LINE DIAGRAM INFORMATION

Table of symbols for one-line diagram information including existing and proposed equipment, grounding, and removal.

LADDER LOGIC SYMBOL LEGEND

Table of symbols for ladder logic including indicator lights, limit switches, time delay contacts, relays, pressure switches, and flow switches.

GENERAL NOTES

1. THIS IS A STANDARD LEGEND. NOT ALL OF THE INFORMATION SHOWN ON THIS PAGE WILL APPEAR IN THIS SET OF PLANS.
2. THESE DRAWINGS ARE DIAGRAMMATIC ONLY; EXACT LOCATIONS OF ELECTRICAL EQUIPMENT SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR...
3. NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS IN EQUIPMENT LOCATIONS ARE DISCOVERED OR IF PROBLEMS ARISE DUE TO FIELD CONDITIONS...



SIGNED: 01/23/2024

CITY OF MERCER ISLAND BOOSTER PUMP STATION UPGRADES ELECTRICAL LEGEND

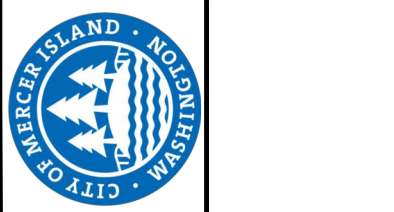


Table for REVISIONS with columns for NO., DATE, DESCRIPTION, BY, and REVIEW.

