

City of Taunton, Massachusetts

Main Lift Pump Station Improvements

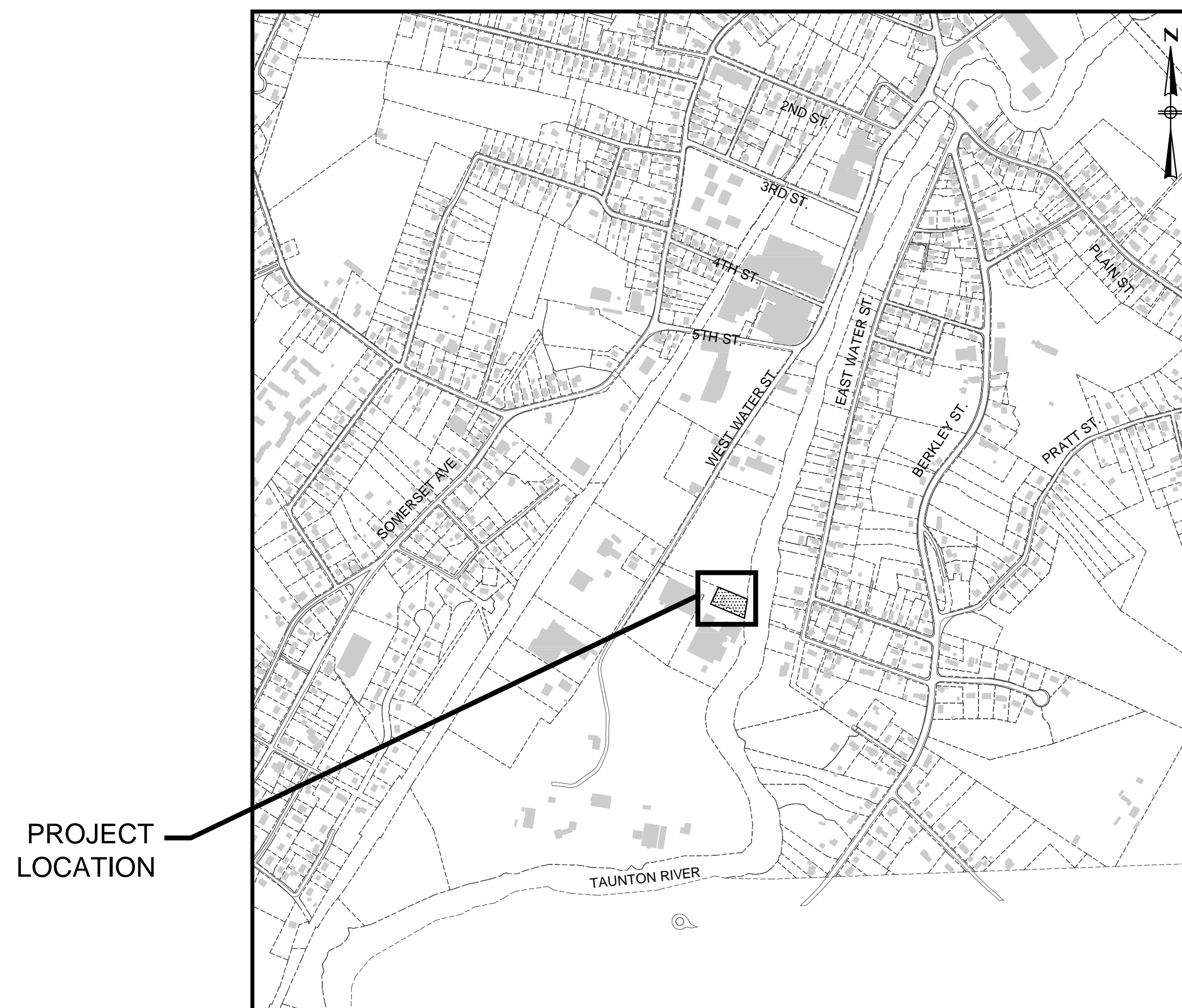
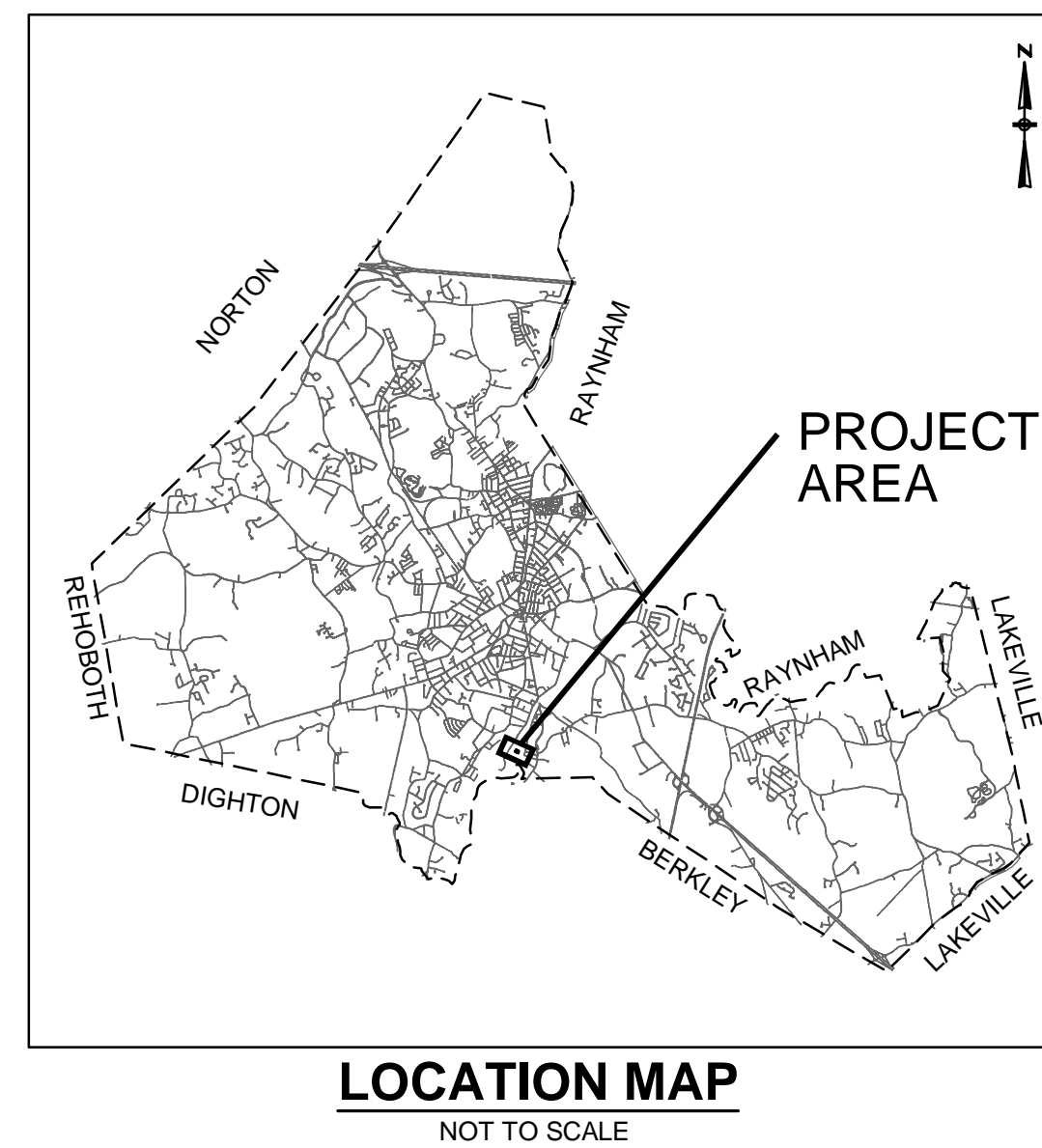


Mayor
Shaunna O'Connell

Department of Public Works
Frederic J. Cornaglia - Commissioner
Anthony Abreau - Assistant Commissioner

City Engineer
Mike Patneau, P.E.

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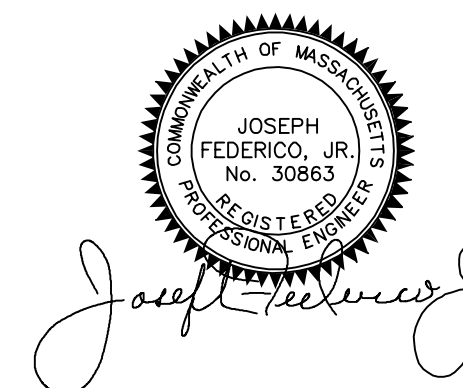
PROJECT LOCATION



Contract S-2022-2
CWSRF No. 6832

Issue Date:
January, 2022

NOT FOR CONSTRUCTION



Prepared By:



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LEGEND - EXISTING

CONTOUR - MAJOR	
CONTOUR - MINOR	
PARCEL LINE	
PAVED DRIVE	
FENCE	
SHEETING	
COAST LINE	
DRAIN LINE	
ELECTRIC LINE	
GAS LINE	
SEWER LINE	
FORCE MAIN	
WATER LINE	
DRAIN MANHOLE	
CATCH BASIN	
SEWER MANHOLE	
WATER GATE	
HYDRANT	
UTILITY POLE	
UTILITY LIGHT POLE	
LIGHT POLE	
SIGN	
MAG NAIL	
MONITORING WELL	
TREELINE/TREE	
BUILDINGS	
PAVEMENT	
WETLAND DELINEATION W/ FLAGS	
100-FT. WETLAND BUFFER	
25-FT RIVER FRONT AREA	
100-FT COASTAL BANK BUFFER	
BORDERING LAND SUBJECT TO FLOODING ELEV. = 13.00 (NAVD88)	

LEGEND - PROPOSED

EROSION CONTROL	
WATER LINE	
WATER VALVE	
HYDRANT	
CHAIN LINK FENCE	
LIMITS OF TEMPORARY EASEMENTS	
LIMITS OF PERMANENT EASEMENTS	

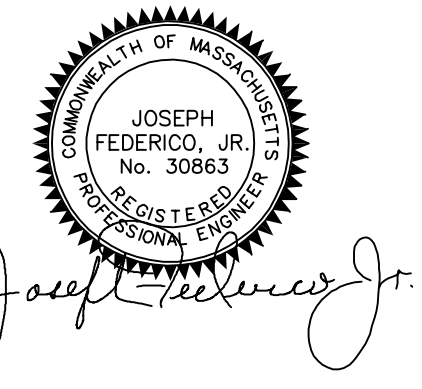
ABBREVIATIONS

BITUMINOUS	BIT.
CONCRETE	CONC.
CONCRETE RETAINING WALL	CRW
CONCRETE PAD	CPD
DESTINATION UNKNOWN	D.U.??
EDGE OF PAVEMENT	EOP
GRASS	GRS
MONITORING WELL	MW
NO PIPE VISIBLE	NPV
OVERHEAD WIRES	OHW
STONE RETAINING WALL	SRW
VENT PIPE	VP
VERTICAL GRANITE CURB	VGC

PREPARED BY



REGISTERED PROFESSIONAL



SUBCONSULTANT

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

DRAWING INDEX & LEGEND

NO.	REVISIONS	DATE

DRAWN BY:	BM
DESIGNED BY:	AJG
CHECKED BY:	CC
ISSUE DATE:	3/29/2021
BETA JOB NO.:	5530

SCALE

NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

Not for Construction

SHEET NO.

G-1

GENERAL CIVIL NOTES

- SURVEY INFORMATION:**
 - TOPOGRAPHIC SURVEY COMPLETED BY LIGHTHOUSE LAND SURVEYING LLC BETWEEN JANUARY 13, 2017 THRU JANUARY 20, 2017. PROPERTY LINES AND ABUTTING OWNER INFORMATION OBTAINED FROM THE "OFFICE OF GEOGRAPHIC INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS, MASSIT". IT IS NOT INTENDED TO REFLECT THAT A TITLE SEARCH WAS PERFORMED.
 - VERTICAL DATUM: NAVD 88.
 - HORIZONTAL DATUM: MASSACHUSETTS STATE PLANE - MAINLAND ZONE NAD83
- THE LOCATION, SIZE, AND MATERIAL OF EXISTING PIPES, DUCTS, CONDUITS AND OTHER UNDERGROUND STRUCTURES AND/OR UTILITIES SHOWN ON THESE PLANS ARE FROM THE BEST SOURCES AVAILABLE AT PRESENT AND ARE NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES, UTILITIES OR STRUCTURES ARE SHOWN. EXACT LOCATION TO BE DETERMINED BY CONTRACTOR IN FIELD.
- EXISTING UTILITIES DEPICTED ARE APPROXIMATE ONLY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UTILITIES AND NOTIFY ALL UTILITY COMPANIES (PUBLIC AND PRIVATE). IN ADDITION, "DIG SAFE" MUST BE CONTACTED AT 1(800)-322-4844.
- EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED AND SUPPORTED AT ALL TIMES BY THE CONTRACTOR. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS TO INTERFERE AS LITTLE AS POSSIBLE WITH EXISTING UTILITIES. PAYMENT FOR PROVIDING SAID PROTECTION AND SUPPORTS SHALL BE CONSIDERED A PART OF AND PAID FOR UNDER THE APPROPRIATE ITEMS UNLESS OTHERWISE INDICATED AND/OR DIRECTED BY THE OWNER. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION BY REASON OF DELAY AND/OR INCONVENIENCE IN ADAPTING HIS OPERATIONS ACCORDINGLY.
- ALL DIMENSIONS AND JOB RELATED CONDITIONS ARE TO BE VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES FOUND ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER/ENGINEER AND PROPERLY RESOLVED BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. CONTINUATION WITH OTHER ASPECTS OF THE WORK SHALL PROCEED WITHOUT DELAY OR CAUSE FOR CLAIM.
- ALL GRASSED AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE LOAMED AND SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. FINAL RESTORATION SHALL BE EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION AS DETERMINED SOLELY BY THE OWNER/ENGINEER.
- WORK PERFORMED BY THE CONTRACTOR SHALL NOT INTERFERE WITH WASTEWATER FLOWS THROUGH THE PUMPING STATION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY EQUIPMENT, PIPING, FITTINGS AND APPURTENANCES NECESSARY TO COMPLETE THIS CONTRACT. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL TEMPORARY UNIT BYPASS-LINES UNTIL THE MODIFICATIONS AND CONSTRUCTION ARE COMPLETE.
- THE CONTRACTOR SHALL CONFINE ALL ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE INDICATED LIMITS OF WORK AS SHOWN IN THE CONTRACT DRAWINGS. ALL SURFACES DAMAGED OUTSIDE THE INDICATED LIMITS SHALL BE REPLACED IN KIND AT CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR THE LEGAL AND PROPER DISPOSAL OF ALL DEMOLITION MATERIAL ACCORDING TO THE LAWS OF THE MUNICIPALITY IN WHICH THE WORK IS BEING DONE AND THE COMMONWEALTH OF MASSACHUSETTS. ALL DEMOLITION MATERIAL INCLUDING PUMPS, PIPE, AND BRICK THAT WAS IN CONTACT WITH SEWAGE SHALL BE CLEANED IN ACCORDANCE WITH MADEP REQUIREMENTS AND DISPOSED OF ACCORDINGLY. ONCE CLEANED, DEMOLITION MATERIALS SHALL NOT BE CONSIDERED SPECIAL WASTE.
- GENERAL CONTRACTOR SHALL COORDINATE WITH THEIR ELECTRICAL SUBCONTRACTOR AND DEFINE THE SCOPE OF WORK IDENTIFIED IN DIVISION 16, TO BE COMPLETED BY THE GC.

SEQUENCE OF CONSTRUCTION

GENERAL NOTES

- THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE BASED UPON THE SCHEDULE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER AS SPECIFIED. HOWEVER, AS A GUIDE FOR THE BIDDERS IN THE PREPARATION OF THEIR BID AND FOR THE CONTRACTOR IN THE PREPARATION OF HIS SCHEDULE, A RECOMMENDED SEQUENCE OF CONSTRUCTION IS PROVIDED ON THIS PLAN.
- THE ORDER OF CONSTRUCTION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER; SUCH APPROVAL OR DIRECTION, HOWEVER, SHALL IN NO WAY RELIEVE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM THE WORK IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONSTRUCTION PLANS AND SPECIFICATIONS HAVE BEEN DEVELOPED TO MINIMIZE THE CONSTRUCTION IMPACTS ON THE OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM. THE CONTRACTOR'S WORK SEQUENCE MUST BE SPECIFICALLY DETAILED IN THE CPM WHICH IS REQUIRED UNDER SECTION 01310.
- WHENEVER THE CONTRACTOR'S PROPOSED WORK WILL REQUIRE THE OWNER TO DEVIATE FROM THE NORMAL OPERATION OF THE WASTEWATER COLLECTION/PUMPING SYSTEM, THE CONTRACTOR SHALL SO NOTIFY THE ENGINEER IN WRITING. SUCH NOTIFICATION SHALL BE SUBMITTED ONE (1) WEEK PRIOR TO THE PLANNED CONSTRUCTION ACTIVITY.

MAIN LIFT PUMPING STATION:

EXISTING PUMPING STATION WILL REMAIN ON-LINE THROUGHOUT CONSTRUCTION AND START-UP OF NEW STATION.

- CONSTRUCT YARD PIPING
- CONSTRUCT PUMPING STATION
 - MECHANICAL PIPING AND EQUIPMENT
 - ARCHITECTURAL
 - ELECTRICAL WORK
 - HEATING & VENTILATION
 - INSTRUMENTATION & CONTROLS
 - ENABLE BOTH STATIONS TO OPERATE TOGETHER FOR START-UP PURPOSES
- START-UP & TEST NEW STATION
 - INTRODUCE FLOW TO NEW STATION (VIA WEST WATER STREET)
 - OLD STATION WILL CONTINUE TO OPERATE
- PUMP START-UP
 - PROVIDE NOTIFICATION TO OWNER AND VEOLJA
 - OPERATE FORCE MAIN GATE VALVES AT WASTEWATER TREATMENT PLANT TO ALLOW INTRODUCTION OF FLOW FROM NEW FORCE MAINS.
 - FILL ONE OF TWO NEW FORCE MAINS WITH SEWAGE
 - OPERATE GATES IN UPSTREAM MANHOLE ON WEST WATER STREET TO INTRODUCE FLOW TO THE NEW WET WELL.
 - INFLUENT FLOW TO NEW STATION SHALL BE ISOLATED BY OPERATION OF STRUCTURE GATES DURING INTERRUPTIONS IN START UP AND REDIRECTED BACK TO THE EXISTING STATION.
- DEMONSTRATION OF INSTRUMENTATION AND CONTROL STRATEGIES
 - THE STATION SHALL NOT BE LEFT UNATTENDED AND IN AUTOMATIC OPERATION UNTIL CONTROL STRATEGIES HAVE BEEN CHECKED OUT AND DEMONSTRATED.
 - EACH ALARM POINT AND MONITORING ELEMENT SHALL BE CHECKED OUT
- DIRECT FLOW TO NEW STATION AND LEAVE ON AUTOMATIC
 - VACTOR SIPHON DISCHARGE MANHOLE
 - ISOLATE NEW STATION FROM INFLUENT FLOW BY OPERATING GATES IN SMH-A
 - REMOVE CAP FROM SIPHON DISCHARGE PIPING IN THE INFLUENT STRUCTURE.
 - DEFLATE AND REMOVE PLUG AND ALLOW FLOW TO ENTER FROM THE EAST SIDE OF THE STATION
 - OPEN GATES FROM WEST WATER STREET INFLUENT SEWER
- CLEAN OLD STATION
 - DRAIN FORCE MAIN BACK INTO WET WELL AND DRAW-DOWN WET WELL WITH SUBMERSIBLE PUMPS AND PUMP TO NEW STATION
 - POWER WASH WET WELL WALLS AND FLOOR AND REMOVE AND DISPOSE OF RESIDUAL SLUDGE, SCUM, GREASE AND DEBRIS FROM WET WELL
 - CAP INFLUENT PIPE ON SOUTH SIDE OF WET WELL. FILL WITH CLEAN WATER TO ELEV. & FILL PUMP VOLUTES

WORK ON OR NEAR PRIVATE PROPERTY

- WORK IN THE VICINITY OF PRIVATE PROPERTY SHALL BE PERFORMED WITHOUT ENCROACHMENT ONTO THE PRIVATE PROPERTY. SHOULD ENCROACHMENT ONTO PRIVATE PROPERTY BECOME NECESSARY FOR ANY REASON, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SECURING PERMISSION OR AUTHORITY FROM ANY AND ALL ENTITIES OWNING OR HAVING CONTROL OVER SAID PROPERTIES PRIOR TO THE PERFORMANCE OF WORK ON THE PROPERTY.
- CONTRACTOR SHALL RESTORE ANY AND ALL DISTURBED AREAS ON PRIVATE PROPERTY TO AS GOOD OR BETTER CONDITION THAN ORIGINAL, TO THE SATISFACTION OF THE PROPERTY OWNER.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO EXISTING ITEMS/ FEATURES ON PRIVATE PROPERTY, OR FOR REPLACING DAMAGED ITEMS IF SAID ITEMS CANNOT BE REPAIRED, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- TEMPORARY CONSTRUCTION EASEMENTS HAVE BEEN PROVIDED BY THE OWNER FOR PROPOSED WORK INTENDED TO BE PERFORMED ON PRIVATE PROPERTY. CONTRACTOR SHALL MAINTAIN THEIR ACTIVITIES TO THE LIMITS OF THE TEMPORARY CONSTRUCTION EASEMENTS, AND SHALL BE SOLELY RESPONSIBLE FOR COORDINATION WITH THE PROPERTY OWNERS DURING CONSTRUCTION (E.G. ADVANCE NOTIFICATION, LIMITED ACCESS, TEMPORARY SHUTDOWNS, ETC.).
- CONTRACTOR SHALL TAKE PRE AND POST-CONSTRUCTION PHOTOGRAPHS OF ALL PRIVATE PROPERTIES IMPACTED BY THE WORK (WHETHER PLANNED OR UNPLANNED), AND SHALL PROVIDE COPIES OF SAME TO THE OWNER UPON COMPLETION OF THE PROJECT.

RESTORATION OF PRIVATE PROPERTY

- TEMPORARY EASEMENT (CONSTRUCTION EQUIPMENT STAGING AREA - BAY STATE CRUCIBLE PROPERTY)
 - GRADE EXISTING GRAVEL SMOOTH TO DRAIN
- ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED TO MATCH EXISTING CONDITION AS SHOWN IN THE PRE-CONSTRUCTION VIDEO. THIS WORK SHALL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.

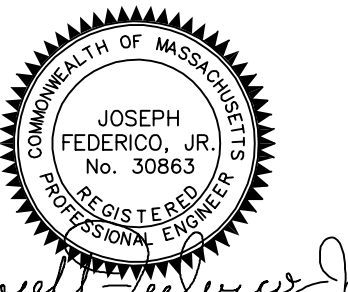
YARD PIPING NOTES

- CONTRACTOR SHALL CONDUCT TEST PITS AS SHOWN AND AT ALL LOCATIONS WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING AND STRUCTURES TO FIELD VERIFY THE EXACT SIZE, MATERIAL, LOCATION, INVERT ELEVATION AND ALIGNMENT (VERTICAL AND HORIZONTAL) OF EXISTING UNDERGROUND PIPES AND STRUCTURES.
- THE CONTRACTOR SHALL CONDUCT TEST PITS, AS REQUIRED, IN ORDER TO ASCERTAIN THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES.
- WHERE PIPING IS TO BE CONNECTED TO EXISTING PIPING OR STRUCTURES, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS AND ADDITIONAL PIPE (REQUIRED AS A RESULT OF CUTTING THE EXISTING PIPE BACK) TO COMPLETE THE CONNECTION AS REQUIRED.
- PIPE REPAIR CLAMPS SHALL BE MADE OF STAINLESS STEEL AND PROVIDED WITH TYPE 304 STAINLESS STEEL BOLTS AND NUTS.
- ALL PIPING SHALL BE PROVIDED WITH FLEXIBLE CONNECTIONS WHERE EXITING OR ENTERING STRUCTURES AND BUILDINGS. FLEXIBLE CONNECTIONS SHALL BE COORDINATED WITH PIPE MANUFACTURER AND APPROVED BY THE ENGINEER.

PREPARED BY



REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

GENERAL NOTES

NO.	REVISIONS	DATE
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DRAWN BY:	BM
DESIGNED BY:	AJG
CHECKED BY:	CC
ISSUE DATE:	3/29/2021
BETA JOB NO.:	5530

SCALE

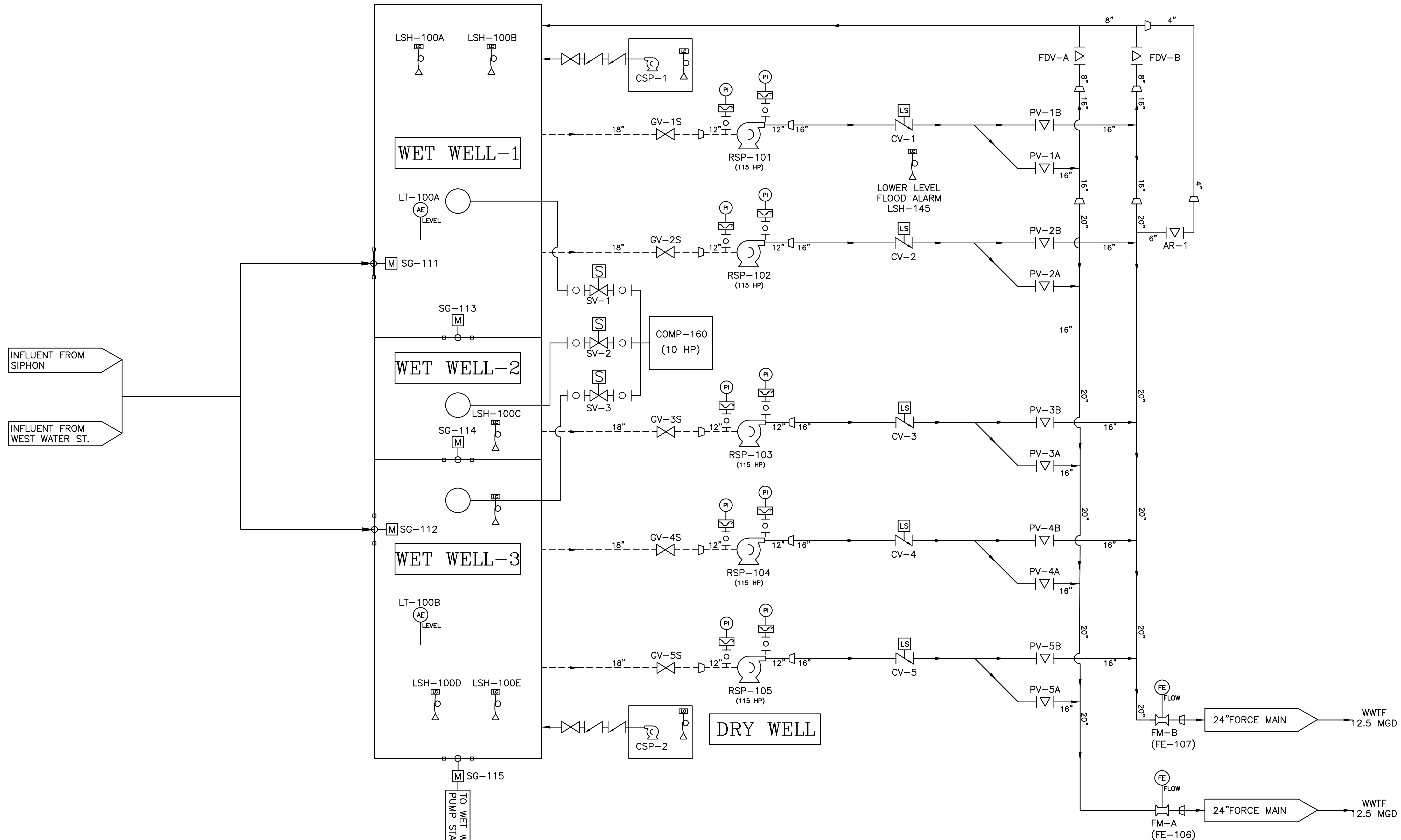
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SHEET NO. **G-2**

12/21/2021 10:28 AM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWINGFILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT\PROCESS FLOW DIAGRAM.DWG



LEGEND

SYMBOLS

- | | | | | | |
|--|-------------------|--|------------------|--|--------------------------------|
| | BALL VALVE | | FLOWMETER | | ANALOG ELEMENT W/DESCRIPTION |
| | PLUG VALVE | | SUCTION PIPING | | FLOAT TYPE LEVEL SENSOR |
| | CHECK VALVE | | DISCHARGE PIPING | | PRESSURE INDICATOR W/DIAPHRAGM |
| | GATE VALVE | | REDUCER | | |
| | SLUICE/SLIDE GATE | | CENTRIFUGAL PUMP | | |
| | MOTOR ACTUATOR | | SOLENOID VALVE | | |
| | LIMIT SWITCH | | | | |

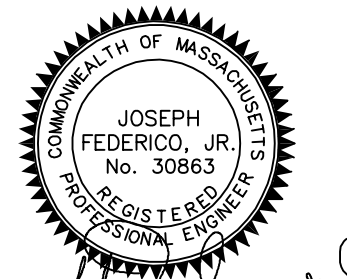
ABBREVIATIONS

- | | | | |
|------|-----------------------|-----|--------------------|
| AR | AIR RELEASE | M | MOTOR OPERATED |
| COMP | COMPRESSOR | PCV | PUMP CONTROL VALVE |
| CSP | CENTRIFUGAL SUMP PUMP | PI | PRESSURE INDICATOR |
| CV | CHECK VALVE | PV | PLUG VALVE |
| DWF | DRY WELL FLOOD | SG | SLUICE GATE |
| FDV | FORCEMAIN DRAIN VALVE | SP | SEWAGE PUMP |
| FE | FLOW ELEMENT | SV | SOLENOID VALVE |
| FM | FLOWMETER | WWF | WET WELL FLOOD |

PREPARED BY



REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

**MAIN LIFT
PUMP STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**PROCESS
FLOW
DIAGRAM**

NO.	REVISIONS	DATE

DRAWN BY:	BM
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SCALE

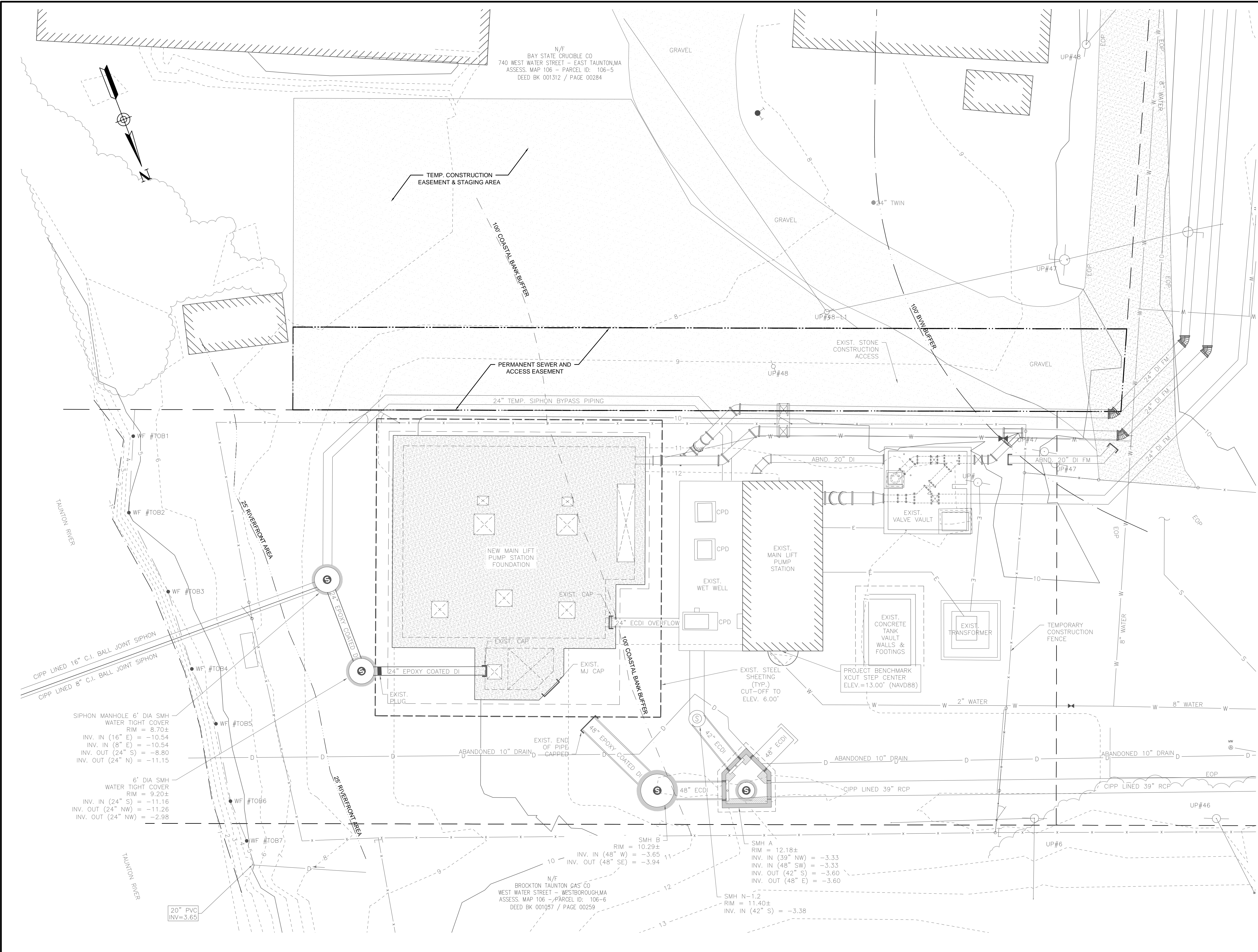
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SHEET NO. **G-3**

1/26/2022 5:04 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWINGFILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT SITE PLAN - EXISTING CONDITIONS.DWG



PREPARED BY
BETA
 www.BETA-inc.com

REGISTERED PROFESSIONAL
 JOSEPH FEDERICO, JR.
 No. 30863
 PROFESSIONAL ENGINEER
Joseph Federico Jr.

SUBCONSULTANT

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE
EXISTING CONDITIONS SITE PLAN

NO.	REVISIONS	DATE

DRAWN BY: BM
 DESIGNED BY: AJG
 CHECKED BY: CC
 ISSUE DATE: 3/29/2021
 BETA JOB NO.: 5530

SCALE

 SCALE IN FEET: 1"=10'

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Not for Construction

SHEET NO. C-1

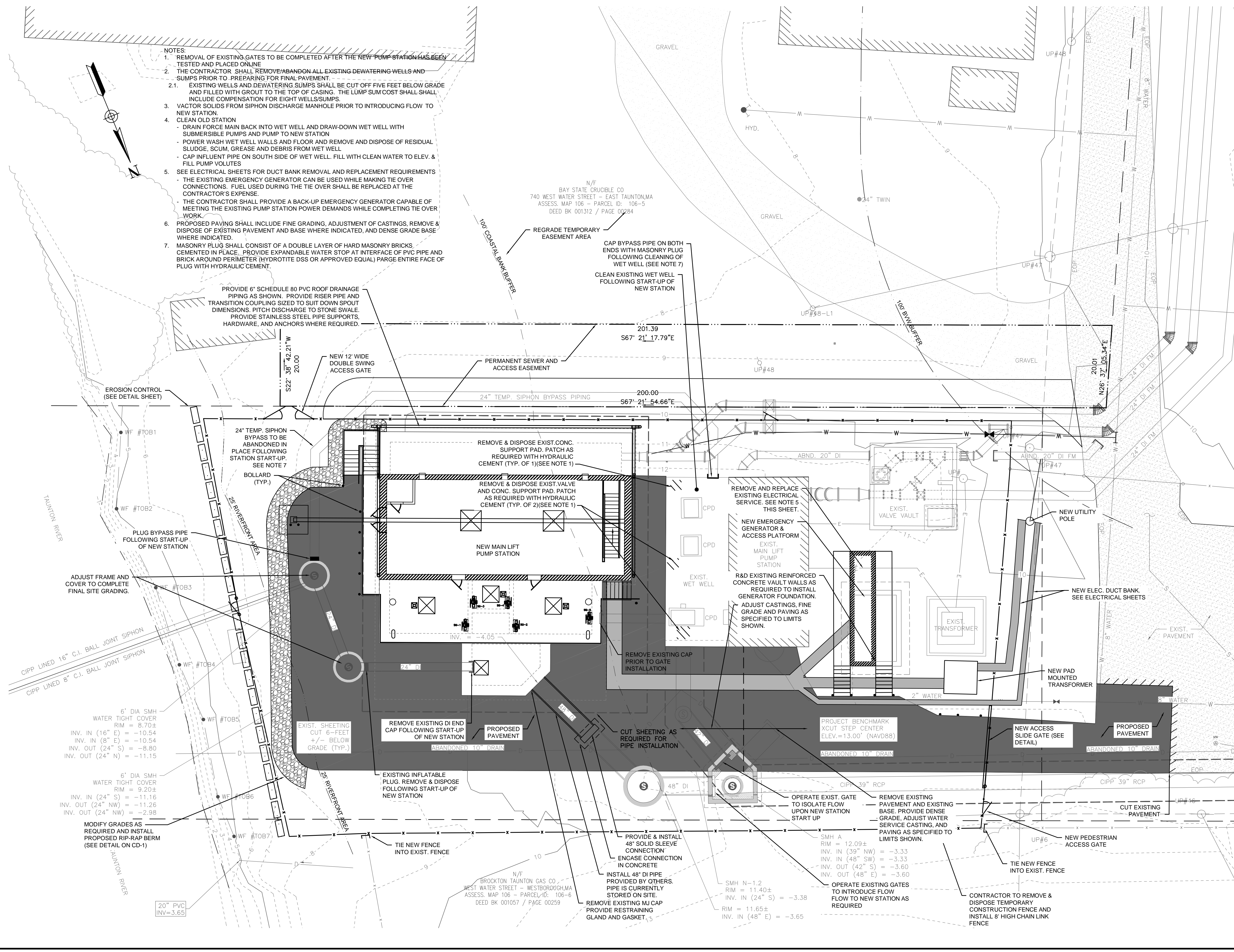
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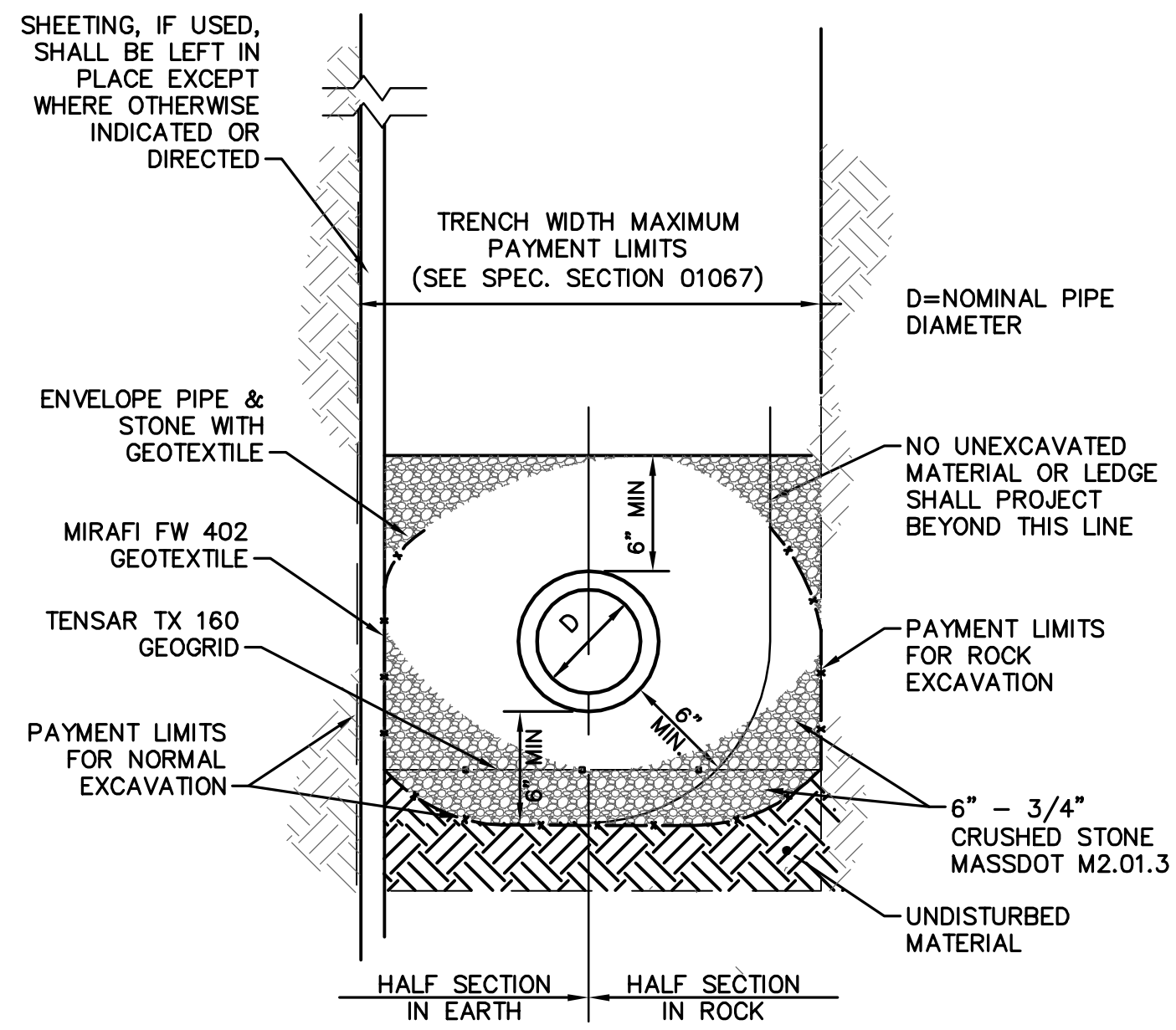


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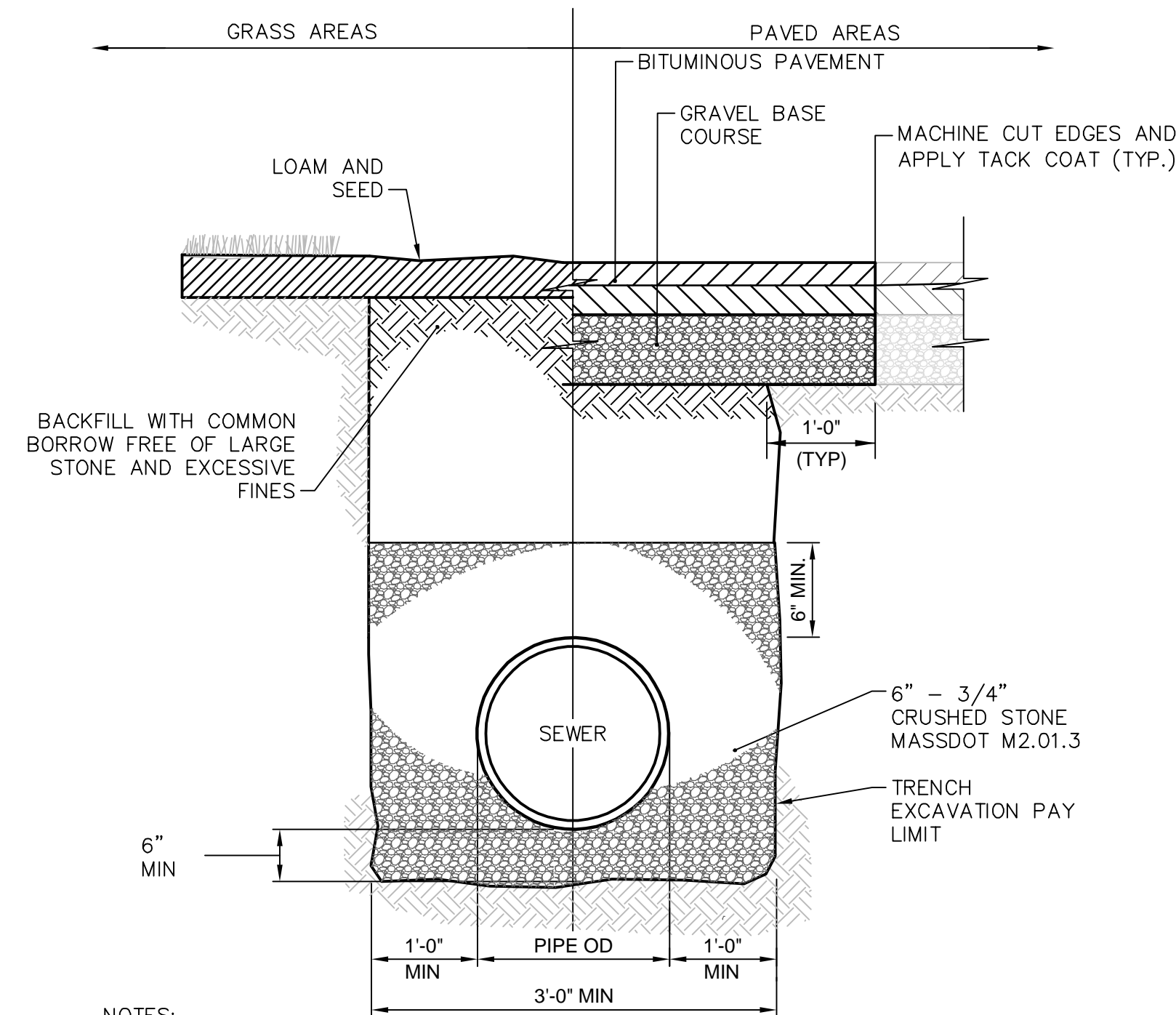


- NOTES:
- REMOVAL OF EXISTING GATES TO BE COMPLETED AFTER THE NEW PUMP STATION HAS BEEN TESTED AND PLACED ONLINE
 - THE CONTRACTOR SHALL REMOVE/ABANDON ALL EXISTING DEWATERING WELLS AND SUMPS PRIOR TO PREPARING FOR FINAL PAVEMENT.
 - EXISTING WELLS AND DEWATERING SUMPS SHALL BE CUT OFF FIVE FEET BELOW GRADE AND FILLED WITH GROUT TO THE TOP OF CASING. THE LUMP SUM COST SHALL SHALL INCLUDE COMPENSATION FOR EIGHT WELLS/SUMPS.
 - TRACTOR SOLIDS FROM SIPHON DISCHARGE MANHOLE PRIOR TO INTRODUCING FLOW TO NEW STATION.
 - CLEAN OLD STATION
 - DRAIN FORCE MAIN BACK INTO WET WELL AND DRAW-DOWN WET WELL WITH SUBMERSIBLE PUMPS AND PUMP TO NEW STATION
 - POWER WASH WET WELL WALLS AND FLOOR AND REMOVE AND DISPOSE OF RESIDUAL SLUDGE, SCUM, GREASE AND DEBRIS FROM WET WELL
 - CAP INFLUENT PIPE ON SOUTH SIDE OF WET WELL. FILL WITH CLEAN WATER TO ELEV. & FILL PUMP VOLUTES
 - SEE ELECTRICAL SHEETS FOR DUCT BANK REMOVAL AND REPLACEMENT REQUIREMENTS
 - THE EXISTING EMERGENCY GENERATOR CAN BE USED WHILE MAKING TIE OVER CONNECTIONS. FUEL USED DURING THE TIE OVER SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL PROVIDE A BACK-UP EMERGENCY GENERATOR CAPABLE OF MEETING THE EXISTING PUMP STATION POWER DEMANDS WHILE COMPLETING THE TIE OVER WORK.
 - PROPOSED PAVING SHALL INCLUDE FINE GRADING, ADJUSTMENT OF CASTINGS, REMOVE & DISPOSE OF EXISTING PAVEMENT AND BASE WHERE INDICATED, AND DENSE GRADE BASE WHERE INDICATED.
 - MASONRY PLUG SHALL CONSIST OF A DOUBLE LAYER OF HARD MASONRY BRICKS CEMENTED IN PLACE. PROVIDE EXPANDABLE WATER STOP AT INTERFACE OF PVC PIPE AND BRICK AROUND PERIMETER (HYDROTITE DSS OR APPROVED EQUAL) PARGE ENTIRE FACE OF PLUG WITH HYDRAULIC CEMENT.

1/10/2022 1:10 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWINGFILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT\SITE PLAN - PROPOSED.DWG

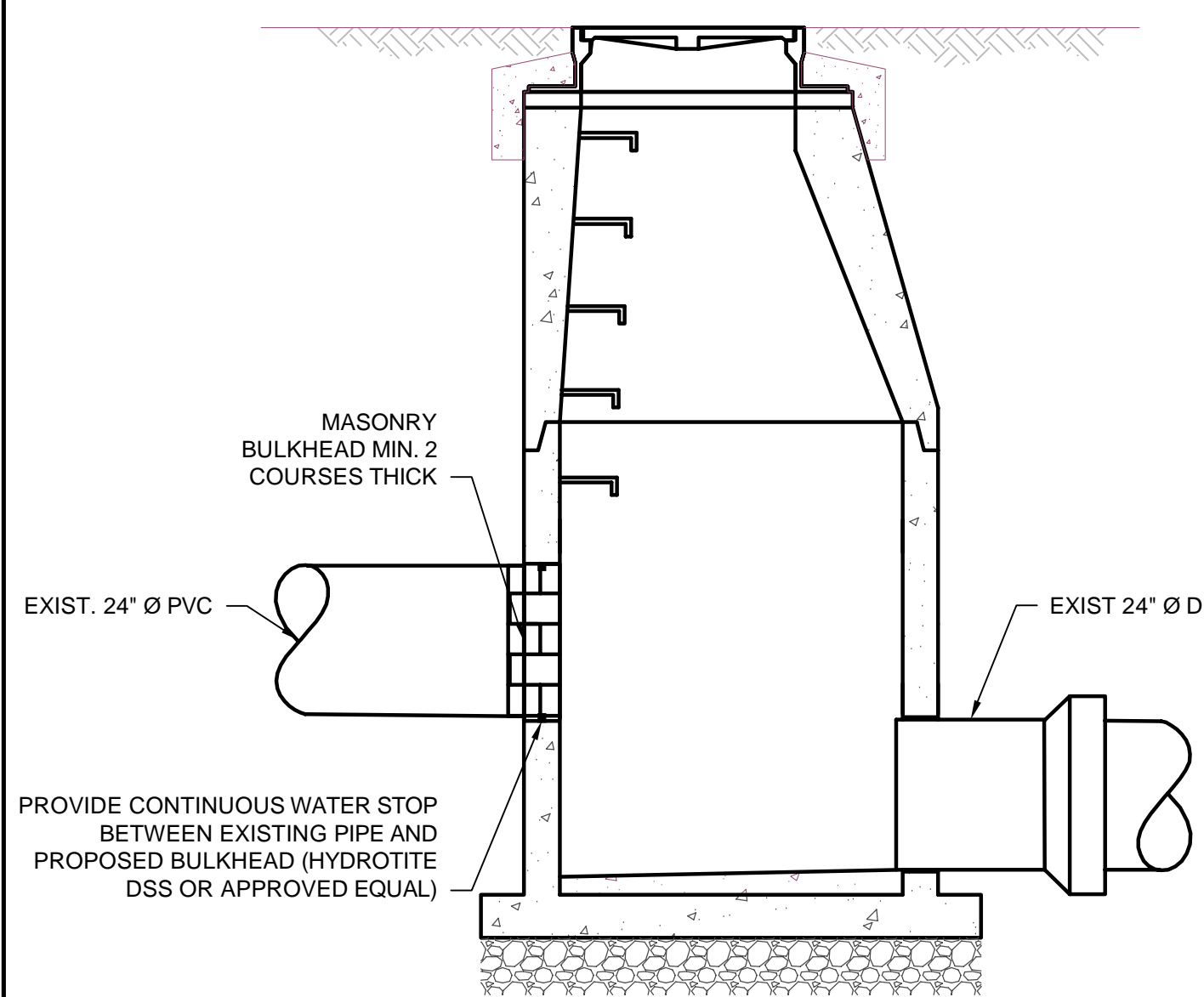


GRAVITY SEWER TRENCH
SCALE: NOT TO SCALE

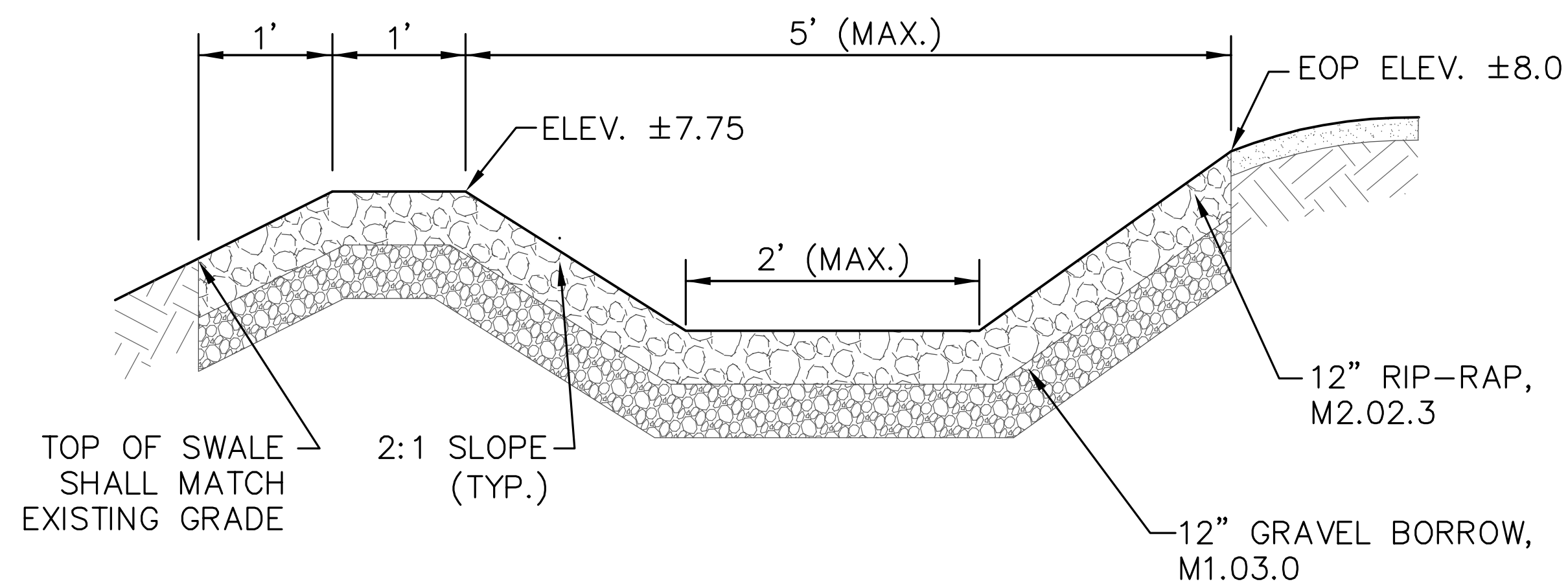


- NOTES:
1. WHERE THE DISTANCE BETWEEN THE SAWCUT AND EDGE OF PAVEMENT IS 3' OR LESS, THE CONTRACTOR SHALL REPLACE THE PAVEMENT FROM THE TRENCH EDGE TO THE EXISTING EDGE OF PAVEMENT.
 2. 3/4" DIA CRUSHED STONE SHALL BE USED AS BEDDING WHERE TRENCH IS BELOW THE GROUND WATER TABLE.