SCALE: SHOWN

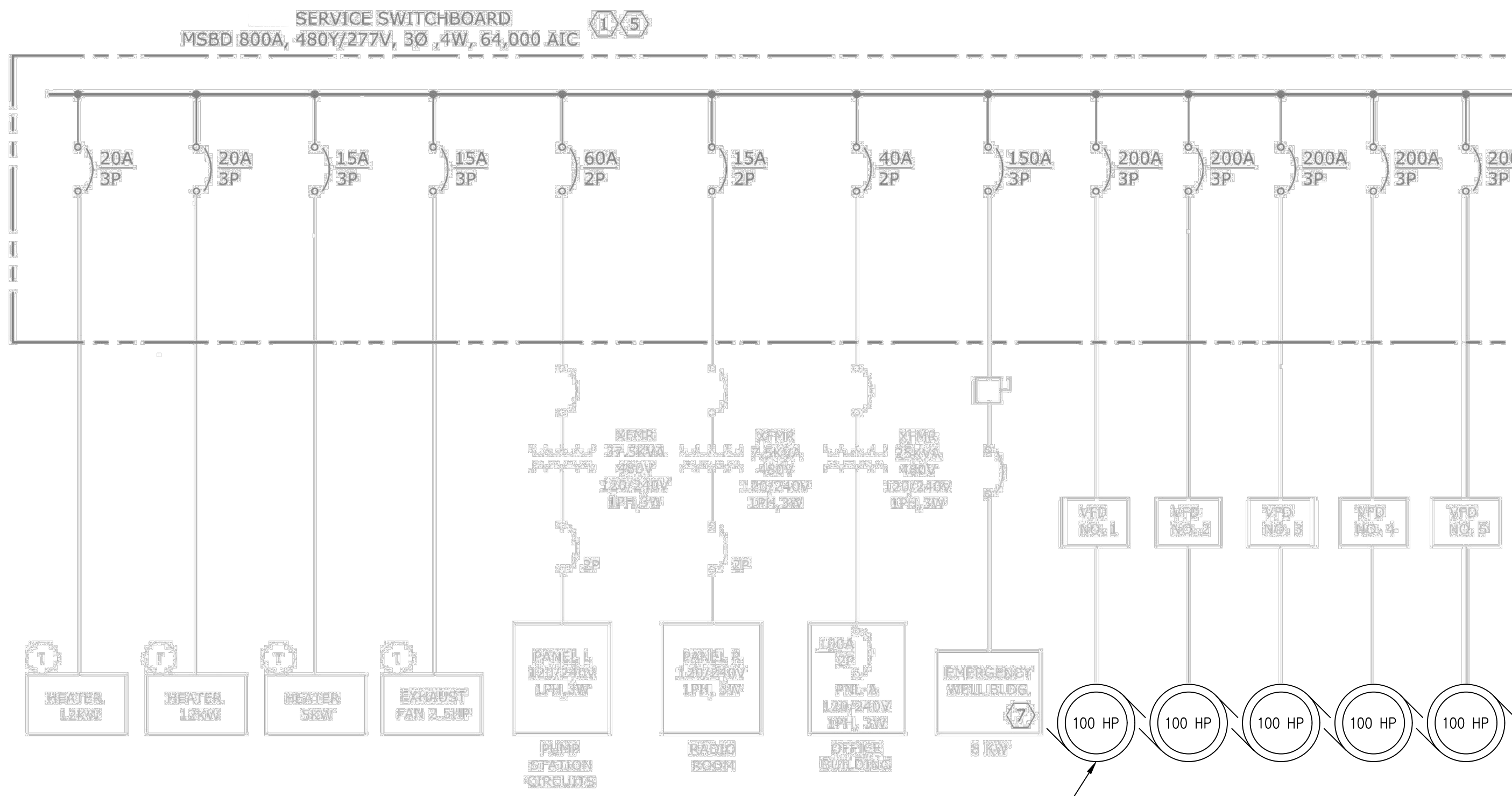
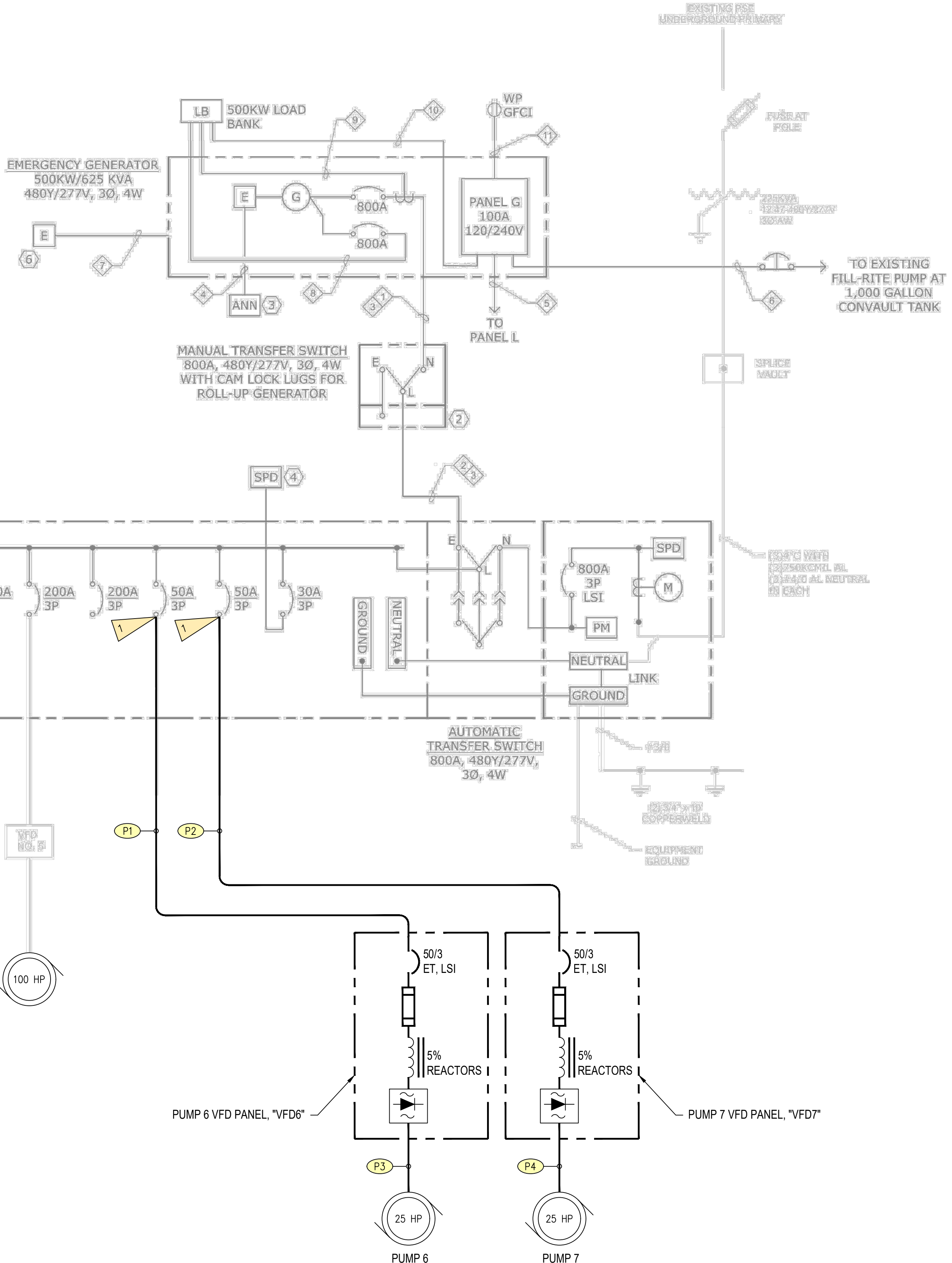
DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

POWER CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
P1	PANEL "MSBD"	PUMP 6 VFD ENCLOSURE	1"	(3) - #8, (1) - #10 GRD	
P2	PANEL "MSBD"	PUMP 7 VFD ENCLOSURE	1"	(3) - #8, (1) - #10 GRD	
P3	PUMP 6 VFD ENCLOSURE	PUMP 6	1"	(3) - #8, (1) - #10 GRD	
P4	PUMP 7 VFD ENCLOSURE	PUMP 7	1"	(3) - #8, (1) - #10 GRD	

CONTROL CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
C1	PUMP 6 VFD ENCLOSURE	PUMP 6 PRESSURE SWITCH	3/4"	(2) - #14, (1) - #14 GRD	
C2	PUMP 7 VFD ENCLOSURE	PUMP 7 PRESSURE SWITCH	3/4"	(2) - #14, (1) - #14 GRD	

INSTRUMENTATION CONDUIT AND CONDUCTOR SCHEDULE					
CIRCUIT	SOURCE	DESTINATION	TRADE SIZE	(QUANTITY) CONDUCTORS	NOTES
J1	PROPOSED TELEMETRY PANEL	PUMP 6 VFD ENCLOSURE	1"	(1) CAT 6E PROFINET CABLE	CONNECT PROFINET CABLE TO EQUIPMENT NETWORK SWITCH 2 IN TELEMETRY PANEL
J2	PROPOSED TELEMETRY PANEL	PUMP 7 VFD ENCLOSURE	1"	(1) CAT 6E PROFINET CABLE	CONNECT PROFINET CABLE TO EQUIPMENT NETWORK SWITCH 2 IN TELEMETRY PANEL
J3	PROPOSED TELEMETRY PANEL	PRESSURE TRANSMITTER 1	3/4"	(1) 2-CONDUCTOR SHIELD CABLE	
J4	PROPOSED TELEMETRY PANEL	PRESSURE TRANSMITTER 2	3/4"	(1) 2-CONDUCTOR SHIELD CABLE	

ELECTRICAL EQUIPMENT AND INSTRUMENTATION SCHEDULE			
ITEM	DESCRIPTION	MANUFACTURER	MODEL NO.
A	PRESSURE SWITCH	SEE SPECIFICATIONS	SEE SPECIFICATIONS
B	PRESSURE TRANSMITTER	SEE SPECIFICATIONS	SEE SPECIFICATIONS



CONTRACTOR SHALL DISCONNECT EXISTING MOTOR AND RE-CONNECT TO PROPOSED MOTOR, TYP. OF 5.

ELECTRICAL NOTES	
1	1. CONTRACTOR SHALL CONNECT PROPOSED CONDUCTORS TO EXISTING CIRCUIT BREAKER, TYP. OF 2.
XX	2. SEE THIS SHEET FOR CONDUIT AND CONDUCTOR SCHEDULE.

ONE-LINE DIAGRAM
NOT TO SCALE

NO.	DATE	DESCRIPTION	BY	REVIEW

REVISIONS

SCALE: SHOWN

DRAWING IS FULL SCALE WHEN BAR MEASURES 2"