PIPE & BACKFILL DETAIL
SCALE: NOT TO SCALE



BRICK BULKHEAD DETAIL
SCALE: NOT TO SCALE

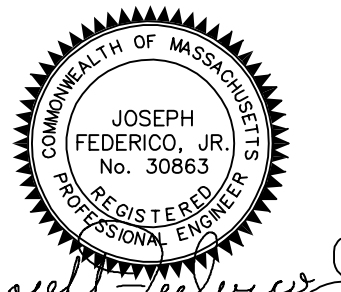


RIP RAP BERM DETAIL
SCALE: NOT TO SCALE

PREPARED BY



REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

**MAIN LIFT
PUMP STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**CIVIL
DETAILS I**

NO.	REVISIONS	DATE

DRAWN BY: BM
DESIGNED BY: AJG
CHECKED BY: CC
ISSUE DATE: 3/29/2021
BETA JOB NO.: 5530

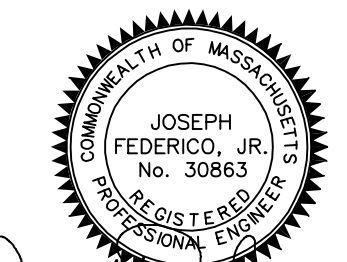
SCALE

NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

Not for Construction

SHEET NO. CD-1



Joseph Federico, Jr.

MAIN LIFT PUMP STATION IMPROVEMENTS

CIVIL DETAILS II

NO.	REVISIONS	DATE

DRAWN BY: BM

DESIGNED BY: AJG

CHECKED BY: CC

ISSUE DATE: 3/29/2021

BETA JOB NO.: 5530

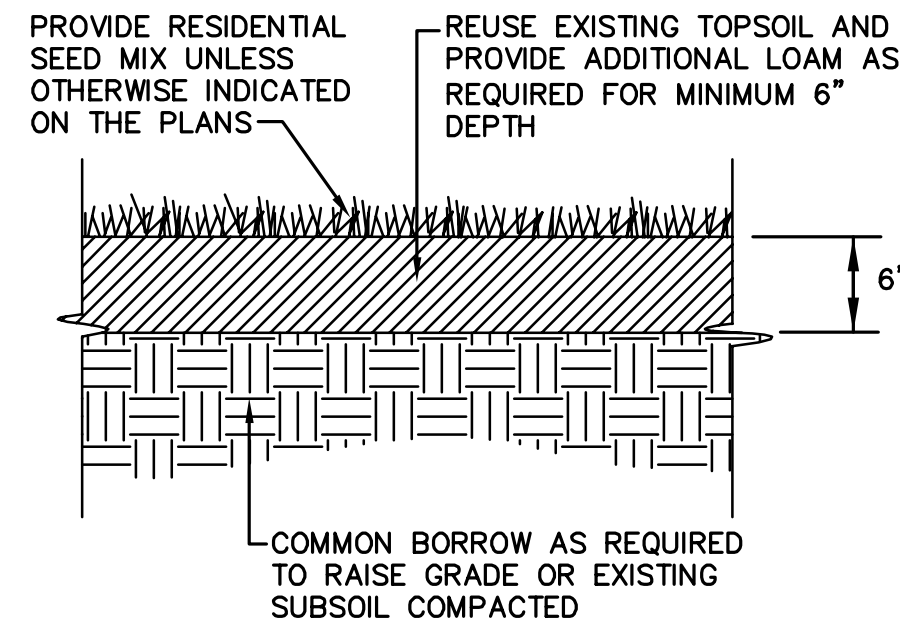
SCALE

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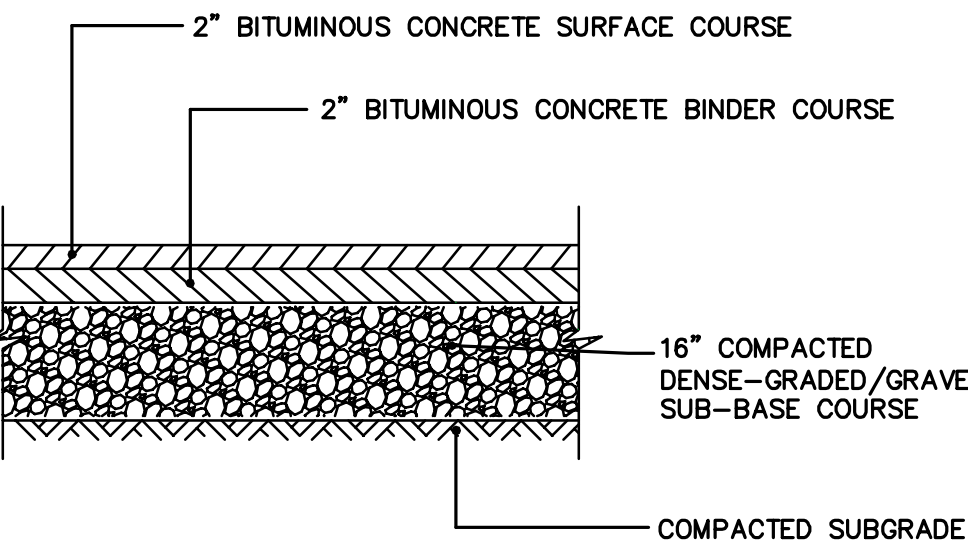
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

Not for Construction

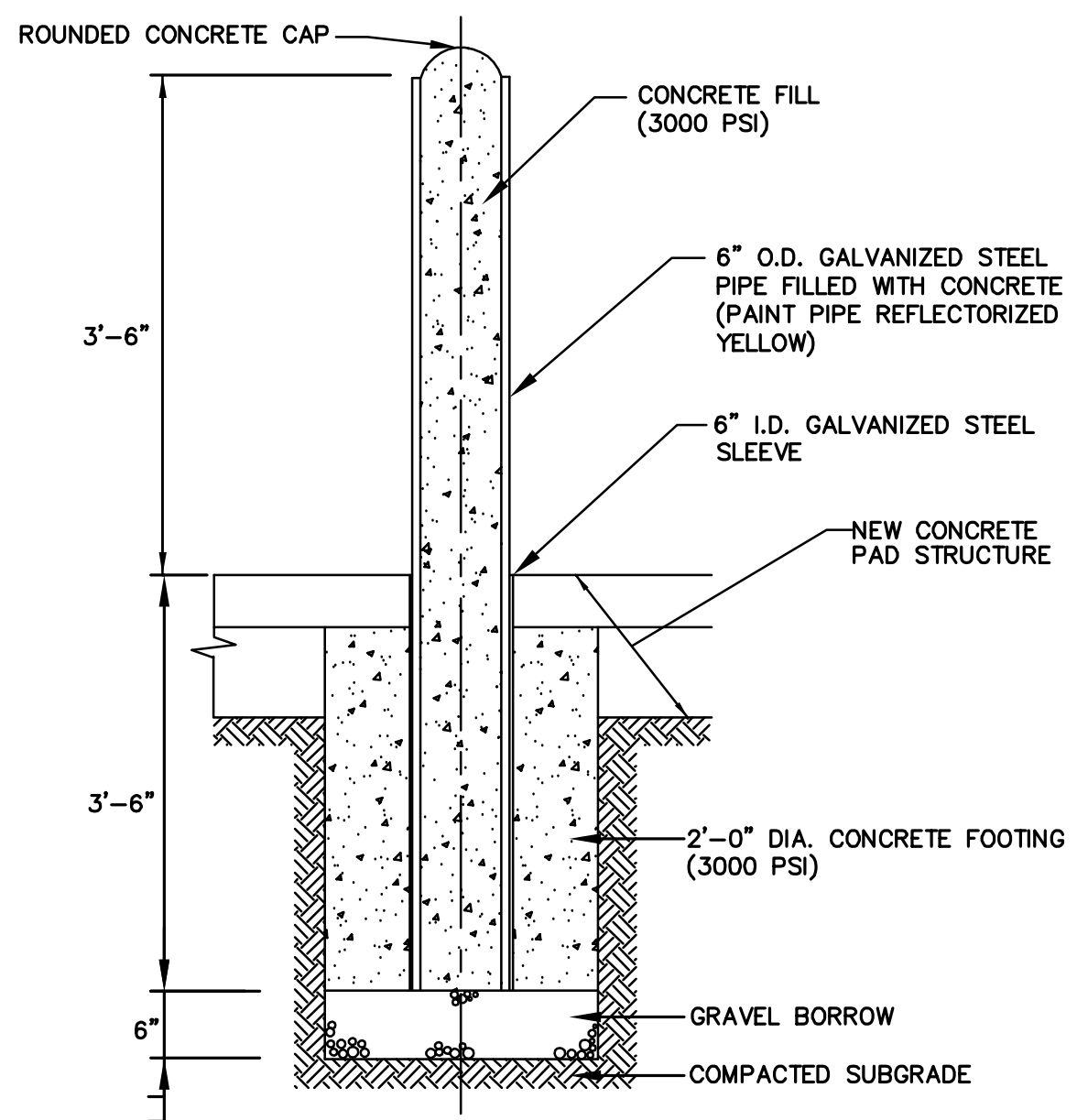
SHEET NO. CD-2



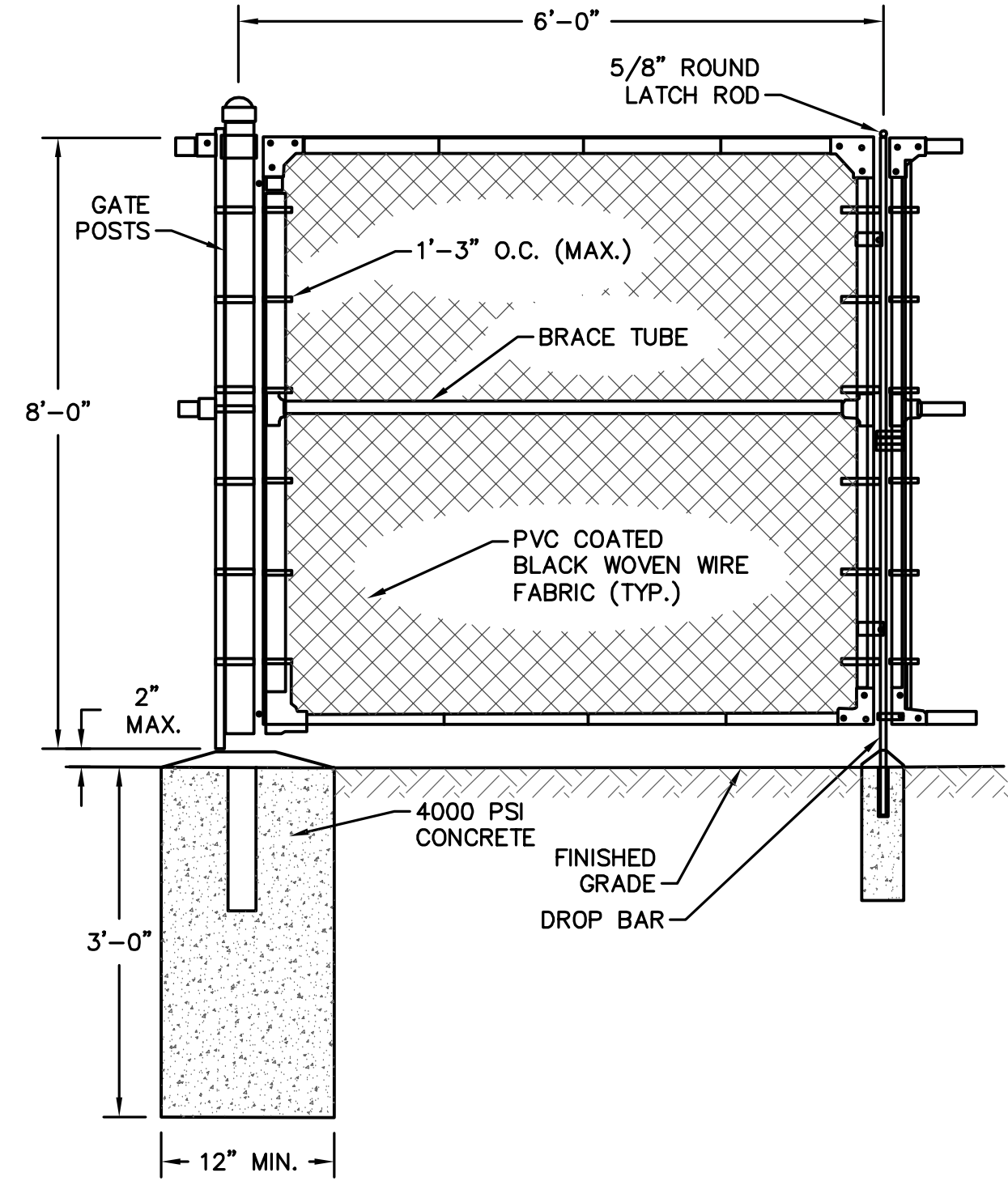
LOAM AND SEED DETAIL
NOT TO SCALE



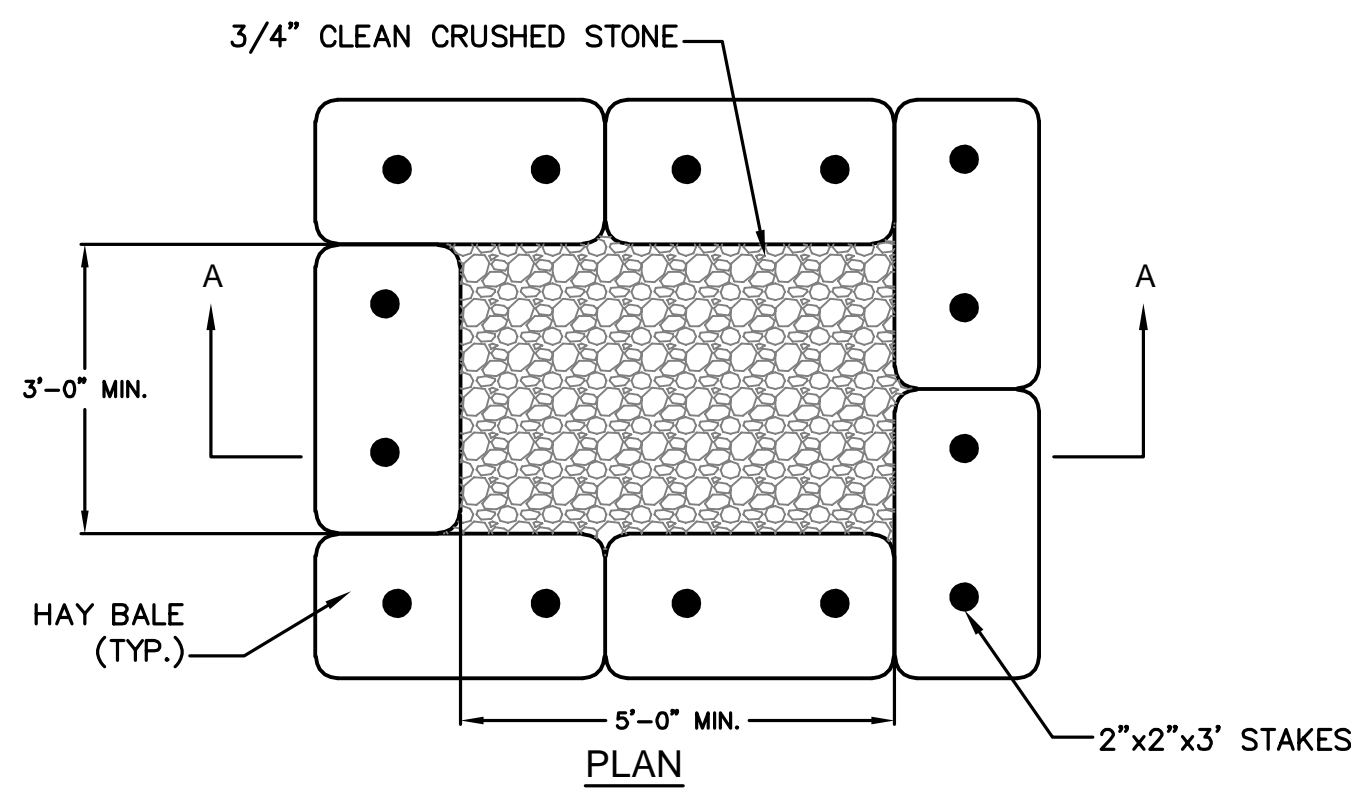
DRIVEWAY PAVEMENT DETAIL
SCALE: NOT TO SCALE



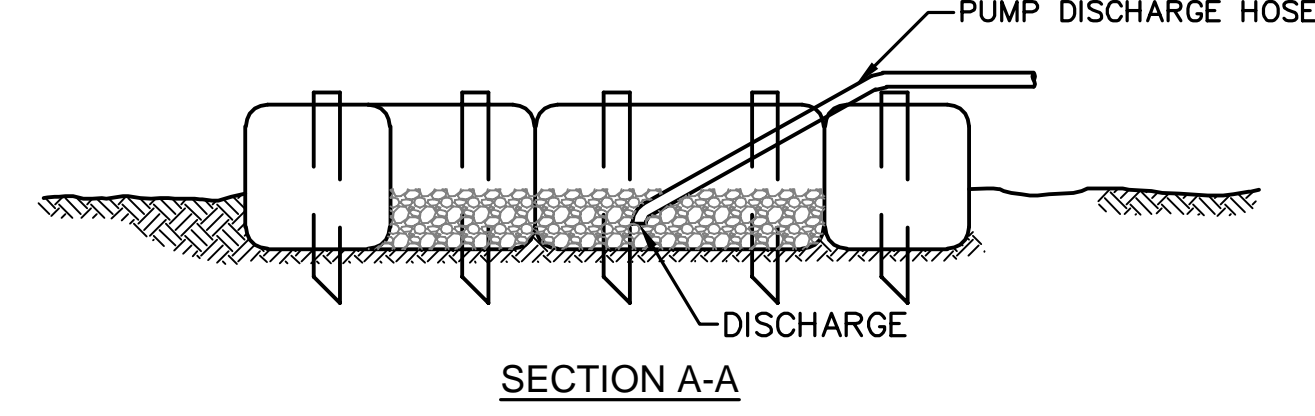
CONCRETE FILLED STEEL BOLLARD
SCALE: NOT TO SCALE



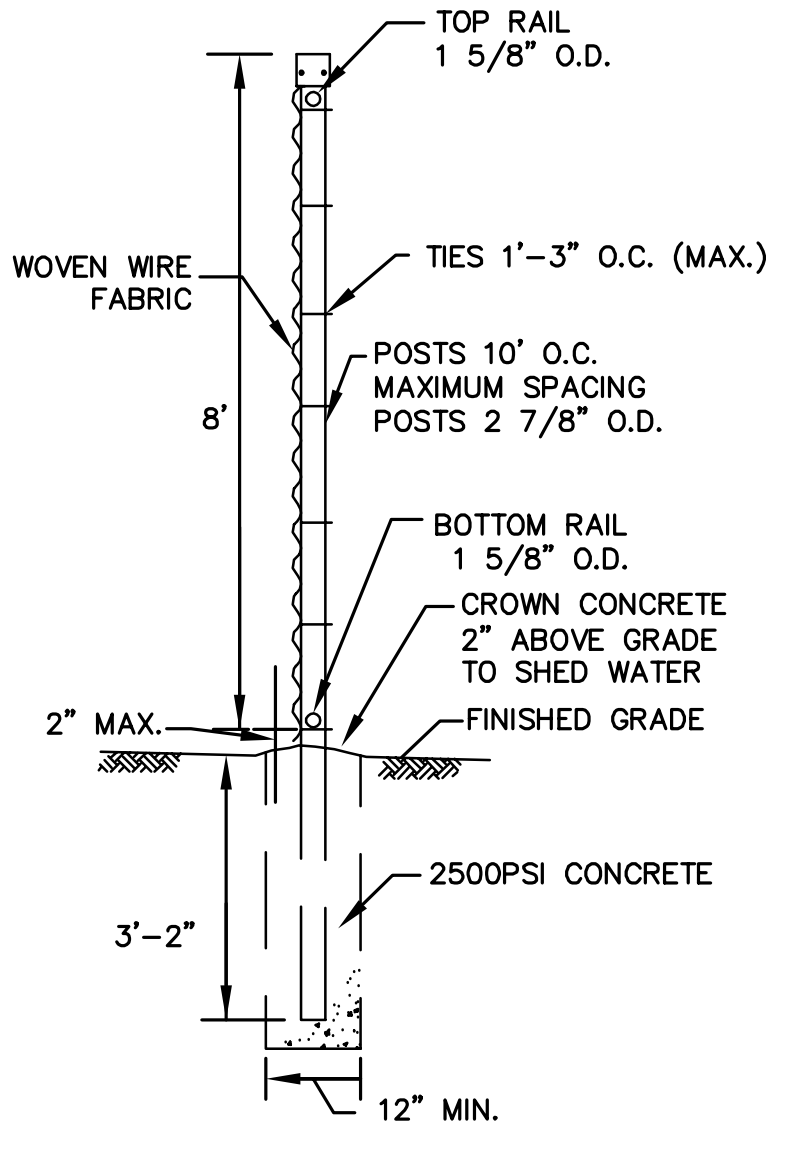
12' WIDE DOUBLE SWING GATE
SCALE: NOT TO SCALE



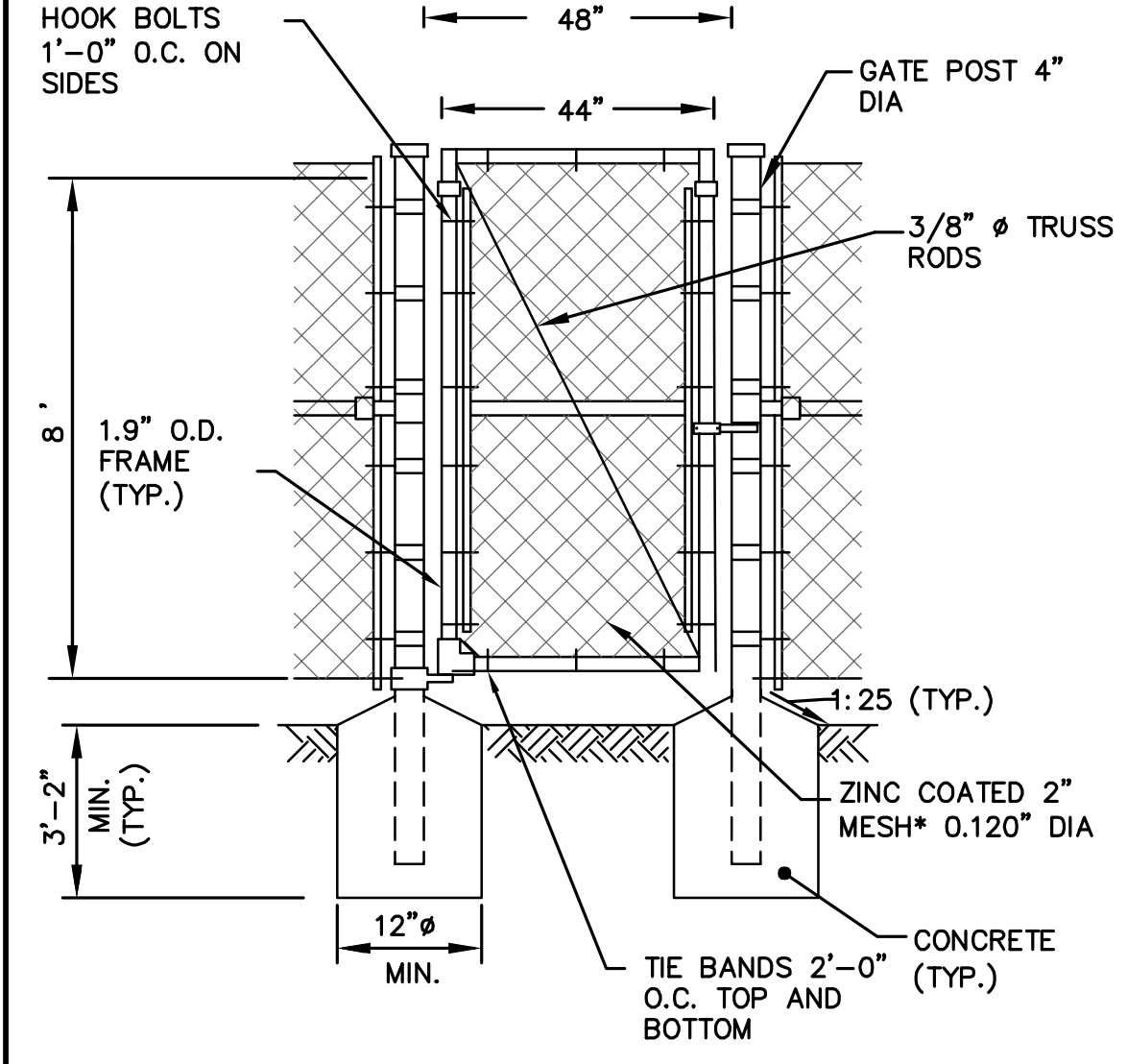
NOTE: ALL DEWATERING DISCHARGES SHALL BE THROUGH SEDIMENT CONTROL TRAPS. CONTRACTOR SHALL MAINTAIN AND CLEAN TRAP AS REQUIRED.



SEDIMENT CONTROL TRAP OPTION
SCALE: NOT TO SCALE

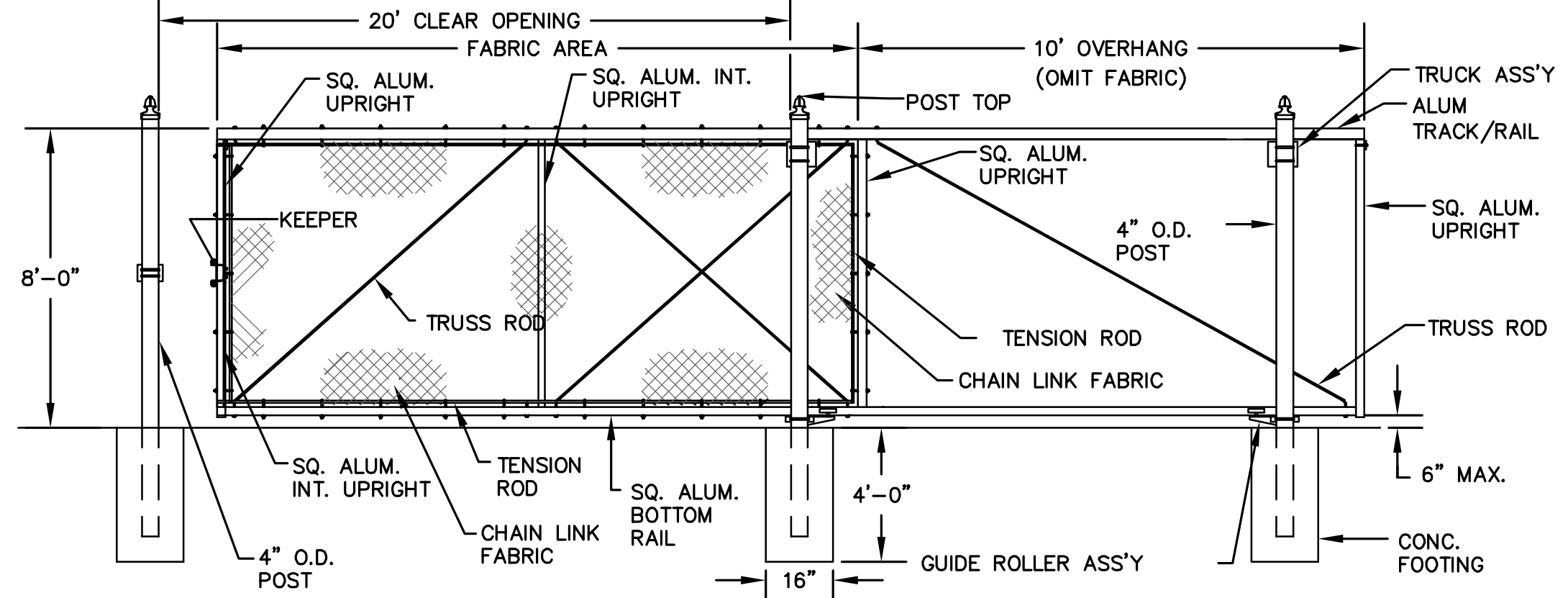


TYPICAL CHAIN-LINK FENCE SECTION DETAIL
SCALE: NOT TO SCALE



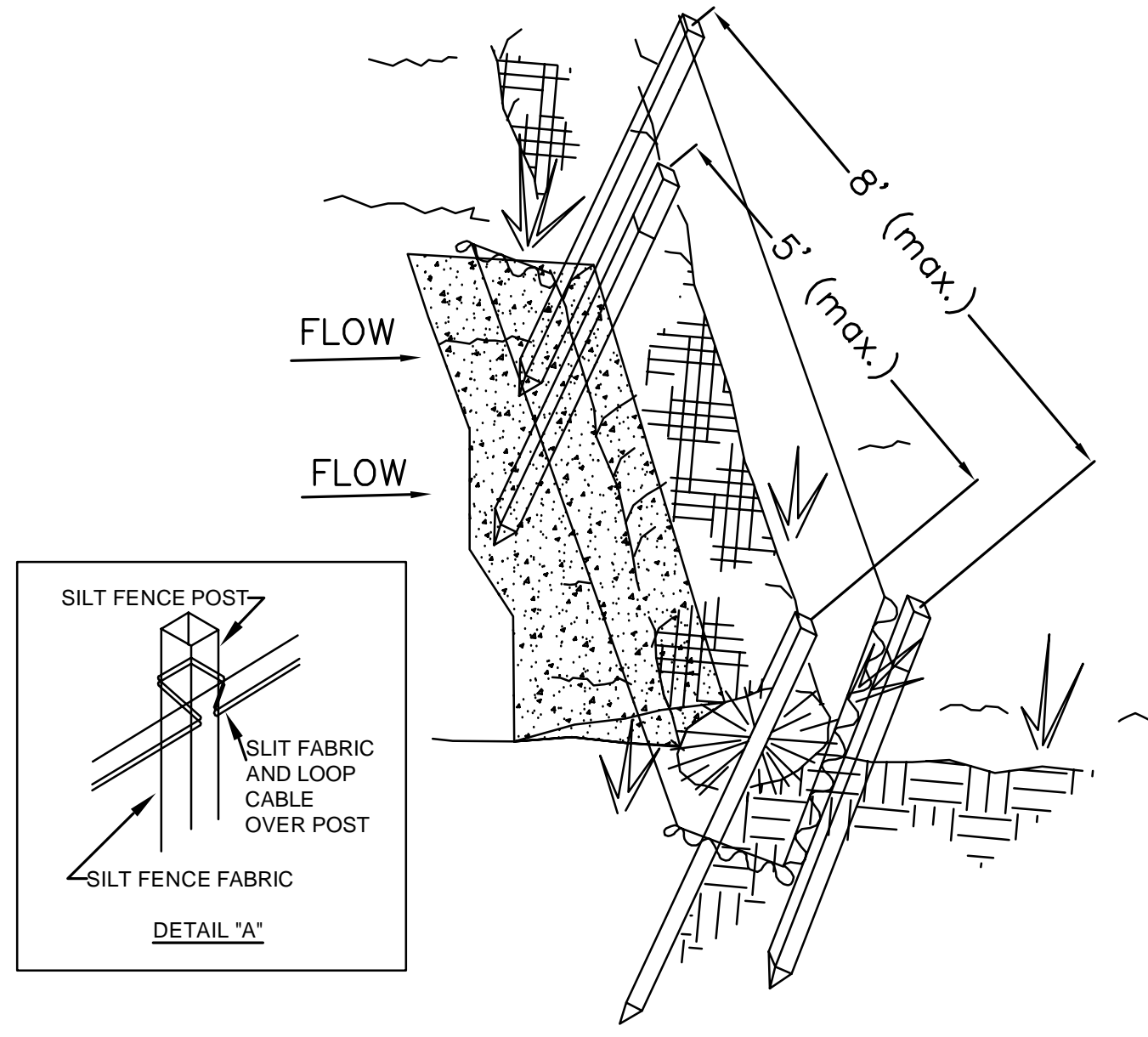
PEDESTRIAN GATE DETAIL
SCALE: NOT TO SCALE

* FABRIC: 2" WIRE MESH, 9 GAUGE WIRE, CLASS 2A PVC COATING EXTRUDED AND ADHERED TO ZINC COATED WIRE. COLOR: BLACK.



SINGLE CANTILEVERED SLIDE GATE DETAIL
SCALE: NOT TO SCALE

* GATE COMPONENTS ARE TO MEET OR EXCEED SPECIFIED FENCE REQUIREMENTS.

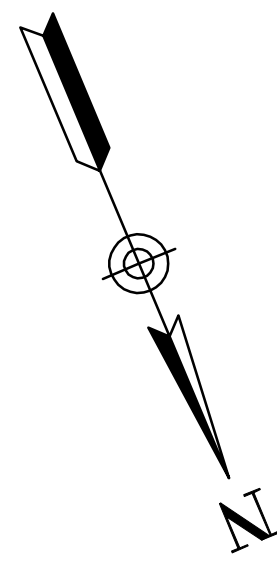


- NOTES**
1. STRAW WATTLES SHALL BE INSTALLED IN SHALLOW TRENCHES, DUG 3 TO 4-INCHES DEEP, PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT WATTLES.
 2. STRAW WATTLES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVEN THROUGH THE WATTLES. THE FIRST STAKE IN EACH WATTLE SHALL BE ANGLED TOWARDS PREVIOUSLY LAID WATTLE TO FORCE WATTLES TOGETHER. ANCHOR STRAW WATTLES WITH A MINIMUM OF 5 STAKES PER WATTLE, INSTALLED "TIGHT" AGAINST SILT FENCE.
 3. SILT FENCE TO BE INSTALLED A MIN. OF 6-INCHES DEEP, WITH A 6-INCH LIP TOED INTO SEDIMENT TO PREVENT MIGRATION BENEATH SILT FENCE.
 4. EXCAVATED SOILS SHALL BE THOROUGHLY COMPACTED ONCE COMPLETE WITH THE INSTALLATION OF EROSION CONTROL DEVICES.
 5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED WITHOUT FURTHER COMPENSATION TO CONTRACTOR.
 6. STRAW WATTLES AND SILT FENCE SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL-NESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

TYPICAL STRAW WATTLE FOR EROSION CONTROL
SCALE: NOT TO SCALE

1/26/2022 3:43 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWING\FILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT DETAILS - CIVIL.DWG

1/26/2022 3:46 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCADD\DRAWINGFILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACTEASEMENT PLAN - 106-4.DWG



N/F
BAY STATE CRUCIBLE CO
740 WEST WATER STREET - EAST TAUNTON, MA
ASSESS. MAP 106 - PARCEL ID: 106-5
DEED BK 001312 / PAGE 00284

AREA OF TEMPORARY EASEMENT : 8,392 SQ. FEET

LIMIT OF TEMPORARY EASEMENT

N/F
INDUSTRIAL REALTY PROPERTIES
700 WEST WATER STREET - TAUNTON, MA
ASSESS. MAP 106 - PARCEL ID: 106-4
DEED BK 11959 / PAGE 336

N/F
BROCKTON TAUNTON GAS CO
WEST WATER STREET - WESTBOROUGH, MA
ASSESS. MAP 106 - PARCEL ID: 106-6
DEED BK 001057 / PAGE 00259

40' WIDE RIGHT OF WAY
SEE DEED BOOK 384, PG 693
BENEFITS INDUSTRIAL REALTY
PROPERTIES & CITY OF
TAUNTON

PREPARED BY

BETA
www.BETA-Inc.com

REGISTERED PROFESSIONAL

JOSEPH FEDERICO, JR.
No. 30863
REGISTERED PROFESSIONAL ENGINEER

Joseph Federico Jr.

SUBCONSULTANT

PROJECT

**MAIN LIFT
PUMP STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**EASEMENT
PLAN 106-4**

NO.	REVISIONS	DATE

DRAWN BY: BM
DESIGNED BY: AJG
CHECKED BY: CC
ISSUE DATE: 3/29/2021
BETA JOB NO.: 5530

SCALE

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

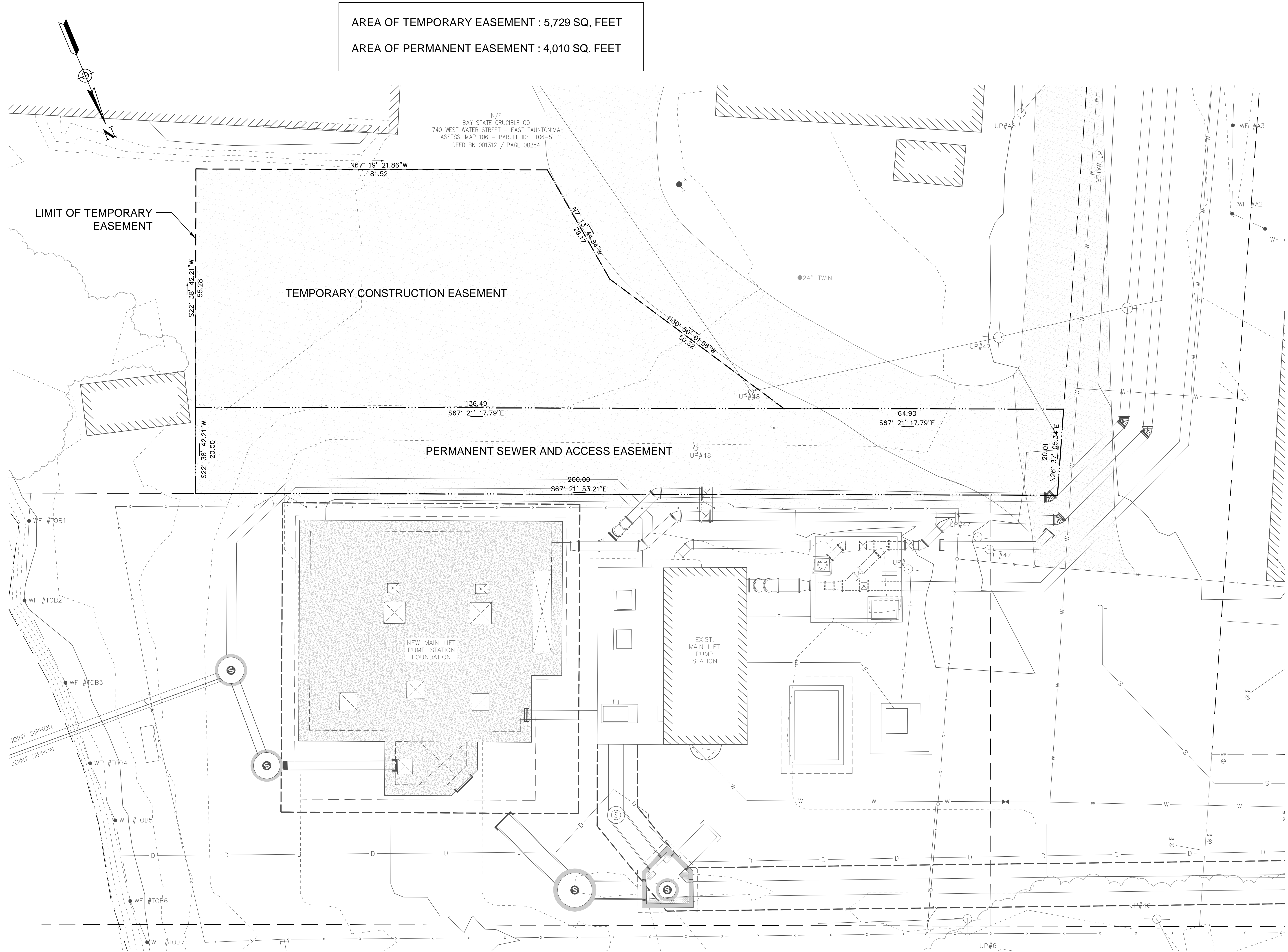
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SHEET NO. EP-1

1/26/2022 3:54 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCADD\DRAWINGFILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT\EASEMENT PLAN - 106-5.DWG

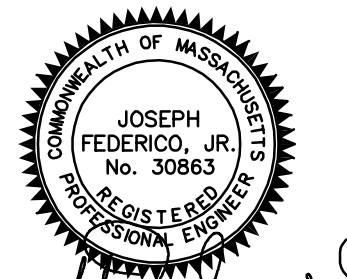
AREA OF TEMPORARY EASEMENT : 5,729 SQ. FEET
 AREA OF PERMANENT EASEMENT : 4,010 SQ. FEET



PREPARED BY



REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

**MAIN LIFT
 PUMP STATION
 IMPROVEMENTS**

TAUNTON, MA

TITLE

**EASEMENT
 PLAN 106-5**

NO.	REVISIONS	DATE

DRAWN BY:	BM
DESIGNED BY:	AJG
CHECKED BY:	CC
ISSUE DATE:	3/29/2021
BETA JOB NO.:	5530

SCALE



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Not for Construction

SHEET NO.

EP-2

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE AND PREVAILING CODES, BY-LAWS AND ORDINANCES.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE STARTING WORK.
3. INFORMATION CALLED OUT ON ONE SHEET WILL BE BINDING AS IF CALLED FOR BY ALL. ANY WORK SHOWN OR REFERRED TO ON ANY ONE DOCUMENT SHALL BE PROVIDED AS THOUGH SHOWN ON ALL DOCUMENTS. DETAILS TAKE PRECEDENCE OVER GENERAL WORK, TYPICAL.
4. THE CHARACTER AND SCOPE OF THE WORK ARE ILLUSTRATED BY THE DRAWINGS. TO INTERPRET AND EXPLAIN THE DRAWINGS, OTHER WRITTEN AND GRAPHIC INFORMATION DEEMED NECESSARY WILL BE FURNISHED TO THE CONTRACTOR AND THE SUBCONTRACTORS WHEN AND AS REQUIRED BY THE WORK, AND IT IS UNDERSTOOD THAT SAID ADDITIONAL INFORMATION AND DRAWINGS SHALL BECOME PART OF THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR AND SUBCONTRACTOR WILL NOTIFY THE ENGINEER OF ANY ERRORS, OMISSIONS, CONFLICTS OR AMBIGUITIES IN AND BETWEEN THE DRAWINGS THEMSELVES, OR WITH FIELD CONDITIONS, AND IN A TIMELY MANNER SHALL REQUEST CLARIFICATIONS PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK. IF SUCH NOTICE IS NOT FURNISHED TO THE ENGINEER, THE CONTRACTOR AND SUBCONTRACTOR WILL BE DEEMED TO HAVE INSPECTED THE DRAWINGS AND FOUND THEM IN PROPER FORM FOR EXECUTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS, AND SHALL FILE SEPARATE APPLICATIONS FOR PERMITS AND SHALL ARRANGE FOR ALL NECESSARY INSPECTIONS AND APPROVALS.
7. THE CONTRACT FOR CONSTRUCTION IS BASED ON THE STANDARDS OF QUALITY ESTABLISHED IN THE CONTRACT DOCUMENTS. SUBSTITUTIONS WILL ONLY BE CONSIDERED WHEN SUBSTANTIATED BY THE CONTRACTOR'S SUBMITTAL OF REQUIRED DATA.
8. THE CONTRACTOR AND SUBCONTRACTOR(S) SHALL SUBMIT ALL REQUESTS FOR SUBSTITUTIONS OF SPECIFIC ITEMS TO THE ENGINEER IN WRITING, FOR APPROVAL. WHERE "APPROVED EQUAL" IS USED, IT SHALL BE UNDERSTOOD THAT THE SUBSTITUTE SHALL BE BY JUDGMENT AND APPROVAL OF THE ENGINEER AND THAT NOTIFICATION SHALL BE MADE PRIOR TO INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ASSURANCE OF COMPLIANCE AND QUALIFICATION FOR ALL SUBSTITUTIONS AND CO-ORDINATION CHANGES THROUGH ALL DISCIPLINES.
9. THE CONTRACTOR AND SUBCONTRACTOR(S) SHALL SUBMIT MANUFACTURER'S "CUTS" PRODUCT INFORMATION OF ITEMS FOR THE WORK, AND SHOP DRAWINGS AND SAMPLES AS REQUIRED BY THE ENGINEER. WORK AFFECTED BY THESE SUBMISSIONS SHALL NOT PROCEED PRIOR TO RECEIPT OF THE ENGINEER'S APPROVAL.
10. THE APPROVAL OF SHOP DRAWINGS AND SUBMITTALS SHALL BE FOR COMPLIANCE WITH DESIGN INTENT, AND SHALL BE GENERAL AND/OR FOR AESTHETIC INTERPRETATION, AND, EXCEPT AS OTHERWISE INDICATED, SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR AND SUBCONTRACTOR OF RESPONSIBILITY FOR ERRORS IN DETAILS, DIMENSIONS OR OTHERWISE, WHICH MAY EXIST. FURTHERMORE, APPROVAL OF SHOP DRAWINGS AND SUBMITTALS SHALL NOT BE CONSTRUED AS ALLOWING ANY DEPARTURE FROM ADDITIONAL DETAILS OR INSTRUCTIONS PREVIOUSLY FURNISHED BY THE ENGINEER.
11. STATEMENT OF INTENT: THE INTENT OF THE PROJECT IS TO COMPLETE THE WORK DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS FOR THE CONSTRUCTION OF THE TAUNTON PUMP STATION REPLACEMENT, TAUNTON, MA.
12. THE INTENT OF THE DOCUMENTS IS TO DESCRIBE THE WORK NECESSARY FOR THE PROJECT TO BE COMPLETE, USABLE FOR ITS INTENDED PURPOSE, AND FULLY FUNCTIONAL AT THE CONCLUSION OF THE PROJECT. ALL REQUIRED STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE-PROTECTION WORK IS TO BE INCLUDED.
13. ACCEPTANCE OF DOCUMENTS: THE CONTRACTOR AND SUBCONTRACTORS ARE TO REVIEW THE DOCUMENTS AND EXAMINE THE SITE. EXECUTION OF A CONTRACT FOR CONSTRUCTION WILL CONSTITUTE ACCEPTANCE BY THE CONTRACTOR AND SUBCONTRACTOR(S) OF THE ADEQUACY OF THE DOCUMENTS TO ACHIEVE THE INTENT OF THE WORK.
14. THE CONTRACTOR SHALL PROVIDE FIRE-TREATED-BLOCKING AT ALL CEILINGS, FLOORS, AND FURRED-DOWN SPACES. FIRE-STOPPING AND SMOKE SEAL SHALL BE PROVIDED WHERE FIRE RATED OCCUPANCIES AND ASSEMBLIES MEET.
15. THE CONTRACTOR SHALL PROTECT ALL EXISTING SURFACES, MATERIALS AND ASSEMBLIES DURING THE CONSTRUCTION PERIOD.
16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING FIRE DEPARTMENT FIRE-WATCH AS REQUIRED BY CODES AND ORDINANCES WHENEVER OPEN FLAME OR WELDING IS REQUIRED.
17. ALL LIFE-SAFETY DEVICES SHALL BE (HARD-WIRE) PROVIDED AS REQUIRED BY NATIONAL AND LOCAL CODES, ORDINANCES AND REGULATIONS.
18. THE CONTRACTOR SHALL MAKE SAFE ALL EXISTING AND NEW PLUMBING, FIRE-PROTECTION, MECHANICAL AND ELECTRICAL SERVICES AND UTILITIES ON SITE.
19. ALL DEBRIS, DEMOLITION AND CONSTRUCTION WASTE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A SAFE AND LEGAL MANNER. RECYCLING IS STRONGLY ENCOURAGED. ANY AND ALL ITEMS SCHEDULED FOR REMOVAL OR DEMOLITION WITH SALVAGE OR HISTORICAL VALUE SHALL REMAIN THE PROPERTY OF THE OWNER - THESE ITEMS SHALL BE CAREFULLY REMOVED AND PROTECTED AND TURNED-OVER TO THE OWNER.
20. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A SAFE, NEAT AND ORDERLY MANNER.
21. THE CONTRACTOR SHALL PATCH OR REPLACE ALL EXISTING SURFACES WHERE SELECTIVE DEMOLITION MAY HAVE CAUSED DAMAGE DURING THE CONSTRUCTION.
22. THE CONTRACTOR SHALL ENSURE THAT NO WORK SHALL OCCUR OUTSIDE THE PROPOSED LIMIT OF WORK AREA AS NOTED ON THE DOCUMENTS AND AS NOTED HEREIN, WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE ENGINEER.
23. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND LIABILITY FOR DAMAGE TO, AND SHALL TAKE CARE AND CAUTION TO PROTECT ALL POWER, TELEPHONE, TELECOMMUNICATIONS, CABLE TV, ETCETERA SYSTEMS, INCLUDING CONDUIT, LINES, WIRES AND CABLES, WHETHER CONCEALED, UNDERGROUND OR OVERHEAD.
24. THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION ACCESS PLAN DETAILING PROPOSED ACCESS REQUIREMENTS, LAY-DOWN AND STAGING AREAS, INCLUDING ACCESS FOR TRUCKING TO AND FROM THE SITE DURING CONSTRUCTION. THIS PLAN REQUIRES THE APPROVAL OF THE ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
25. CONTRACTOR SHALL REVIEW ALL ELECTRICAL DEVICE ROUGH-IN LOCATIONS PRIOR TO INSTALLATION AND SHALL COORDINATE BETWEEN TRADES WHEN LOCATING DEVICES IN CONCRETE SLABS AND/OR COLUMNS.