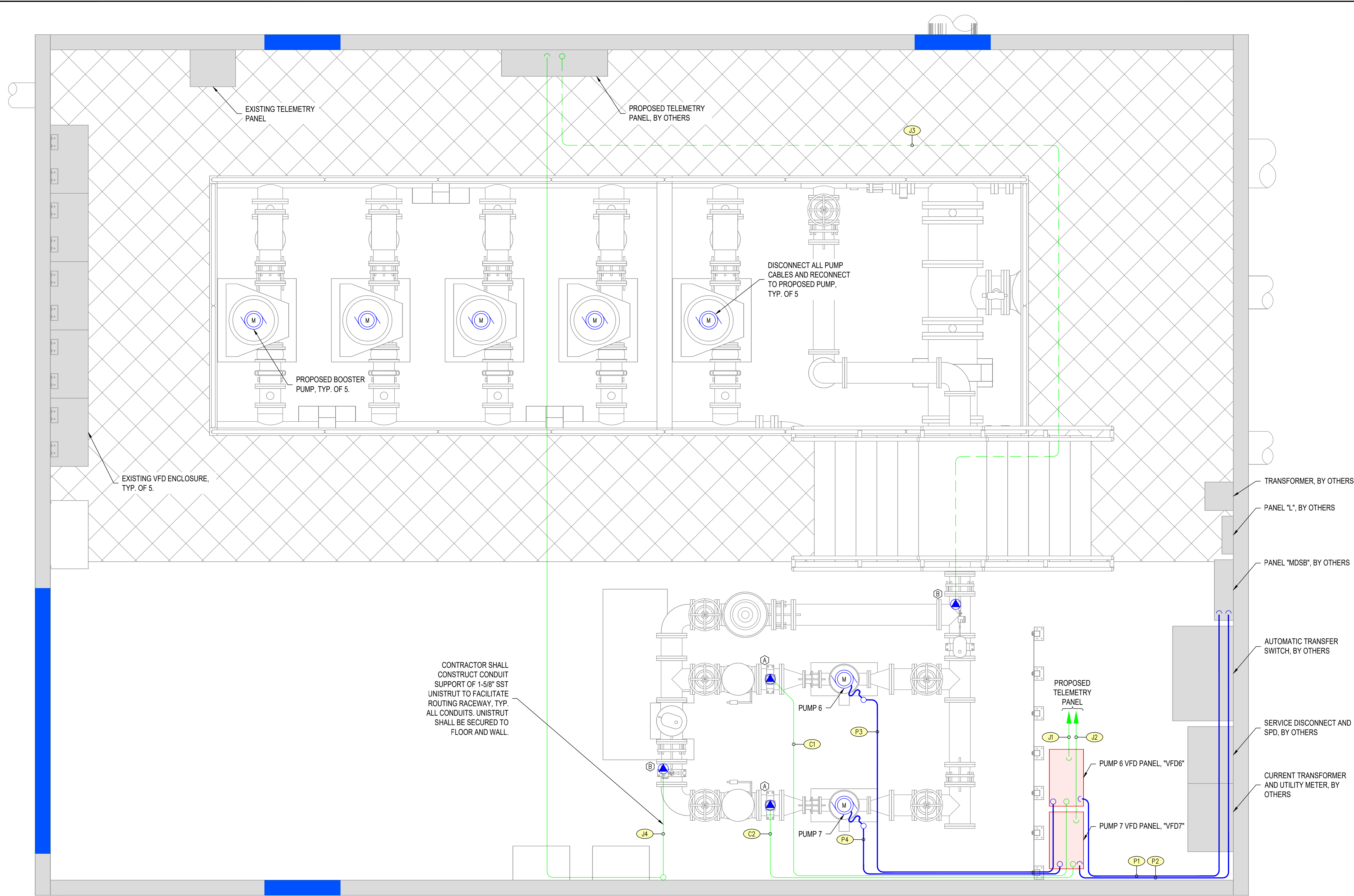
DWG NO.: E02 SHEET NO.: 09 12

ENGINEER: BPC
CLIENT: M-I
DATE: Jan 22, 2024
FILENAME: MBPS-D-ELEC02.DWG