PREPARED BY:



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PLOT DATE: 8/29/2021 3:59:16 PM

REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B
Concord, MA 01742
978.371.7500
280 Elm Street
South Dartmouth, MA 02748
508.999.0440

PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

GENERAL NOTES

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

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CONTRACT 2

SHEET NO.

A-01

ABBREVIATIONS

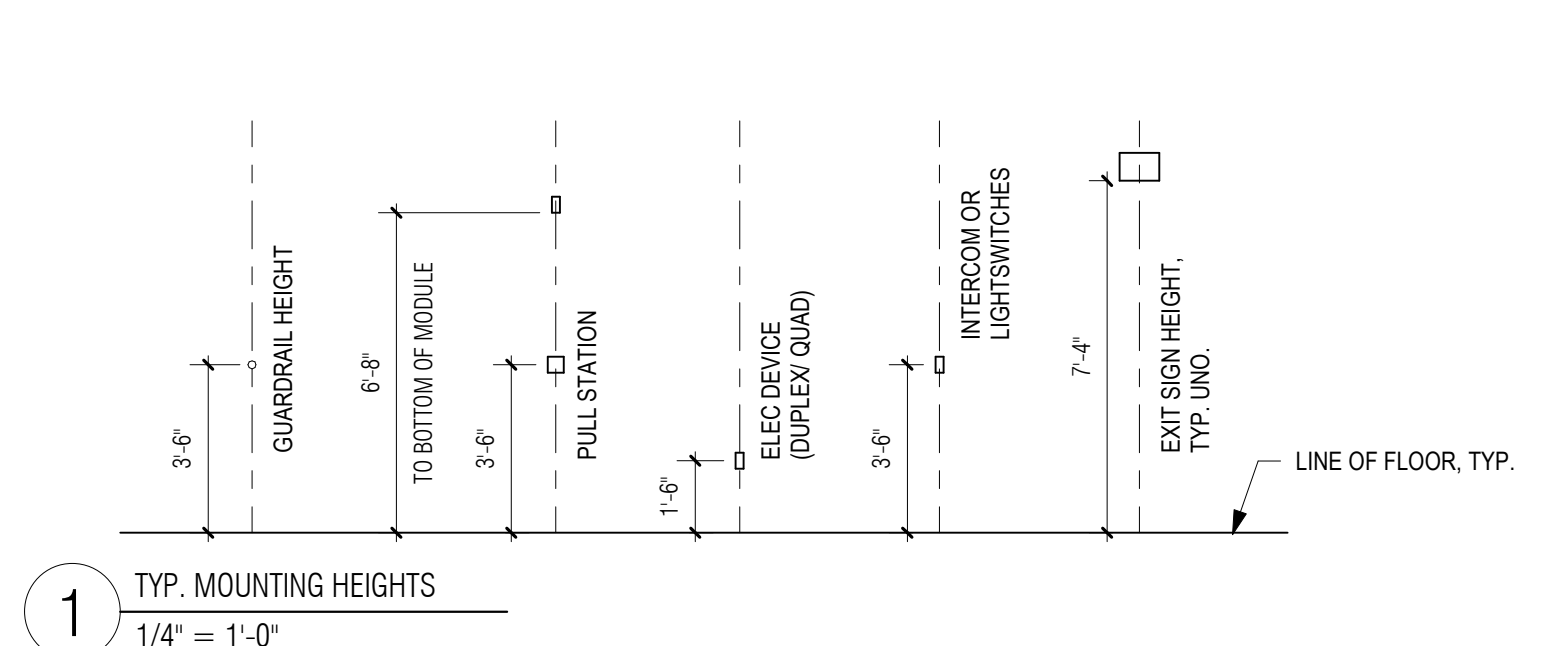
Table listing abbreviations for construction terms such as AFF ABOVE FINISHED FLOOR, AH ACCESS HATCH, AP ACCESS PANEL, etc., organized in columns.

MATERIAL LEGEND

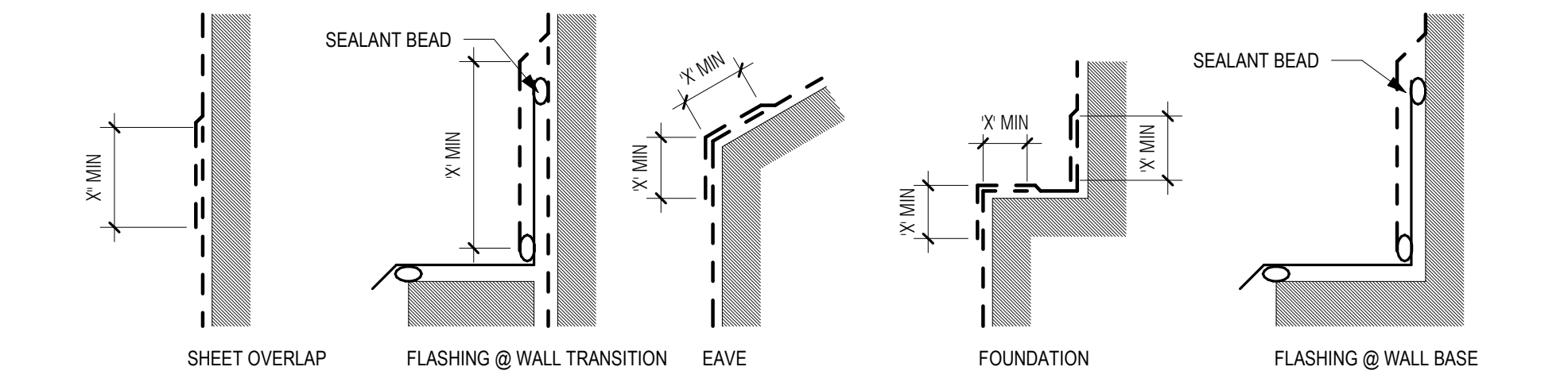
Table mapping material patterns to names like UNDISTURBED COMPACTED SOIL, ASPHALT PAVEMENT, CONCRETE, BRICK, STEEL, etc.

SYMBOL LEGEND

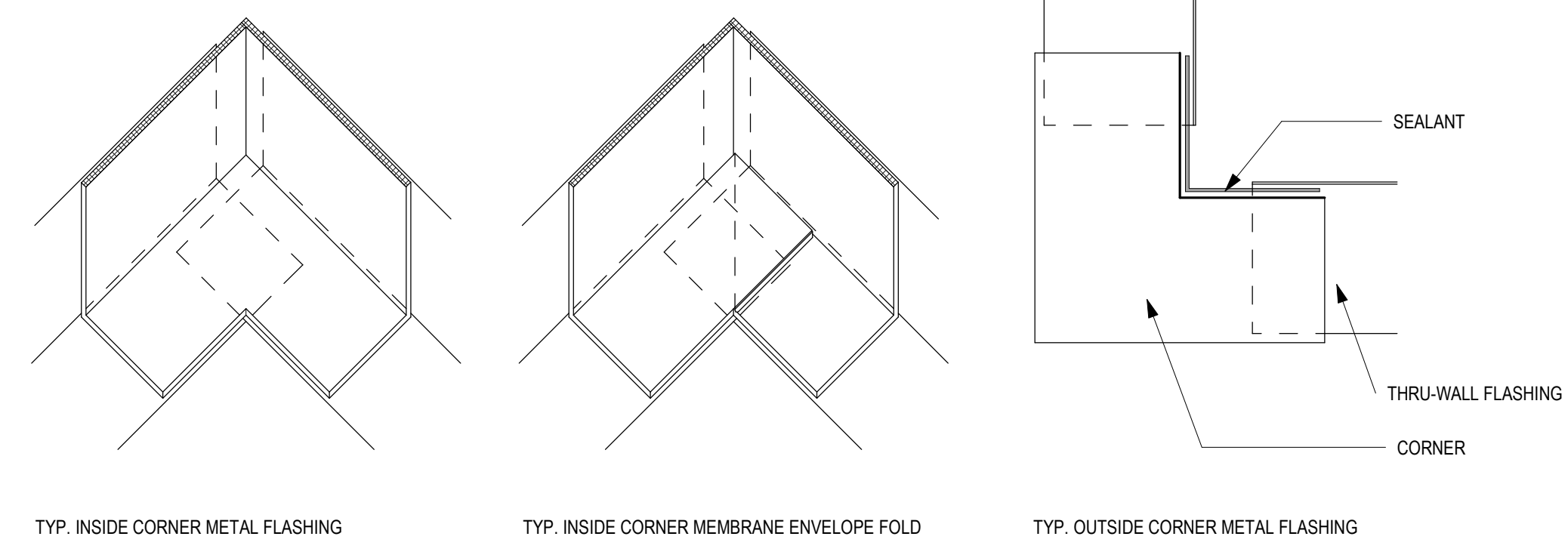
Table defining symbols for drawing elements like DRAWING NO., SHEET NO., DETAIL NO., ROOM NO., etc.



1 TYP. MOUNTING HEIGHTS 1/4" = 1'-0"



2 WATERPROOFING DETAILS 3/8" = 1'-0"



3 WATERPROOFING DETAILS 3D 3/8" = 1'-0"

Table of ELECTRICAL/ALARMS symbols including Fire Alarm Audio, Strobes, Manual Alarm Pull Station, Power/Utilities, and Floor Drains.

Table of ELECTRICAL / FIRE ALARM symbols including Occupancy Sensors, Heat Sensors, Smoke Detectors, Exit Lights, and Fire Protection devices.

PREPARED BY:

BETA logo and company information: www.BETA-Inc.com, 8/29/2021 3:59:17 PM.

REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns ARCHITECTS + PLANNERS logo.

30 Monument Square, Suite 200B, Concord, MA 01742, 978.371.7500.

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS

REVISIONS

Table with columns for NO., DESCRIPTION, and DATE for tracking revisions.

DRAWN BY: TM

DESIGNED BY: DSK

CHECKED BY: MPS

DSK JOB No.: TPS-1795 DATE: 04/16/2021

BETA JOB No.: 5530

SCALE

As indicated

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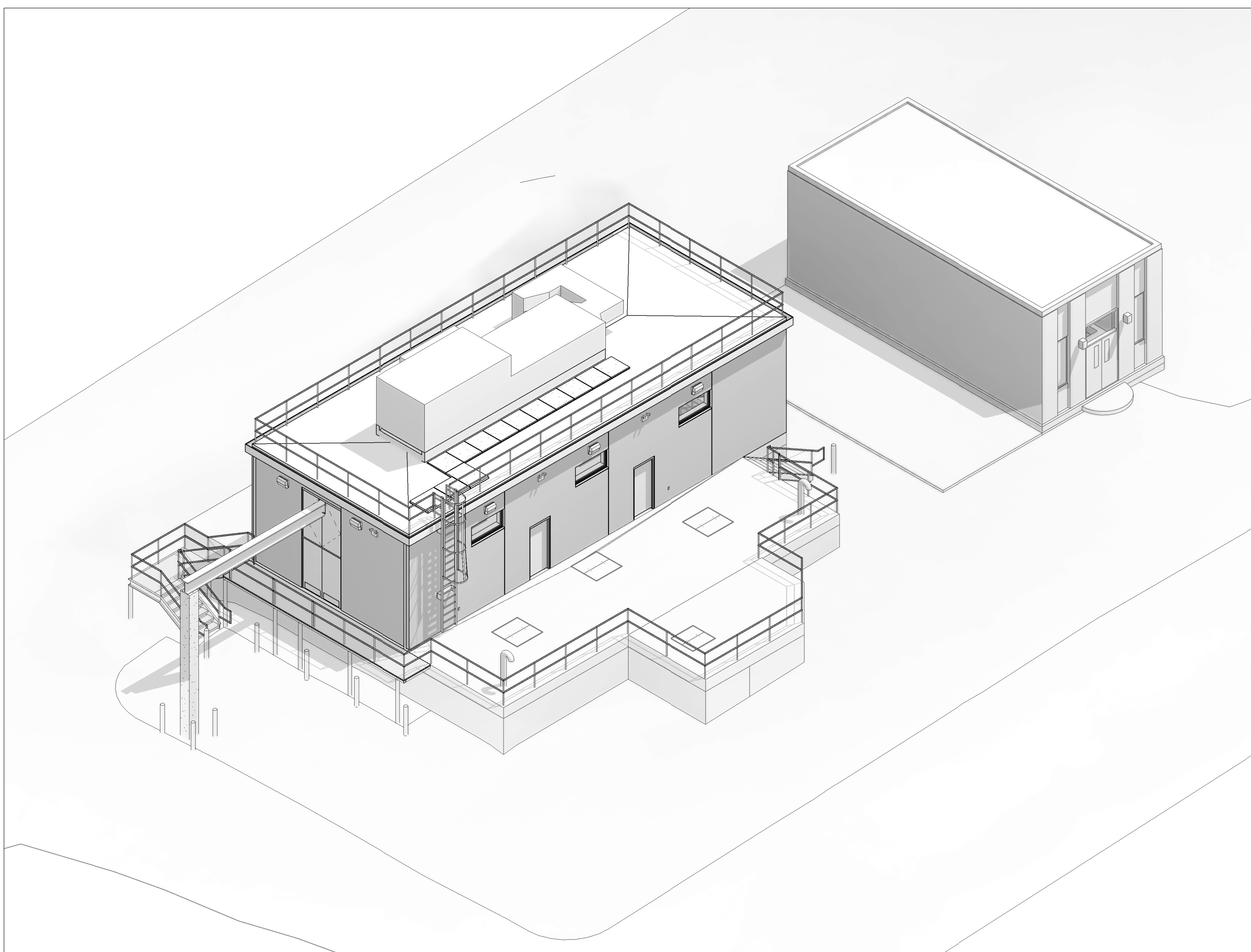
CONTRACT 2

SHEET NO.

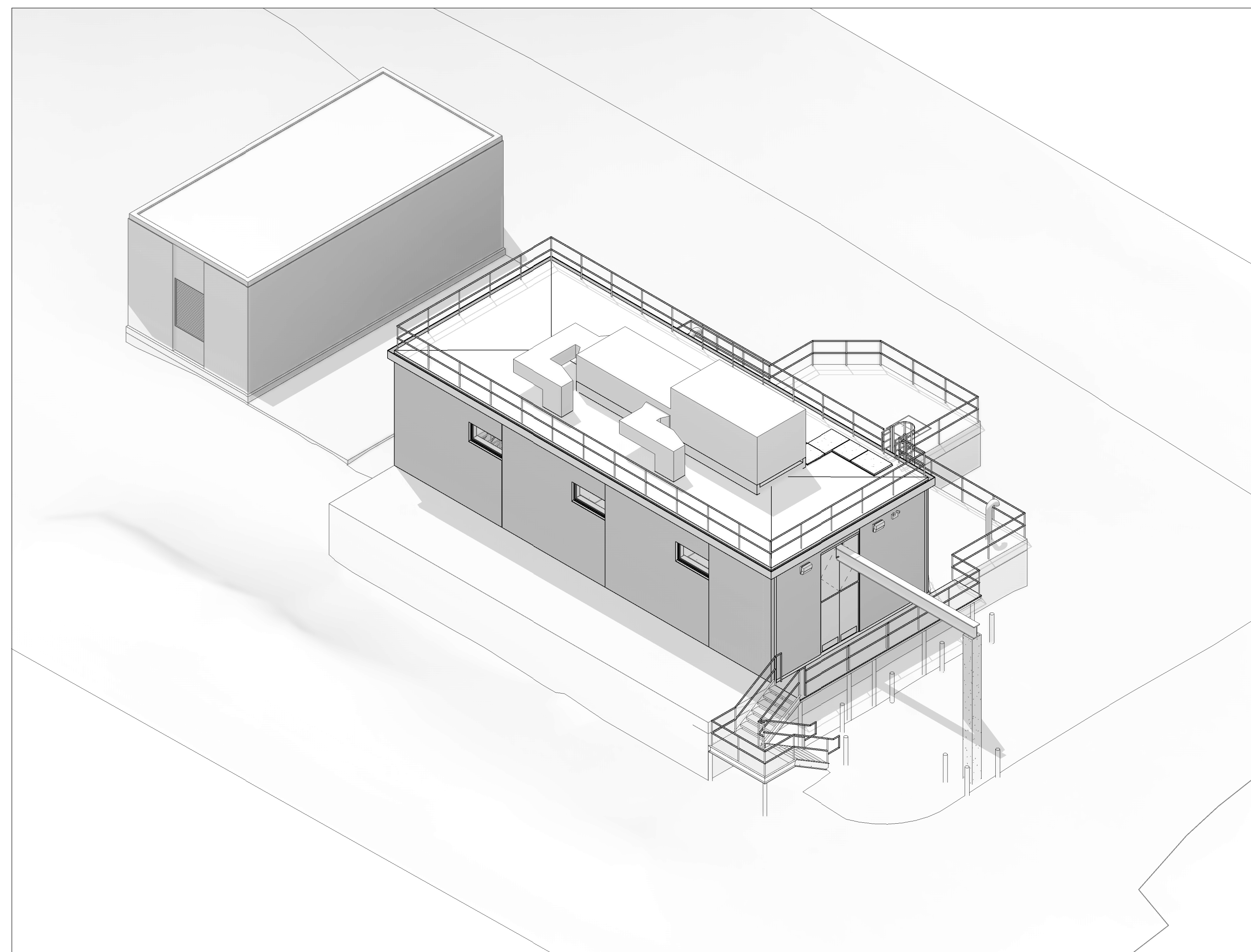
A-02

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\5601-REV\FAMILY\MESIT\TITLEBLOCKS\KOC_Arch D 24x36 Vertical Title - BETA

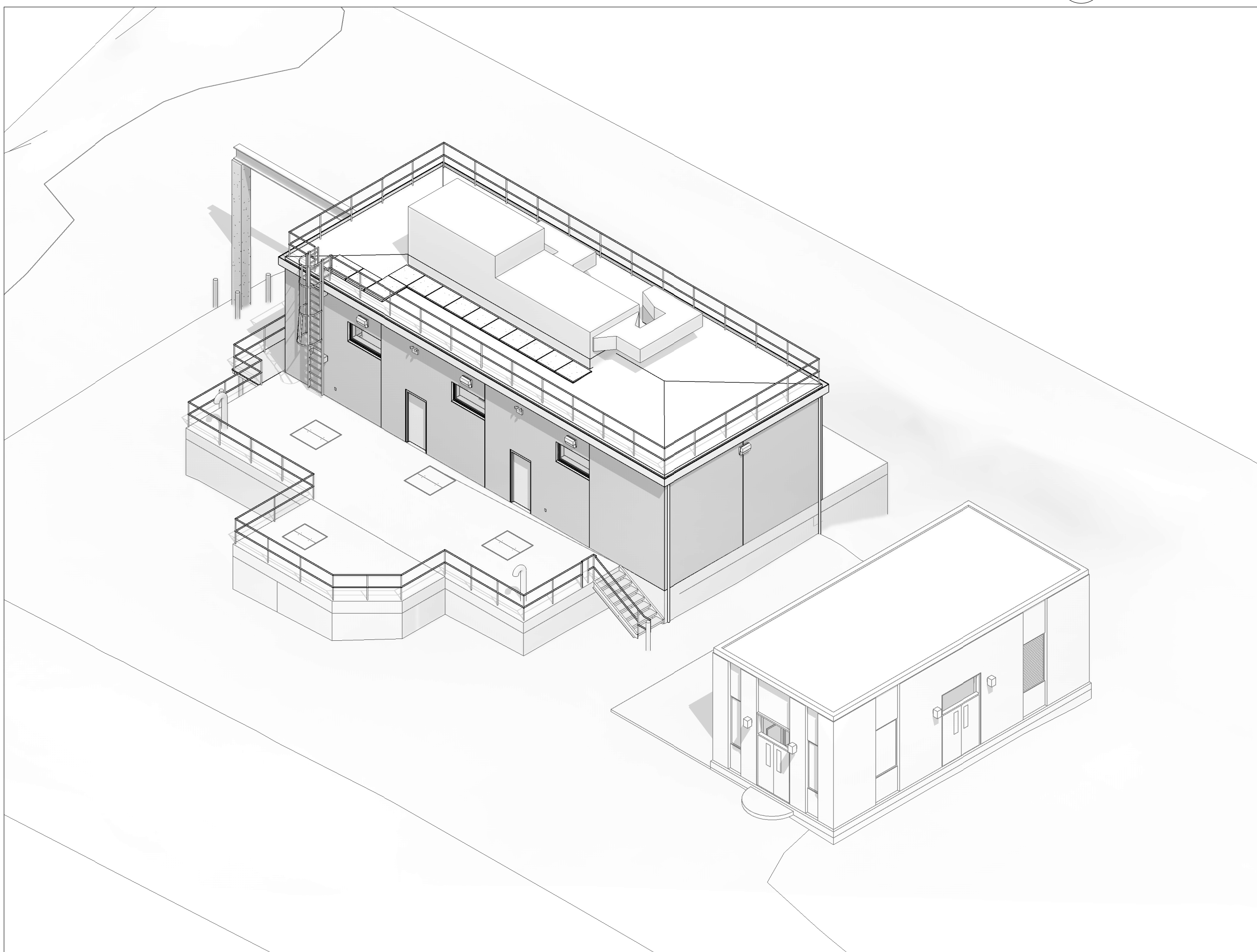
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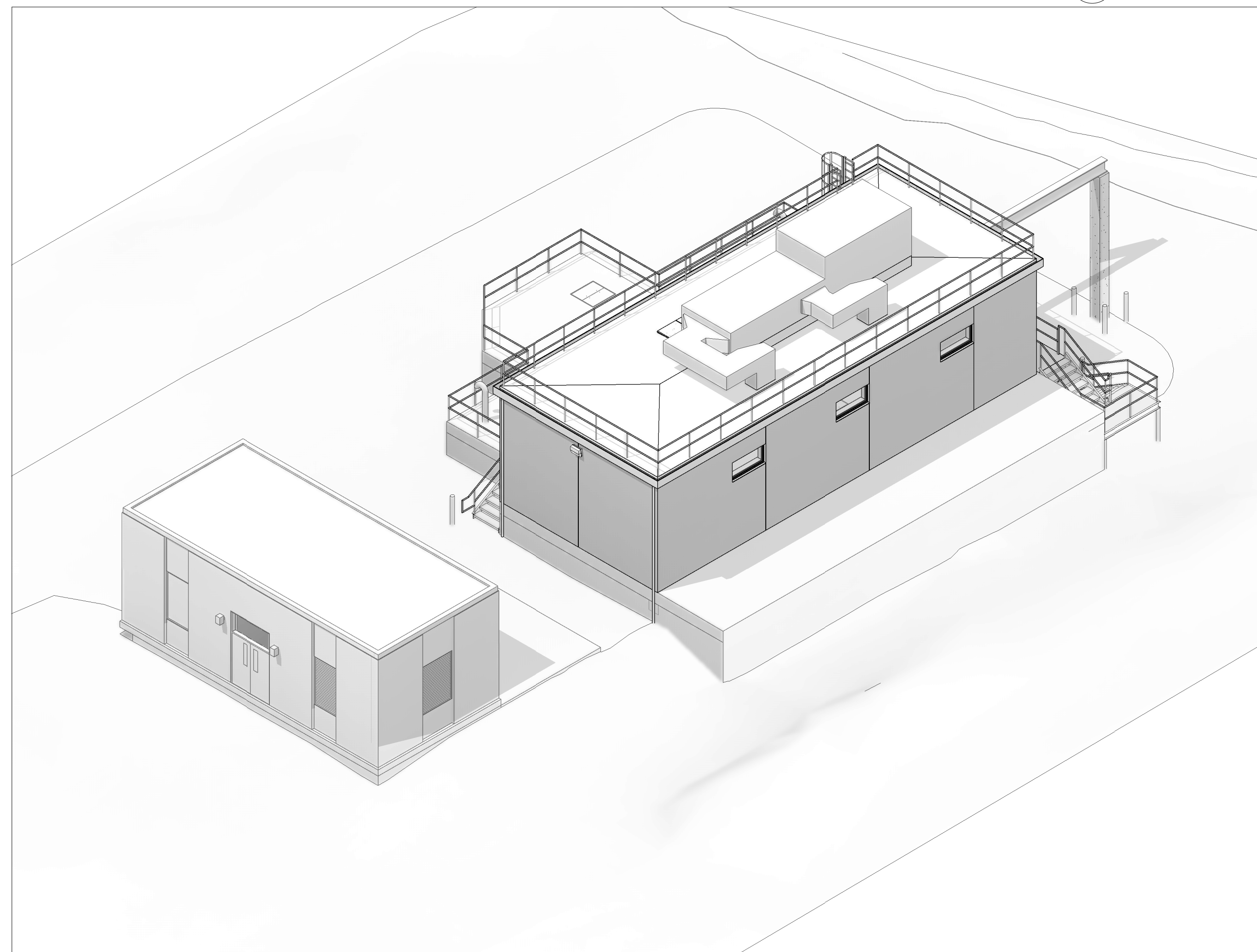
4 3D-SW-CORNER
NOT TO SCALE. FOR REFERENCE ONLY



2 3D-NW-CORNER
NOT TO SCALE. FOR REFERENCE ONLY



3 3D-SE-CORNER



1 3D-NE-CORNER
NOT TO SCALE. FOR REFERENCE ONLY

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REGISTERED PROFESSIONAL



SUBCONSULTANT:

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PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

3D VIEWS

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY:	TM
DESIGNED BY:	DSK
CHECKED BY:	MPS
DSK JOB No.:	TPS-1795
BETA JOB No.:	5530
DATE:	04/16/2021

SCALE

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CONTRACT 2

SHEET NO.

A-03

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\601-REV\TITLEBLOCKS\KOC_Arch D 24x36 Vertical Title - BETA

RENOVATION NOTES	
NOTE	DESCRIPTION
1	REPLACE ALL EXISTING WINDOWS AND DOOR FRAMES AND UNITS W/ INSULATED, LAMINATED GLAZED UNITS OF SAME DIMENSIONS AND COLOR. SEE SPECS, TYP.
2	REPLACE ALL LOUVERS W/ NEW UNITS OF SAME DIMENSIONS AND FREE AREA. SEE SPECS, TYP.
3	POWER WASH BRICK AND SIDING. REPOINT AND REPLACE ANY DAMAGED OR MISSING MORTAR. COLOR TO MATCH EXISTING, TYP.
4	PROVIDE NEW LIGHTING AT DOORS TO MATCH EXISTING LOCATIONS (SEE ELECTRICAL LIGHTING SCHEDULE, TYP).
5	REMOVE AND REPLACE ROOF W/ SIMILAR SLOPE AND MATERIALS. ADD INSULATION TO ROOF ASSEMBLY PER CODE, TYP.
6	PROVIDE NEW INTERIOR PAINT ON EXISTING INTERIOR WALLS THAT CURRENTLY HAVE PAINT. SEE SPECS, TYP. VERIFY IN FIELD, TYP. PROPERLY PREPARE AND PRIME EXISTING SURFACES TO RECEIVE NEW PAINT, TYP.

EXISTING WINDOW AND LOUVER SCHEDULE														
WINDOW NUMBER	WINDOW TYPE	LOCATION		WINDOW SIZE		FRAME MATERIAL		FINISH			MATERIAL		NOTES	
		ROOM NUMBER	ROOM NAME	WIDTH	HEIGHT	EXT	INT	GLAZING	EXT	INT	LOUVER	SILL TYPE		HEAD TYPE
WINDOW														
EXIST. STATION														
EX-01		EX-102	EXISTING WC	2'-0"	6'-8"									
EX-02		EX-101	EXISTING PUMP STATION CONTROL ROOM	2'-0"	6'-8"									
EX-03		EX-101	EXISTING PUMP STATION CONTROL ROOM	3'-10"	6'-8"									
LOUVER														
EXIST. STATION														
EX-04		EX-101	EXISTING PUMP STATION CONTROL ROOM	3'-10"	6'-8"									
EX-05		EX-101	EXISTING PUMP STATION CONTROL ROOM	5'-0"	6'-8"									
EXISTING PUMP STATION - DOOR SCHEDULE														
DOOR NUMBER	DOOR TYPE	LOCATION		DOOR			FRAME							NOTES
		ROOM NUMBER	ROOM NAME	PANEL SIZE	PANEL TOTAL PANEL	THICKNESS	COUNT	MAT'L	FINISH	GLAZING TYPE	FRAME TYPE	THRESHOLD TYPE	GASKET	
EXIST. STATION														
EX-D-01														
EX-D-02														
EX-D-03	FL			INT	2'-8"	6'-8"	0'-1 3/4"	1	STEEL	N/A	B		Yes	HD-5

PREPARED BY:



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REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

EXISTING SEWAGE PUMP STATION DRAWINGS

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

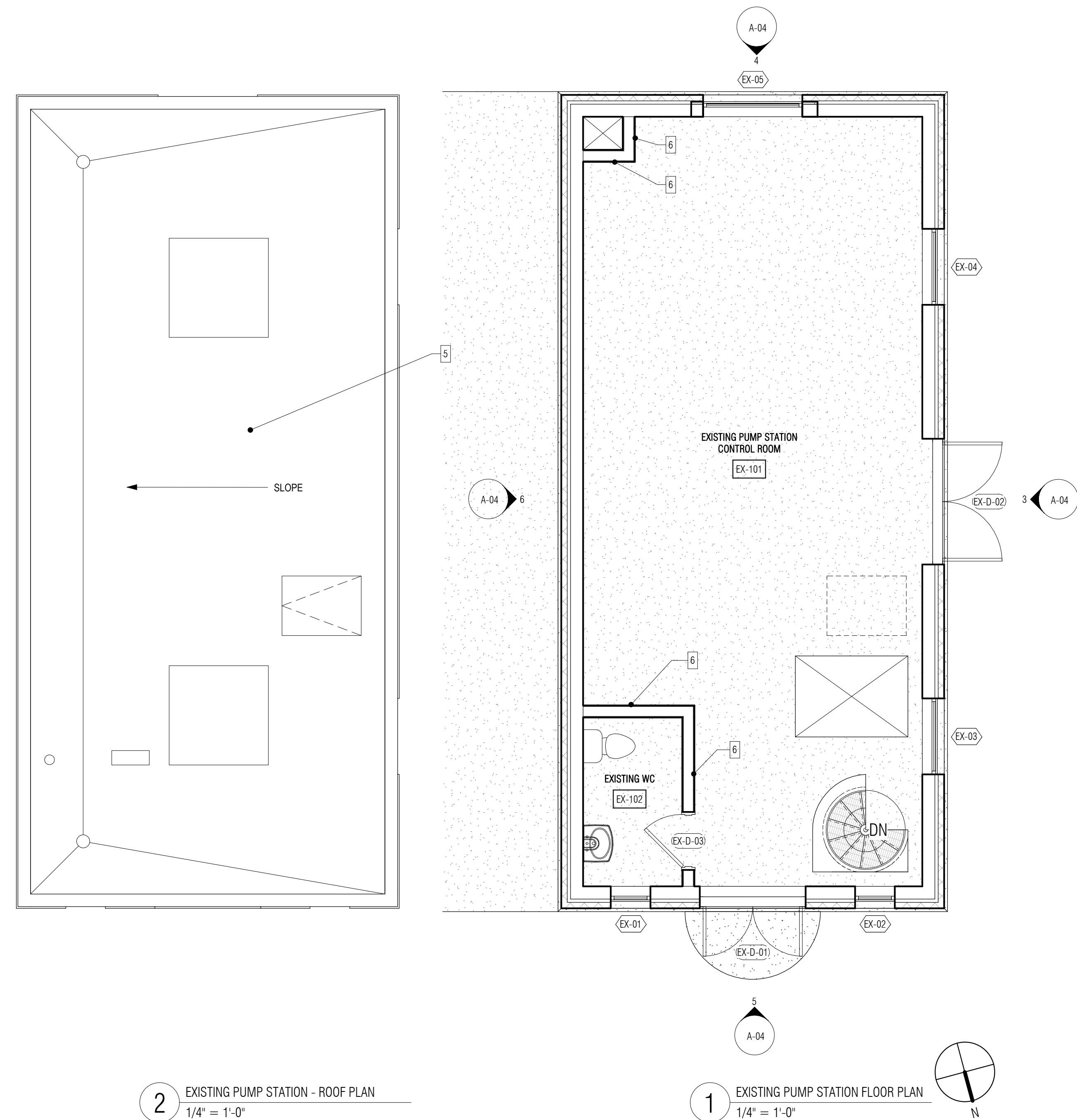
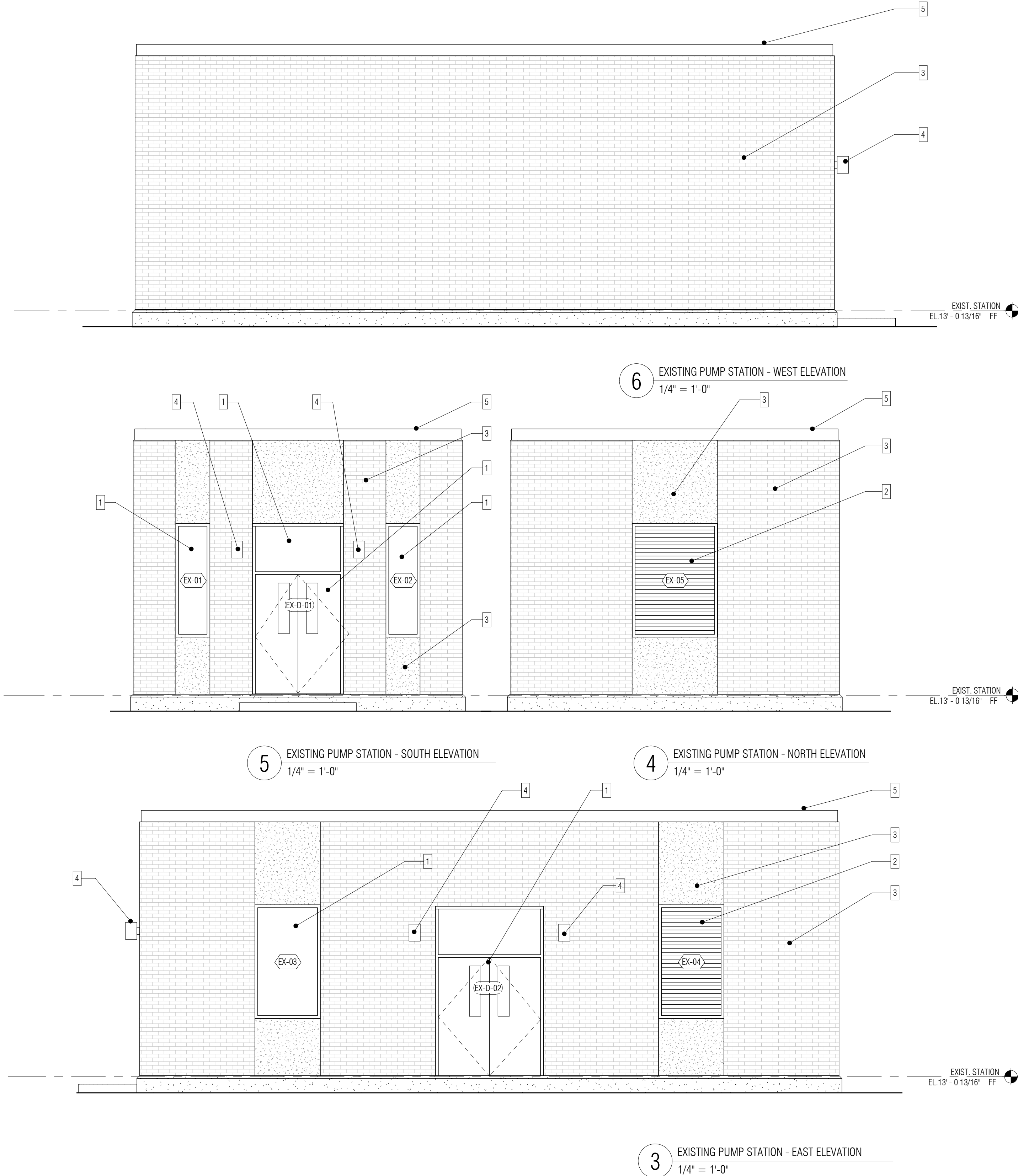
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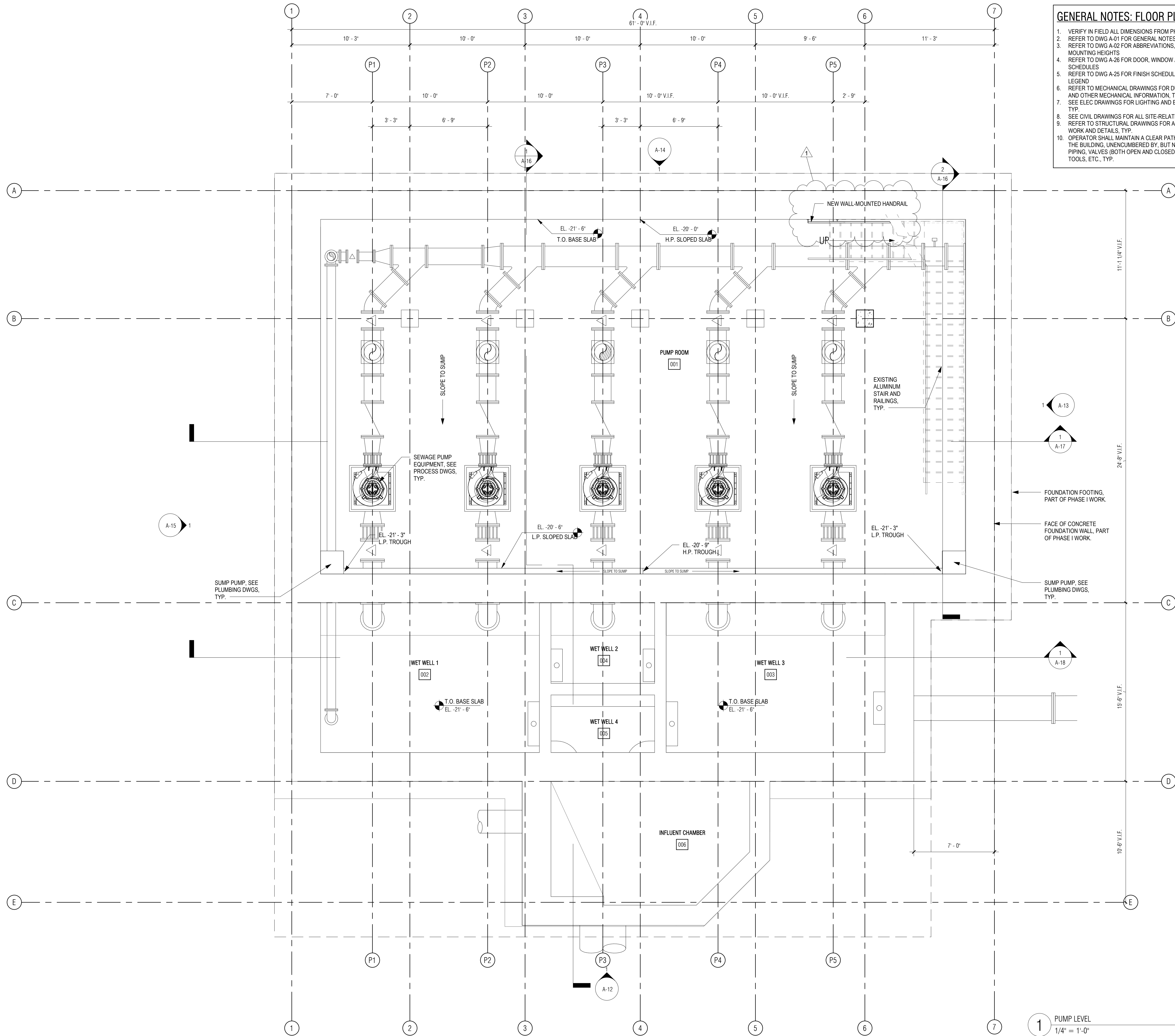
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CONTRACT 2

SHEET NO.

A-04





- GENERAL NOTES: FLOOR PLANS**
1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
 2. REFER TO DWG A-01 FOR GENERAL NOTES
 3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
 4. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
 5. REFER TO DWG A-25 FOR FINISH SCHEDULE AND MATERIALS LEGEND
 6. REFER TO MECHANICAL DRAWINGS FOR DUCTING LAYOUTS AND OTHER MECHANICAL INFORMATION, TYP.
 7. SEE ELEC DRAWINGS FOR LIGHTING AND ELEC INFORMATION, TYP.
 8. SEE CIVIL DRAWINGS FOR ALL SITE-RELATED WORK, TYP.
 9. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL WORK AND DETAILS, TYP.
 10. OPERATOR SHALL MAINTAIN A CLEAR PATH OF TRAVEL WITHIN THE BUILDING, UNENCUMBERED BY, BUT NOT LIMITED TO PIPING, VALVES (BOTH OPEN AND CLOSED), EQUIPMENT, TOOLS, ETC., TYP.

PREPARED BY:

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REGISTERED PROFESSIONAL

SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

PUMP ROOM LEVEL PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	08/30/2021	Railing

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

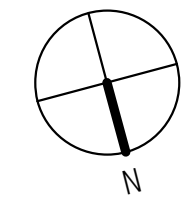
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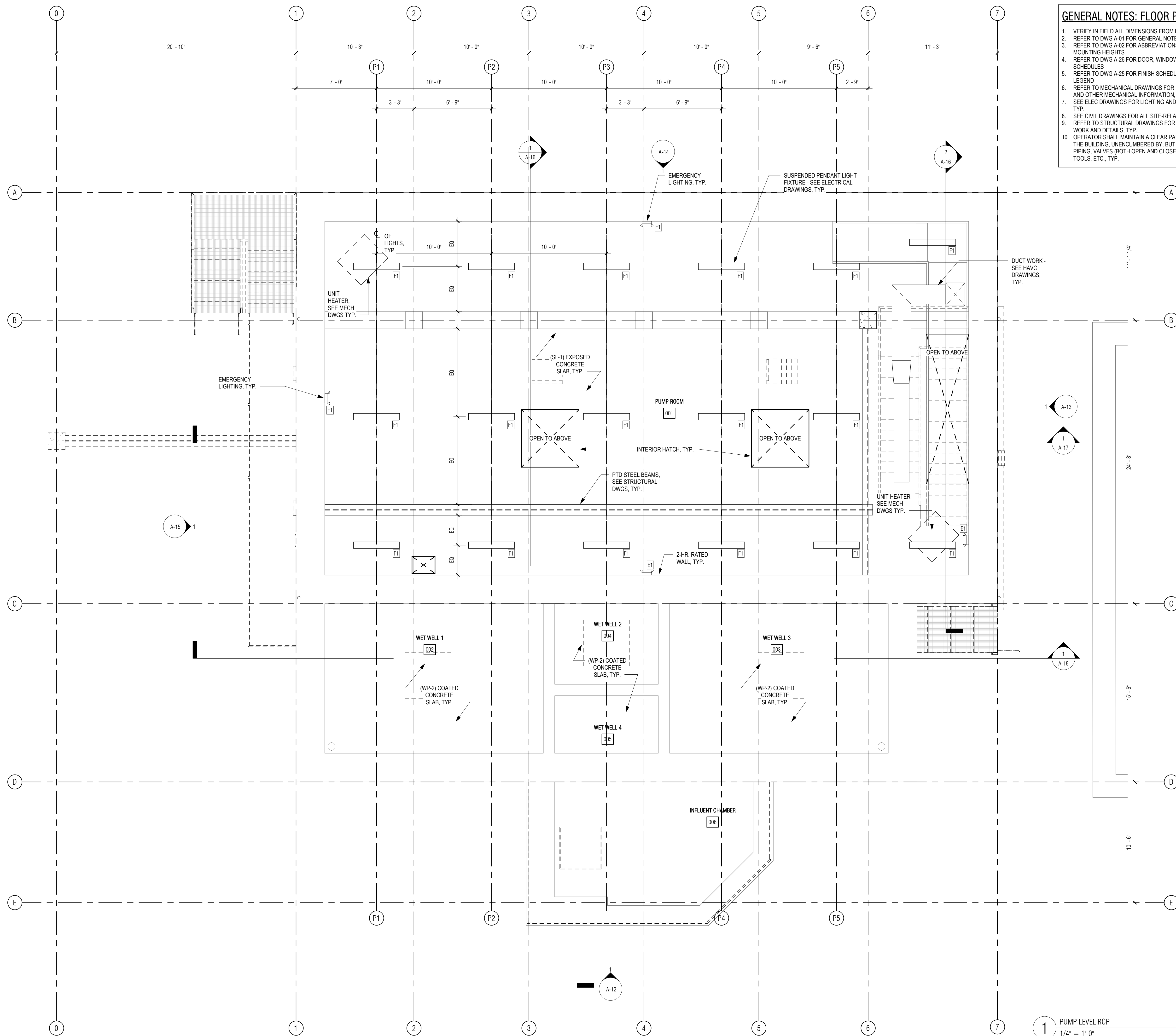
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CONTRACT 2

SHEET NO. **A-05**

1 PUMP LEVEL
1/4" = 1'-0"





GENERAL NOTES: FLOOR PLANS

1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
2. REFER TO DWG A-01 FOR GENERAL NOTES.
3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS.
4. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES.
5. REFER TO DWG A-25 FOR FINISH SCHEDULE AND MATERIALS LEGEND.
6. REFER TO MECHANICAL DRAWINGS FOR DUCTING LAYOUTS AND OTHER MECHANICAL INFORMATION, TYP.
7. SEE ELEC DRAWINGS FOR LIGHTING AND ELEC INFORMATION, TYP.
8. SEE CIVIL DRAWINGS FOR ALL SITE-RELATED WORK, TYP.
9. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL WORK AND DETAILS, TYP.
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PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

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ARCHITECTS + PLANNERS

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PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

PUMP ROOM LEVEL RCP

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

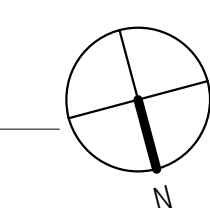
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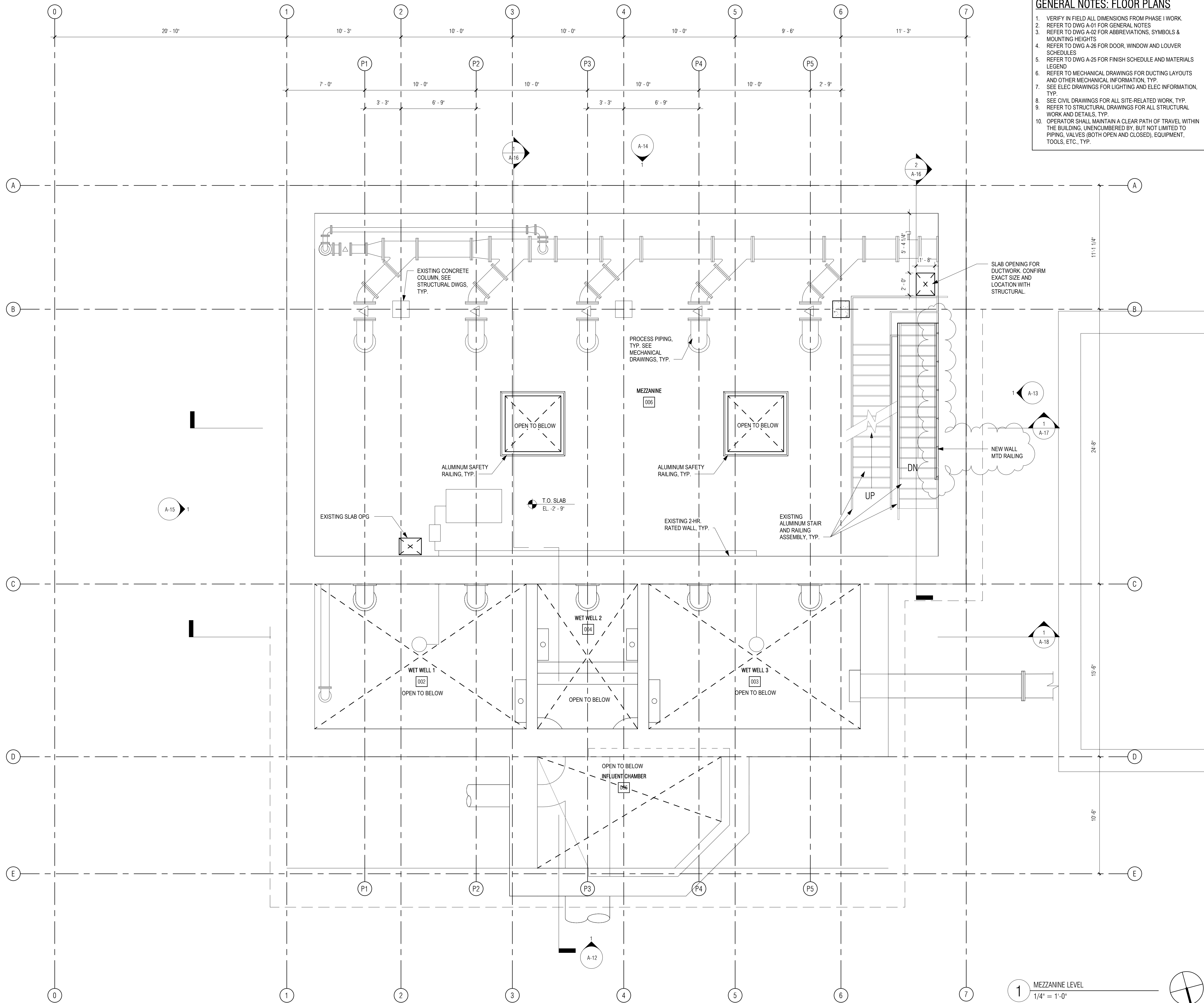
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CONTRACT 2

SHEET NO. **A-06**

1 PUMP LEVEL RCP
1/4" = 1'-0"





- GENERAL NOTES: FLOOR PLANS**
1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
 2. REFER TO DWG A-01 FOR GENERAL NOTES
 3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
 4. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
 5. REFER TO DWG A-25 FOR FINISH SCHEDULE AND MATERIALS LEGEND
 6. REFER TO MECHANICAL DRAWINGS FOR DUCTING LAYOUTS AND OTHER MECHANICAL INFORMATION, TYP.
 7. SEE ELEC DRAWINGS FOR LIGHTING AND ELEC INFORMATION, TYP.
 8. SEE CIVIL DRAWINGS FOR ALL SITE-RELATED WORK, TYP.
 9. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL WORK AND DETAILS, TYP.
 10. OPERATOR SHALL MAINTAIN A CLEAR PATH OF TRAVEL WITHIN THE BUILDING, UNENCUMBERED BY, BUT NOT LIMITED TO PIPING, VALVES (BOTH OPEN AND CLOSED), EQUIPMENT, TOOLS, ETC., TYP.

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PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

PUMP ROOM MEZZANINE LEVEL PLAN

REVISIONS

NO.	DESCRIPTION	DATE
1	08/30/2021	Railing

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

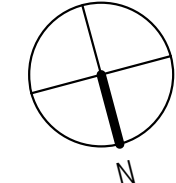
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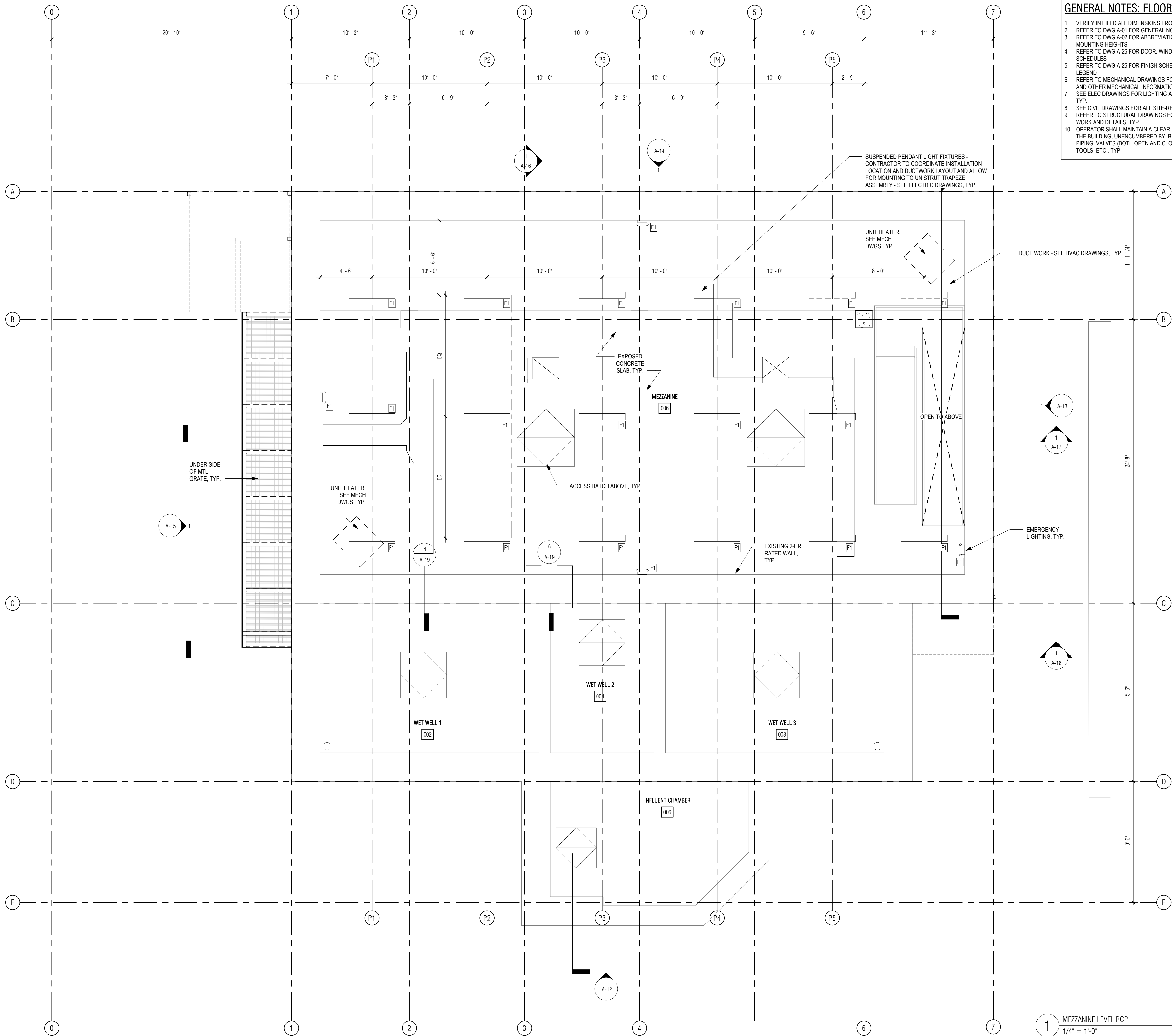
CONTRACT 2

SHEET NO. **A-07**

1 MEZZANINE LEVEL
1/4" = 1'-0"



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- GENERAL NOTES: FLOOR PLANS**
1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
 2. REFER TO DWG A-01 FOR GENERAL NOTES.
 3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS.
 4. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES.
 5. REFER TO DWG A-25 FOR FINISH SCHEDULE AND MATERIALS LEGEND.
 6. REFER TO MECHANICAL DRAWINGS FOR DUCTING LAYOUTS AND OTHER MECHANICAL INFORMATION, TYP.
 7. SEE ELEC DRAWINGS FOR LIGHTING AND ELEC INFORMATION, TYP.
 8. SEE CIVIL DRAWINGS FOR ALL SITE-RELATED WORK, TYP.
 9. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL WORK AND DETAILS, TYP.
 10. OPERATOR SHALL MAINTAIN A CLEAR PATH OF TRAVEL WITHIN THE BUILDING, UNENCUMBERED BY, BUT NOT LIMITED TO PIPING, VALVES (BOTH OPEN AND CLOSED), EQUIPMENT, TOOLS, ETC., TYP.

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PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

PUMP ROOM MEZZANINE LEVEL REFLECTED CEILING PLAN

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

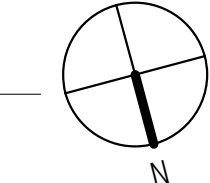
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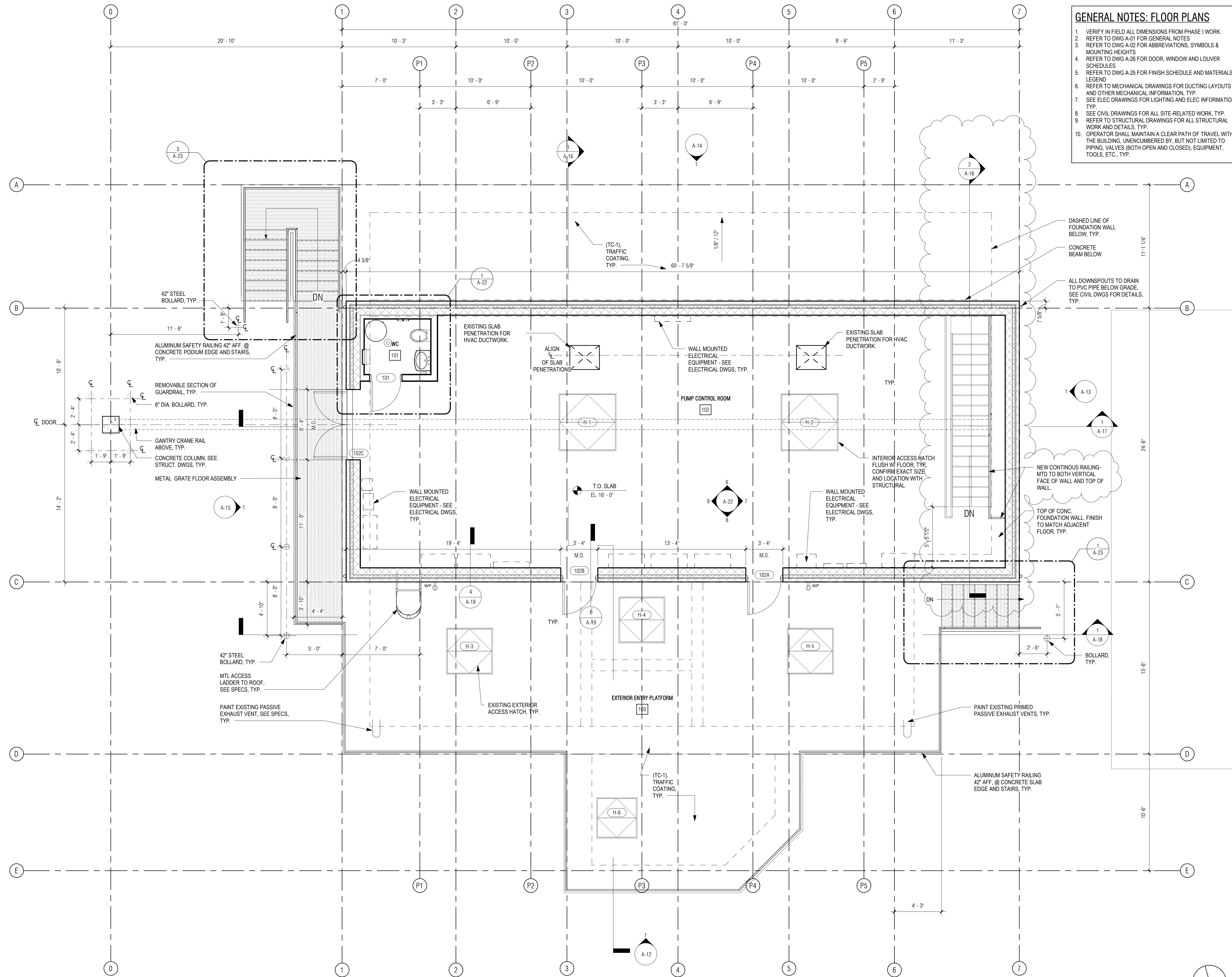
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CONTRACT 2

SHEET NO. **A-08**

1 MEZZANINE LEVEL RCP
1/4" = 1'-0"





- GENERAL NOTES: FLOOR PLANS**
1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
 2. REFER TO DWG A-01 FOR GENERAL NOTES.
 3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS.
 4. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES.
 5. REFER TO DWG A-25 FOR FINISH SCHEDULE AND MATERIALS LEGEND.
 6. REFER TO MECHANICAL DRAWINGS FOR DUCTING LAYOUTS AND OTHER MECHANICAL INFORMATION, TYP.
 7. SEE ELEC DRAWINGS FOR LIGHTING AND ELEC INFORMATION, TYP.
 8. SEE CIVIL DRAWINGS FOR ALL SITE-RELATED WORK, TYP.
 9. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL WORK AND DETAILS, TYP.
 10. OPERATOR SHALL MAINTAIN A CLEAR PATH OF TRAVEL WITHIN THE BUILDING, UNENUMBERED BY, BUT NOT LIMITED TO PIPING, VALVES (BOTH OPEN AND CLOSED), EQUIPMENT, TOOLS, ETC., TYP.

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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**GROUND FLOOR
PLAN**

REVISIONS

NO.	DESCRIPTION	DATE
1	08/30/2021	Railing

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

As indicated

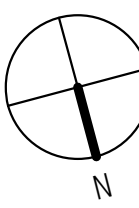
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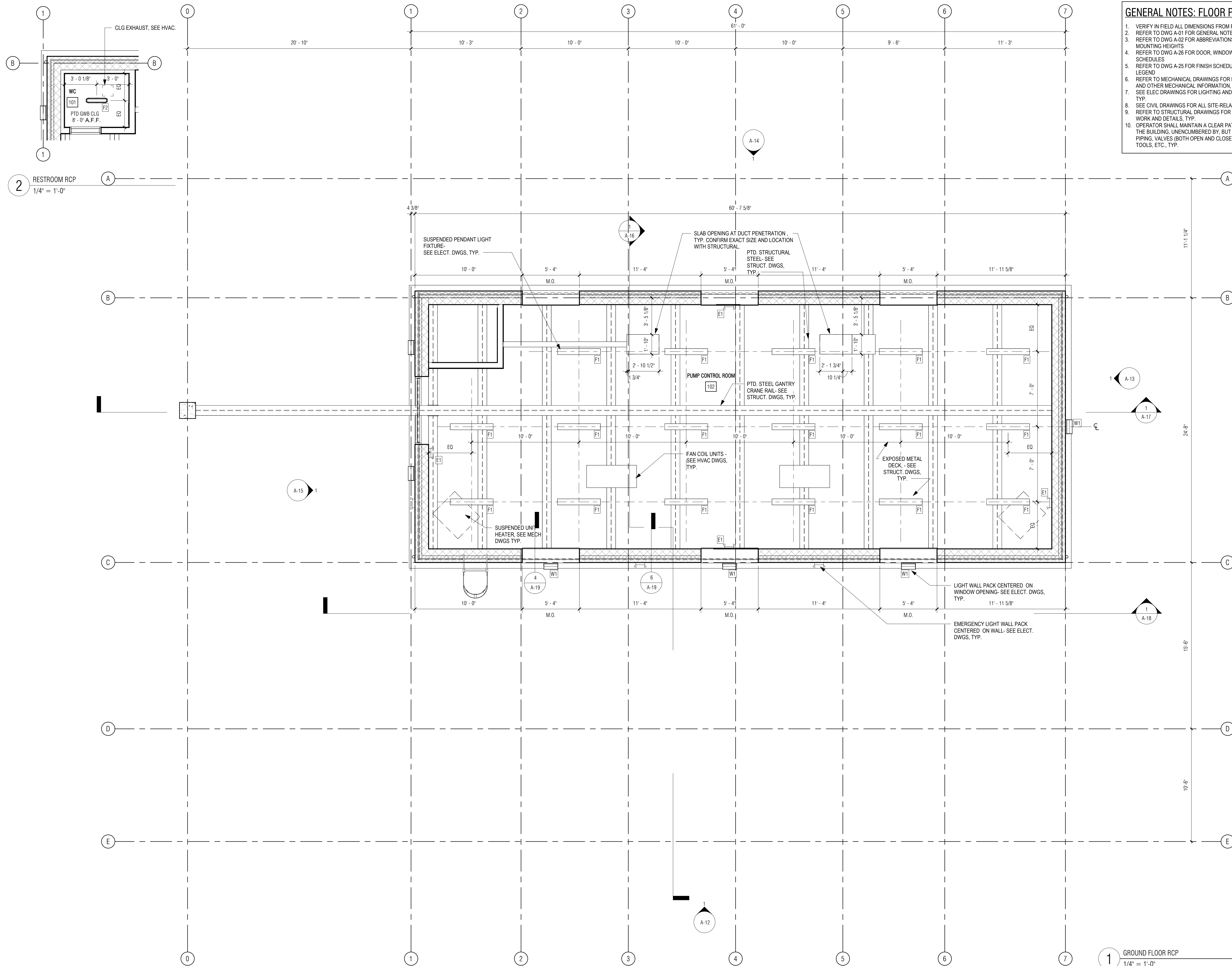
SHEET NO.

A-09

1 GROUND FLOOR
1/4" = 1'-0"



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GENERAL NOTES: FLOOR PLANS

1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
2. REFER TO DWG A-01 FOR GENERAL NOTES.
3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS.
4. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES.
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DSK Dewing Schmid Kearns
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30 Monument Square Suite 200B
Concord, MA 01742
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280 Elm Street
South Dartmouth, MA 02748
508.999.0440

PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**GROUND FLOOR
AND WC REFLECTED
CEILING PLANS**

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

As indicated

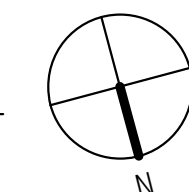
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CONTRACT 2

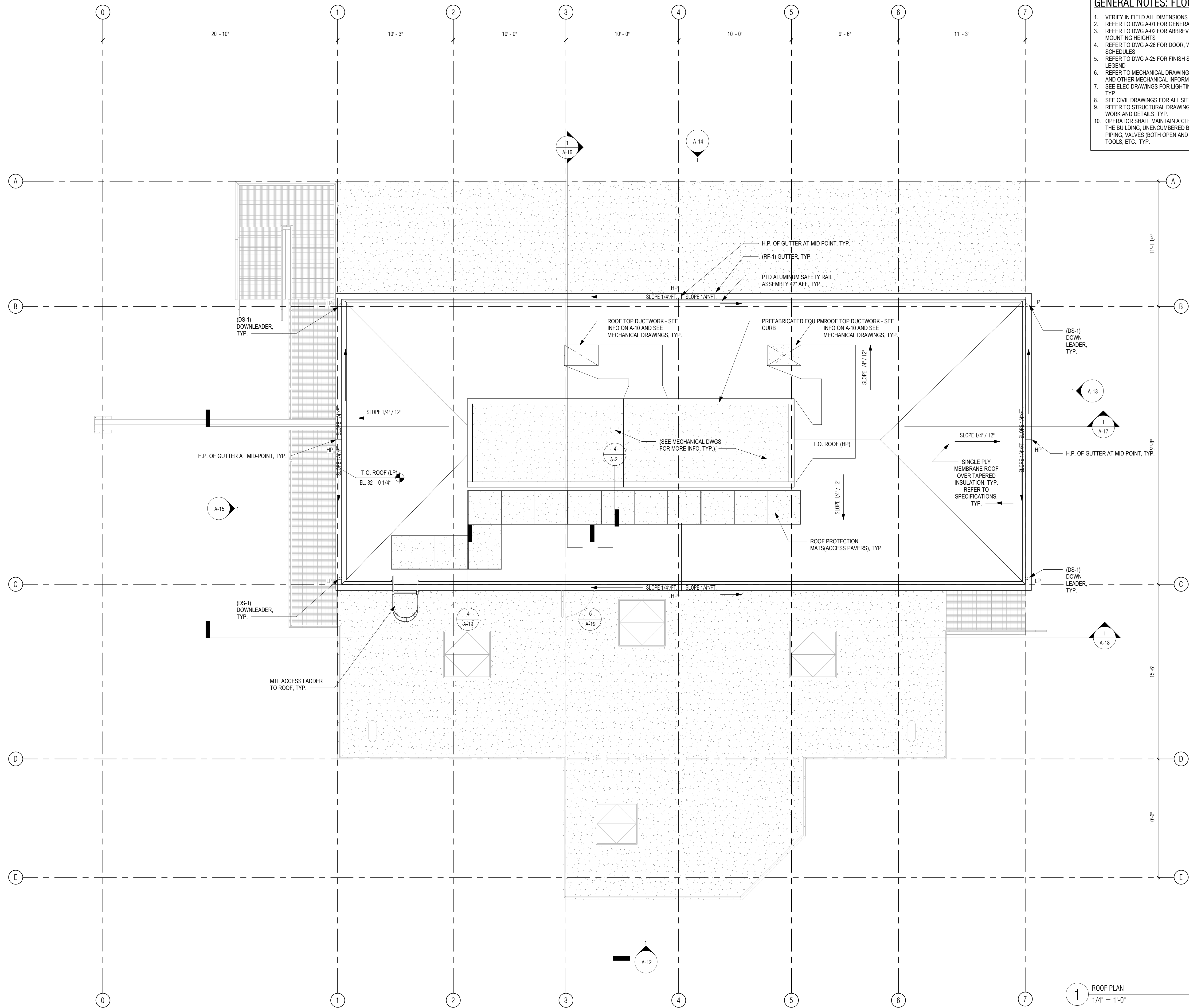
SHEET NO.

A-10

1 GROUND FLOOR RCP
1/4" = 1'-0"



P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\600-REV\TITLEBLOCKS\KDC_Arch D 24x36 Vertical Title - BETA



GENERAL NOTES: FLOOR PLANS

1. VERIFY IN FIELD ALL DIMENSIONS FROM PHASE I WORK.
2. REFER TO DWG A-01 FOR GENERAL NOTES
3. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
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ARCHITECTS + PLANNERS

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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

ROOF PLAN

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

As indicated

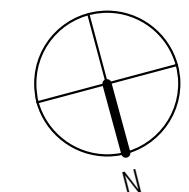
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CONTRACT 2

SHEET NO.


A-11


1 ROOF PLAN
1/4" = 1'-0"




GENERAL NOTES: EXTERIOR ELEVATIONS

- REFER TO DWG A-1 FOR GENERAL NOTES
- REFER TO DWG A-2 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
- REFER TO DWG A-12 FOR TYPICAL ANNOTATIONS
- REFER TO DWG A-25 FOR DOOR, WINDOW AND LOUVER SCHEDULES
- REFER TO DWG A-26 FOR FINISH SCHEDULE AND MATERIALS
- REFER TO CIVIL DRAWINGS FOR FINISH GRADES, TYP.

PREPARED BY:

 www.BETA-Inc.com
 PLOT DATE: 8/29/2021 3:59:51 PM

REGISTERED PROFESSIONAL


SUBCONSULTANT:
 **Dewing Schmid Kearns**
 ARCHITECTS + PLANNERS
 30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE
NORTH EXTERIOR ELEVATION

REVISIONS

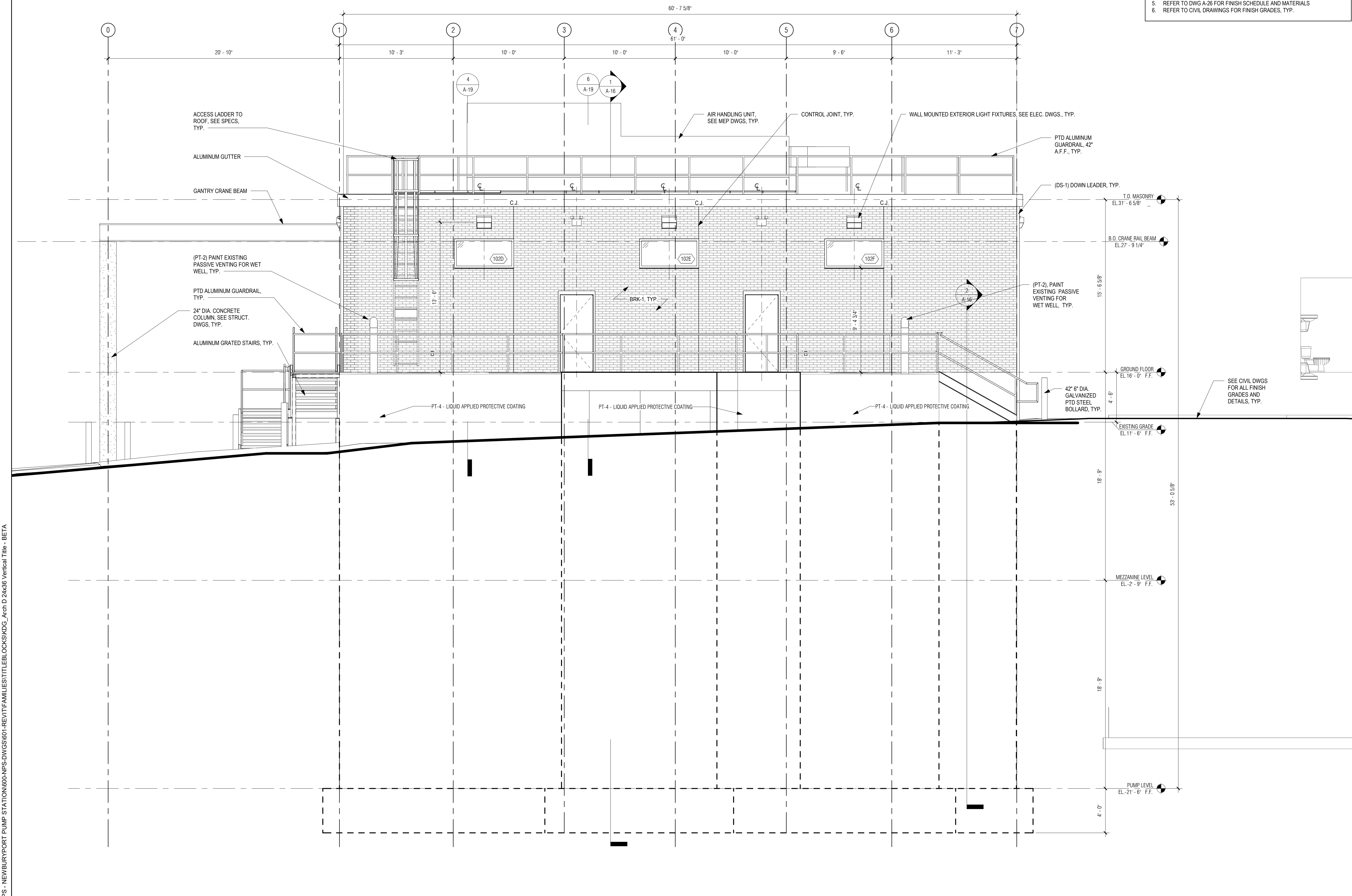
NO.	DESCRIPTION	DATE

DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 04/16/2021
 BETA JOB No.: 5530

SCALE
As indicated

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CONTRACT 2

SHEET NO.
A-12



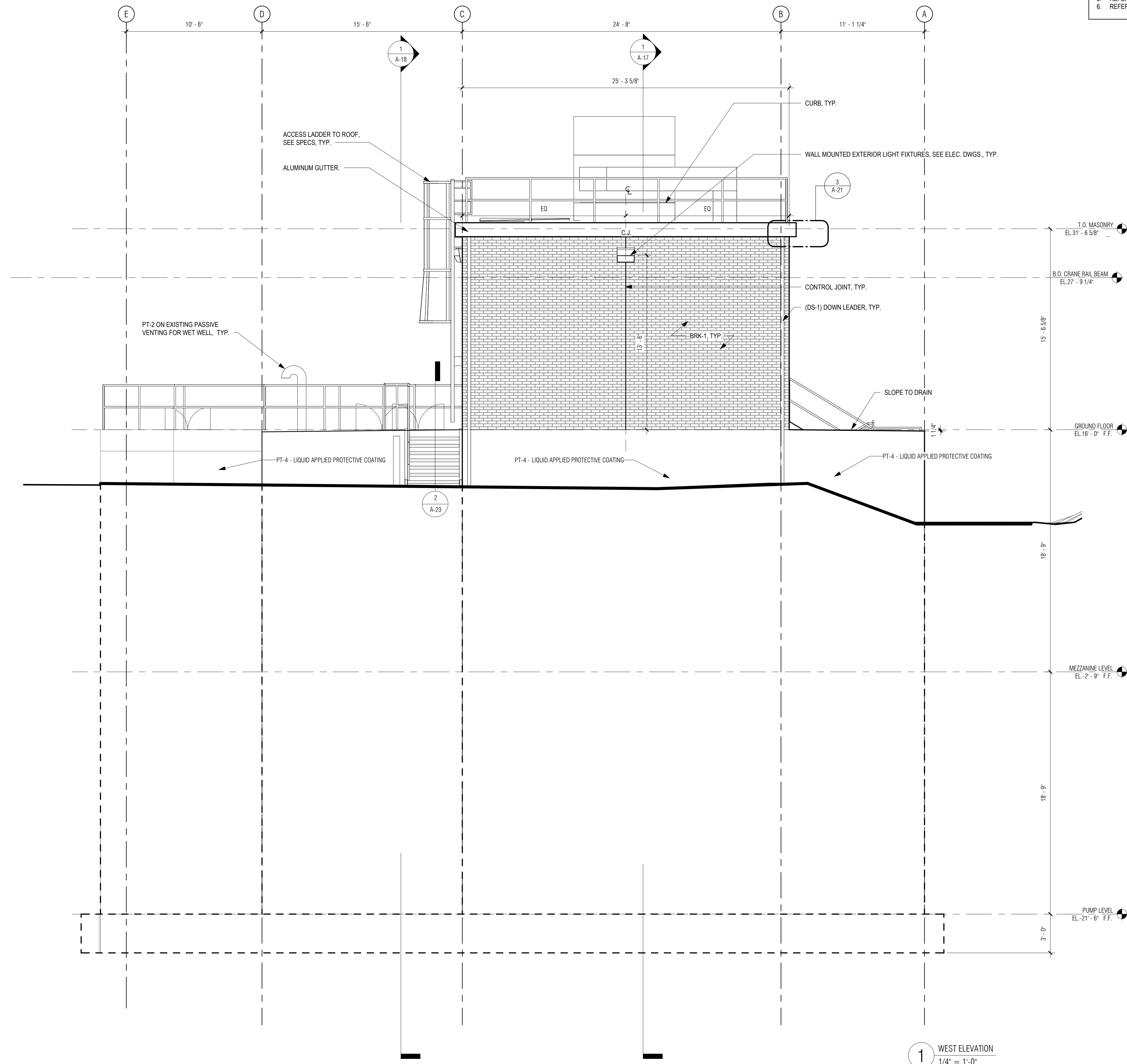
1 NORTH ELEVATION
 1/4" = 1'-0"

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\600-NPS-DWG\600-NPS-DWG\600-NPS-DWG_Verical Title - BETA

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GENERAL NOTES: EXTERIOR ELEVATIONS

1. REFER TO DWG A-1 FOR GENERAL NOTES
2. REFER TO DWG A-2 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
3. REFER TO DWG A-12 FOR TYPICAL ANNOTATIONS
4. REFER TO DWG A-25 FOR DOOR, WINDOW AND LOUVER SCHEDULES
5. REFER TO DWG A-26 FOR FINISH SCHEDULE AND MATERIALS
6. REFER TO CIVIL DRAWINGS FOR FINISH GRADES, TYP.



1 WEST ELEVATION
1/4" = 1'-0"

PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

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ARCHITECTS + PLANNERS

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PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

WEST EXTERIOR ELEVATION

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

As indicated

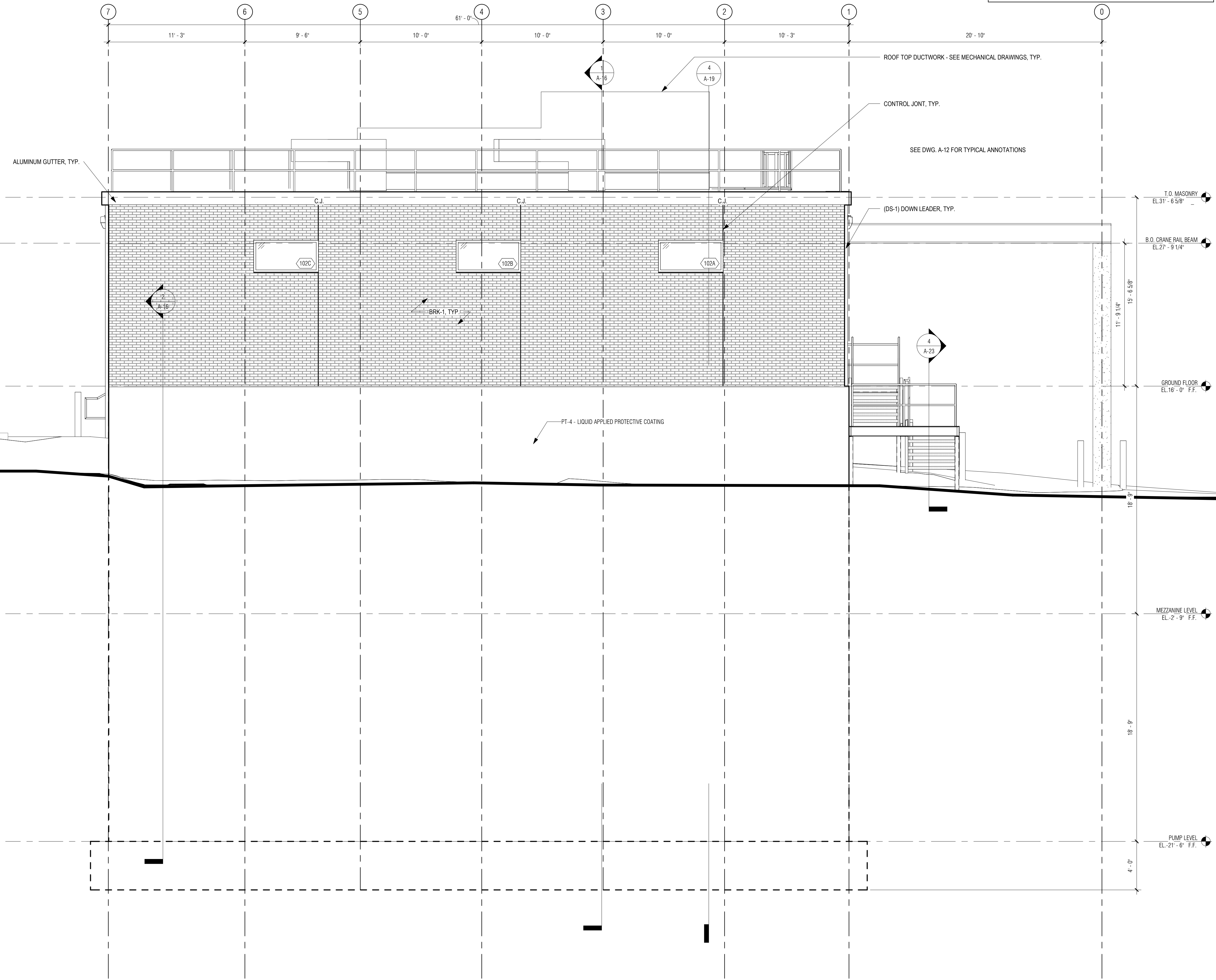
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CONTRACT 2

SHEET NO. **A-13**

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- GENERAL NOTES: EXTERIOR ELEVATIONS**
1. REFER TO DWG A-1 FOR GENERAL NOTES
 2. REFER TO DWG A-2 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
 3. REFER TO DWG A-12 FOR TYPICAL ANNOTATIONS
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 6. REFER TO CIVIL DRAWINGS FOR FINISH GRADES, TYP.

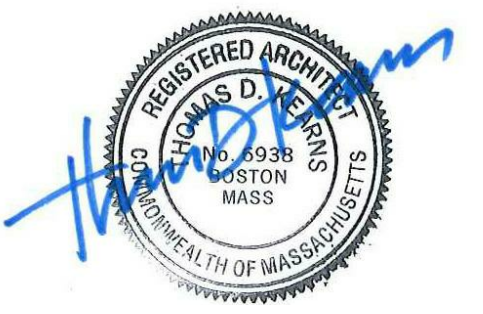


1 SOUTH ELEVATION
1/4" = 1'-0"

PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

SOUTH EXTERIOR ELEVATION

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

As indicated

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

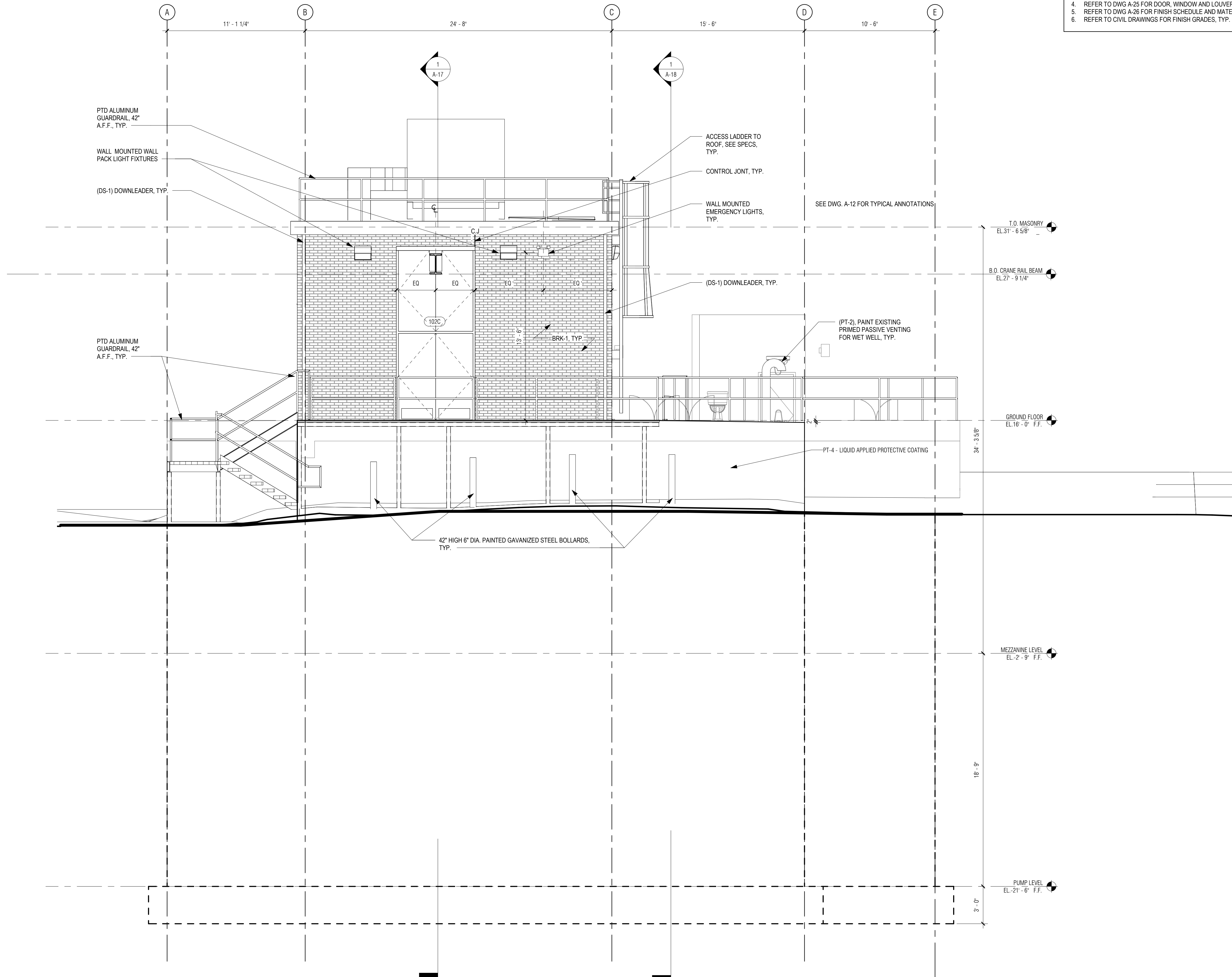
CONTRACT 2

SHEET NO. **A-14**

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GENERAL NOTES: EXTERIOR ELEVATIONS

1. REFER TO DWG A-1 FOR GENERAL NOTES
2. REFER TO DWG A-2 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
3. REFER TO DWG A-12 FOR TYPICAL ANNOTATIONS
4. REFER TO DWG A-25 FOR DOOR, WINDOW AND LOUVER SCHEDULES
5. REFER TO DWG A-26 FOR FINISH SCHEDULE AND MATERIALS
6. REFER TO CIVIL DRAWINGS FOR FINISH GRADES, TYP.



1 EAST ELEVATION
1/4" = 1'-0"

PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
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PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

EAST EXTERIOR ELEVATION

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

As indicated

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION


CONTRACT 2


SHEET NO.


A-15

GENERAL NOTES: BUILDING SECTIONS

1. REFER TO DWG A-01 FOR GENERAL NOTES
2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
3. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
4. REFER TO DWG A-27 FOR FINISH SCHEDULE AND MATERIALS
5. PIPING AND DUCT WORK SHOWN FOR DIAGRAMMATIC PURPOSES, REFER TO ENGINEER DWGS FOR DETAILS

PREPARED BY:

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REGISTERED PROFESSIONAL


SUBCONSULTANT:

 ARCHITECTS + PLANNERS
 30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
 TAUNTON, MA

TITLE
BUILDING SECTIONS

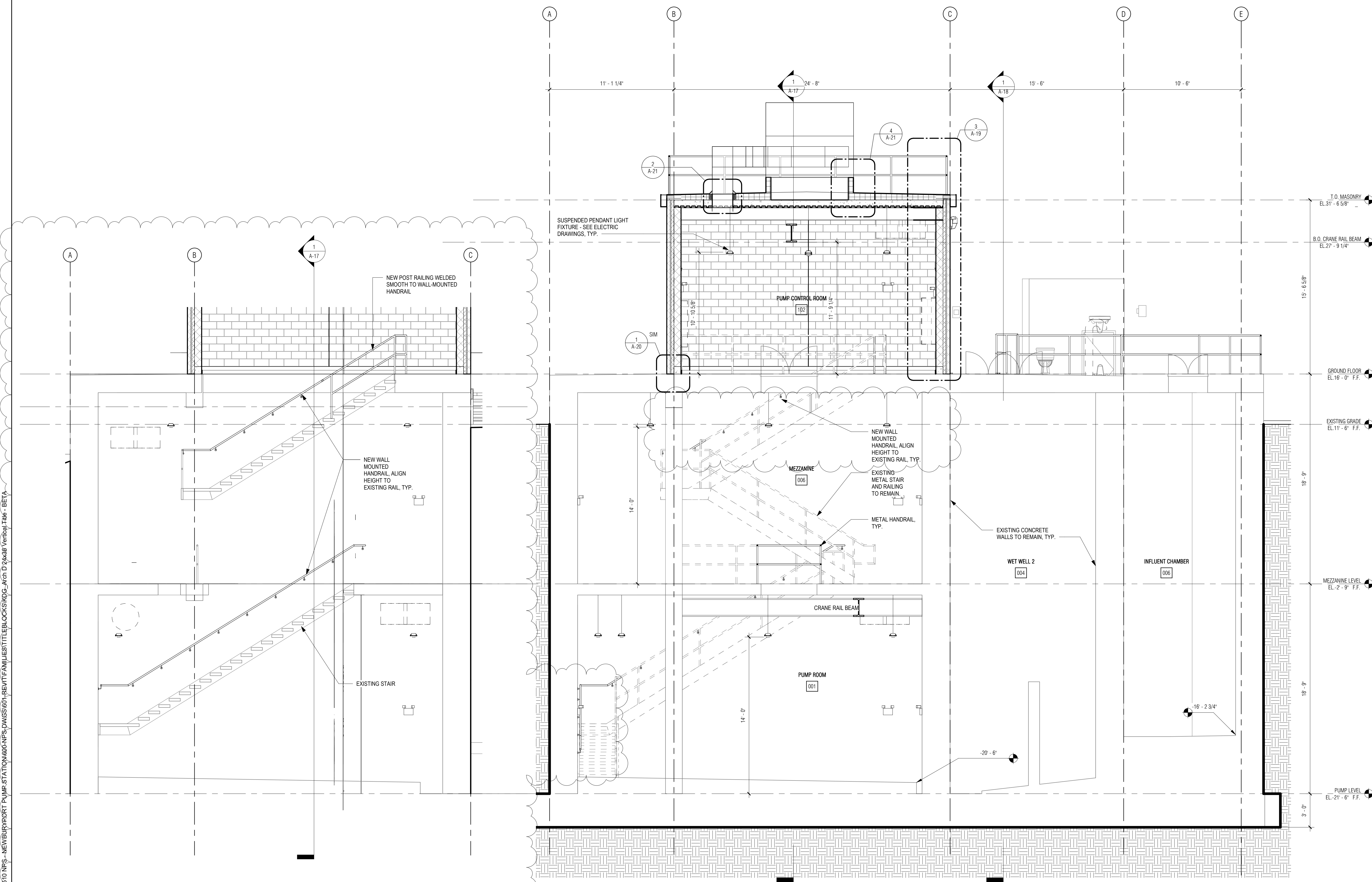
REVISIONS

NO.	DESCRIPTION	DATE
1	08/30/2021 Railing	

DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 04/16/2021
 BETA JOB No.: 5530

SCALE
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CONTRACT 2
 SHEET NO. **A-16**



2 WALL MOUNTED HANDRAIL ELEVATION
 1/4" = 1'-0"

1 NORTH-SOUTH SECTION
 1/4" = 1'-0"


P:\PROJECTS\1510 NPS - NEWBURPORT PUMP STATION\600-NPS-DWGSET\601-REV\FAMILY\MESSTITLEBLOCK\SI\DOC_ArchD 24x36 Vertical Title - BETA


P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\600-NPS-DWG\600-NPS-DWG-Vertical Title - BETA

GENERAL NOTES: BUILDING SECTIONS
 1. REFER TO DWG A-01 FOR GENERAL NOTES
 2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
 3. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
 4. REFER TO DWG A-27 FOR FINISH SCHEDULE AND MATERIALS
 5. PIPING AND DUCT WORK SHOWN FOR DIAGRAMMATIC PURPOSES, REFER TO ENGINEER DWGS FOR DETAILS

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 PLOT DATE: 8/29/2021 4:00:00 PM

REGISTERED PROFESSIONAL


SUBCONSULTANT:

 ARCHITECTS + PLANNERS
 30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
 TAUNTON, MA

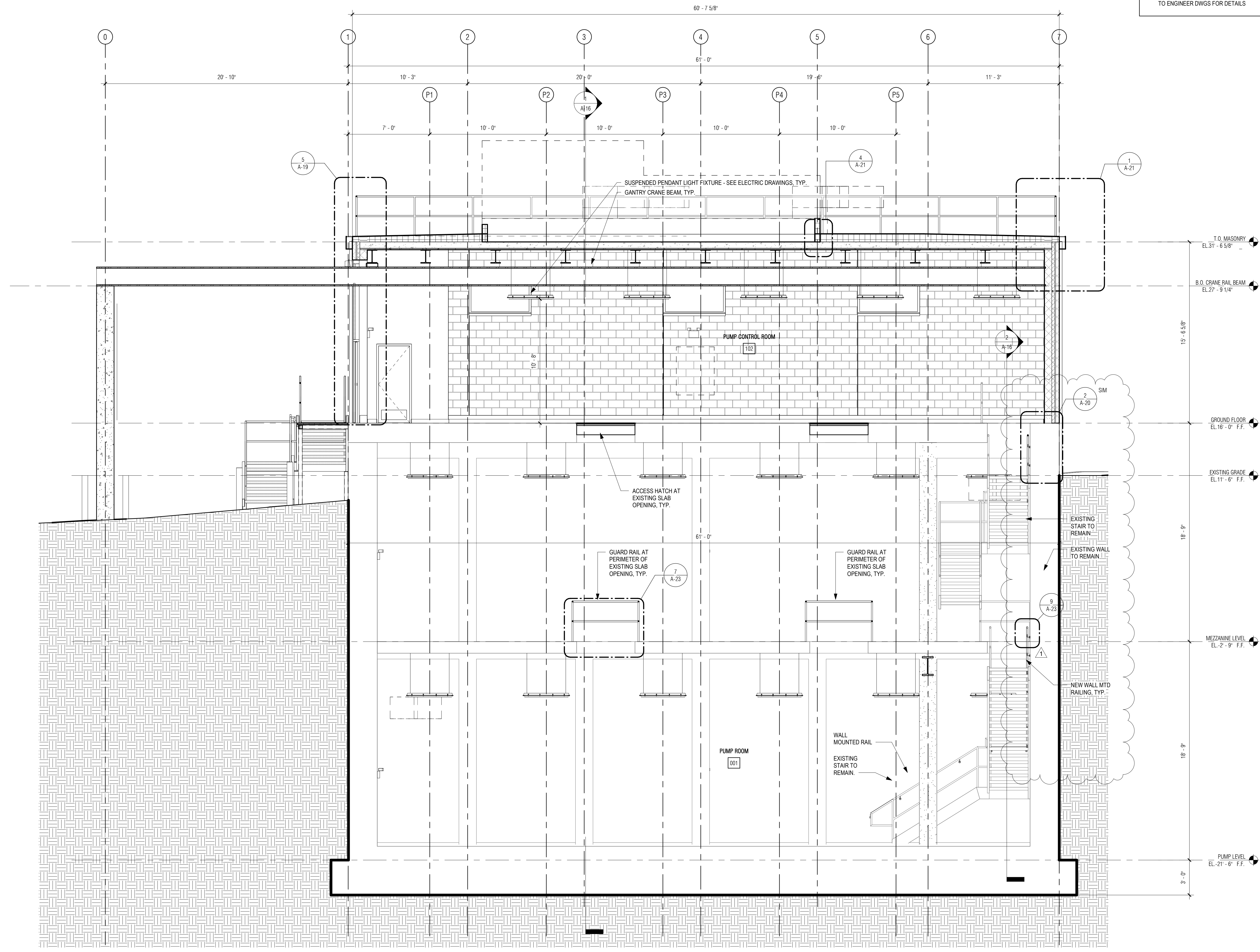
TITLE
BUILDING SECTIONS

REVISIONS

NO.	DESCRIPTION	DATE
1	08/30/2021	Railing

DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 04/16/2021
 BETA JOB No.: 5530

SCALE
As indicated
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CONTRACT 2
 SHEET NO.
A-17



1 EAST-WEST SECTION THROUGH PUMP RM
 1/4" = 1'-0"

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\600-NPS-FAMILIES\TITLEBLOCKS\KOC_Arch D 24x36 Vertical Title - BETA

GENERAL NOTES: BUILDING SECTIONS

1. REFER TO DWG A-01 FOR GENERAL NOTES
2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
3. REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
4. REFER TO DWG A-27 FOR FINISH SCHEDULE AND MATERIALS
5. PIPING AND DUCT WORK SHOWN FOR DIAGRAMMATIC PURPOSES, REFER TO ENGINEER DWGS FOR DETAILS

PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

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PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

BUILDING SECTIONS

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

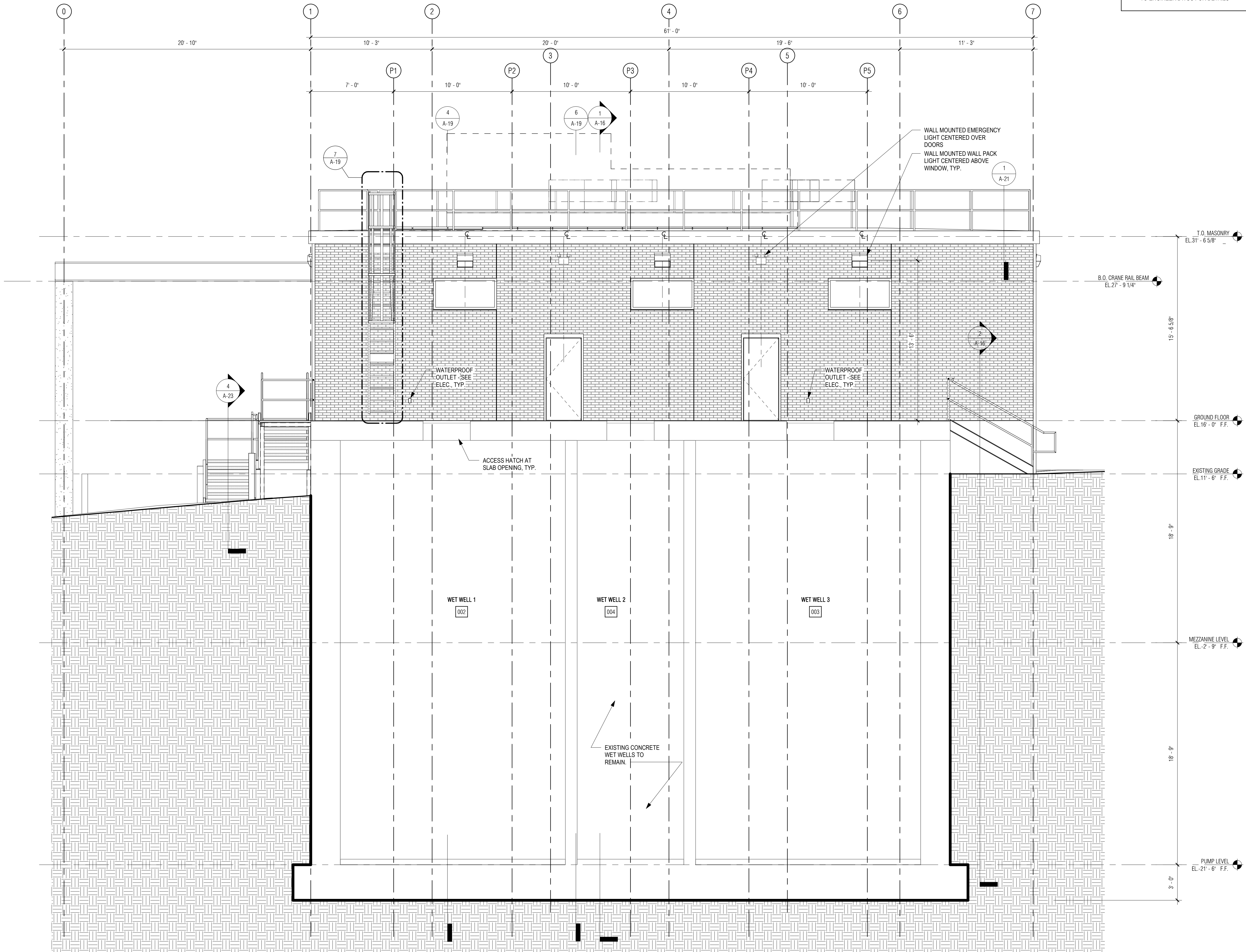
As indicated

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CONTRACT 2

SHEET NO.