**CITY OF MERCER ISLAND
BOOSTER PUMP STATION UPGRADES**



ELECTRICAL PLAN



ELECTRICAL NOTES

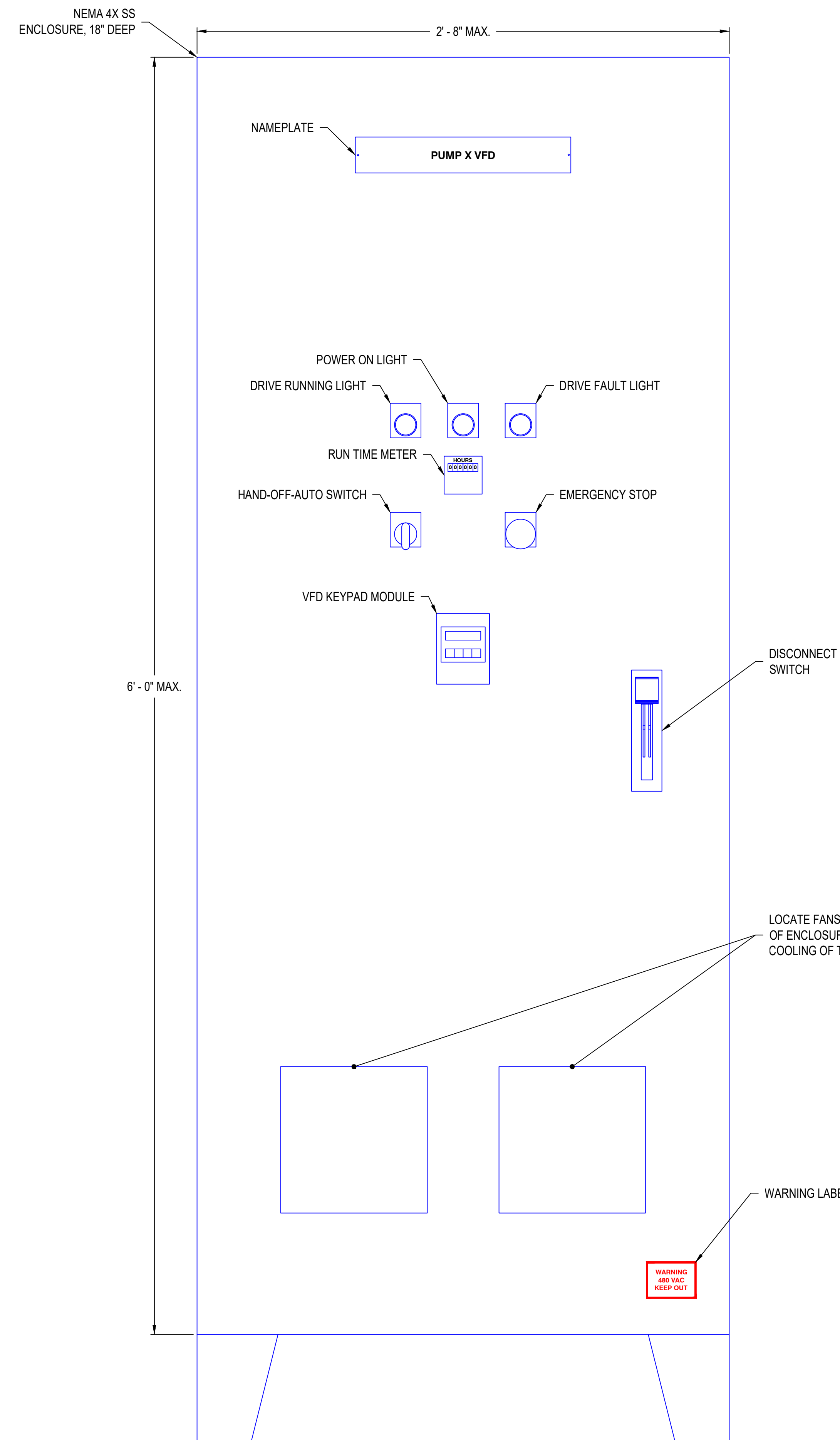