A-18



1 EAST-WEST SECTION THROUGH WET WELLS
1/4" = 1'-0"

GENERAL NOTES: DETAILS

- REFER TO DWG A-01 FOR GENERAL NOTES
- REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

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REGISTERED PROFESSIONAL



SUBCONSULTANT:

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PROJECT

**MAIN LIFT
PUMP
STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

WALL SECTIONS

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

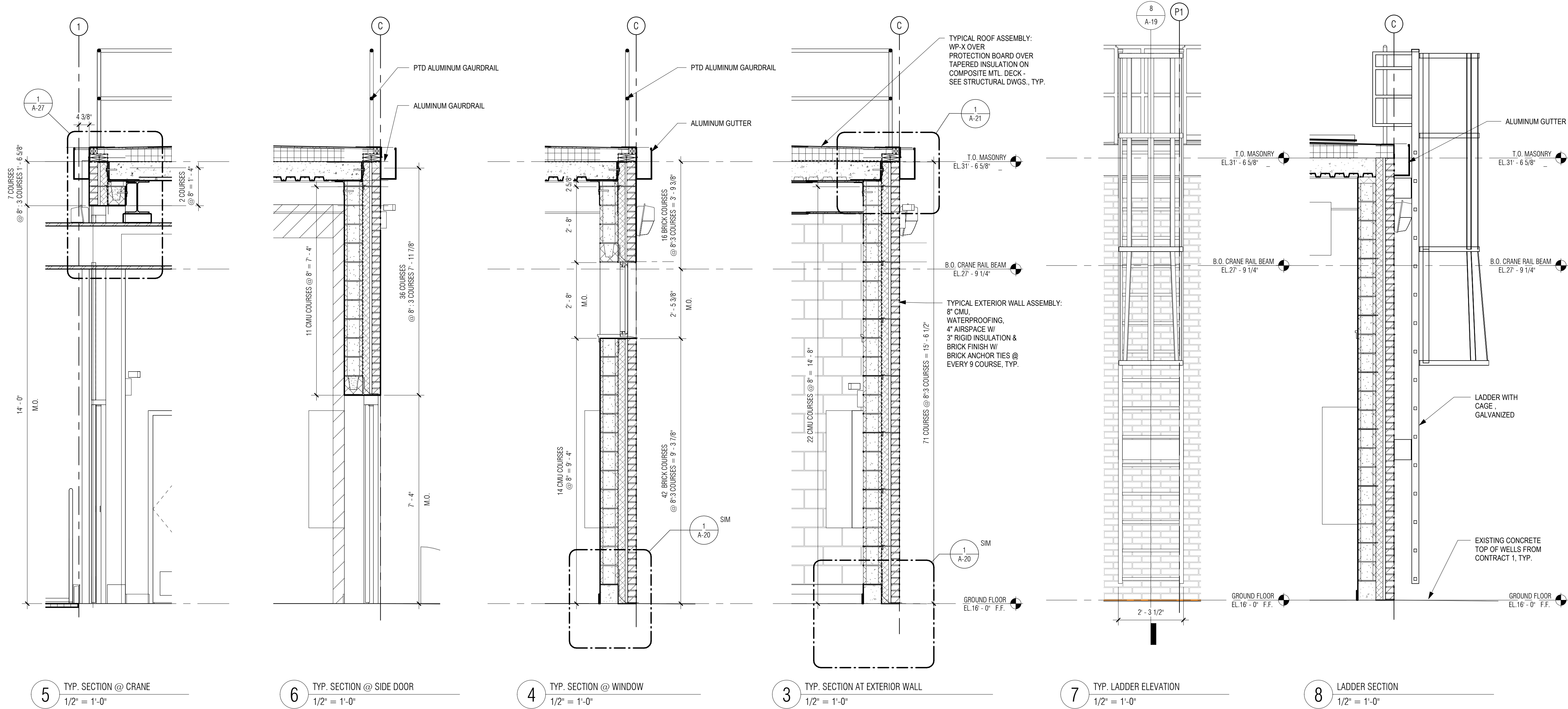
As indicated

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CONTRACT 2

SHEET NO.

A-19



5 TYP. SECTION @ CRANE
1/2" = 1'-0"

6 TYP. SECTION @ SIDE DOOR
1/2" = 1'-0"

4 TYP. SECTION @ WINDOW
1/2" = 1'-0"

3 TYP. SECTION AT EXTERIOR WALL
1/2" = 1'-0"


7 TYP. LADDER ELEVATION
1/2" = 1'-0"


8 LADDER SECTION
1/2" = 1'-0"

GENERAL NOTES: DETAILS
 1. REFER TO DWG A-01 FOR GENERAL NOTES
 2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

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REGISTERED PROFESSIONAL


SUBCONSULTANT:

 DSK Dewing Schmid Kearns
 ARCHITECTS + PLANNERS
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PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
 TAUNTON, MA

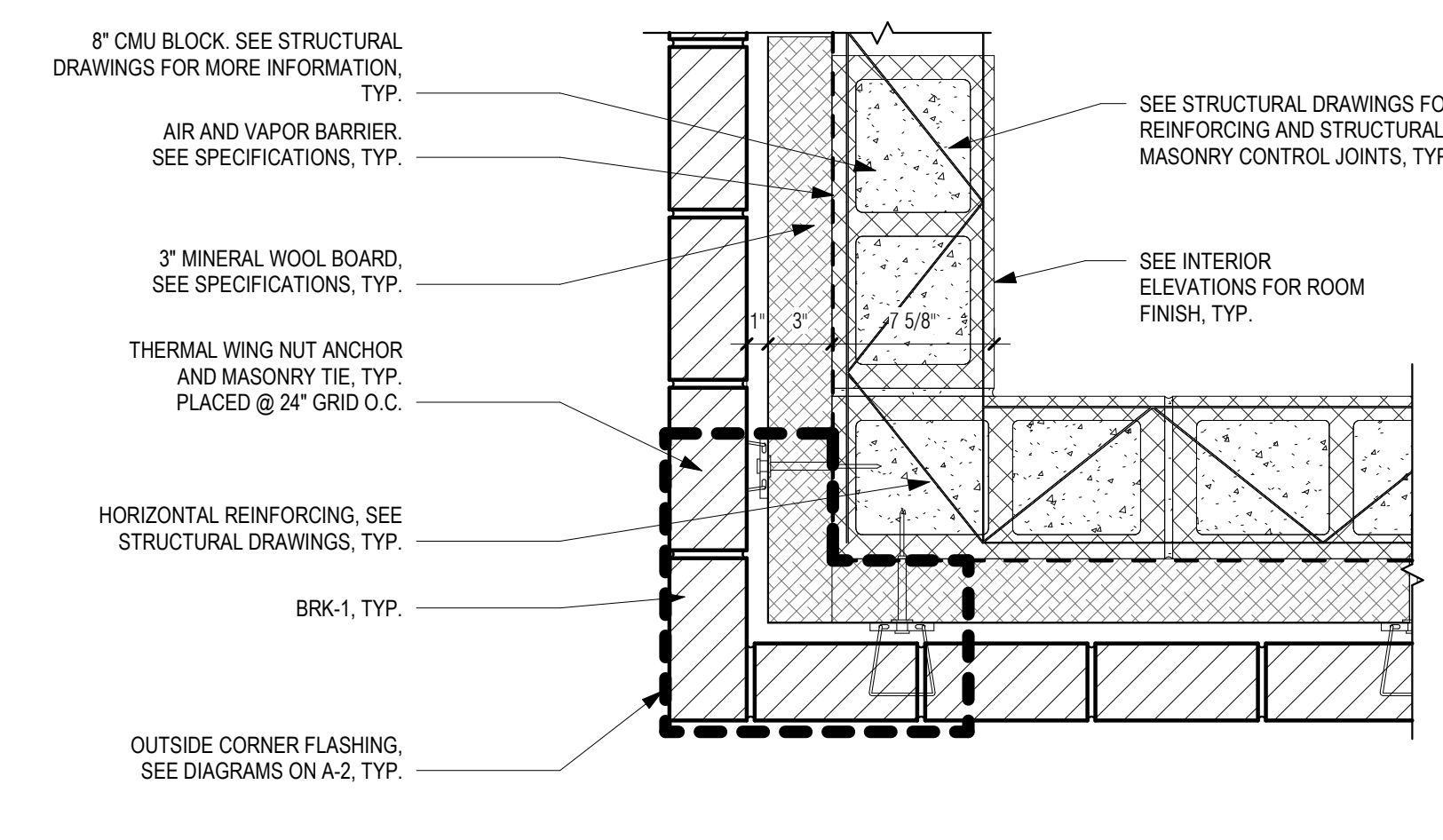
TITLE
MASONRY DETAILS

REVISIONS

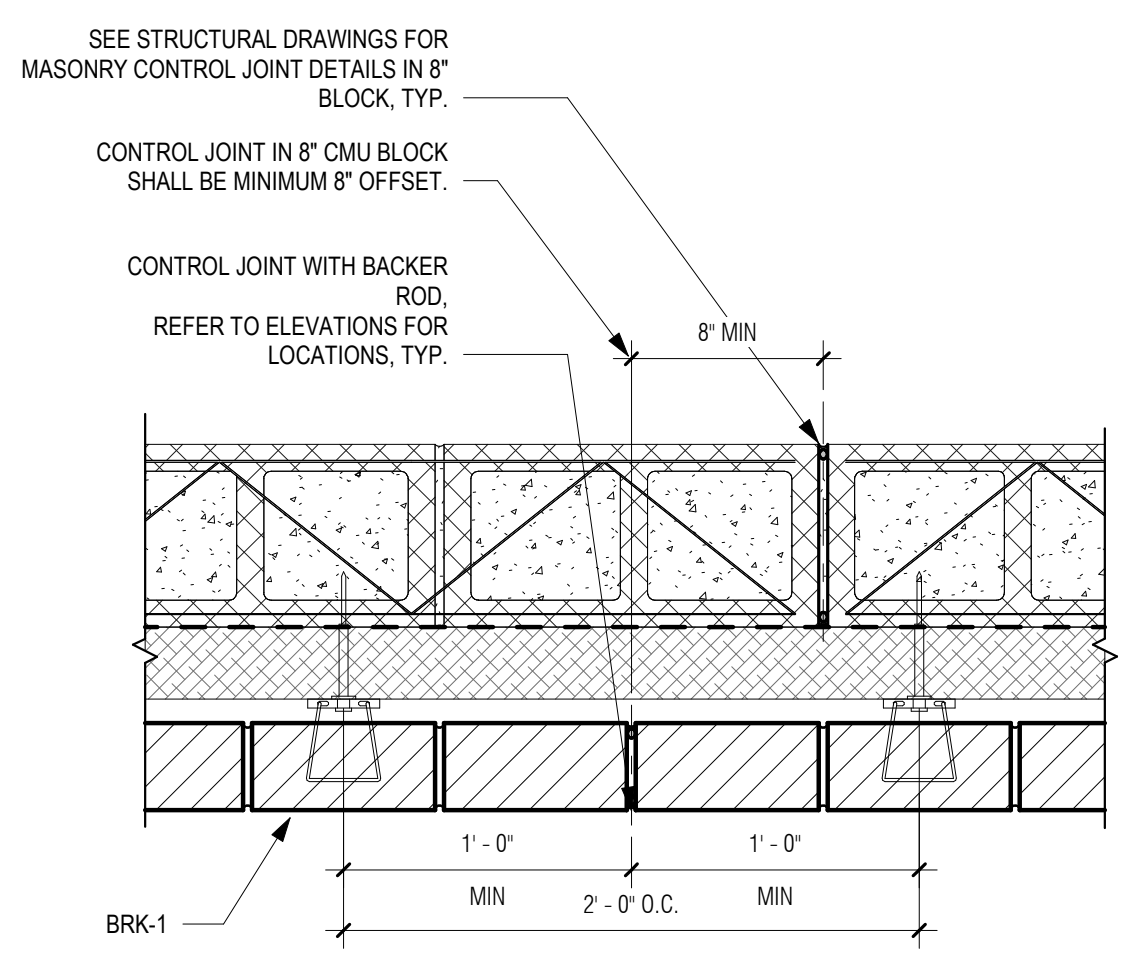
NO.	DESCRIPTION	DATE

DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 04/16/2021
 BETA JOB No.: 5530

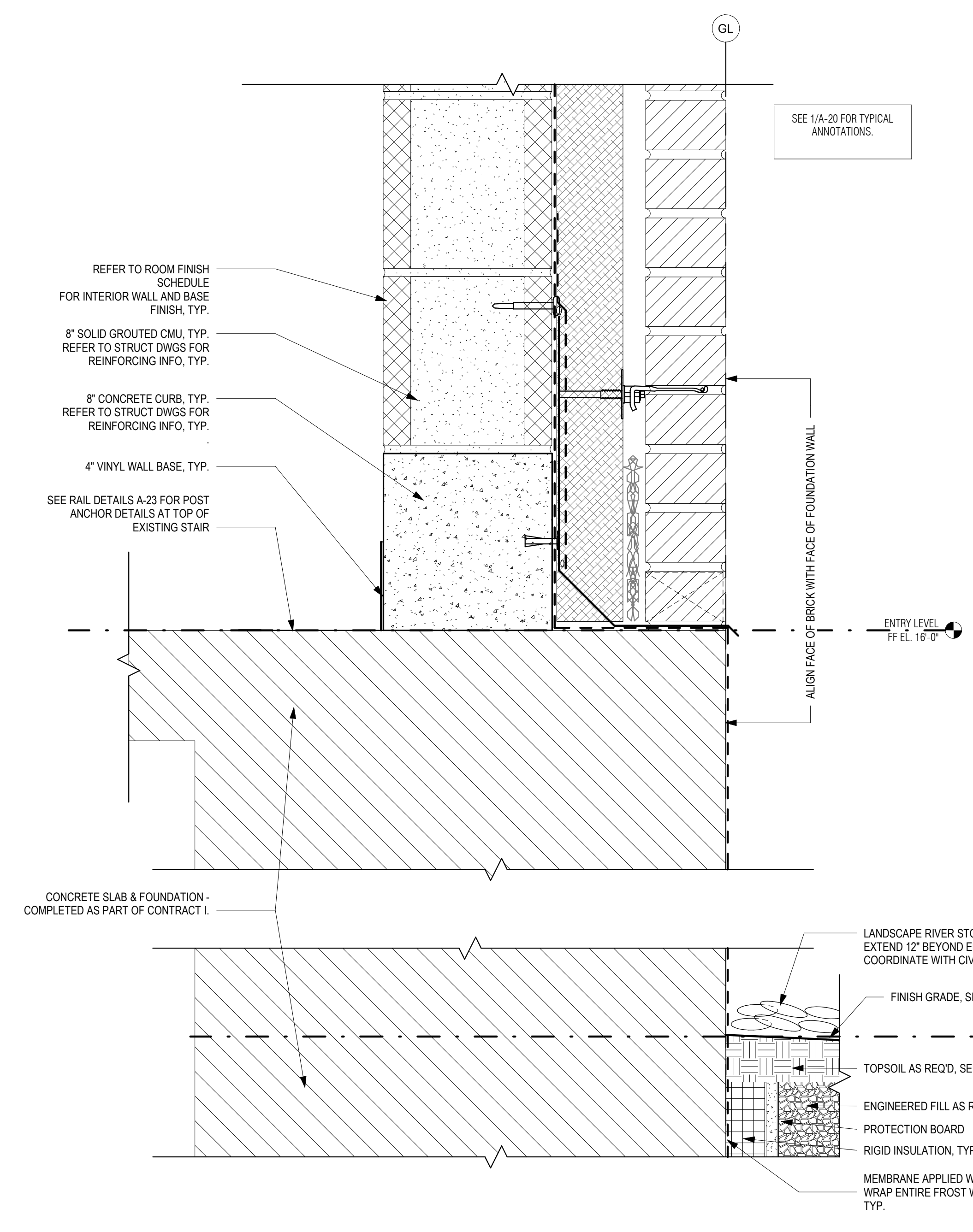
SCALE
As indicated
 UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION
CONTRACT 2
 SHEET NO.
A-20



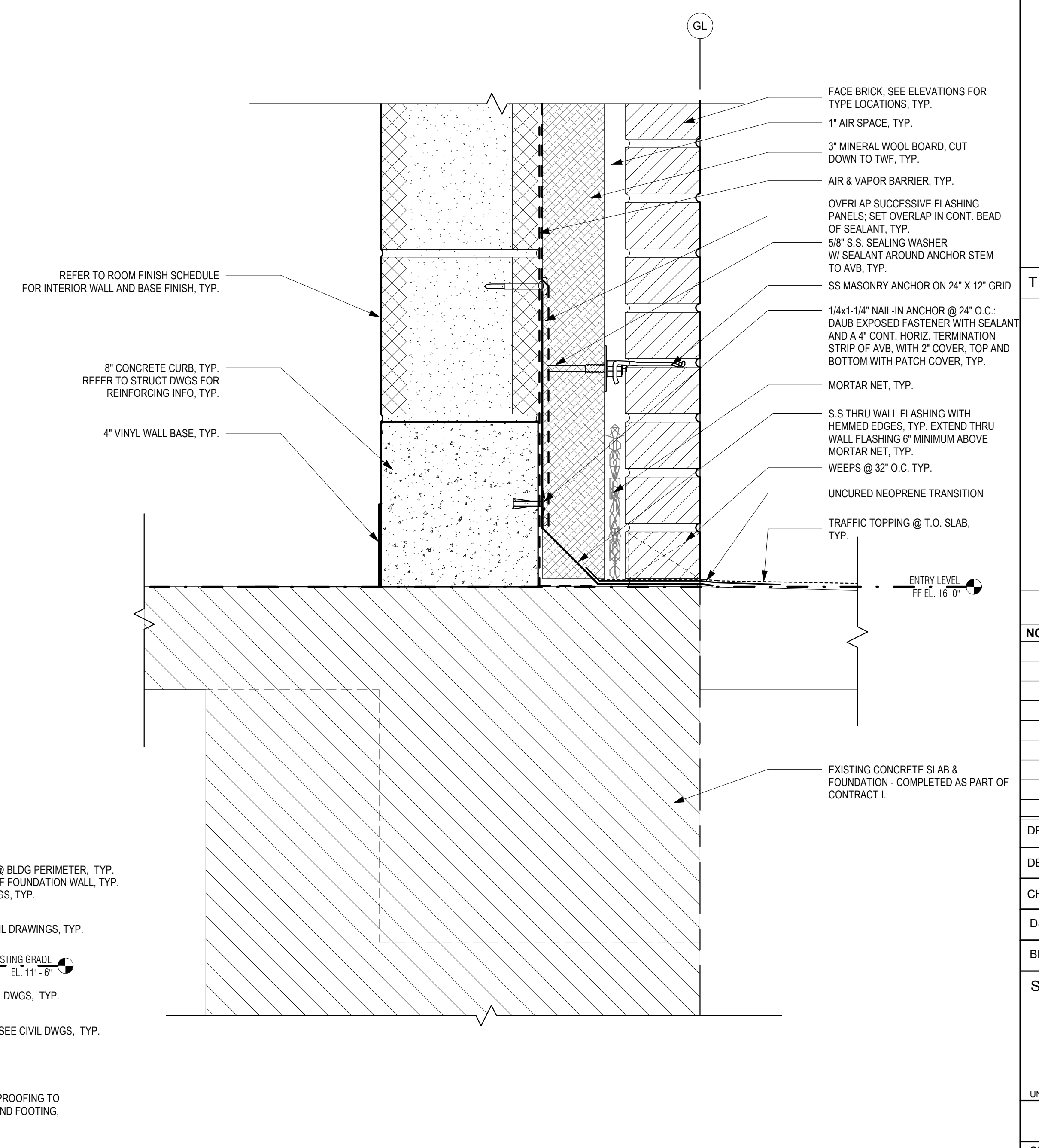
5 PLAN DETAIL - BRICK - CORNER DETAILS
 1 1/2" = 1'-0"



4 PLAN DETAIL - BRICK CONTROL JOINT
 1 1/2" = 1'-0"




2 TYP. WALL SECTION DETAIL @ EXT RC WALL
 3" = 1'-0"




1 TYP. WALL SECTION DETAIL @ STRUCTURED SLAB AND RC WALL
 3" = 1'-0"

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\600-NPS-FAMILY\TITLEBLOCKS\KDC_Arch D 24x36 Vertical Title - BETA

GENERAL NOTES: DETAILS
 1. REFER TO DWG A-01 FOR GENERAL NOTES
 2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

PREPARED BY:

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REGISTERED PROFESSIONAL


SUBCONSULTANT:
DSK Dewing Schmid Kearns
 ARCHITECTS + PLANNERS
 30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
TAUNTON, MA

TITLE
ROOF DETAILS

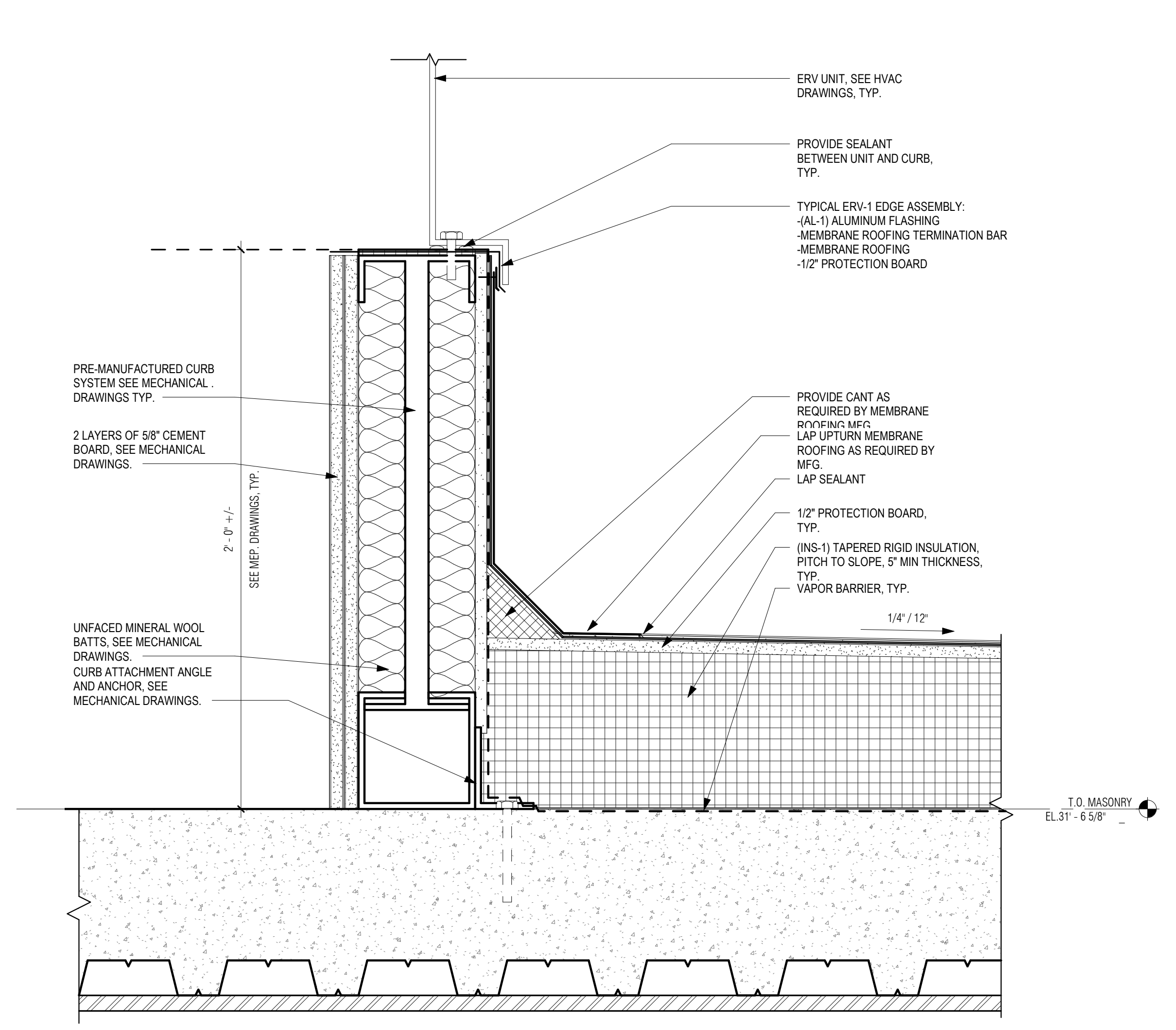
REVISIONS

NO.	DESCRIPTION	DATE

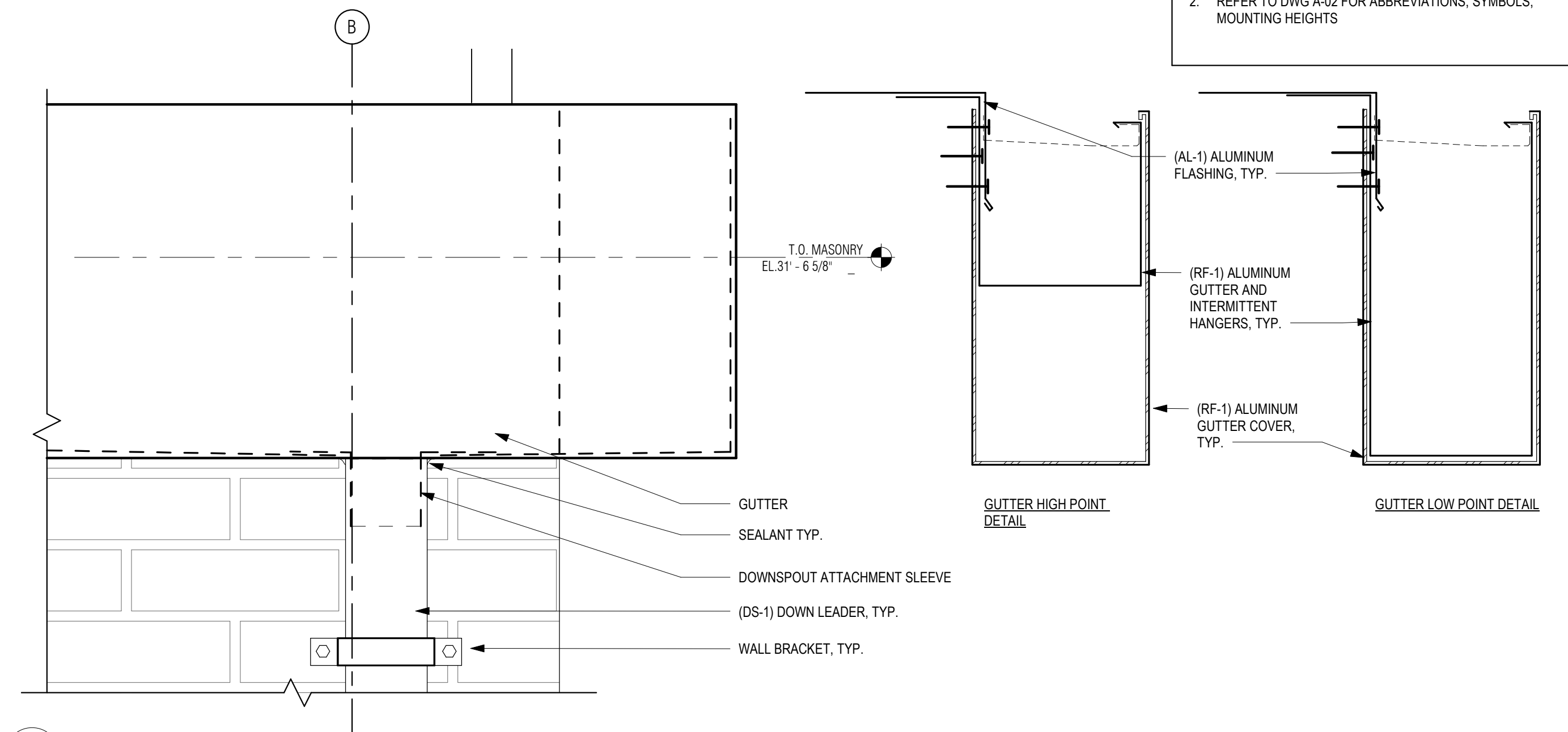
DRAWN BY: TM
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 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 04/16/2021
 BETA JOB No.: 5530

SCALE
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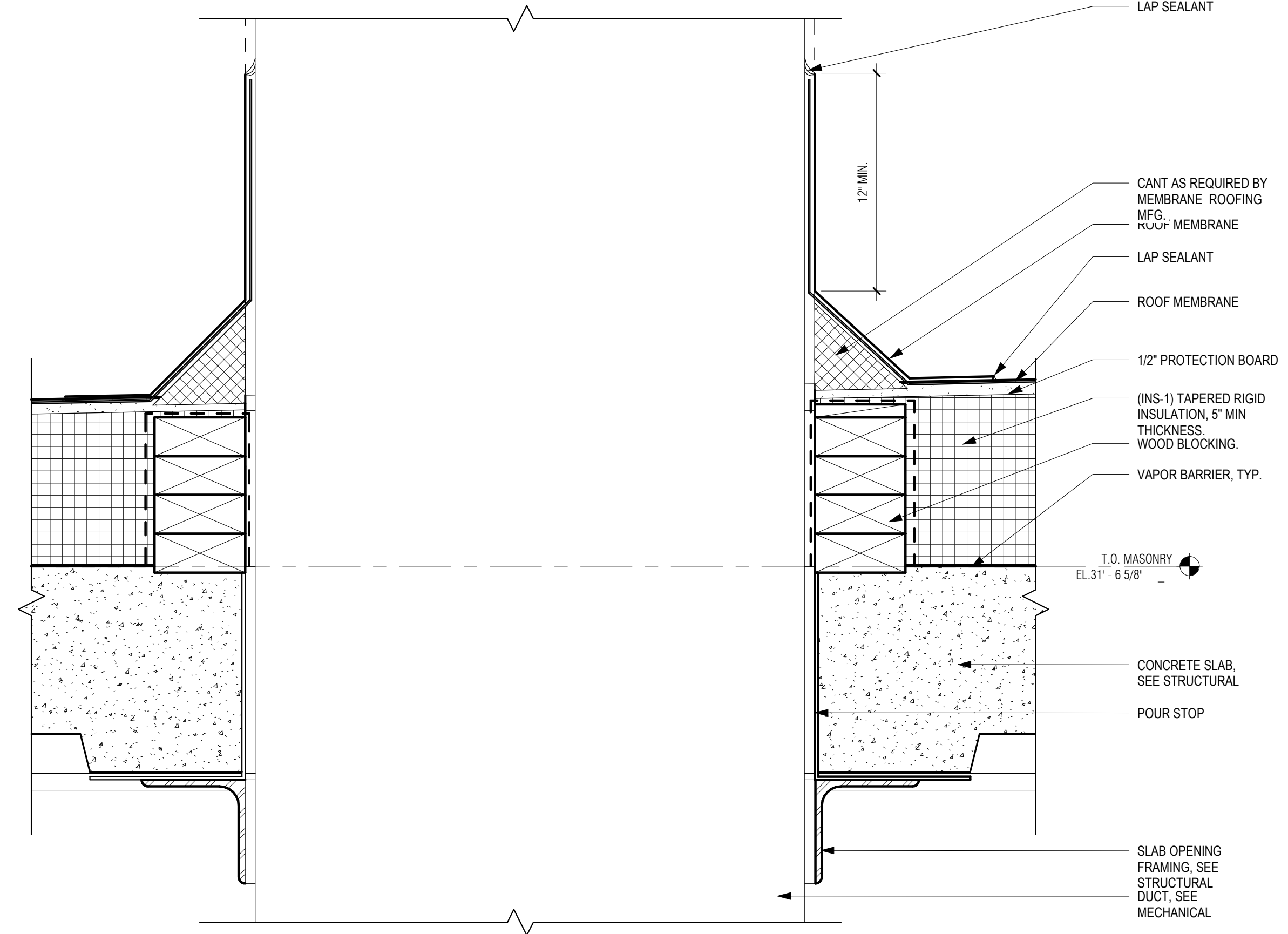
CONTRACT 2
 SHEET NO. **A-21**



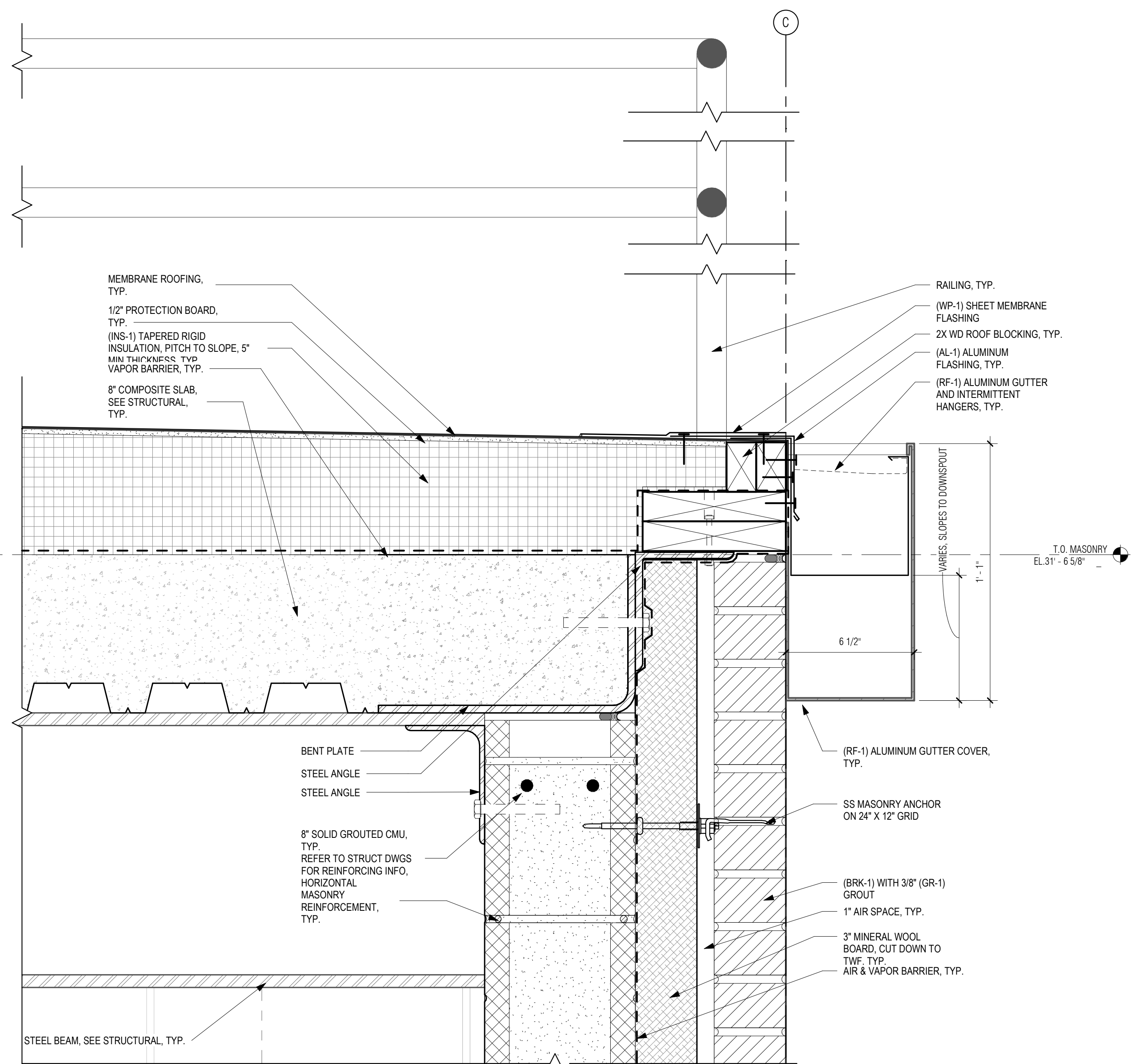
4 TYPICAL ERV-1 ROOF CURB DETAIL
 3' = 1'-0"



3 GUTTER DETAILS
 3' = 1'-0"

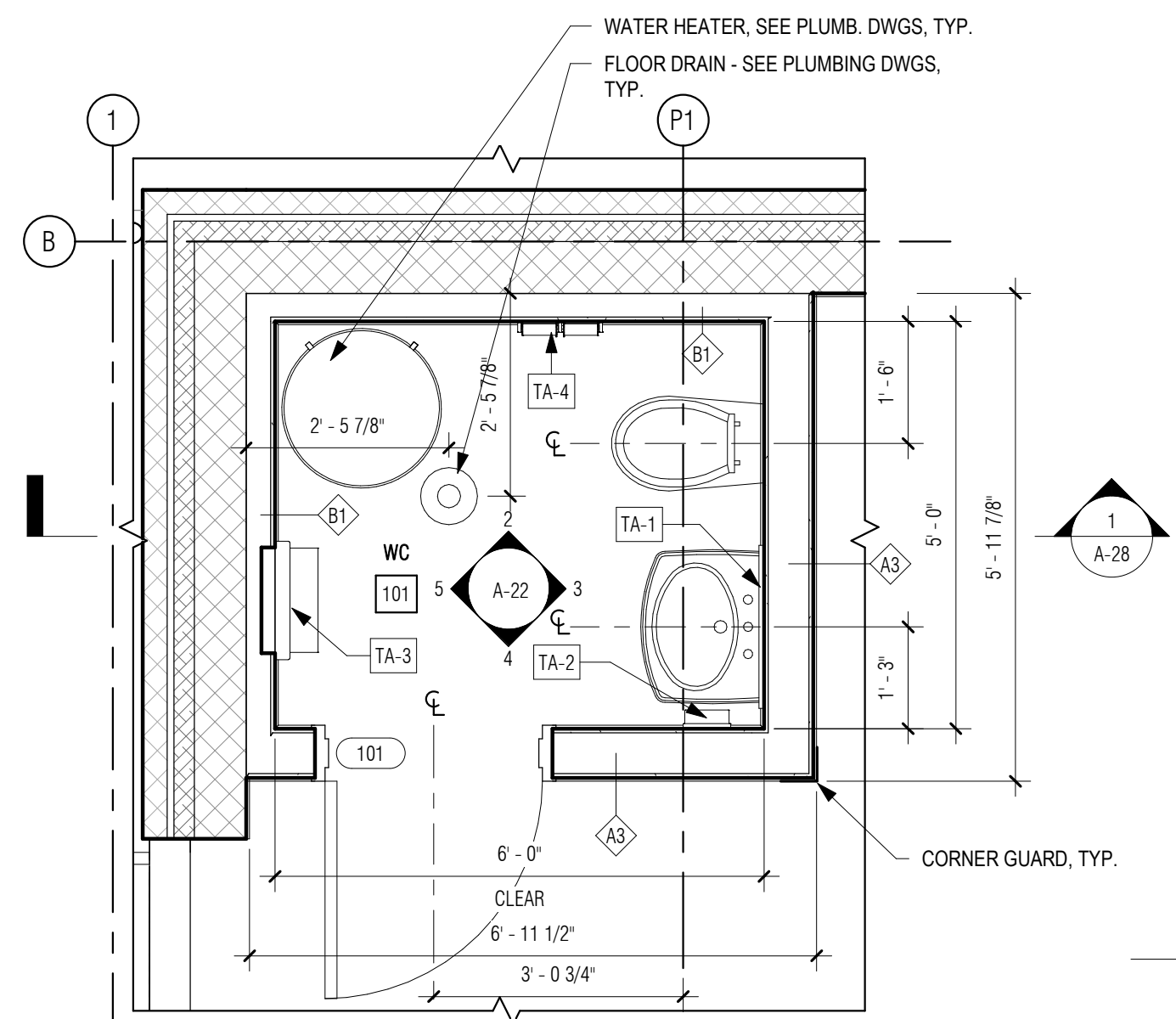


2 DUCT PENETRATION DETAIL
 3' = 1'-0"

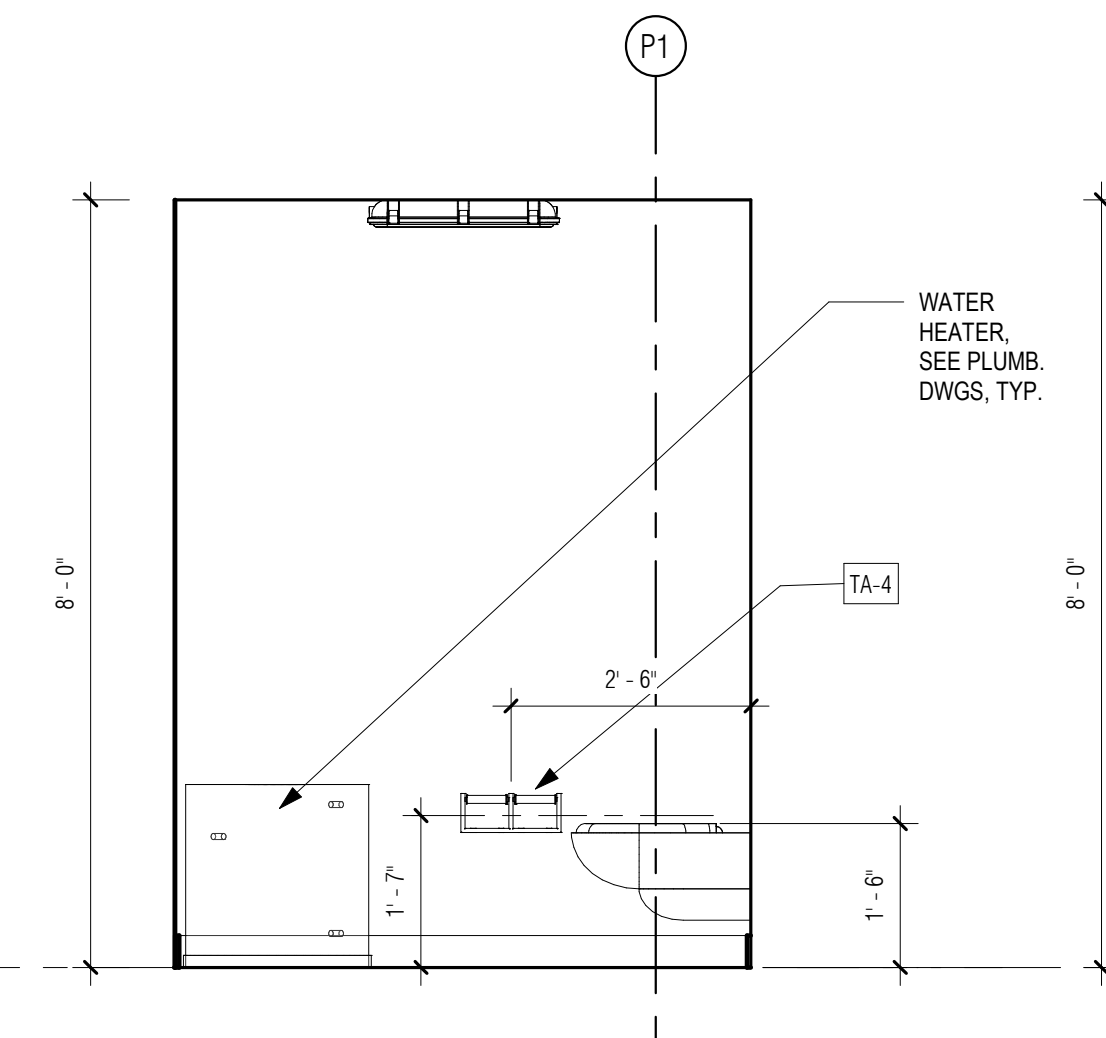


1 TYP. SECTION DETAIL @ PARAPET
 3' = 1'-0"

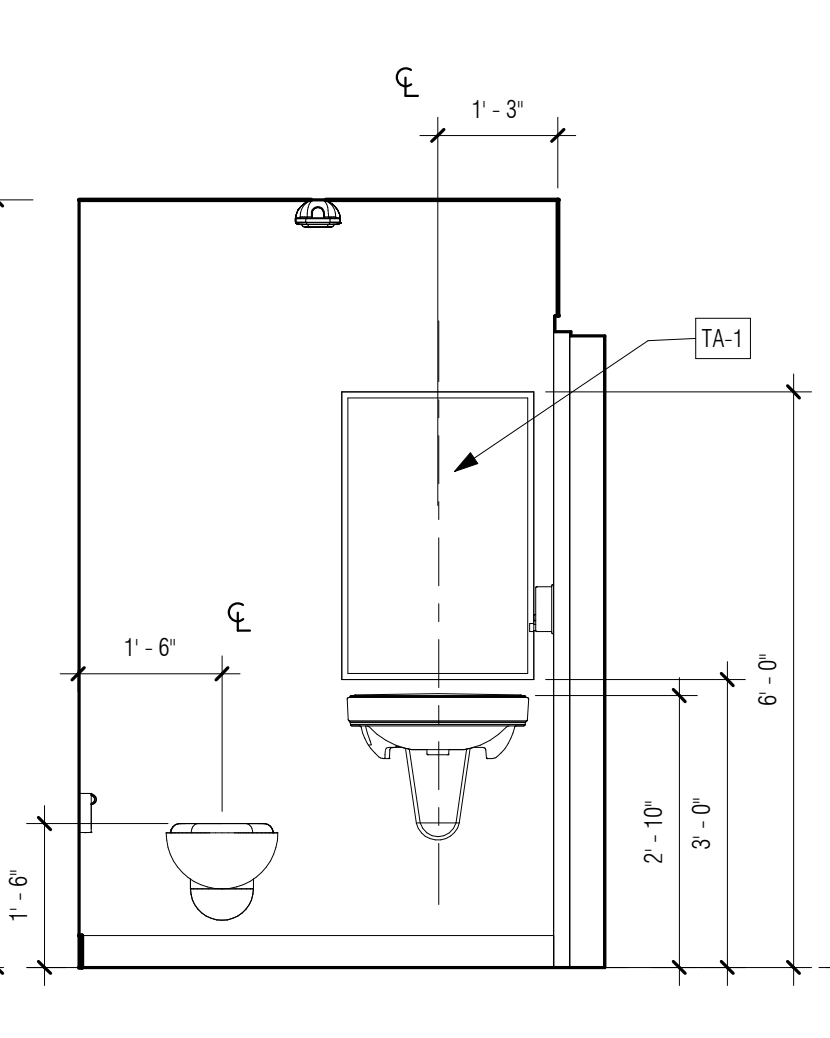
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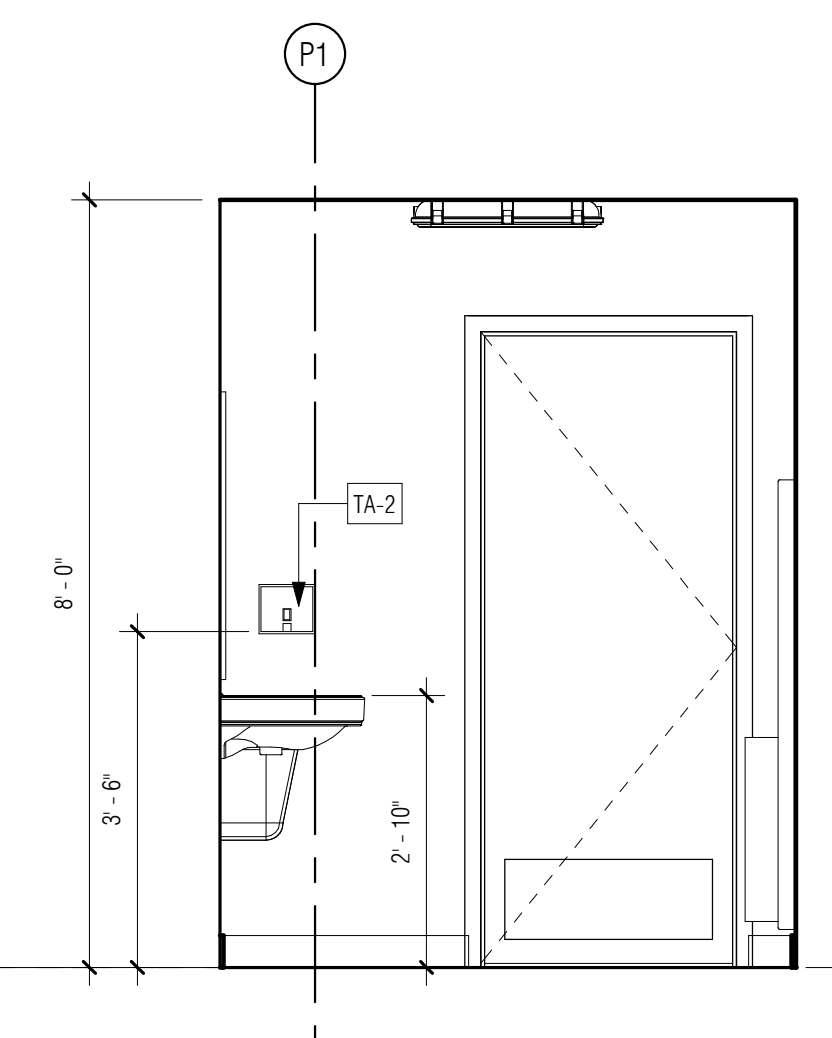
1 ENLARGED WC PLAN
1/2" = 1'-0"



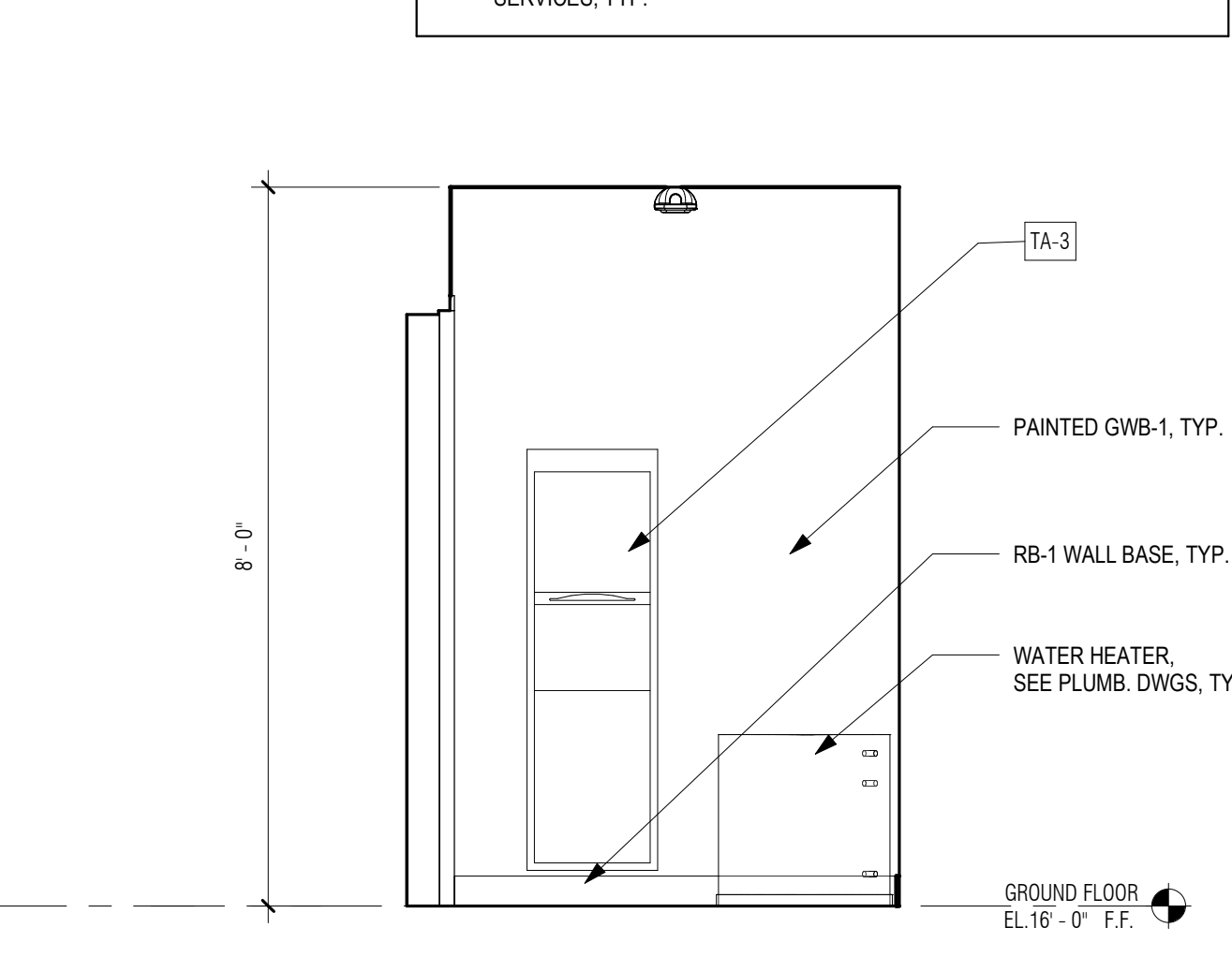
2 INT ELEV - WC SOUTH
1/2" = 1'-0"



3 INT ELEV - WC WEST
1/2" = 1'-0"



4 INT ELEV - WC NORTH
1/2" = 1'-0"



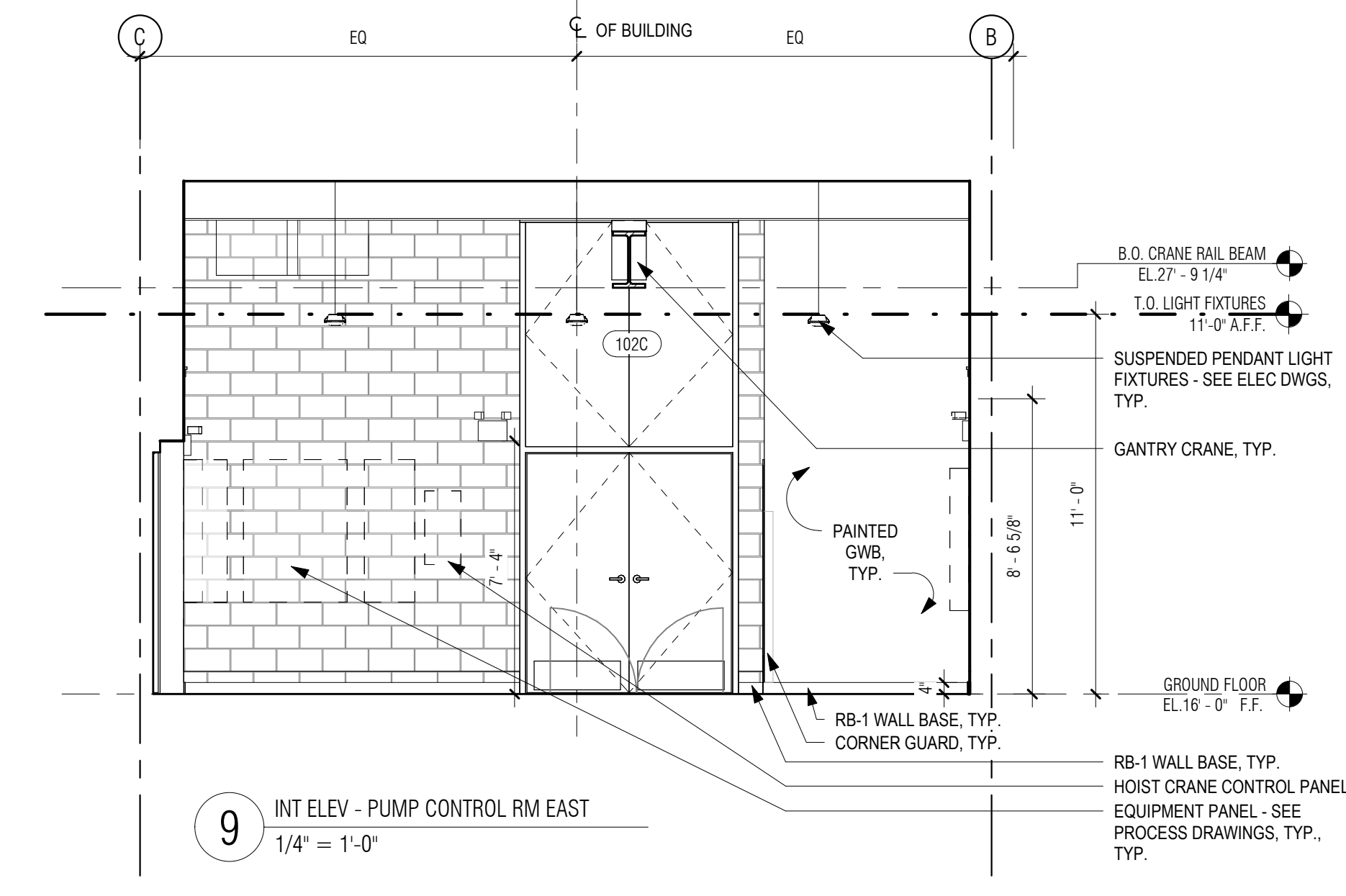
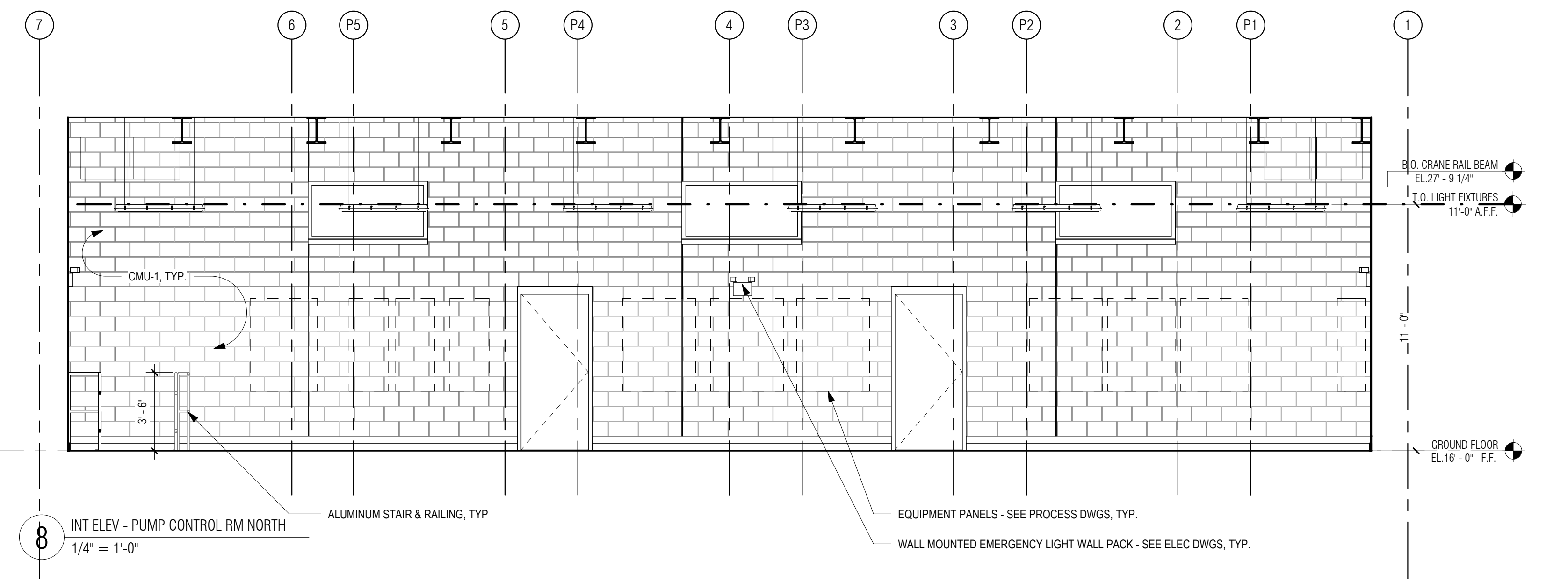
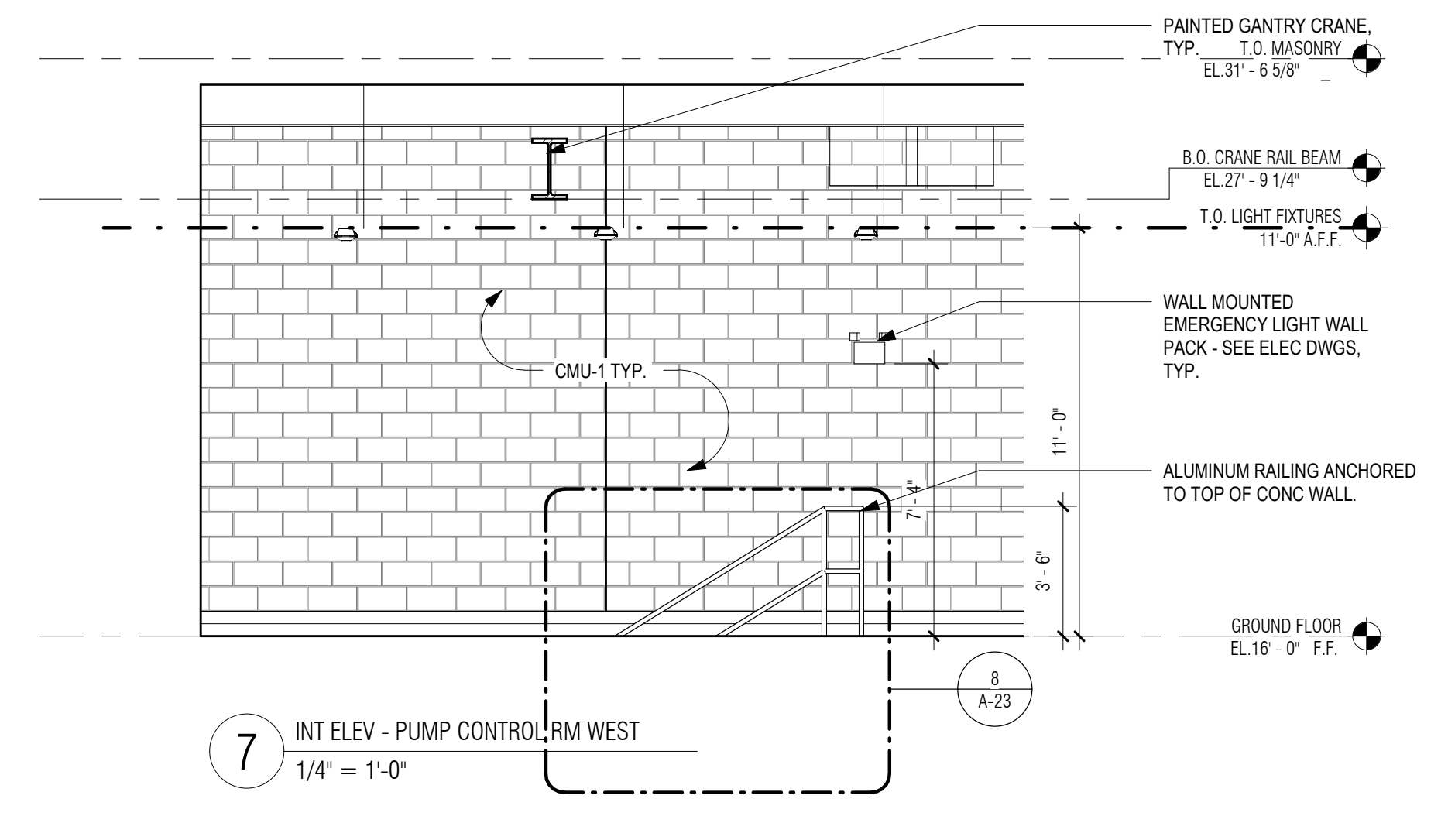
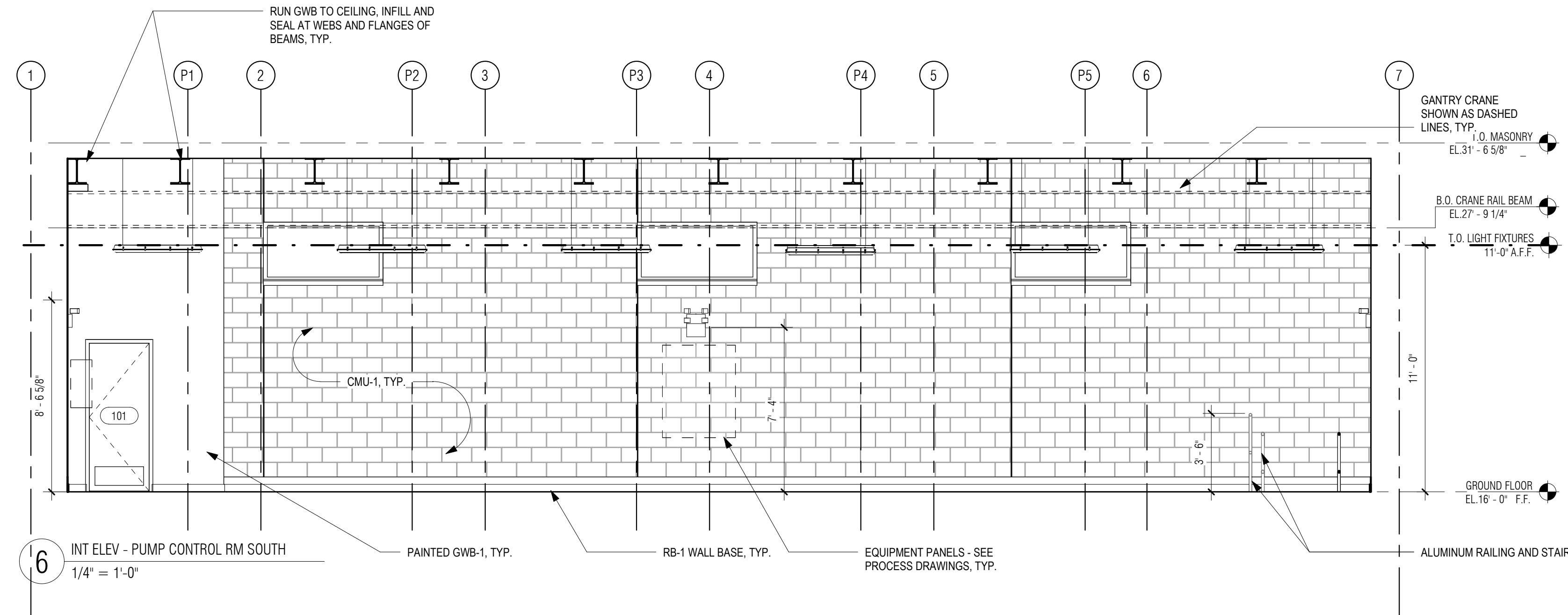
5 INT ELEV - WC EAST
1/2" = 1'-0"

TOILET ACCESSORY SCHEDULE

CODE	DESCRIPTION
TA-1	24"x36" MIRROR
TA-2	CONTURA SERIES SURFACE MOUNTED SOAP DISPENSER
TA-3	SEMI-RECESSED CONVERTIBLE PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
TA-4	SURFACE MOUNTED DOUBLE TOILET PAPER DISPENSER

GENERAL NOTES: INTERIOR ELEVATIONS

- REFER TO DWG A-01 FOR GENERAL NOTES
- REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS & MOUNTING HEIGHTS
- REFER TO DWG A-26 FOR DOOR, WINDOW AND LOUVER SCHEDULES
- REFER TO DWG A-27 FOR FINISH SCHEDULE AND MATERIALS
- ALL FURNITURE SHOWN FOR REFERENCE ONLY, N.I.C. TYP.
- REFER TO MEP DRAWINGS FOR MORE INFORMATION ABOUT PLUMBING AND LIGHT FIXTURES, MECHANICAL AND ELECTRICAL EQUIPMENT AND SERVICES, TYP.



PREPARED BY:

BETA

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PLOT DATE: 8/29/2021 4:00:13 PM

REGISTERED PROFESSIONAL

REGISTERED ARCHITECT
STATE OF MASSACHUSETTS
01938
BOSTON
MASS

SUBCONSULTANT:

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ARCHITECTS + PLANNERS

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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

INTERIOR ELEVATIONS AND WC PLAN

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

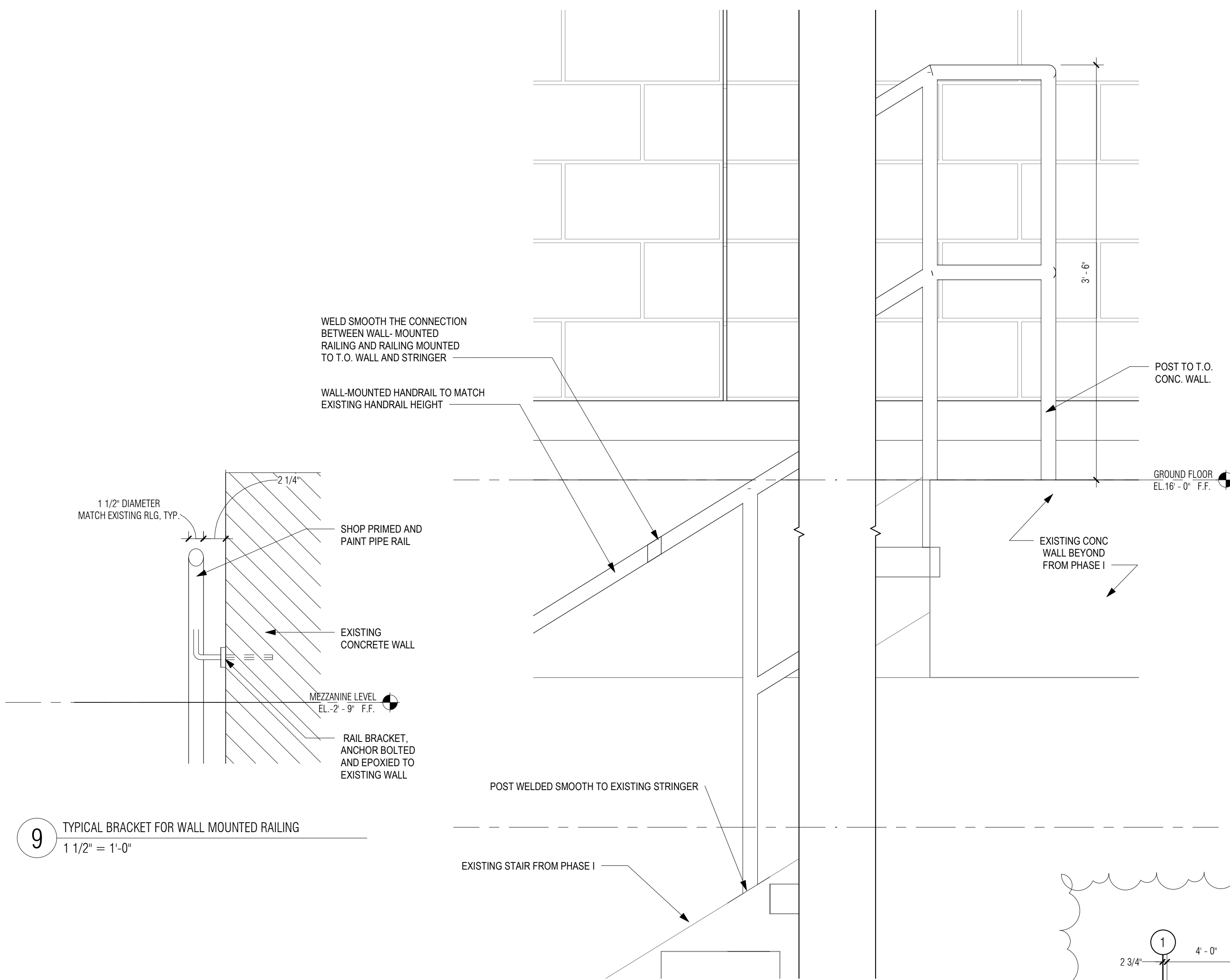
As indicated

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CONTRACT 2

SHEET NO. **A-22**

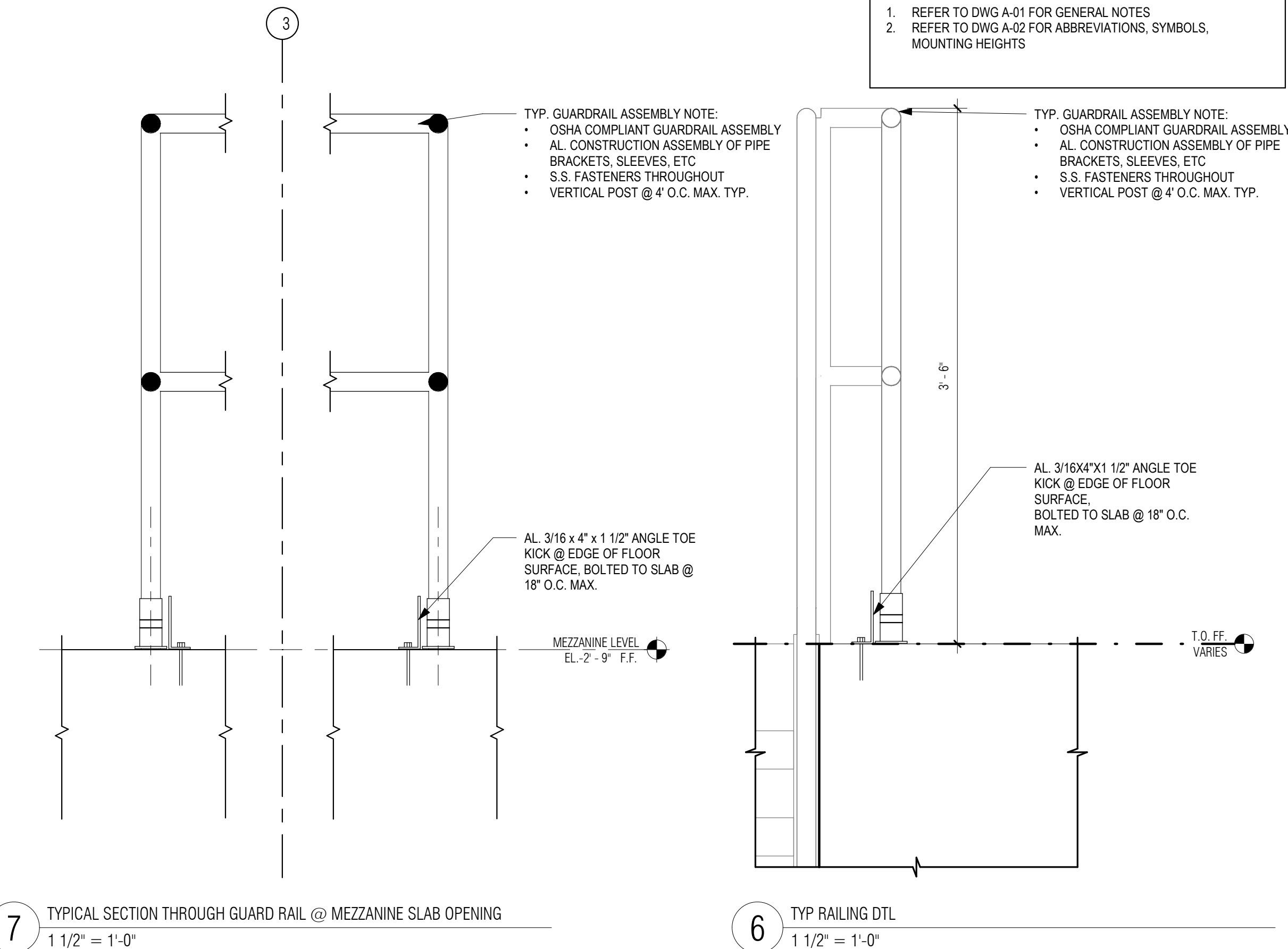
P:\PROJECTS\1510 NPS - NEWBURYPUMP STATION\600-NPS-DWG\600-NPS-DWG\600-NPS-DWG\1-REV\T\FAMILIES\TITLEBLOCKS\KOC_ArchD 24x36 Vertical Title - BETA



9 TYPICAL BRACKET FOR WALL MOUNTED RAILING
1 1/2" = 1'-0"

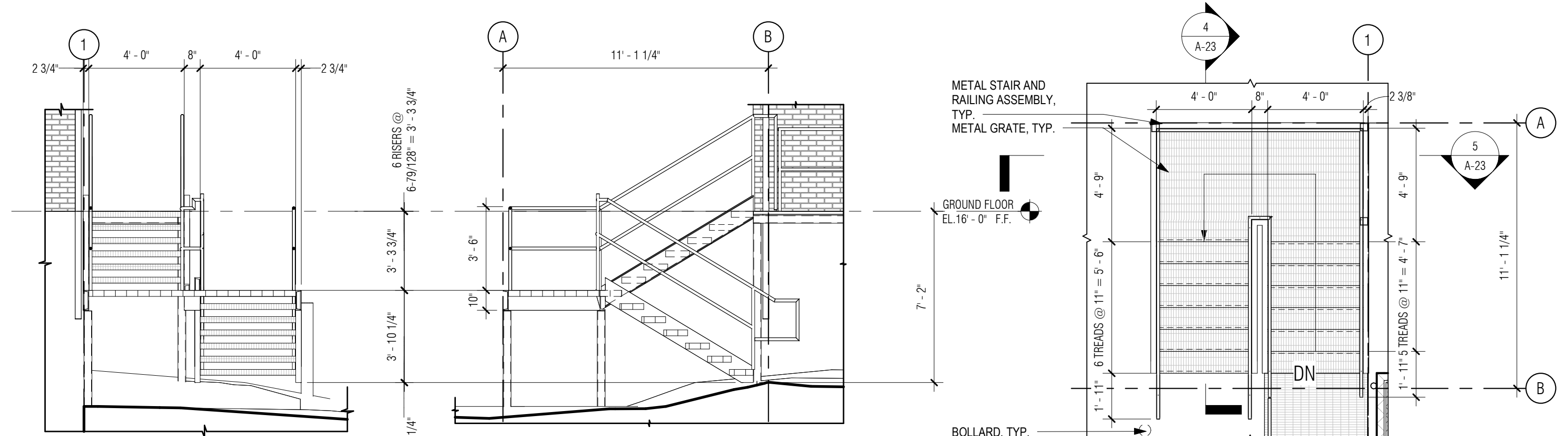
8 RAILING DETAIL AT T.O.W.
1 1/2" = 1'-0"

5 SECTION THROUGH REAR EXTERIOR STAIR
1/4" = 1'-0"



7 TYPICAL SECTION THROUGH GUARD RAIL @ MEZZANINE SLAB OPENING
1 1/2" = 1'-0"

6 TYP RAILING DTL
1 1/2" = 1'-0"



4 SECTION THROUGH REAR EXTERIOR STAIRS
1/4" = 1'-0"

3 ENLARGED STAIR PLAN - EXTERIOR REAR STAIR
1/4" = 1'-0"

2 SECTION THROUGH EXTERIOR ENTRY STAIR 'B'
1/4" = 1'-0"

1 ENLARGED STAIR 'B' PLAN - EXTERIOR ENTRY STAIR 'B'
1/4" = 1'-0"

GENERAL NOTES: DETAILS

1. REFER TO DWG A-01 FOR GENERAL NOTES
2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

PREPARED BY:

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PLOT DATE: 8/29/2021 4:00:16 PM

REGISTERED PROFESSIONAL

REGISTERED ARCHITECT
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Concord, MA 01742
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280 Elm Street
South Dartmouth, MA 02748
508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

EXTERIOR STAIR SECTIONS AND TYPICAL RAILING DETAILS

REVISIONS

NO.	DESCRIPTION	DATE
1	08/30/2021	Railing

DRAWN BY: TM

DESIGNED BY: DSK

CHECKED BY: MPS

DSK JOB No.: TPS-1795 DATE: 04/16/2021

BETA JOB No.: 5530

SCALE

As indicated

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CONTRACT 2

SHEET NO. **A-23**

REVISIONS

NO.	DESCRIPTION	DATE
1	08/30/2021	Railing

DRAWN BY: TM

DESIGNED BY: DSK

CHECKED BY: MPS

DSK JOB No.: TPS-1795 DATE: 04/16/2021

BETA JOB No.: 5530

SCALE

As indicated

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CONTRACT 2

SHEET NO. **A-23**

HARDWARE SCHEDULE

HD-1	ENTRANCE LEVER SET 1 1/2 BUTTS BULB WEATHER STRIPPING ALL AROUND BOTTOM SWEEP MOP PLATE INTERIOR SIDE ONLY HEAVY DUTY THRESHOLD WITH GASKET OVERHEAD CLOSER SILENCER
HD-3A	MULTI-SET LOWER DOORS 3 BUTTS BULB WEATHER STRIPPING ALL AROUND STORE ROOM FUNCTION LEVER SET ON ACTIVE LEAF DUMMY LEVER SET ON INACTIVE LEAF BOTTOM SURFACE FLUSH BOLTS ON INACTIVE LEAF TOP SURFACE FLUSH BOLTS ON INACTIVE LEAF WITH LONG THROW KICK PLATE EXTERIOR SIDE MOP PLATE INTERIOR SIDE PAIR OF WALL STOPS WITH HOOK AND EYE ASTRAGAL SILENCER
HD-3B	MULTI-SET UPPER DOORS PAIR HAS NO LEVER SET 3 BUTTS BULB WEATHER STRIPPING ALL AROUND BOTTOM SURFACE FLUSH BOLTS ON BOTH LEAFS PAIR OF WALL STOPS WITH HOOK AND EYE ASTRAGAL BRUSH WEATHERSTRIPPING AROUND BEAM OPENING SEE DOOR DETAIL SHEETS FOR NEOPRENE GASKET INFO
HD-5	PRIVACY LEVER SET 1 1/2 BUTTS MOP PLATE BOTH SIDES OVERHEAD CLOSER WALL STOP SILENCER
HD-7	MANUFACTURERS HARDWARE WITH TAMPER PROOF KEY SET FULLY WATERPROOF GASKET SEAL ALL AROUND
HD-8	MANUFACTURERS HARDWARE

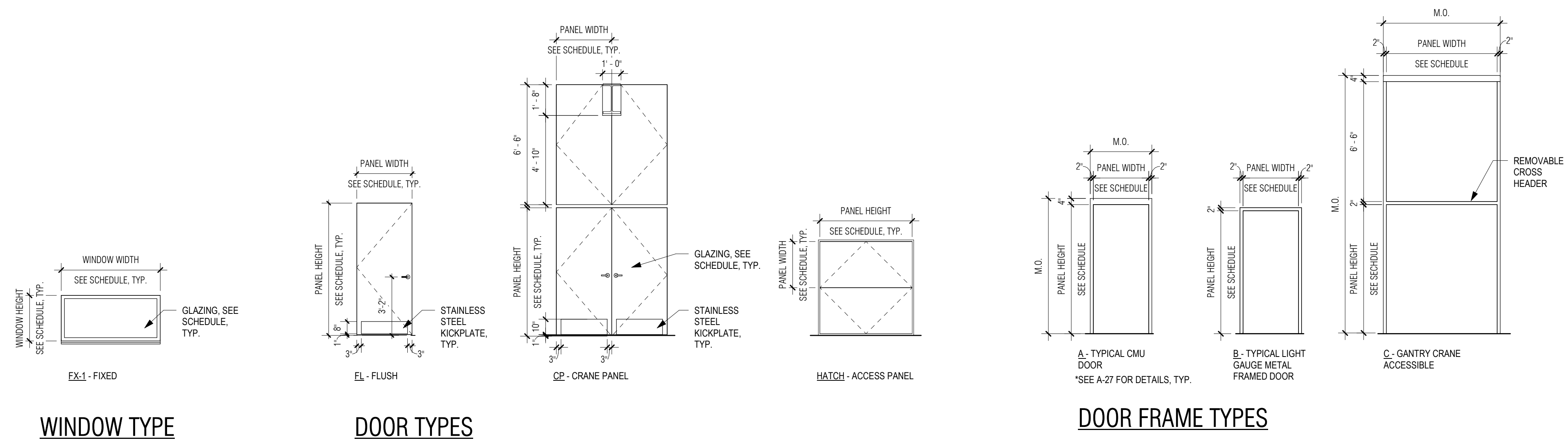
NOTES:
ALL HARDWARE SATIN SS FINISH
PROVIDE KEYBOX IN OFFICE
ALL EXTERIOR DOORS TO BE INSULATED
PROVIDE SWEEPS AT ALL EXTERIOR DOORS
PROVIDE SS DRIP CAP AT ALL EXTERIOR DOORS

DOOR SCHEDULE

DOOR NUMBER	DOOR TYPE	LOCATION		DOOR				FRAME				FIRE RATING	HARDWARE	NOTES		
		ROOM NUMBER	ROOM NAME	PANEL SIZE		PANEL THICKNESS	TOTAL PANEL COUNT	MATL	FINISH	GLAZING TYPE	FRAME TYPE				THRESHOLD TYPE	GASKET
				WIDTH	HEIGHT											
GROUND FLOOR																
101	FL	101	WC	INT	2'-8"	6'-8"	0'-1 3/4"	1	STEEL		N/A	B		Yes	HD-5	
102A	FL	102	PUMP CONTROL ROOM	EXT	3'-0"	7'-0"	0'-1 3/4"	1	STEEL		N/A	A		Yes	HD-1	
102B	FL	102	PUMP CONTROL ROOM	EXT	3'-0"	7'-0"	0'-1 3/4"	1	STEEL		N/A	A		Yes	HD-1	
102C	FL	102	PUMP CONTROL ROOM	EXT	3'-0"	7'-0"	0'-1 3/4"	4	STEEL		N/A	C		Yes	HD-3A/3B	

WINDOW SCHEDULE

WINDOW NUMBER	WINDOW TYPE	LOCATION		WINDOW		FRAME MATERIAL		FINISH			SILL TYPE	HEAD TYPE	JAMB TYPE	NOTES
		ROOM NUMBER	ROOM NAME	WINDOW SIZE		EXT	INT	GLAZING	EXT	INT				
				WIDTH M.O.	HEIGHT M.O.									
GROUND FLOOR														
102A	FX-1	102	PUMP CONTROL ROOM	5'-4"	2'-8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27	
102B	FX-1	102	PUMP CONTROL ROOM	5'-4"	2'-8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27	
102C	FX-1	102	PUMP CONTROL ROOM	5'-4"	2'-8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27	
102D	FX-1	102	PUMP CONTROL ROOM	5'-4"	2'-8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27	
102E	FX-1	102	PUMP CONTROL ROOM	5'-4"	2'-8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27	
102F	FX-1	102	PUMP CONTROL ROOM	5'-4"	2'-8"	AL-1	AL-1	GLX-1	PT-2	PT-2	3/A-27	4/A-27	5/A-27	



PREPARED BY:



REGISTERED PROFESSIONAL



SUBCONSULTANT:

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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

DOOR AND WINDOW SCHEDULES

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

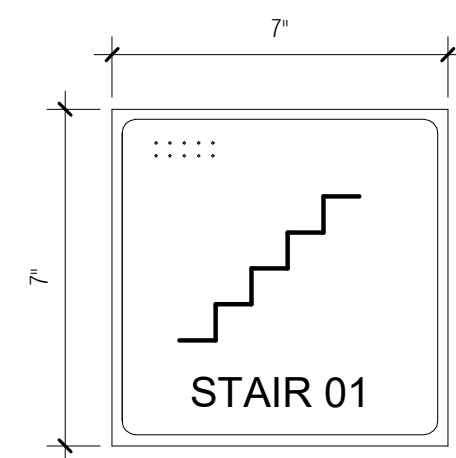
As indicated

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

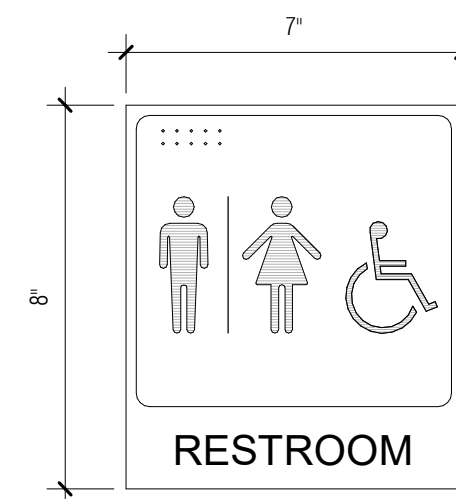
CONTRACT 2

SHEET NO.

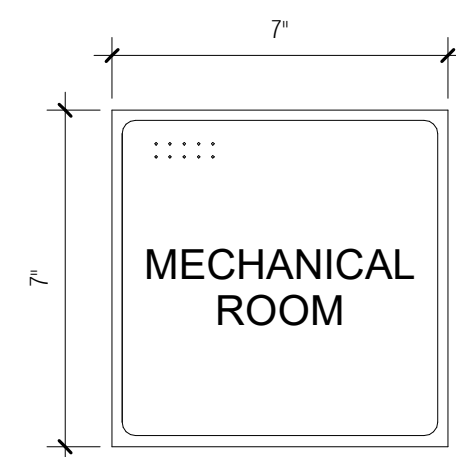
A-24



3 TYPICAL STAIR SIGNAGE
3" = 1'-0"



2 RESTROOM SIGNAGE
3" = 1'-0"



1 TYPICAL ROOM SIGNAGE
3" = 1'-0"

CHARACTER PROPORTIONS WIDTH-TO-HEIGHT RATIO BETWEEN 3.5 TO 1:1
STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1.5 AND 1:10
FINISH: ADAAG 4.30.5: NON-GLARE
CONTRAST: LIGHT ON DARK
REQUIREMENTS: RAISED LETTERS AND BRAILLE
LOCATION: ON WALL ADJACENT TO LATCH SIDE OF DOOR, 60" A.F.F TO SIGN CENTERLINE.
OBSTACLES: A PERSON MUST BE ABLE TO APPROACH WITHIN 3' OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING (SITTING) WITHIN SWING OF DOOR

CHARACTER PROPORTIONS WIDTH-TO-HEIGHT RATIO BETWEEN 3.5 TO 1:1
STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1.5 AND 1:10
FINISH: ADAAG 4.30.5: NON-GLARE
CONTRAST: LIGHT ON DARK
REQUIREMENTS: RAISED LETTERS AND BRAILLE
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OBSTACLES: A PERSON MUST BE ABLE TO APPROACH WITHIN 3' OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING (SITTING) WITHIN SWING OF DOOR
THE RESTROOM SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY

CHARACTER PROPORTIONS WIDTH-TO-HEIGHT RATIO BETWEEN 3.5 TO 1:1
STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1.5 AND 1:10
FINISH: ADAAG 4.30.5: NON-GLARE
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OBSTACLES: A PERSON MUST BE ABLE TO APPROACH WITHIN 3' OF SIGN WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING (SITTING) WITHIN SWING OF DOOR

SIGNAGE SCHEDULE		
ROOM NO.	DESCRIPTION	QUANTITY

-	STAIRS	3
006	MEZZANINE	1
101	WC	1
102	PUMP CONTROL ROOM	1
EXTERIOR		
-	BUILDING STREET ADDRESS	1
-	BUILDING DEDICATION PLAQUE (BRONZE)	1
Grand total: 6		

MATERIAL FINISH LEGEND										
CODE	PRODUCT NAME / TYPE	LOCATION	IMAGE	SIZE (HxWxD)	COLOR	PATTERN	TEXTURE / FINISH	MANUFACTURER	NOTES	
04210 : CLAY UNIT MASONRY										
BRK-1	BRICK - FACE BRICK	EXTERIOR WALLS		2.25x7.625x3.5	FULL RANGE DANISH	RUNNING BOND	SAND MOLDED FACE BRICK		STILES AND HART	
GR-1	GROUT	USED WITH BRK-1		3/8" JOINTS	WHITE					
04222 : STRUCTURAL UNIT MASONRY										
CMUJ-1	Structural CMU	SEE DRAWINGS		8x16x8 NOMINAL CONCRETE BLOCKS					JANDRIS	
05500 : METAL FABRICATION										
GRT-1	ALUMINUM GRATING	EXTERIOR STAIRS AND LANDING								
05500 : METAL FABRICATIONS										
AL-1	ALUMINUM	STAIRS, RAILINGS AND HATCHES								
06100 : ROUGH CARPENTRY										
PLY	PLYWOOD PANELING	AT ALL WALL-MOUNTED ELEC. PANELS		3/4" THICK						
07130 : SELF-ADHERING SHEET WATERPROOFING										
WP-1	SHEET WATERPROOFING	SEE SPECS								
WP-2	LIQUID APPLIED WATERPROOFING	WET WELL, INTERIOR CONC. SURFACES								
07610 : SHEET METAL ROOFING										
DS-1	DOWNSPOUT TO MATCH RF-1									
RF-1	ALUMINUM GUTTER				SEE DRAWINGS		CLEAR ANODIZED			
08800 : GLAZING										
GLX-1	1" IGU - VISION GLASS	WINDOWS			SEE DOOR AND WINDOW SCHEDULE		TRANSLUCENT	TRANSLUCENT GLAZING, PATTERN TO BE APPROVED BY ARCHITECT		EXTERIOR PANE TO BE LAMINATED
09211 : GYPSUM BOARD ASSEMBLIES										
GWB-1	GYPSUM WALL BOARD				SEE DETAILS					
09653 : RESILIENT WALL, BASE AND ACCESSORIES										
RB-1	RESILIENT BASE - COLOR "A"	AT ALL GWB-1 WALLS		4" HEIGHT		CHARCOAL 20	TRADITIONAL TOELESS		JOHNSONITE	
09671 : RESINOUS FLOORING										
SL-1	SEALER - CONCRETE									
09900 : PAINTING AND COATING										
PT-1A	PAINT - ALL GWB-1 WALLS					SIMPLY WHITE OC-117			EGGSHELL BEN MOORE	
PT-1B	PAINT - ALL EXPOSED STRUCTURE (DRY-FALL)					WHITE				
PT-2	PAINT - DOORS AND WINDOWS AND FRAMES					ARCH. TO CONFIRM				
PT-3	PAINT - BOLLARDS					SAFETY YELLOW				
PT-4	LIQUID APPLIED PROTECTIVE COATING	EXT VERTICAL CONCRETE WALLS			WATER DISPERSED, ACRYLIC, PROTECTIVE, ANTI-CARBONATION COATING	ARCH. TO CONFIRM		670W, OR EQUAL	SIKA	usa.sika.com
12481 : ENTRANCE FLOOR MATS										
CPT-1	CARPET WALK-OFF MAT	ENTRY DOORS				CHARCOAL	BERBER - RB		MATS INC	

NOTE: SEE SPECIFICATIONS FOR MORE DETAILS, TYP.

ROOM FINISH SCHEDULE										
Level	ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	
					NORTH	EAST	SOUTH	WEST		
PUMP LEVEL										
PUMP LEVEL	005	WET WELL 4	NA	N/A	N/A	N/A	N/A	N/A	N/A	
MEZZANINE LEVEL										
MEZZANINE LEVEL	006	MEZZANINE	SL-1	N/A	N/A	N/A	N/A	N/A	N/A	
GROUND FLOOR										
GROUND FLOOR	101	WC	SL-1	RB-1	PT-1A	PT-1A	PT-1A	PT-1A	PT-1A	
GROUND FLOOR	102	PUMP CONTROL ROOM	SL-1	RB-1	PT-1A	PT-1A	PT-1A	PT-1A	PT-1A	EXPOSED STRUCTURE
GROUND FLOOR	103	EXTERIOR ENTRY PLATFORM	SL-1	N/A	N/A	N/A	N/A	N/A	N/A	
PUMP LEVEL										
PUMP LEVEL	001	PUMP ROOM	SL-1	N/A	N/A	N/A	N/A	N/A	N/A	
PUMP LEVEL	002	WET WELL 1	WP-2	N/A	WP-2	WP-2	WP-2	WP-2	WP-2	
PUMP LEVEL	003	WET WELL 3	WP-2	N/A	WP-2	WP-2	WP-2	WP-2	WP-2	
PUMP LEVEL	004	WET WELL 2	WP-2	N/A	WP-2	WP-2	WP-2	WP-2	WP-2	
PUMP LEVEL	006	INFLUENT CHAMBER	WP-2	N/A	WP-2	WP-2	WP-2	WP-2	WP-2	

PREPARED BY:



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PLOT DATE: 8/29/2021 4:00:20 PM

REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

SIGNAGE, ACCESSORIES AND FINISH SCHEDULES

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM

DESIGNED BY: DSK

CHECKED BY: MPS

DSK JOB No.: TPS-1795 DATE: 04/16/2021

BETA JOB No.: 5530

SCALE

3" = 1'-0"

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

CONTRACT 2


SHEET NO.


A-25

GENERAL NOTES: DETAILS
 1. REFER TO DWG A-01 FOR GENERAL NOTES
 2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

PREPARED BY:

 www.BETA-Inc.com
 PLOT DATE: 8/29/2021 4:00:21 PM

REGISTERED PROFESSIONAL


SUBCONSULTANT:

 30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
 280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT
MAIN LIFT PUMP STATION IMPROVEMENTS
 TAUNTON, MA

TITLE
DOOR & WINDOW DETAILS

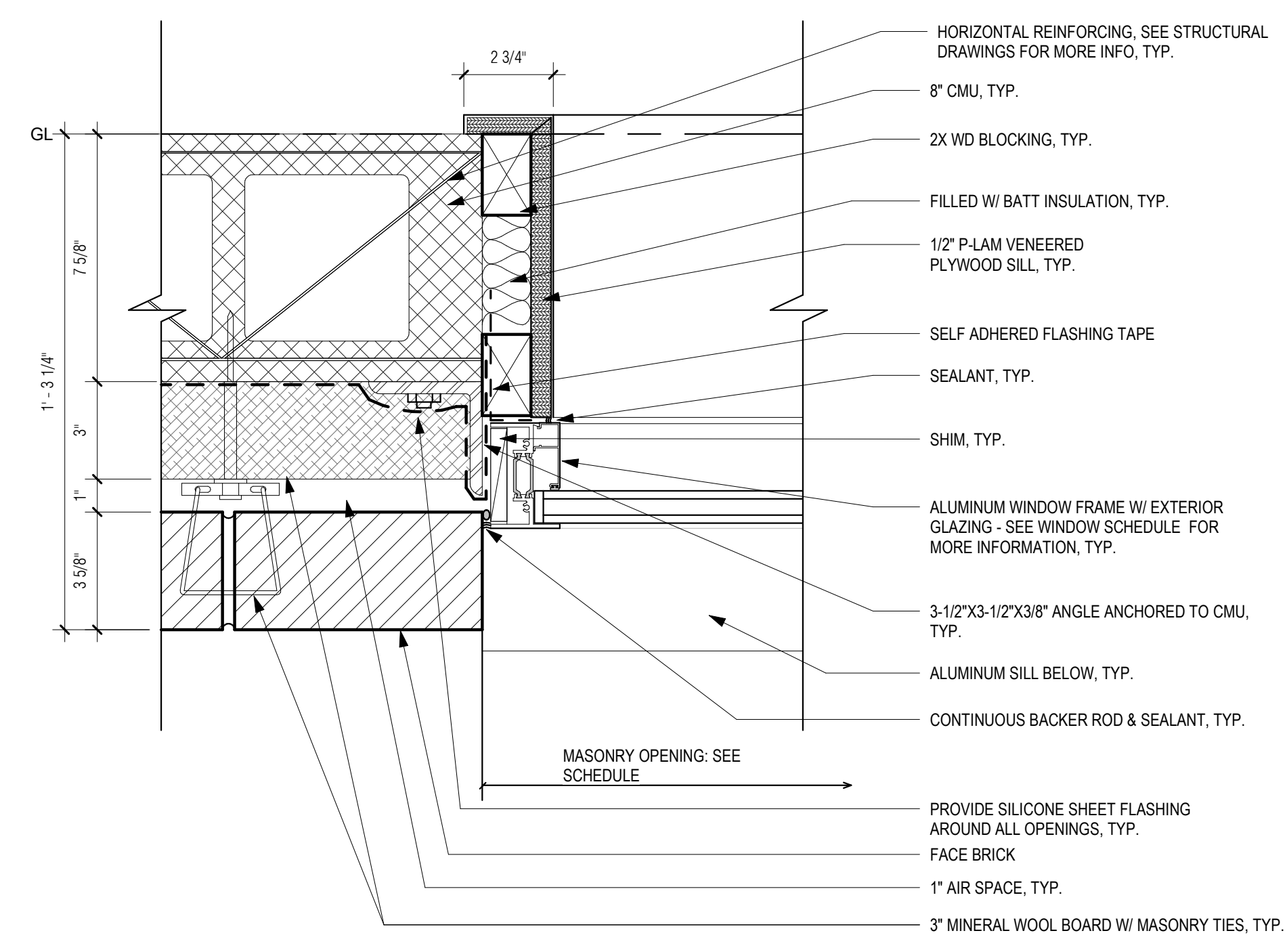
REVISIONS

NO.	DESCRIPTION	DATE

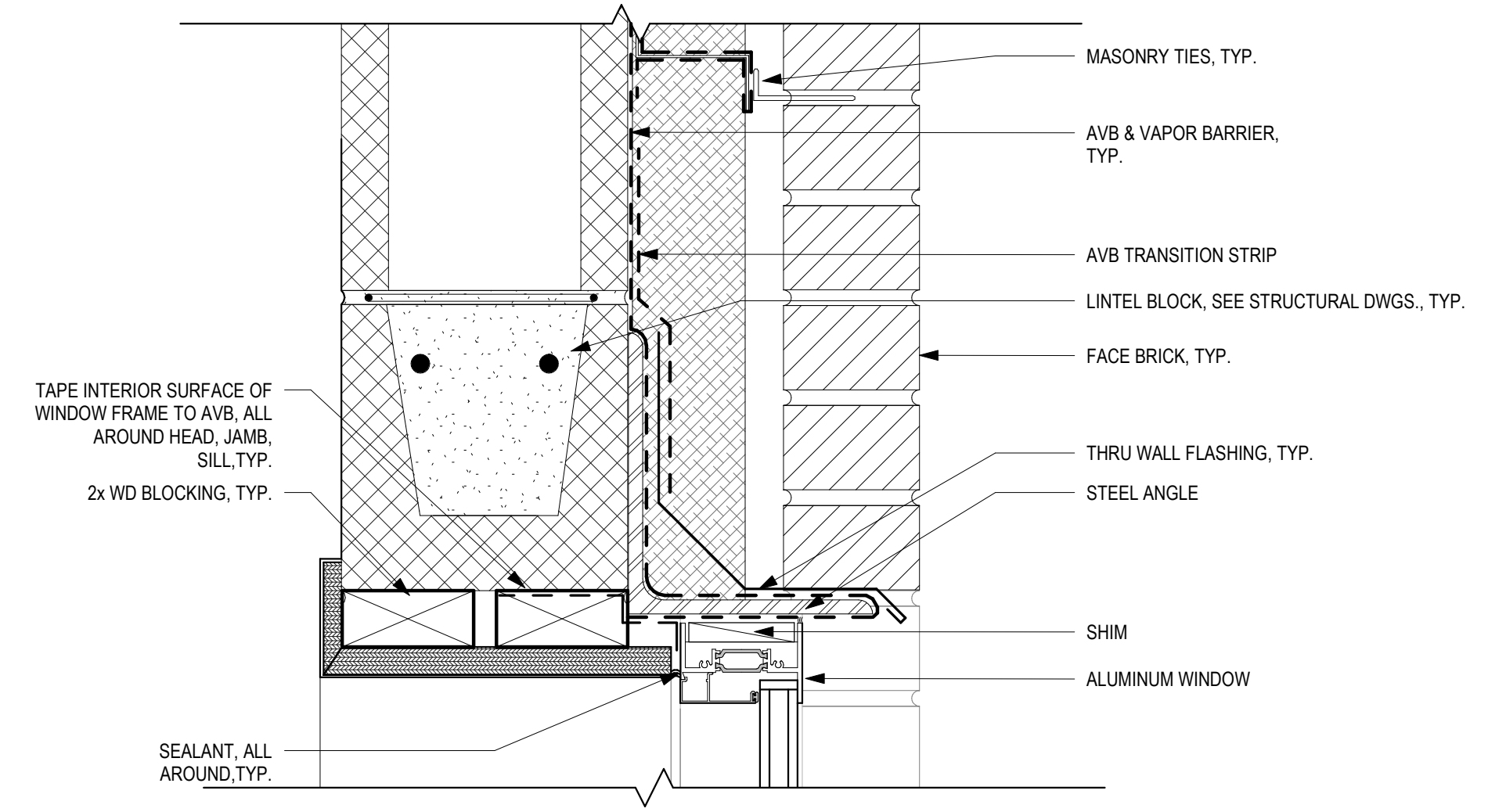
DRAWN BY: TM
 DESIGNED BY: DSK
 CHECKED BY: MPS
 DSK JOB No.: TPS-1795 DATE: 04/16/2021
 BETA JOB No.: 5530

SCALE
As indicated
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CONTRACT 2