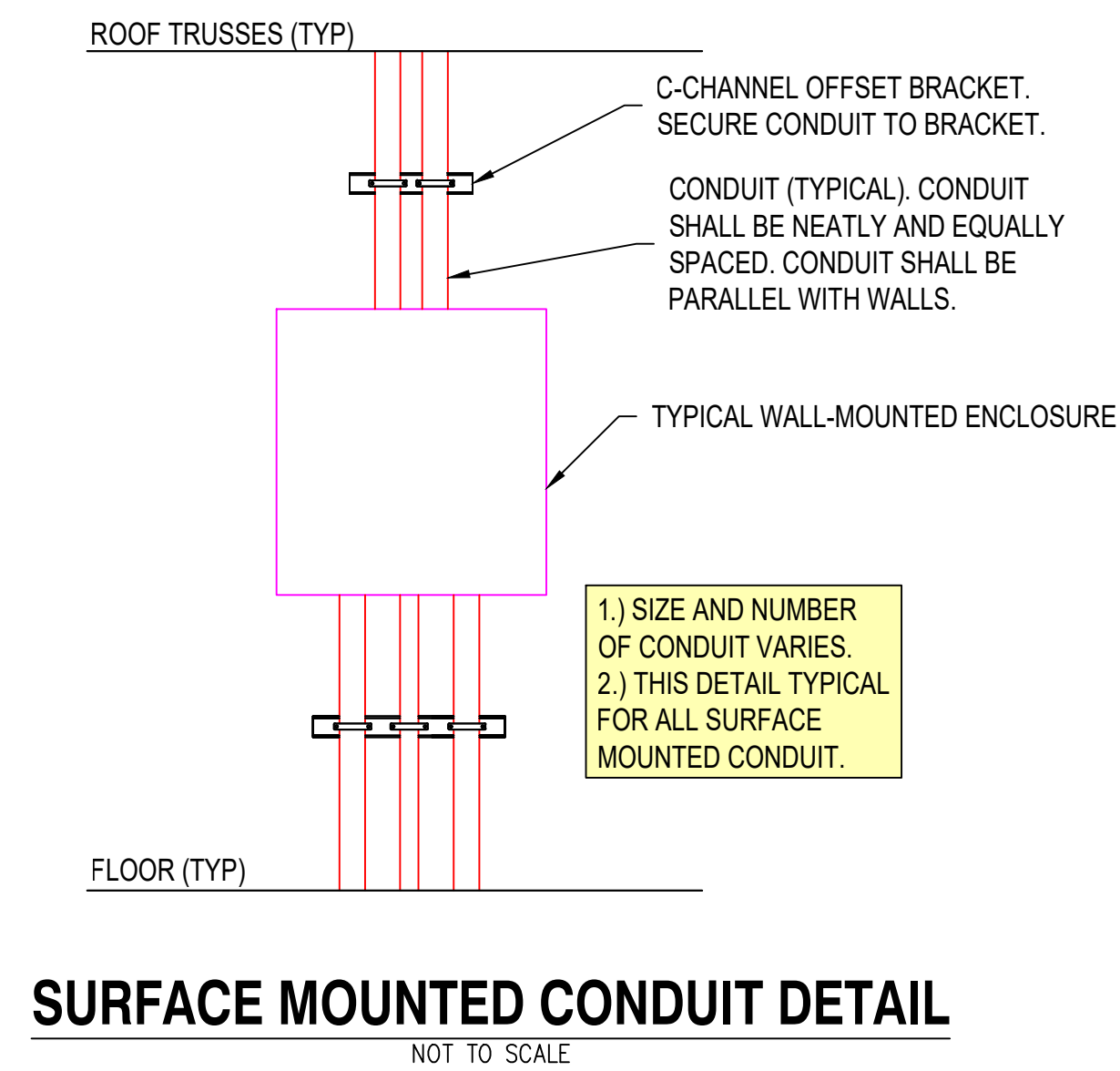
- XX 1. SEE DWG NO. E02 FOR CONDUIT AND CONDUCTOR SCHEDULE.
- ⊗ 2. SEE DWG NO. E02 FOR EQUIPMENT SCHEDULE.