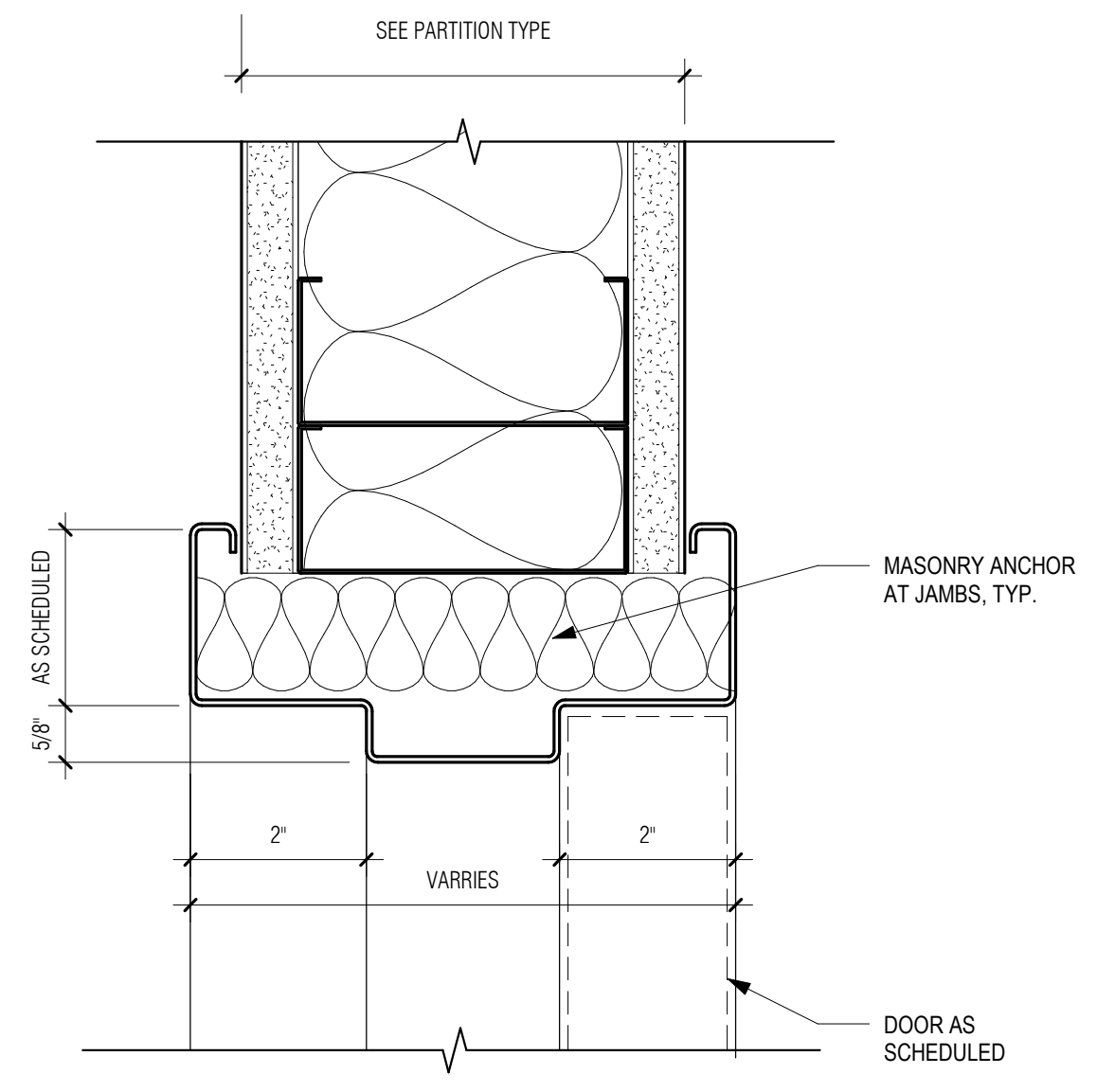
SHEET NO.
A-26



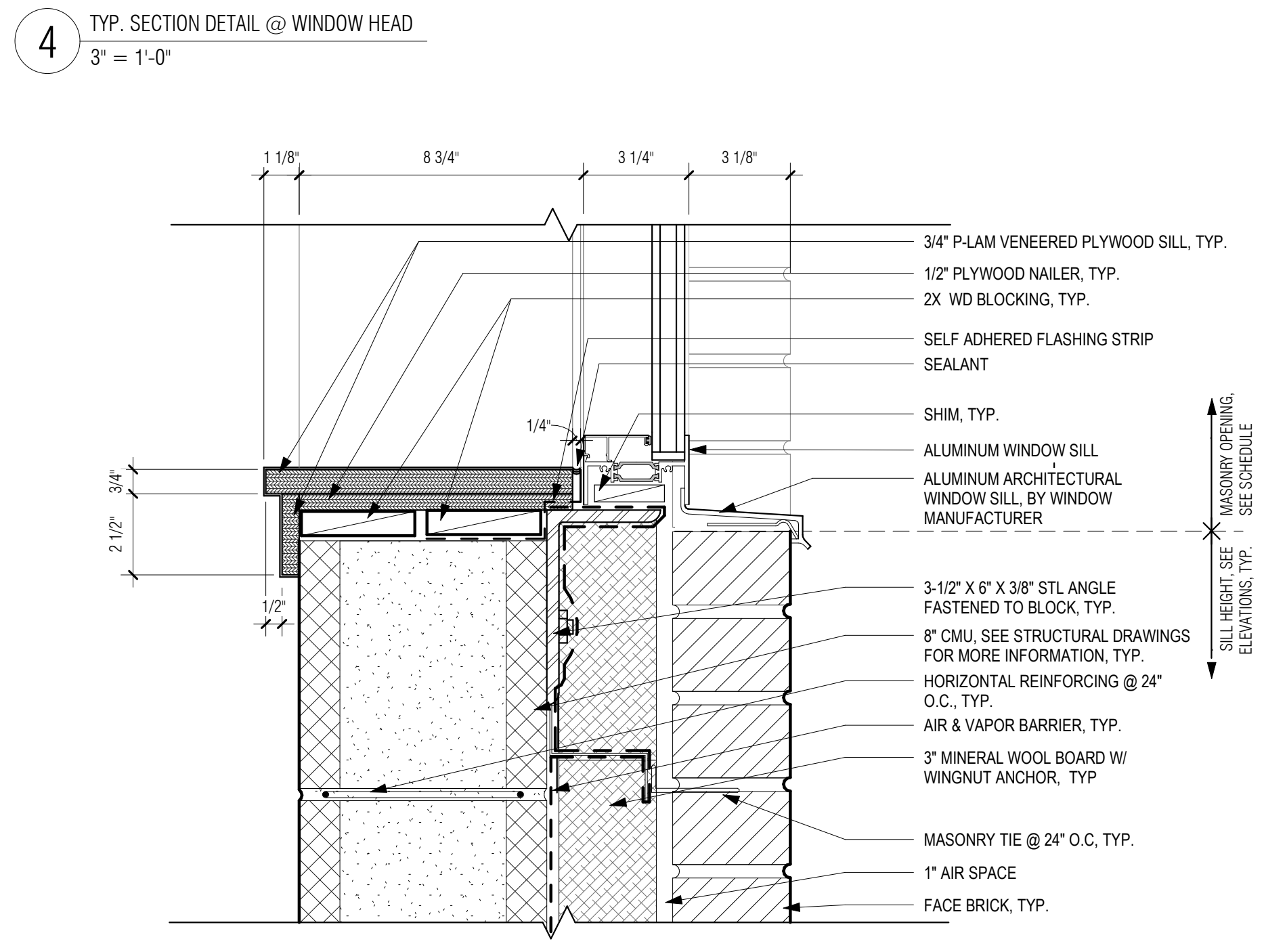
5 TYP. PLAN DETAIL @ WINDOW JAMB
 3" = 1'-0"



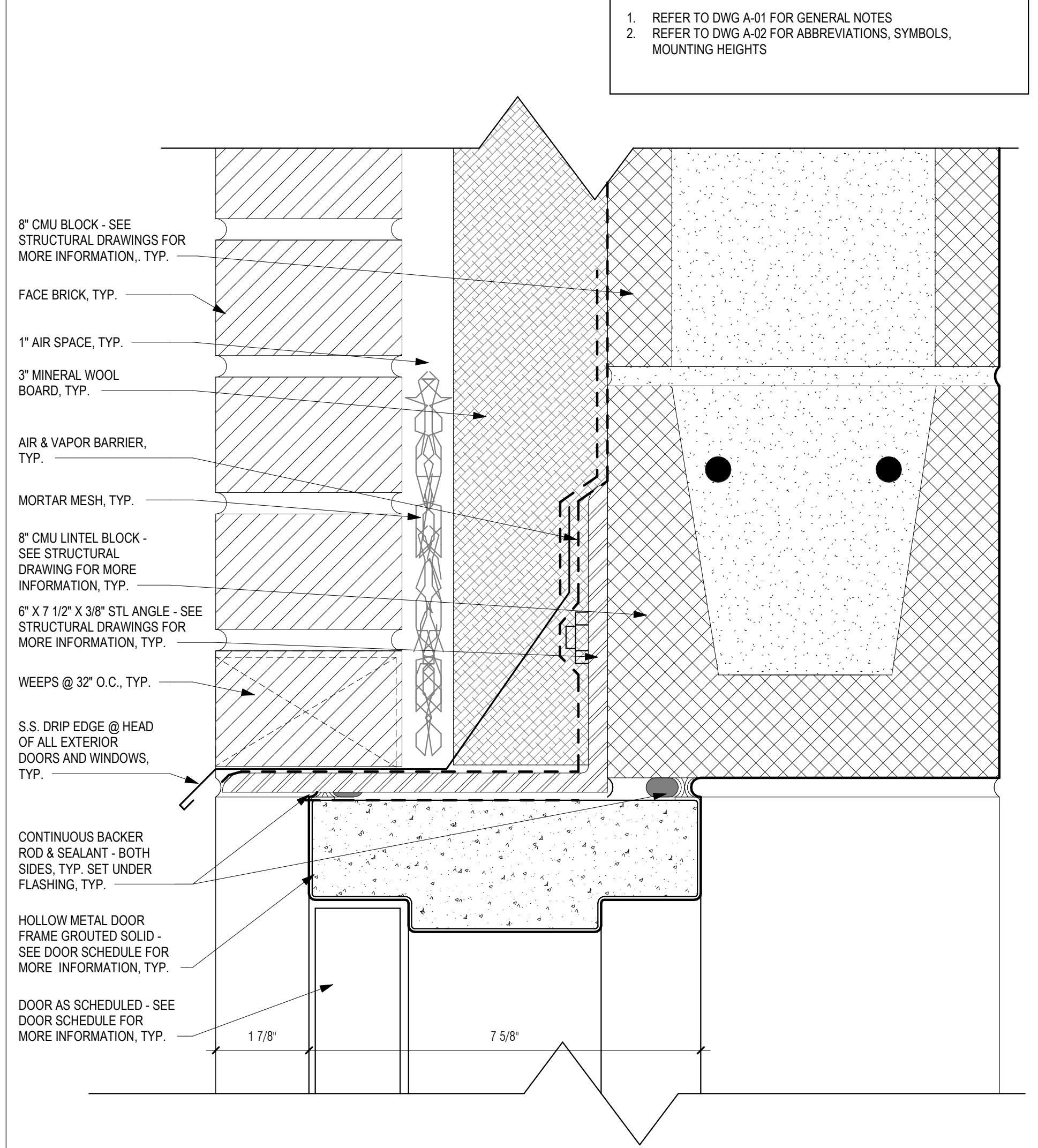
4 TYP. SECTION DETAIL @ WINDOW HEAD
 3" = 1'-0"



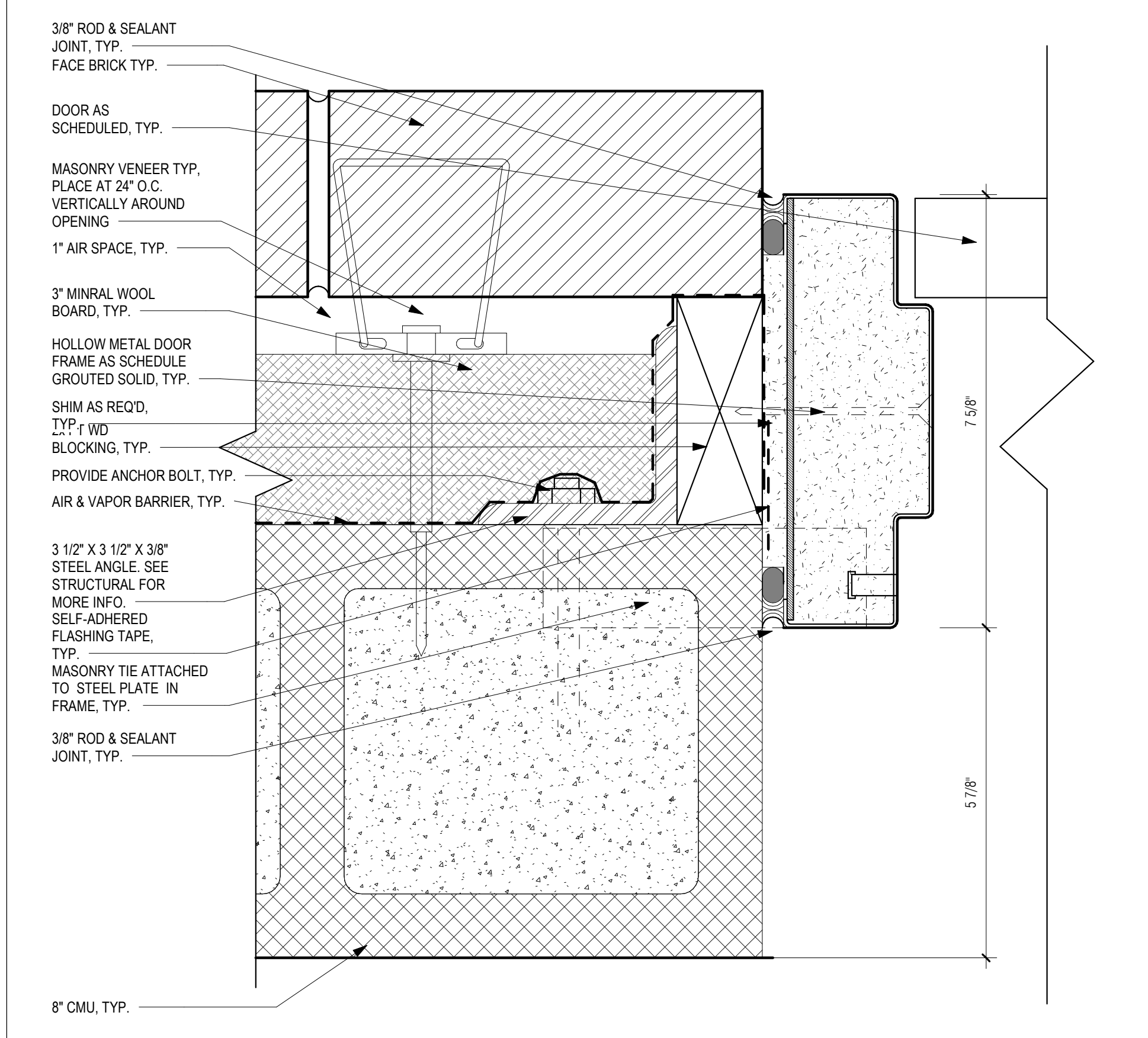
6 TYPICAL HOLLOW METAL DOOR JAMB/HEAD DETAIL AT GWB
 6" = 1'-0"



3 TYP. SECTION DETAIL @ WINDOW SILL
 3" = 1'-0"



2 TYP. EXT. HOLLOW METAL DOOR W/ CMU HEADER DETAIL - HEAD
 6" = 1'-0"



1 TYP. EXT. HOLLOW METAL DOOR W/ CMU HEADER DETAIL - JAMB
 6" = 1'-0"

GENERAL NOTES: DETAILS

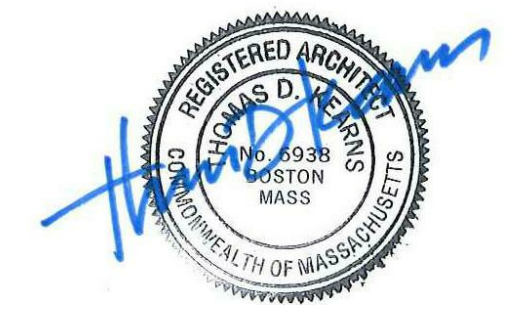
1. REFER TO DWG A-01 FOR GENERAL NOTES
2. REFER TO DWG A-02 FOR ABBREVIATIONS, SYMBOLS, MOUNTING HEIGHTS

PREPARED BY:



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REGISTERED PROFESSIONAL



SUBCONSULTANT:

DSK Dewing Schmid Kearns
ARCHITECTS + PLANNERS

30 Monument Square Suite 200B Concord, MA 01742 978.371.7500
280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

DOOR DETAILS

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

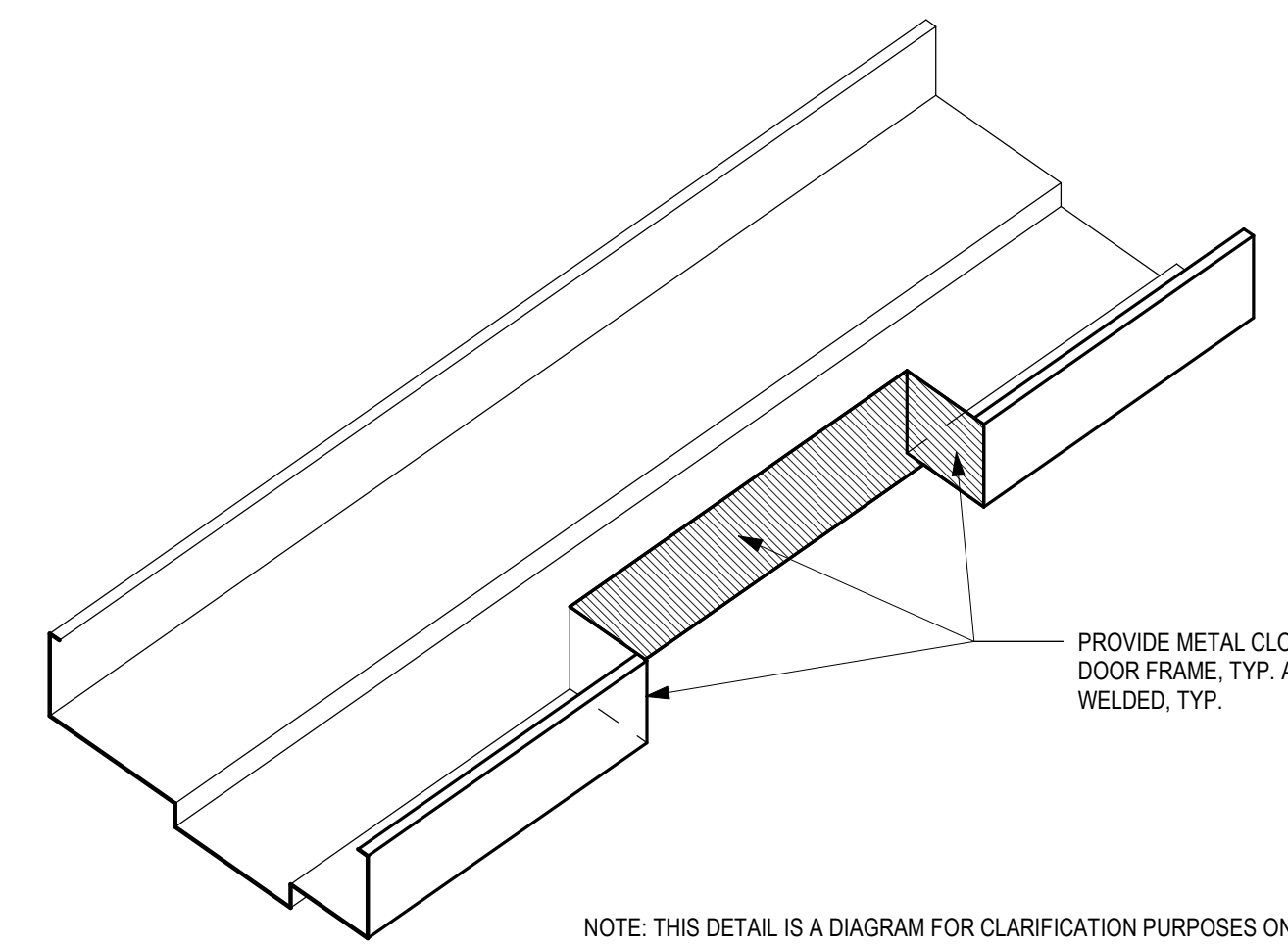
As indicated

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CONTRACT 2

SHEET NO.

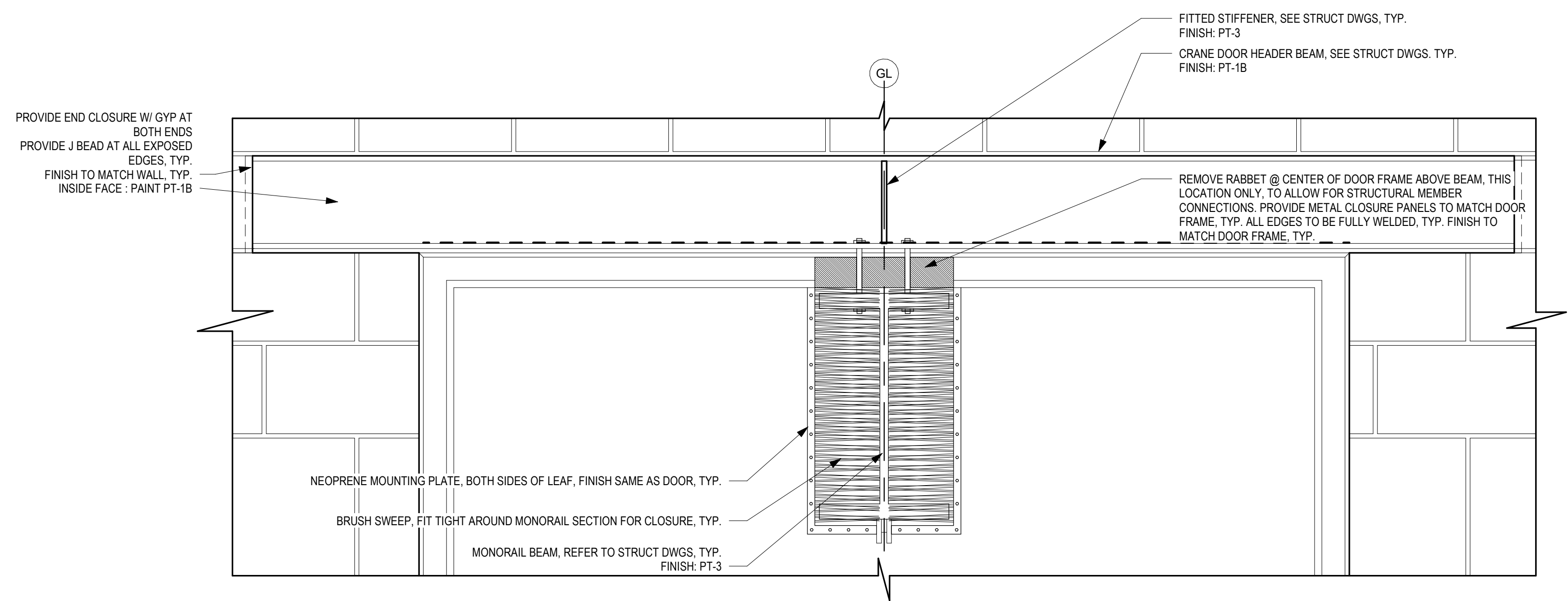
A-27



PROVIDE METAL CLOSURE PANELS, TO MATCH DOOR FRAME, TYP. ALL EDGES TO BE FULLY WELDED, TYP.

NOTE: THIS DETAIL IS A DIAGRAM FOR CLARIFICATION PURPOSES ONLY.

3 MONORAIL DOOR FRAME DETAIL
3" = 1'-0"



PROVIDE END CLOSURE, W/ GYP AT BOTH ENDS
PROVIDE J BEAD AT ALL EXPOSED EDGES, TYP.
FINISH TO MATCH WALL, TYP.
INSIDE FACE: PAINT PT-1B

FITTED STIFFENER, SEE STRUCT DWGS, TYP. FINISH: PT-3
CRANE DOOR HEADER BEAM, SEE STRUCT DWGS, TYP. FINISH: PT-1B

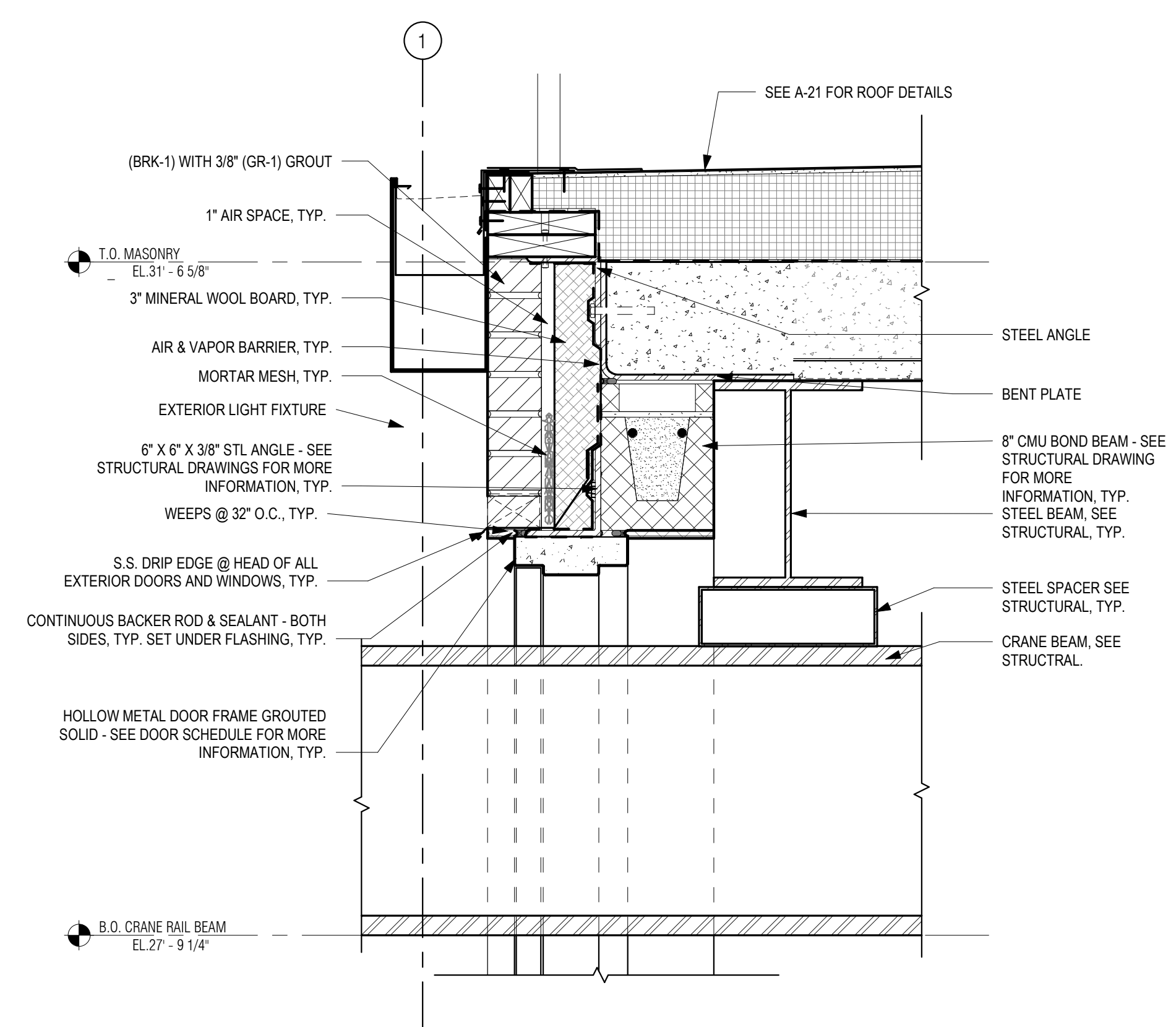
REMOVE RABBET @ CENTER OF DOOR FRAME ABOVE BEAM, THIS LOCATION ONLY, TO ALLOW FOR STRUCTURAL MEMBER CONNECTIONS. PROVIDE METAL CLOSURE PANELS TO MATCH DOOR FRAME, TYP. ALL EDGES TO BE FULLY WELDED, TYP. FINISH TO MATCH DOOR FRAME, TYP.

NEOPRENE MOUNTING PLATE, BOTH SIDES OF LEAF, FINISH SAME AS DOOR, TYP.

BRUSH SWEEP, FIT TIGHT AROUND MONORAIL SECTION FOR CLOSURE, TYP.

MONORAIL BEAM, REFER TO STRUCT DWGS, TYP. FINISH: PT-3

2 CRANE DOOR HEADER - INTERIOR ELEVATION
1 1/2" = 1'-0"



(BRK-1) WITH 3/8" (GR-1) GROUT

1" AIR SPACE, TYP.

T.O. MASONRY
EL. 31'-6 5/8"

3" MINERAL WOOL BOARD, TYP.

AIR & VAPOR BARRIER, TYP.

MORTAR MESH, TYP.

EXTERIOR LIGHT FIXTURE

6" X 6" X 3/8" STL ANGLE - SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION, TYP.

WEEPS @ 32" O.C., TYP.

S.S. DRIP EDGE @ HEAD OF ALL EXTERIOR DOORS AND WINDOWS, TYP.

CONTINUOUS BACKER ROD & SEALANT - BOTH SIDES, TYP. SET UNDER FLASHING, TYP.

HOLLOW METAL DOOR FRAME GROUTED SOLID - SEE DOOR SCHEDULE FOR MORE INFORMATION, TYP.

B.O. CRANE RAIL BEAM
EL. 27'-9 1/4"

SEE A-21 FOR ROOF DETAILS

STEEL ANGLE

BENT PLATE

8" CMU BOND BEAM - SEE STRUCTURAL DRAWING FOR MORE INFORMATION, TYP.

STEEL BEAM, SEE STRUCTURAL, TYP.

STEEL SPACER SEE STRUCTURAL, TYP.

CRANE BEAM, SEE STRUCTURAL

1 TOP OF WALL AT HOIST BEAM
1 1/2" = 1'-0"

P:\PROJECTS\1510 NPS - NEWBURYPORT PUMP STATION\600-NPS-DWG\600-NPS-TITLEBLOCKS\KOC_Arch D 24x36 Vertical Title - BETA

PREPARED BY:



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REGISTERED PROFESSIONAL



SUBCONSULTANT:

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ARCHITECTS + PLANNERS

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280 Elm Street South Dartmouth, MA 02748 508.999.0440

PROJECT

MAIN LIFT
PUMP
STATION
IMPROVEMENTS

TAUNTON, MA

TITLE

RESTROOM DETAILS
AND PARTITION
TYPES

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY: TM
DESIGNED BY: DSK
CHECKED BY: MPS
DSK JOB No.: TPS-1795 DATE: 04/16/2021
BETA JOB No.: 5530

SCALE

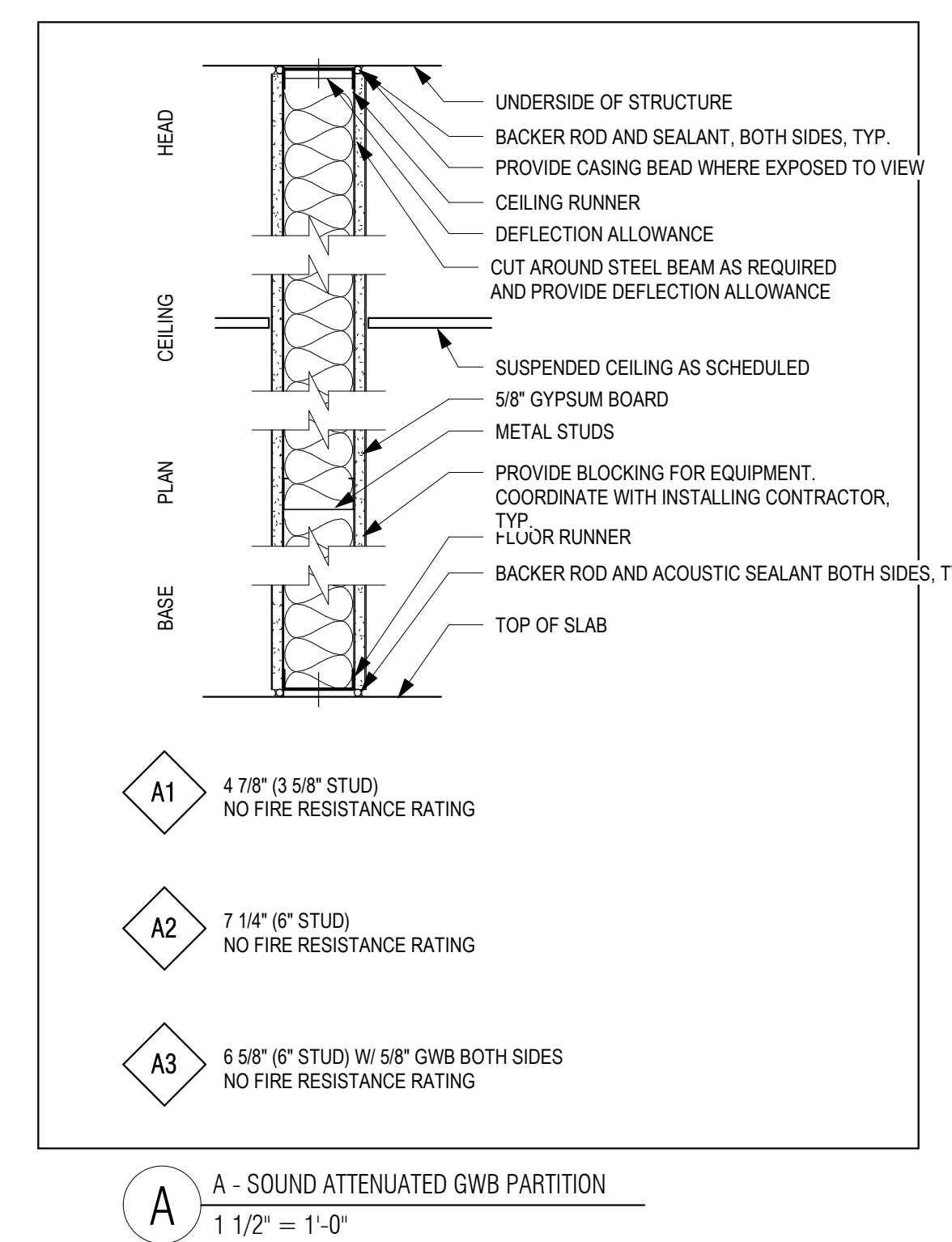
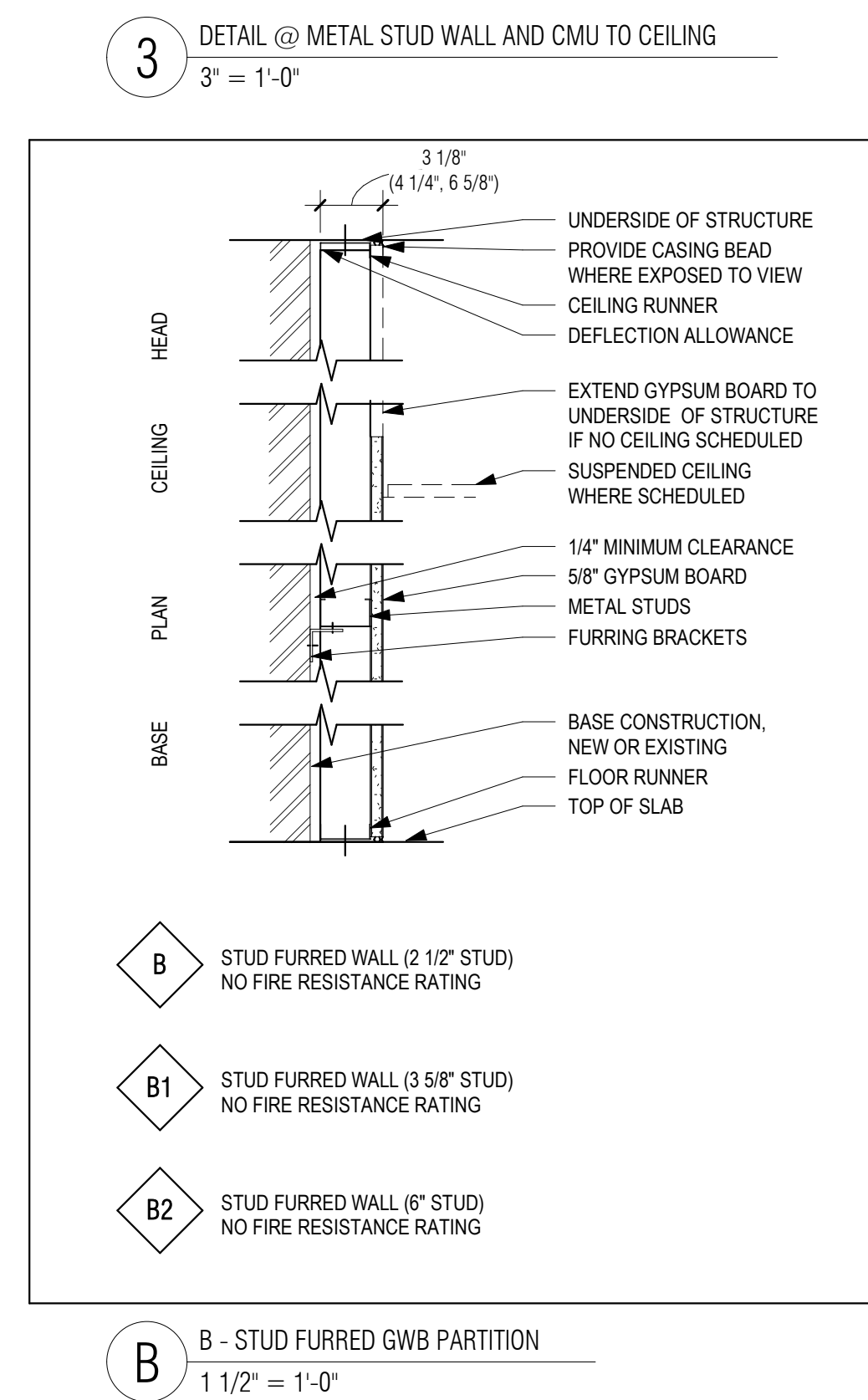
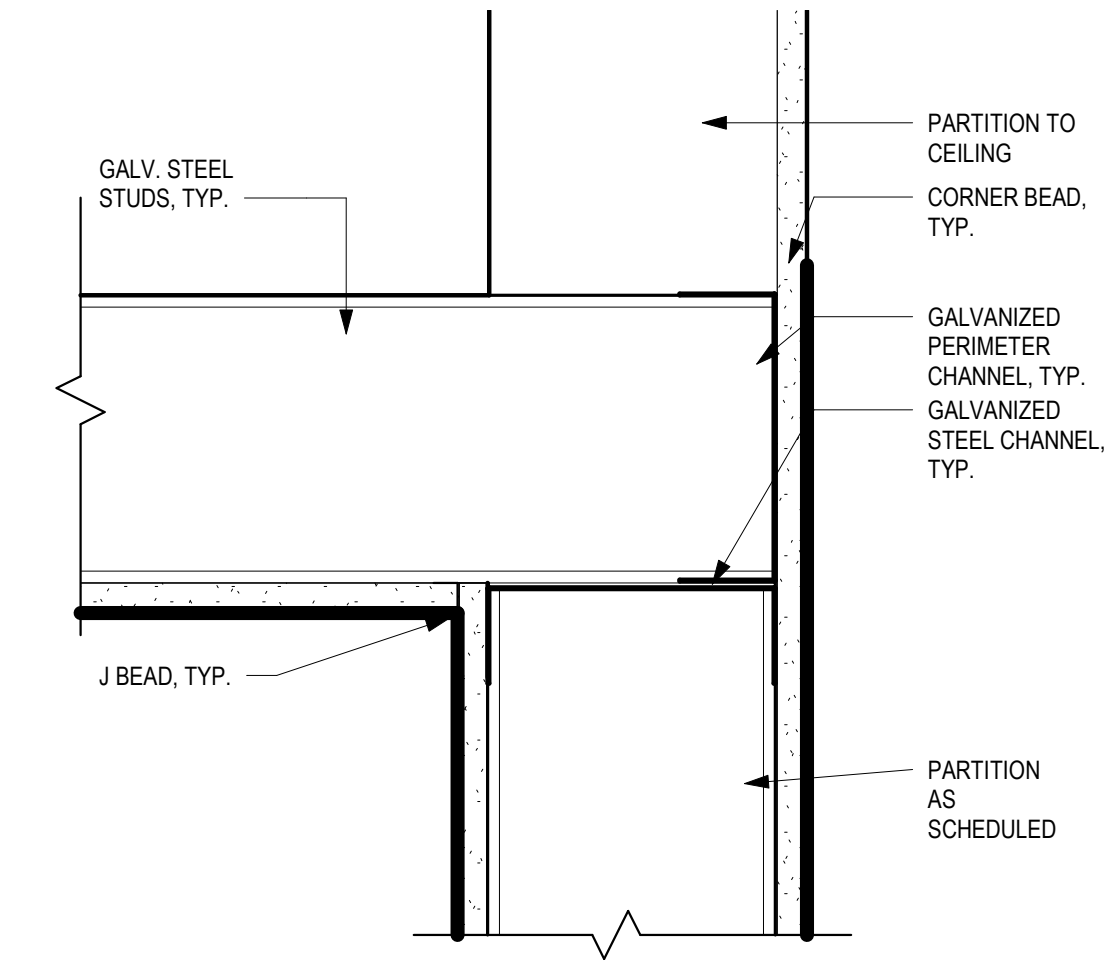
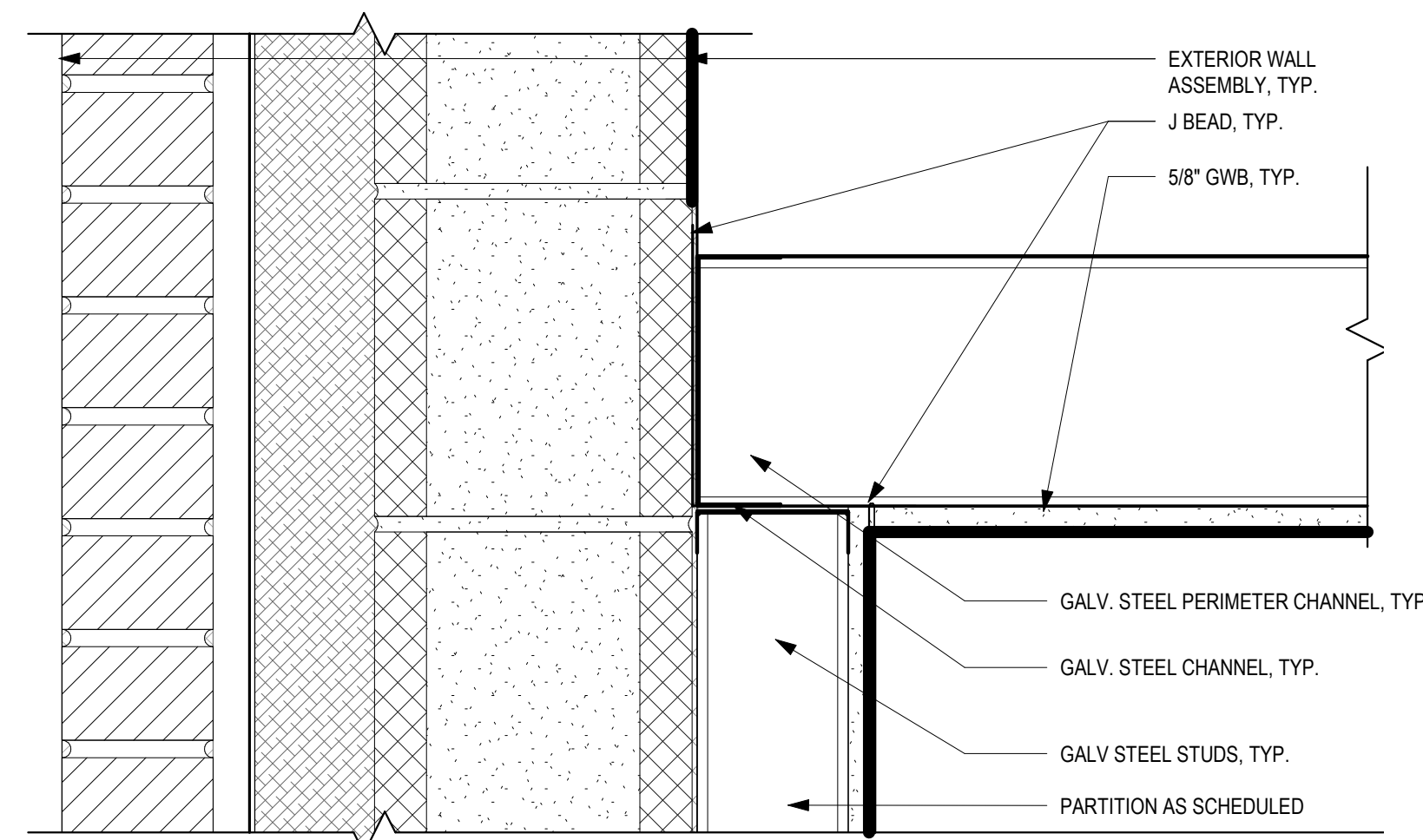
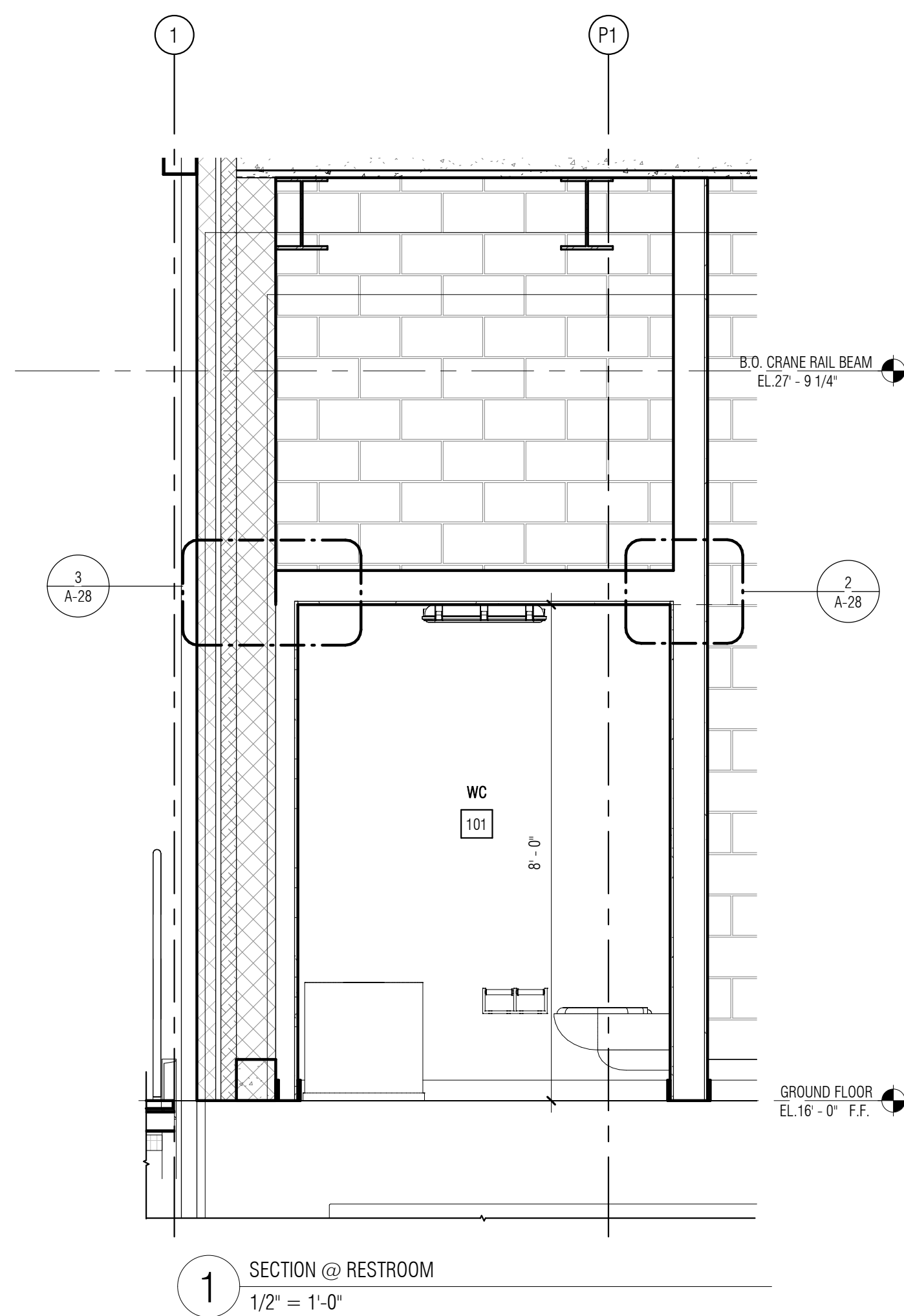
As indicated

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CONTRACT 2

SHEET NO.

A-28



GENERAL STRUCTURAL NOTES:

- STRUCTURAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE COMMONWEALTH OF MASSACHUSETTS STATE BUILDING CODE, 9TH EDITION AND ASCE 7-10 AND ASCE 24 FOR FLOOD HAZARD AREAS.
- SPECIFICATIONS ARE PART OF THE CONSTRUCTION DOCUMENTS AND MUST BE USED IN CONJUNCTION WITH THE DRAWINGS.
- VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS. NOTIFY THE ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH ANY PHASE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING DIG SAFE PRIOR TO THE START OF ANY EXCAVATION OR SITE WORK.
- DO NOT SCALE FROM THESE DRAWINGS. REFER TO LABELED DIMENSIONS ONLY.
- DETAILS LABELED "TYPICAL DETAILS" ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY ENGINEER OF CONFLICTS REGARDING APPLICABILITY OF TYPICAL DETAILS.
- COORDINATE THE WORK OF THESE DRAWINGS WITH OTHER TRADES. DIMENSIONS AND QUANTITIES OF RELATED WORK ARE PROVIDED FOR GENERAL GUIDANCE AND SHALL BE CONFIRMED.
- DO NOT LOAD THE SLAB ON GRADE OR SUPPORTED SLAB WITH ERECTION CRANES OR ERECTION EQUIPMENT. THE SLABS HAVE NOT BEEN DESIGNED FOR CRANE LOADS AND WILL REQUIRE AN INCREASE IN THICKNESS AND/OR REINFORCEMENT. CONTRACTOR SHALL OBTAIN ENGINEER'S APPROVAL ON PROPOSED CRANE SUPPORT PLAN FOR SLABS PRIOR TO COMMENCING WORK.
- DO NOT STORE OR STACK CONSTRUCTION MATERIALS ON POURED OR ERECTED FLOORS/ROOFS IN EXCESS OF 80 PERCENT OF LIVE LOAD. GENERAL CONTRACTOR WILL ENSURE THAT ALL SUB-CONTRACTORS ARE INFORMED OF LOADING RESTRICTIONS. AVOID IMPACT WHEN PLACING MATERIALS ON POURED OR ERECTED FLOORS OR ROOFS.
- THE CONTRACTOR SHALL SHORE, BRACE, SHEETPILE, OR OTHERWISE SUPPORT THE STRUCTURE AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY AT ALL TIMES. SHORING DESIGN SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED BY THE CONTRACTOR TO SAFELY SUPPORT ALL DEAD LOADS CARRIED BY THE STRUCTURAL WORK BEING SHORED, AND ANY CONSTRUCTION LIVE LOADS.
- NEW STRUCTURAL SYSTEMS SHALL BE COMPLETELY INSTALLED AND CAPABLE OF SUPPORTING DESIGN LOADS BEFORE SHORES ARE REMOVED. SHORES SHALL BE RELEASED GRADUALLY.
- THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL MEASURES REQUIRED TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, SHORING OF RETAINING WALLS AND OTHER TEMPORARY SUPPORTS AS REQUIRED. COMPLY WITH APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.
- BACKFILLING AND COMPACTING ADJACENT TO THE STRUCTURE WALLS SHALL NOT BE PERMITTED UNTIL ALL THE CONCRETE HAS REACHED THE FULL STRUCTURAL CAPACITY.
- USE OF EXCAVATED MATERIAL SHALL NOT BE PERMITTED FOR USE OF BACKFILLING BETWEEN EXCAVATION SUPPORT AND THE STRUCTURE. BACKFILL SHALL CONSIST OF A CLEAN GRAVEL (SEE SPECIFICATIONS).