ELECTRICAL PLAN
1/2" = 1'-0"



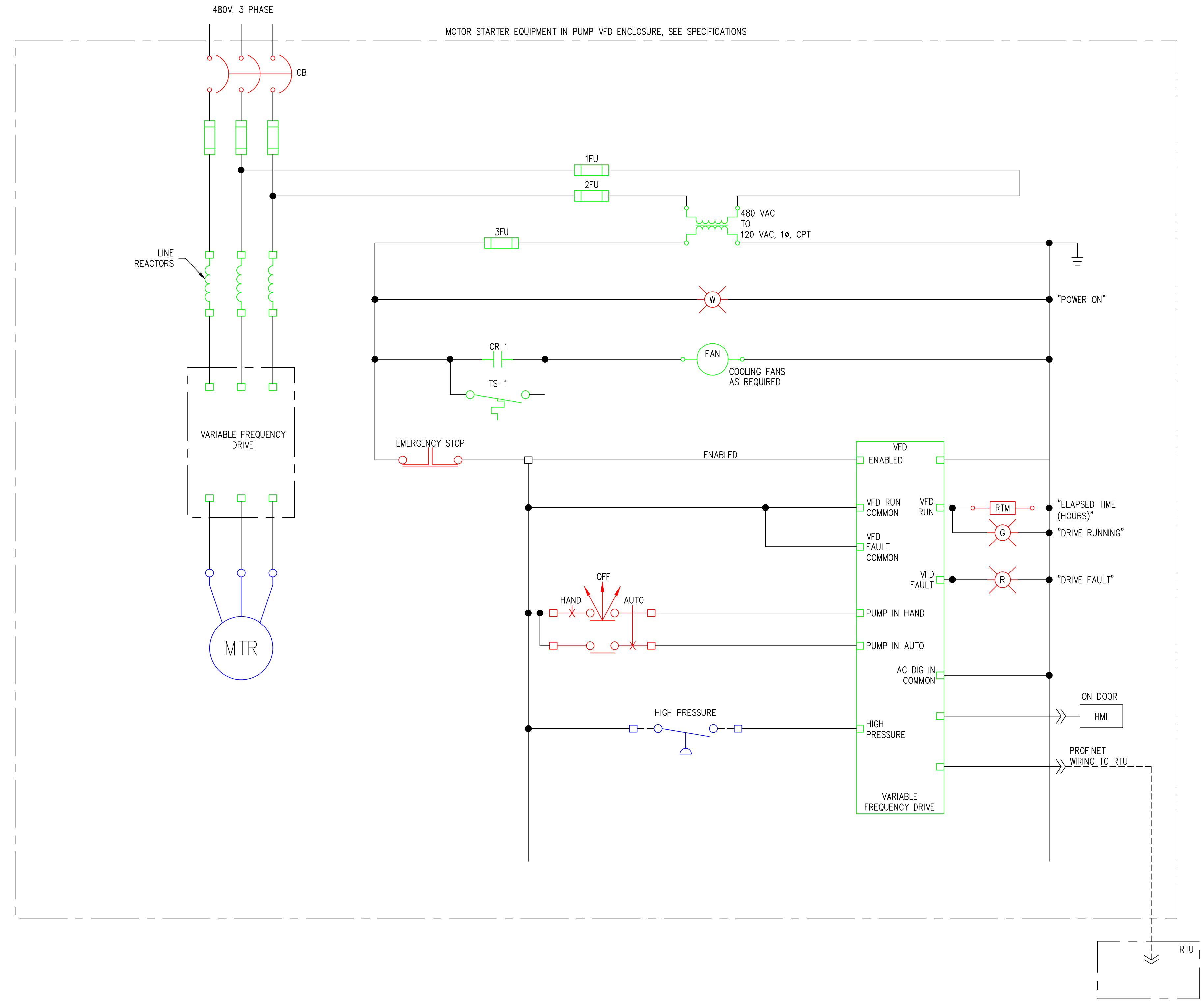
NO.	DATE	DESCRIPTION	BY	REVIEW
REVISIONS				

ENGINEER: BPC
 REVIEWED: MWB
 SWG DATE: Jan 22, 2024
 PLOT DATE: Jan 22, 2024
 CLIENT: M-I
 FILENAME: MBPS-ELE03.DWG
 JOB NO.: 21-0228
 SCALE: SHOWN
 DRAWING IS FULL SCALE WHEN BAR MEASURES 2"
 DWG NO.: E03
 SHEET NO.: 10
 12



NO.	DATE	DESCRIPTION	BY	REVIEW

ENGINEER: BPC	DATE: Jan 22, 2024	CLIENT: M-I	JOB NO.: 21-0228
REVIEWED: MWB	PLOT DATE: Jan 22, 2024	FILENAME: MBPS-D-ELEC04.DWG	
REVISIONS			
DWG NO.:	E04	SHEET NO.:	11
SCALE: SHOWN			12



VFD CONTROL LOGIC, TYP.
NO SCALE

**CITY OF MERCER ISLAND
BOOSTER PUMP STATION UPGRADES**



CONTROL LOGIC DIAGRAM

NO.	DATE	DESCRIPTION	BY	REVIEW

ENGINEER: BPC	DATE: Jan 22, 2024	CLIENT: M-I	JOB NO.: 21-0228
REVIEWER: MWB	DATE: Jan 22, 2024	FILENAME: MBPS-D-ELECC05.DWG	
REVISIONS			
DWG NO.: E05	SHEET NO.: 12	SCALE: SHOWN	