DESIGN LOADS:

LIVE LOADS:	
ROOF	20 P.S.F.
SLAB (GROUND LEVEL)	250 P.S.F.
SLAB (MEZZANINE LEVEL)	250 P.S.F.
SNOW LOADS:	
GROUND SNOW LOAD (Pg)	30.0 P.S.F.
FLAT ROOF SNOW LOAD (Pf)	23.1 P.S.F.
WIND LOADS:	
BASIC WIND SPEED	140 MPH
RISK CATEGORY	CATEGORY III
WIND EXPOSURE CATEGORY	CATEGORY III
SEISMIC:	
IMPORTANCE FACTOR (Ie)	1.25 (CATEGORY III)
DESIGN FACTOR Ss	0.182
DESIGN FACTOR S1	0.062
SITE CLASSIFICATION	D
SPECTRAL RESPONSE Sds	0.194
SPECTRAL RESPONSE SD1	0.099
SEISMIC DESIGN CATEGORY	B

FOUNDATIONS:

- ALL FOOTINGS AND BASE SLABS SHALL BEAR ON NATURALLY DEPOSITED SOILS FOR AN ALLOWABLE BEARING PRESSURE OF 4000 PSF IN ACCORDANCE WITH THE GEOTECHNICAL REPORT DATED AUGUST 2017 BY PAUL B. ALDINGER & ASSOCIATES, INC.
- SLABS ON GRADE SHALL BE PLACED ON 12 INCHES OF COMPACTED STRUCTURAL FILL.
- SEE THE SPECIFICATIONS FOR ALL RELATED CONSTRUCTION REQUIREMENTS.
- ALL UNSUITABLE MATERIAL WITHIN FOUNDATIONS AND SLABS SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
- NO RESPONSIBILITY IS ASSUMED BY THE ENGINEER FOR THE VALIDITY OF THE SUBSURFACE CONDITIONS PRESENTED WITHIN THE CONTRACT DOCUMENTS. SUBSURFACE INVESTIGATIONS REFLECT THE CONDITIONS AT THE TIME THEY WERE PERFORMED. SUPPLEMENTAL INVESTIGATIONS SHALL BE PERFORMED BY THE CONTRACTOR AS REQUIRED TO COMPLETE THE WORK.
- FOUNDATIONS MAY BE ALTERED TO SUIT EXISTING CONDITIONS AS DIRECTED BY THE ENGINEER.
- PROVIDE TEMPORARY OR PERMANENT SUPPORTS AS REQUIRED TO PROTECT EXISTING AND NEWLY COMPLETED STRUCTURES AND UTILITIES.
- CARRY OUT CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SUCH THAT FOUNDATION WORK IS DONE IN DRY AND ON UNDISTURBED SUB-GRADE MATERIAL.
- ALL CONCRETE SURFACES SHALL BE FORMED. DO NOT FORM AGAINST EXCAVATIONS WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
- NO FOUNDATION CONCRETE SHALL BE PLACED ON FROZEN SUB-GRADE MATERIAL.
- PLACE BACKFILL BEHIND WALLS ON BOTH SIDES SIMULTANEOUSLY.

CONCRETE:

- CONCRETE WORK SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 350) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301).
- UNLESS NOTED OTHERWISE, CONCRETE SHALL BE AS FOLLOWS:

		MAX. WATER CEMENT RATIO
ROOF SLAB & COLUMNS:	5000 P.S.I. (NORMAL WEIGHT)	0.40
HOUSEKEEPING:	5000 P.S.I. (NORMAL WEIGHT)	0.40
SLAB-ON-GRADE:	4000 P.S.I. (NORMAL WEIGHT)	0.45
SUPPORT WALLS & GRATING SUPPORT COLUMNS:	4000 P.S.I. (NORMAL WEIGHT)	0.45
- CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR ENTRAINED.
- PROVIDE VAPOR BARRIER UNDER INTERIOR SLABS CAST ON GRADE.
- CONSTRUCTION JOINTS SHOWN ON THE DRAWINGS ARE MANDATORY.
- SIZE OF CONCRETE PLACEMENTS, UNLESS NOTED OTHERWISE, SHALL CONFORM TO ACI GUIDELINES AND RECOMMENDATIONS.

REINFORCEMENT:

- REINFORCEMENT SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 350), ACI DETAILING MANUAL (SP-66), CRSI MANUAL OF STANDARD PRACTICE (MSP), AND THE STRUCTURAL WELDING CODE-REINFORCING STEEL (AWS D1).
- STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- PROVIDE SUPPLEMENTAL BARS AND ACCESSORIES AS REQUIRED TO HOLD REINFORCEMENT SECURELY IN POSITION.
- MINIMUM CONCRETE PROTECTIVE COVER, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

FOOTINGS & BASE SLAB - BOTTOMS:	3 INCHES
FOOTINGS & BASE SLAB - SIDES AND TOPS:	2 INCHES
WALLS:	2 INCHES
SLABS ON GRADE:	1 INCH TOP/1½" BOTTOM
- ALL CONTINUOUS REINFORCEMENT SHALL BE EXTENDED AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS.
- LAPS SHALL BE CLASS B TENSION LAP SPLICES, UNLESS NOTED OTHERWISE.
- REINFORCEMENT SHALL BE CONTINUOUS THROUGH CONSTRUCTION JOINTS.
- COLUMN DOWELS SHALL BE SET WITH A TEMPLATE AND POSITIONED SO AS TO BE ENCLOSED BY THE COLUMN TIES.
- WELDED WIRE FABRIC SHALL LAP 8" OR 1-1/2 SPACES, WHICHEVER IS LARGER, AND SHALL BE WIRED TOGETHER.

STRUCTURAL STEEL:

- WORK SHALL CONFORM TO SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES, AND THE STRUCTURAL WELDING CODE.
- STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH "DETAILING FOR STEEL CONSTRUCTION" (AISC) AND, WHERE REQUIRED, DESIGNED IN ACCORDANCE WITH THE CITED REFERENCES.
- STRUCTURAL STEEL SHALL BE NEW STEEL CONFORMING TO THE FOLLOWING: UNLESS NOTED OTHERWISE:

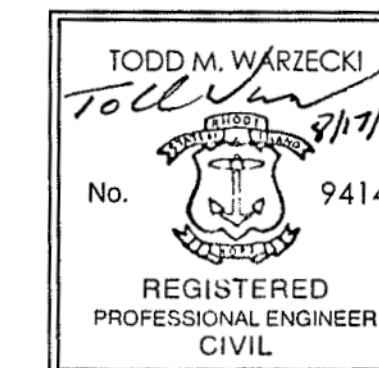
CHANNELS, ANGLES, PLATES:	ASTM A992 GRADE 50 (FY = 50 K.S.I.)
HOLLOW STRUCTURAL SECTIONS:	ASTM A36 (FY = 36 K.S.I.)
ANCHOR BOLTS:	ASTM A500 GRADE B (FY = 40 K.S.I.)
HIGH STRENGTH BOLTS:	ASTM F1554
	ASTM A325
- BOLTED CONNECTIONS SHALL BE MADE WITH A325-N HIGH STRENGTH BOLTS, DIAMETER AS SHOWN IN RESPECTIVE DETAILS.
- WELDED CONNECTIONS SHALL BE MADE BY APPROVED CERTIFIED WELDERS USING FILLER METAL CONFORMING TO E70XX.
- PROVIDE STIFFENERS WHERE SHOWN ON DRAWINGS.
- PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS TO HOLD STRUCTURAL STEEL FRAMING SECURELY IN POSITION. SUCH TEMPORARY BRACING AND SUPPORTS SHALL NOT BE REMOVED UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND CONCRETE FOR FLOOR SLABS HAS ATTAINED 75% OF SPECIFIED CONCRETE STRENGTH.
- FIELD CUTTING OF STRUCTURAL STEEL OR ANY FIELD MODIFICATIONS OF STRUCTURAL STEEL SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL.
- STRUCTURAL STEEL ENCASED IN MASONRY OR CONCRETE SHALL BE COVERED WITH MASTIC.
- STRUCTURAL STEEL MEMBERS AND CONNECTIONS EXPOSED TO THE WEATHER SHALL BE HOT-DIPPED GALVANIZED.

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PROJECT

Main Lift
Pump Station

Taunton, MA

TITLE

STRUCTURAL NOTES
(1 OF 2)

NO.	REVISIONS	DATE
-----	-----------	------

DRAWN BY:	BWN
DESIGNED BY:	TMW
CHECKED BY:	CWJ
ISSUE DATE:	JULY 2020
BETA JOB NO.:	5530

SCALE

NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

S-1

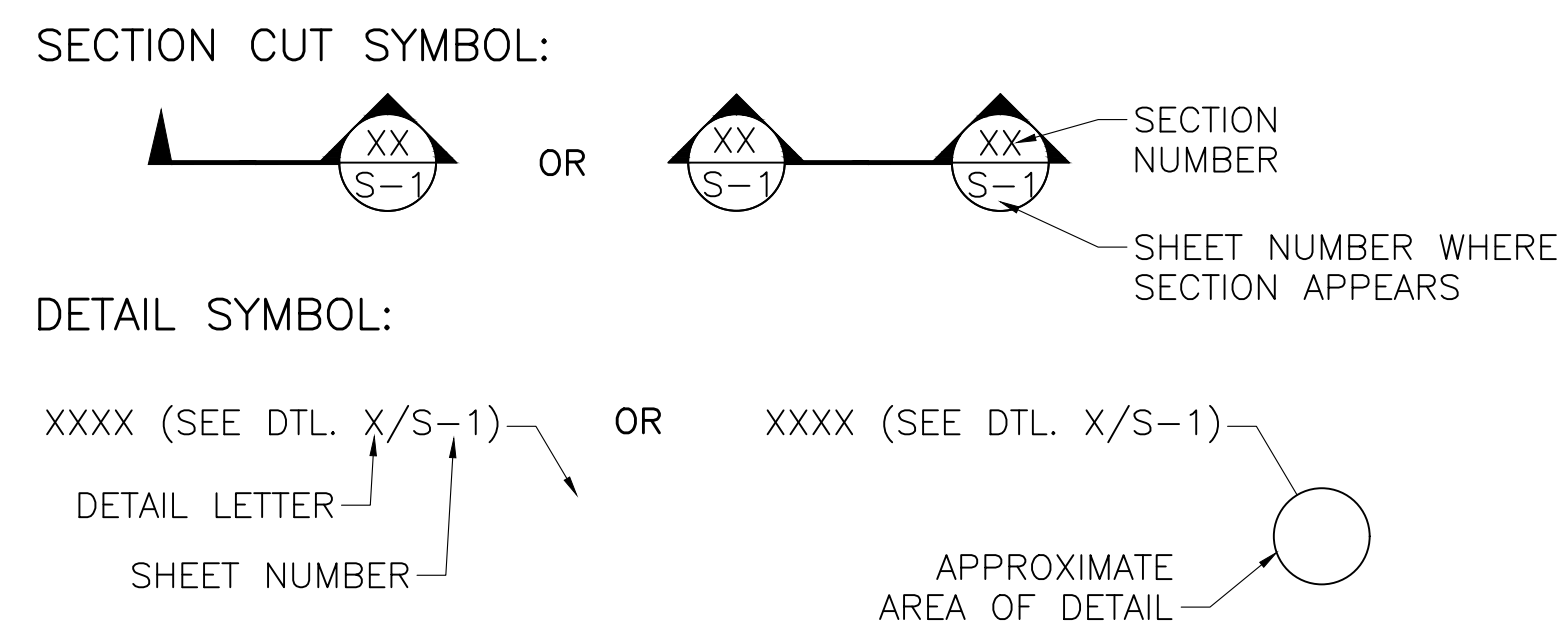
SUBMITTALS, TESTING, AND INSPECTIONS:

- SUBMITTALS AND TESTING SHALL BE AS REQUIRED BY THE MASSACHUSETTS STATE BUILDING CODE AND THESE FOLLOWING REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE FOR AN INDEPENDENT TESTING AGENCY TO PERFORM REQUIRED TESTING.
- THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE TESTING AGENCY AND THE ENGINEERS OF RECORD ACCORDINGLY.
- NOTIFY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO FOUNDATION EXCAVATION.
- NOTIFY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FIRST CONCRETE PLACEMENT.
- SUBMITTALS INCLUDE BUT NOT LIMITED TO:
DEWATERING
BORROW MATERIAL
CONCRETE MIX DESIGN
STEEL REINFORCING ACCESSORIES
STRUCTURAL STEEL/COLD FORMED METAL
CONCRETE MASONRY UNITS
MORTAR AND GROUT
STEEL JOIST & METAL DECKING
- TESTS/INSPECTIONS INCLUDES BUT NOT LIMITED TO:
EARTHWORK
CONCRETE STRENGTH
REINFORCING STEEL INSTALLATION
CONCRETE PLACEMENT AND CURING
STEEL BOLTING
MASONRY MATERIAL INSTALLATION
- THE CONTRACTOR SHALL KEEP COMPLETE AND ORGANIZED RECORDS OF ALL TESTS AND INSPECTIONS AND PROVIDE THEM TO THE ENGINEER SO THAT THE FINAL AFFIDAVIT CAN BE PREPARED. A BINDER SHALL BE MAINTAINED AT THE JOBSITE AT ALL TIMES FOR THE ENGINEER'S INSPECTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN ADVANCE, BEFORE CONCEALING ANY WORK THAT WILL REQUIRE OBSERVATION NEEDED TO PREPARE THE FINAL AFFIDAVIT.

LIST OF ABBREVIATIONS:

ARCH.	- ARCHITECTURAL	(LLH)	- LONG LEG HORIZONTAL
ADD'L	- ADDITIONAL	(LLV)	- LONG LEG VERTICAL
APPROX.	- APPROXIMATE	LOC.'S	- LOCATIONS
BRG.	- BEARING	MAX.	- MAXIMUM
B.O.	- BOTTOM OF	MIN.	- MINIMUM
C-C	- CENTER TO CENTER	MISC.	- MISCELLANEOUS
CL	- CENTERLINE	N.F.	- NEAR FACE
C.I.P.	- CAST IN PLACE	N.S.	- NEAR SIDE
CONC.	- CONCRETE	N.T.S.	- NOT TO SCALE
CONST.	- CONSTRUCTION	NO.	- NUMBER
CONT.	- CONTINUOUS	O.C.	- ON CENTER
C.Y.	- CUBIC YARD	O.D.	- OUTSIDE DIAMETER
d	- DEEP	O.F.	- OUTSIDE FACE
DET.	- DETAIL	PERIM.	- PERIMETER
DTL.	- DETAIL	P	- PLATE
DIA.	- DIAMETER	PVC	- POLYVINYL CHLORIDE
DWG.	- DRAWING	P.S.F.	- POUNDS PER SQUARE FOOT
EA.	- EACH	P.S.I.	- POUNDS PER SQUARE INCH
EL.	- ELEVATION	RAD.	- RADIUS
ELEV.	- ELEVATION	REINF.	- REINFORCING
EMBED.	- EMBEDMENT	REQ'D	- REQUIRED
E.F.	- EACH FACE	SECT.	- SECTION
E.S.	- EACH SIDE	SCH.	- SCHEDULE
E.W.	- EACH WAY	S.F.	- SQUARE FOOT
EXIST.	- EXISTING	SHT.	- SHEET
EXP.	- EXPANSION	SIM.	- SIMILAR
FIN.	- FINISH	SP.	- SPACES
F.O.	- FACE OF	S.S.	- STAINLESS STEEL
FT.	- FEET/FOOT	STD.	- STANDARD
FTG.	- FOOTING	STL.	- STEEL
GA.	- GAUGE	SYM.	- SYMMETRIC
GALV.	- GALVANIZED	t	- THICK
GC	- GENERAL CONTRACTOR	T&B	- TOP AND BOTTOM
h	- HIGH	T.O.	- TOP OF
HORIZ.	- HORIZONTAL	T.O.S.	- TOP OF SLAB
H.A.	- HIGH POINT	T.O.W.	- TOP OF WALL
I.F.	- INSIDE FACE	TYP.	- TYPICAL
IN.	- INCH	U.N.O.	- UNLESS NOTED OTHERWISE
I.D.	- INSIDE DIAMETER	VERT.	- VERTICAL
INFO.	- INFORMATION	W.W.F.	- WELDED WIRE FABRIC
INV.	- INVERT	w	- WIDE
JT.	- JOINT	w/	- WITH
K.S.I.	- KIPS PER SQUARE INCH	Ø	- DIAMETER
LG.	- LONG		

SECTION AND DETAIL DESIGNATIONS:

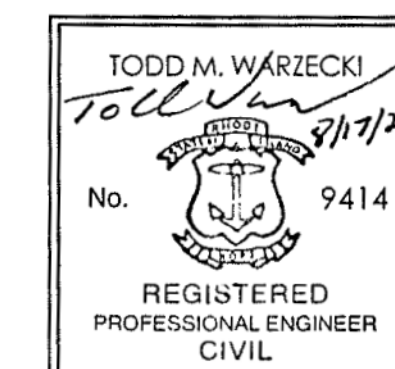


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PROJECT

**Main Lift
Pump Station**

Taunton, MA

TITLE

**STRUCTURAL NOTES
(2 OF 2)**

EXISTING HATCH SCHEDULE:

DOOR NUMBER	DOOR TYPE	LOCATION			DOOR						FRAME			FIRE RATING	HARDWARE	NOTES
		ROOM NAME	INT/EXT	WIDTH	LENGTH	PANEL THICKNESS	TOTAL PANEL COUNT	MAT'L	FINISH	GLAZING TYPE	FRAME TYPE	THRESHOLD TYPE	GASKET			
H-1	HATCH	PUMP CONTROL ROOM	INT	5'-0"	5'-0"	0'-1 1/8"	2	AL-1		N/A	F		YES		HD-8	
H-2	HATCH	PUMP CONTROL ROOM	INT	5'-0"	5'-0"	0'-1 1/8"	2	AL-1		N/A	F		YES		HD-8	
H-3	HATCH	EXTERIOR ENTRY PLATFORM	EXT	4'-0"	4'-0"	0'-1 1/8"	2	AL-1		N/A	F		YES		HD-7	
H-4	HATCH	EXTERIOR ENTRY PLATFORM	EXT	4'-0"	4'-0"	0'-1 1/8"	2	AL-1		N/A	F		YES		HD-7	
H-5	HATCH	EXTERIOR ENTRY PLATFORM	EXT	4'-0"	4'-0"	0'-1 1/8"	2	AL-1		N/A	F		YES		HD-7	
H-6	HATCH	EXTERIOR ENTRY PLATFORM	EXT	3'-6"	3'-6"	0'-1 1/8"	1	AL-1		N/A	F		YES		HD-7	

HD-7 MANUFACTURERS HARDWARE WITH TAMPER PROOF KEY SET FULLY WATERPROOF GASKET SEAL ALL AROUND
 HD-8 MANUFACTURERS HARDWARE

EXISTING CONCRETE PENETRATION SCHEDULE: [REFERENCE CONTRACT DOCUMENTS MAIN LIFT PUMP STATION FOUNDATION FOR INFORMATION NOT SHOWN IN THESE DRAWINGS]

PENETRATION NUMBER	PENETRATION TYPE	PENETRATION LOCATION	CENTERLINE ELEVATION	PIPE DESCRIPTION	PIPE MATERIAL	NOMINAL PIPE SIZE (IN)	PENETRATION SIZE (IN)
P-1	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-2	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-3	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-4	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-5	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-18.63	PUMP SUCTION	DUCTILE IRON	18	N/A
P-6	WALL SLEEVE	INFLUENT CHAMBER	-2.05	INFLUENT SEWER	GALVANIZED STEEL	48	56
P-7	WALL SLEEVE	INFLUENT CHAMBER	-10.28	SIPHON DISCHARGE	GALVANIZED STEEL	24	28
P-8	WALL SLEEVE	INFLUENT CHAMBER	-2.00	SIPHON DISCHARGE	GALVANIZED STEEL	24	28
P-9	FLUSH FLANGE x MJ WALL PIPE	WEST PUMP ROOM WALL	-6.70	PUMP DISCHARGE HEADER	DUCTILE IRON	20	N/A
P-10	FLUSH FLANGE x MJ WALL PIPE	WEST MEZZANINE WALL	0.19	PUMP DISCHARGE HEADER	DUCTILE IRON	20	N/A
P-11	FLUSH FLANGE x FLUSH FLANGE WALL PIPE	PUMP ROOM SEPARATING WALL	-7.65	FORCE MAIN DRAIN	DUCTILE IRON	8	12
P-12	WALL SLEEVE	MEZZANINE SEPARATING WALL	11.50	SUMP PUMP	GALVANIZED STEEL	1 1/2	3 1/2
P-13	WALL SLEEVE	MEZZANINE SEPARATING WALL	11.50	SUMP PUMP	GALVANIZED STEEL	1 1/2	3 1/2
P-14	WALL SLEEVE	WET WELL-3	-2.00	OVERFLOW PIPE	GALVANIZED STEEL	24	28
P-15	PENETRATION	INFLUENT CHAMBER	12.66	VENTILATION	FORMED CONCRETE	16	N/A

NO. REVISIONS DATE

DRAWN BY: BWN
 DESIGNED BY: TMW
 CHECKED BY: CWJ
 ISSUE DATE: JULY 2020
 BETA JOB NO.: 5530

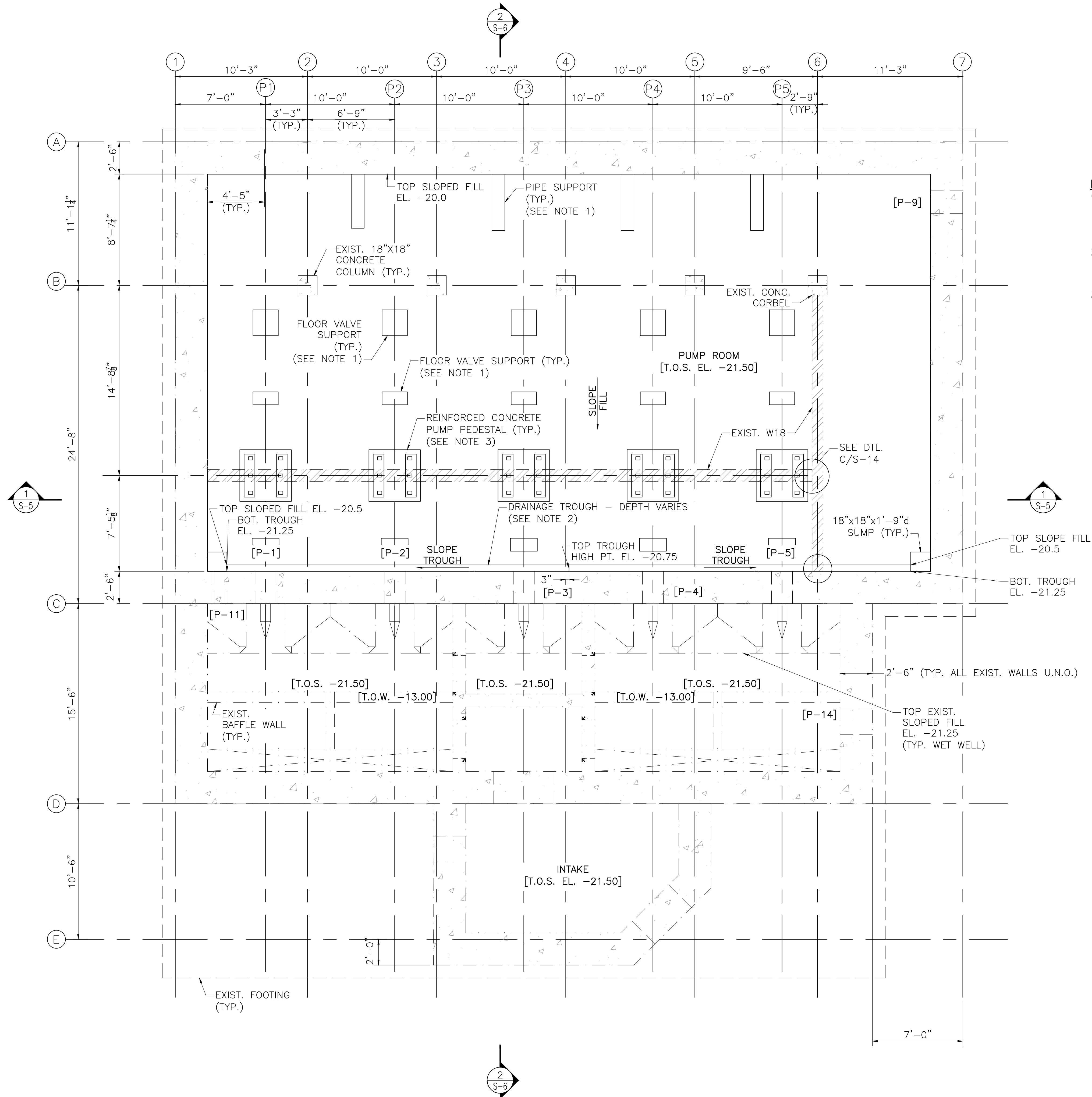
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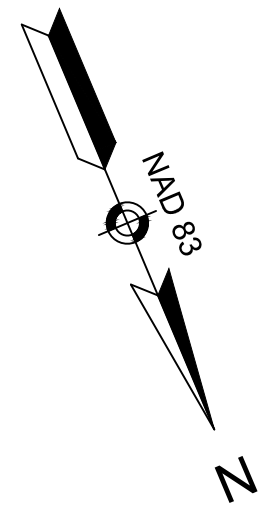
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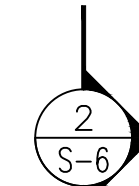
S-2

8/19/2020 3:42 PM J:\TAUNTONMAIN LIFT PUMP STATION\AUTOCAD\DRAWINGFILES\STRUCTURAL\PHASE 3\3-2\N530_SR2A.DWG (BETA STB BW STB)




- NOTES:**
1. PIPE AND FLOOR VALVE SUPPORT LOCATIONS ARE APPROXIMATE. SEE MECHANICAL DRAWINGS FOR PIPE SUPPORT DETAILS AND NOTES.
 2. SEE SHEET A-05 AND S-6 FOR ADDITIONAL SLOPED FILL AND DRAINAGE TROUGH ELEVATIONS.
 3. CONCRETE PUMP PEDESTALS SHOWN ARE FOR CONCEPTUAL PURPOSES. PEDESTAL SIZE, CONFIGURATION, AND ANCHORAGE TO BE SUPPLIED BY PUMP MANUFACTURER.




 [PLAN @ ELEV. -21.50]
PUMP ROOM PLAN
 SCALE: 1/4" = 1'-0"

PREPARED BY



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REGISTERED PROFESSIONAL

SUBCONSULTANT

TODD M. WARZECKI
Tollman 9/1/20
 No. 9414
 REGISTERED
 PROFESSIONAL ENGINEER
 CIVIL

PROJECT

**Main Lift
Pump Station**

Taunton, MA

TITLE

**EXISTING PUMP ROOM
PLAN**

NO.	REVISIONS	DATE

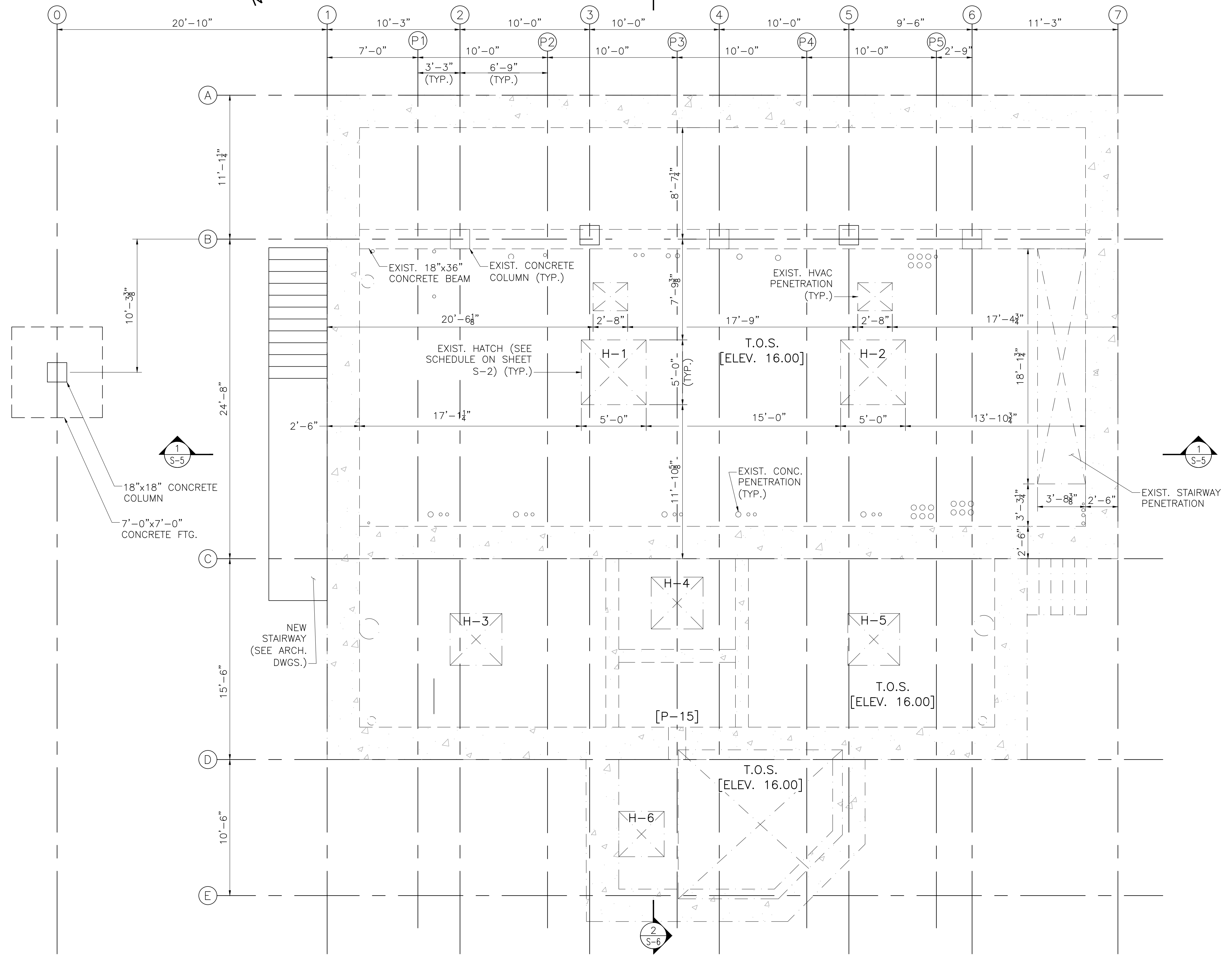
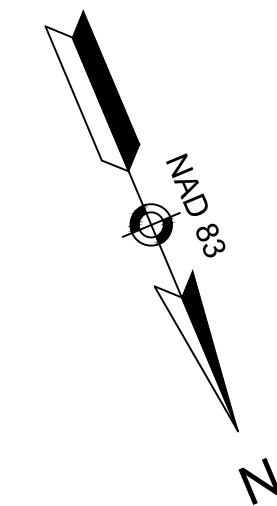
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 ISSUE DATE: JULY 2020
 BETA JOB NO.: 5530

SCALE

AS SHOWN


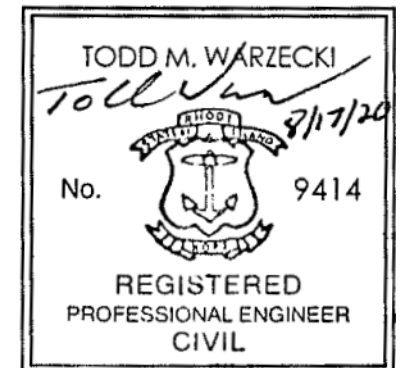
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO. **S-3**

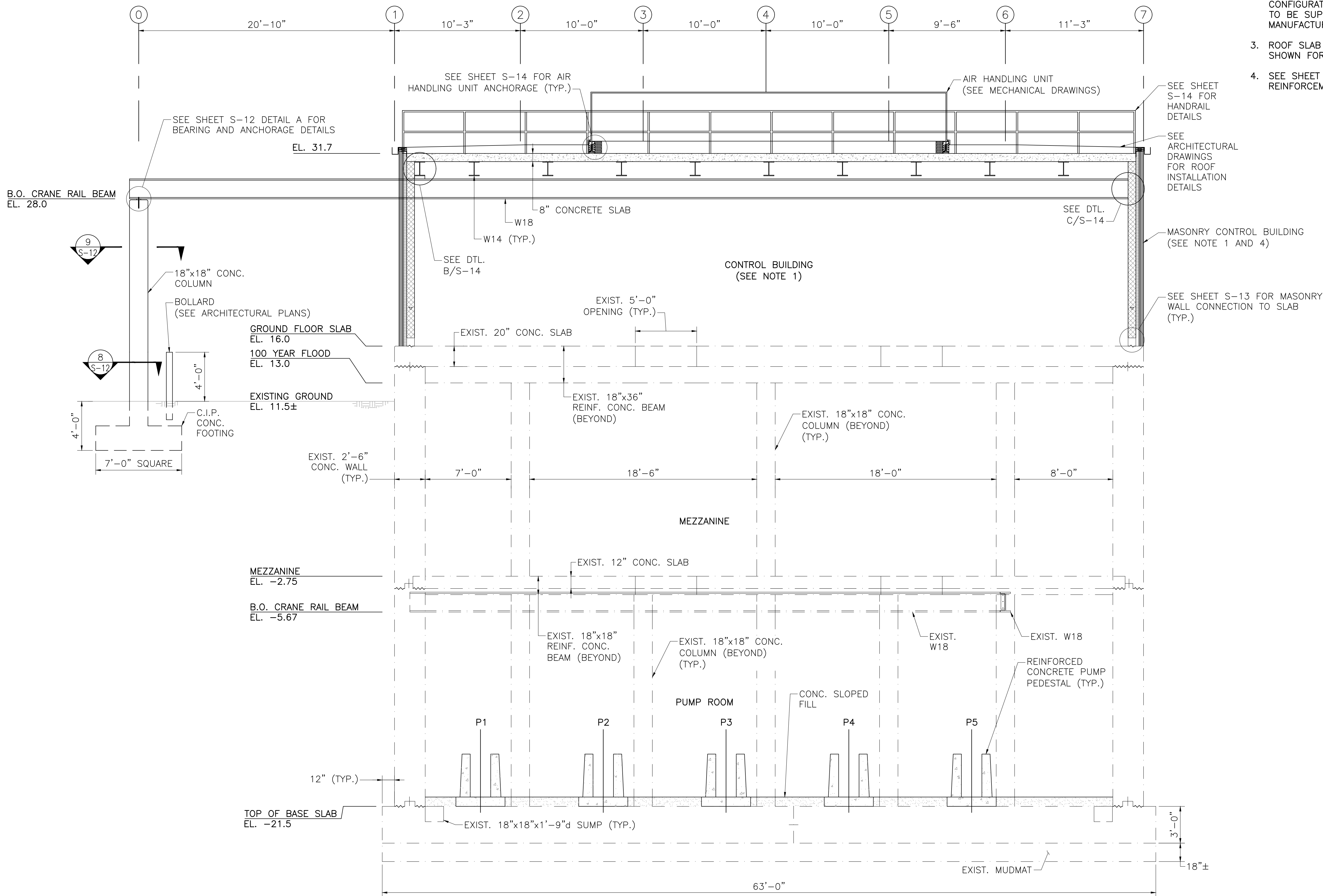


[PLAN @ ELEV. 16.00]
EXISTING GROUND FLOOR PLAN
 SCALE: 1/4" = 1'-0"

8/19/2020 3:43 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWING\FILES\STRUCTURAL\PHASE 3\3-36530_SRF3.DWG (BETA STB BW STB)

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PROJECT		
Main Lift Pump Station		
Taunton, MA		
TITLE		
EXISTING GROUND FLOOR PLAN		
NO.	REVISIONS	DATE
DRAWN BY: BWN		
DESIGNED BY: TMW		
CHECKED BY: CWJ		
ISSUE DATE: JULY 2020		
BETA JOB NO.: 5530		
SCALE		
AS SHOWN		
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION		
SHEET NO.		
S-4		

8/19/2020 3:43 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTO\DRAWINGFILES\STRUCTURAL\PHASE 3\AS-45530_SRA.DWG (BETA STB BW STB)



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

- NOTES:
- 1. SEE CONTROL BUILDING SECTIONS ON SHEET S-10.
 - 2. CONCRETE PUMP PEDESTALS SHOWN ARE FOR CONCEPTUAL PURPOSES. PEDESTAL SIZE, CONFIGURATION, AND ANCHORAGE TO BE SUPPLIED BY PUMP MANUFACTURER.
 - 3. ROOF SLAB REINFORCEMENT NOT SHOWN FOR CLARITY.
 - 4. SEE SHEET S-10 FOR ROOF SLAB REINFORCEMENT.

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TODD M. WARZECKI
No. 9414
REGISTERED PROFESSIONAL ENGINEER CIVIL

PROJECT
Main Lift Pump Station
Taunton, MA

TITLE
BUILDING SECTIONS (1 OF 2)

NO.	REVISIONS	DATE

DRAWN BY: BWN
DESIGNED BY: TMW
CHECKED BY: CWJ
ISSUE DATE: JULY 2020
BETA JOB NO.: 5530

SCALE
AS SHOWN
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO. S-5

8/19/2020 3:44 PM J:\TAUNTONMAIN LIFT PUMP STATION\AUTOCAD\DRAWING\FILES\STRUCTURAL\PHASE 3\3-56530_SRE.DWG (BETA STB BW STB)

NOTES:

1. SEE CONTROL BUILDING SECTIONS ON SHEET S-10.
2. CONCRETE PUMP PEDESTALS SHOWN ARE FOR CONCEPTUAL PURPOSES. PEDESTAL SIZE, CONFIGURATION, AND ANCHORAGE TO BE SUPPLIED BY PUMP MANUFACTURER.
3. ROOF SLAB REINFORCEMENT NOT SHOWN FOR CLARITY.
4. SEE SHEET S-10 FOR ROOF SLAB REINFORCEMENT.
5. PIPE SUPPORT LOCATIONS ARE APPROXIMATE. SEE MECHANICAL DRAWINGS FOR PIPE SUPPORT DETAILS AND NOTES.

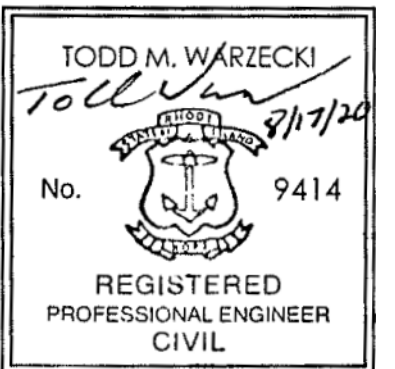
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PROJECT

**Main Lift
Pump Station**

Taunton, MA

TITLE

**BUILDING SECTION
(2 OF 2)**

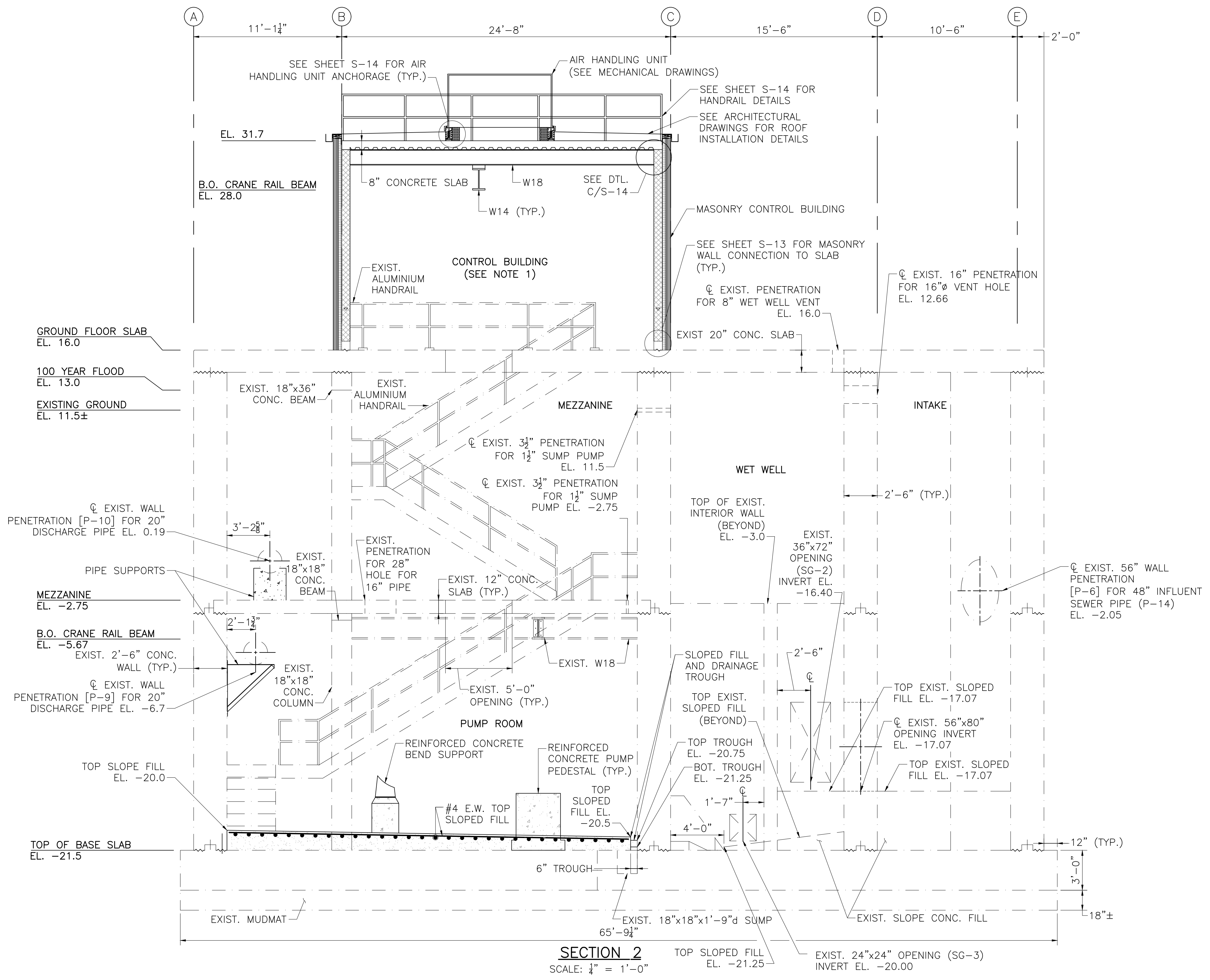
NO.	REVISIONS	DATE

DRAWN BY:	BWN
DESIGNED BY:	TMW
CHECKED BY:	CWJ
ISSUE DATE:	JULY 2020
BETA JOB NO.:	5530

SCALE
AS SHOWN

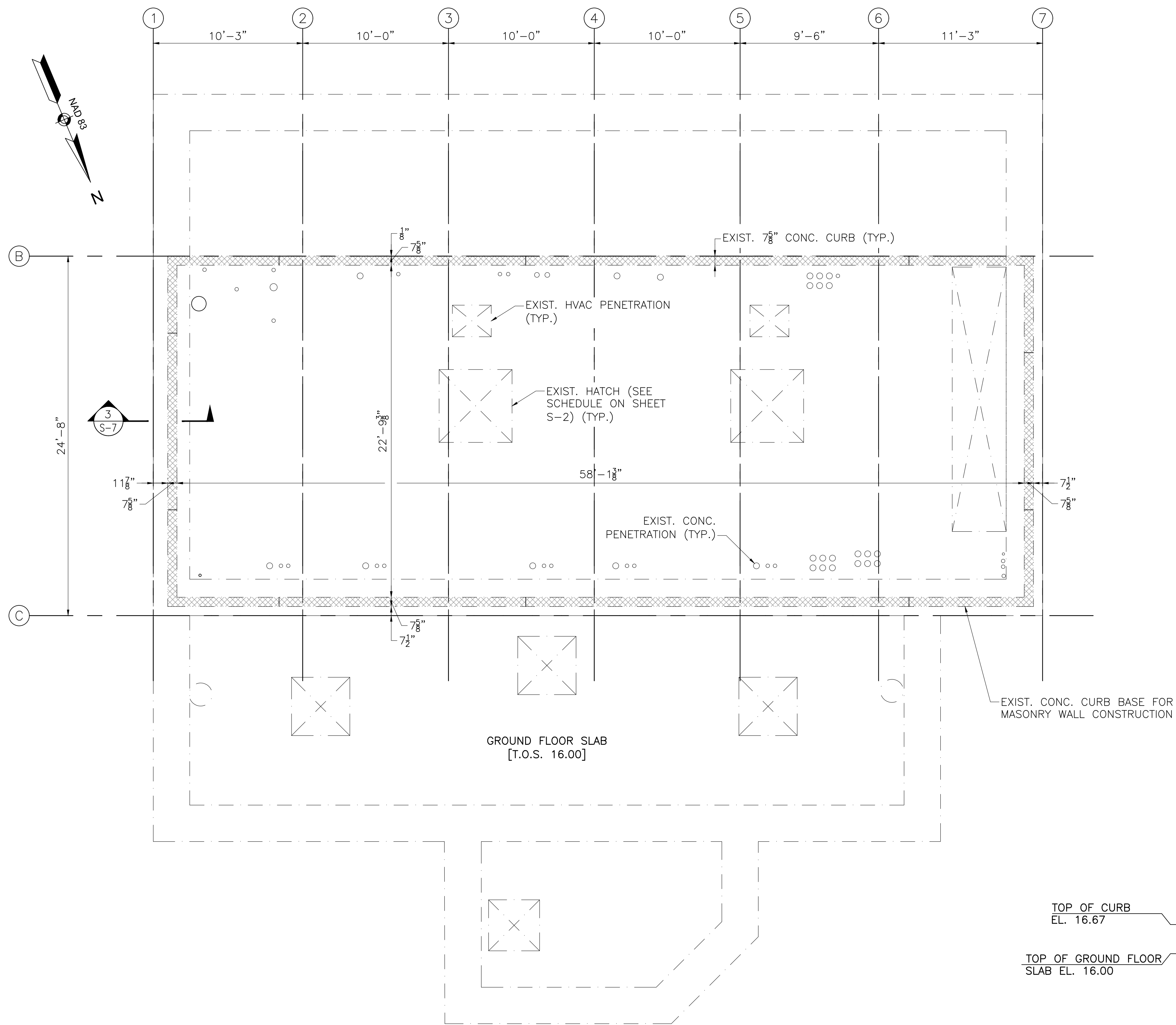
UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO. S-6

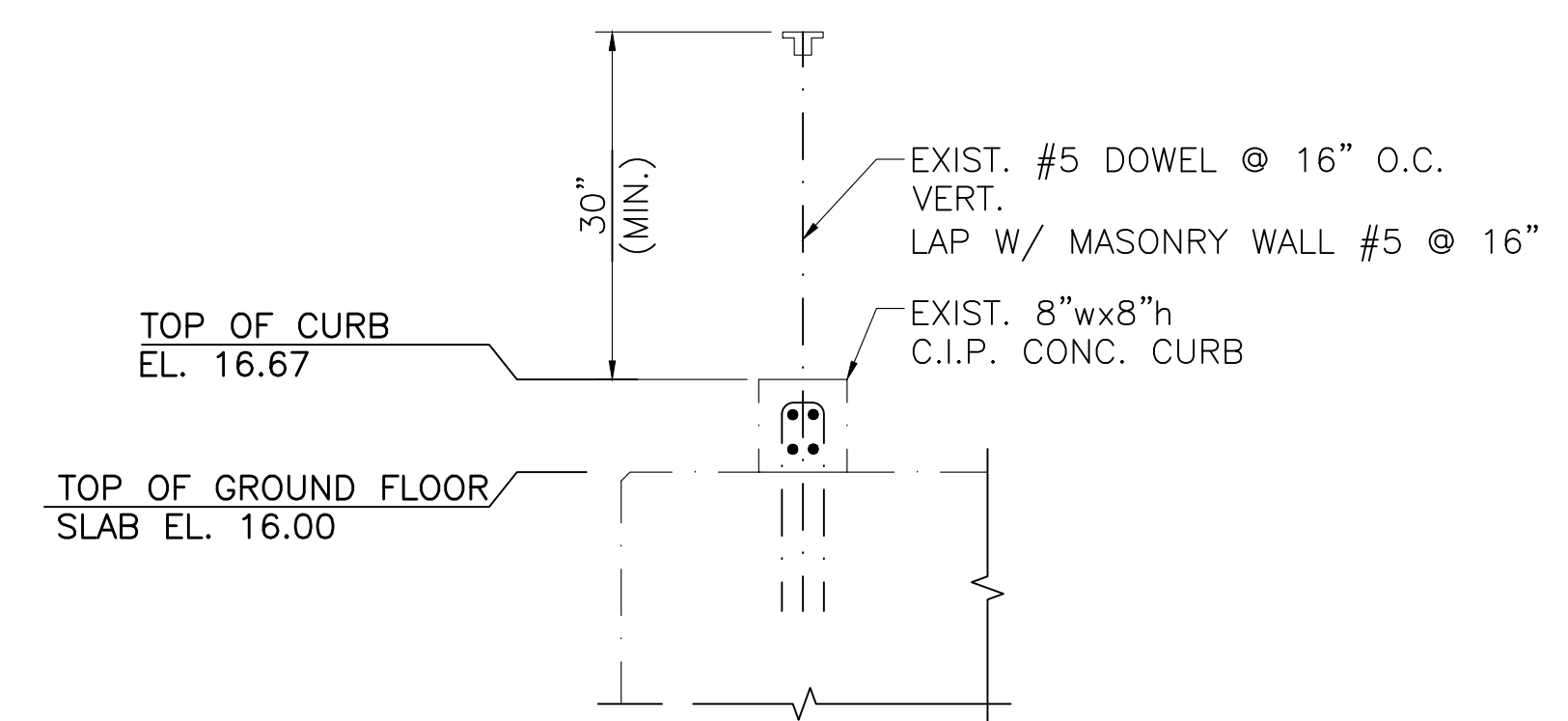


SECTION 2
SCALE: 1/4" = 1'-0"

8/19/2020 3:46 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWING\FILES\STRUCTURAL\PHASE 3\S-6\5530_SRE.DWG (BETA STB BW STB)



MASONRY WALL CONNECTION PLAN
SCALE: $\frac{1}{4}" = 1'-0"$



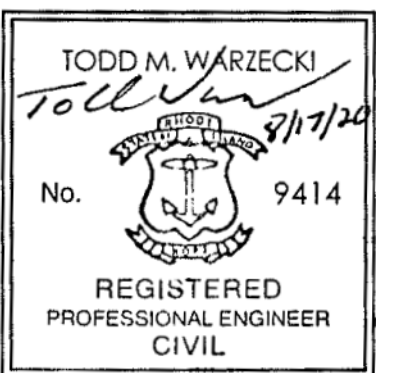
SECTION 3
SCALE: $\frac{3}{4}" = 1'-0"$

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**Main Lift
Pump Station**

Taunton, MA

TITLE

**CONTROL BUILDING
EXISTING BASE PLAN**

NO.	REVISIONS	DATE

DRAWN BY: BWN
 DESIGNED BY: TMW
 CHECKED BY: CWJ
 ISSUE DATE: JULY 2020
 BETA JOB NO.: 5530

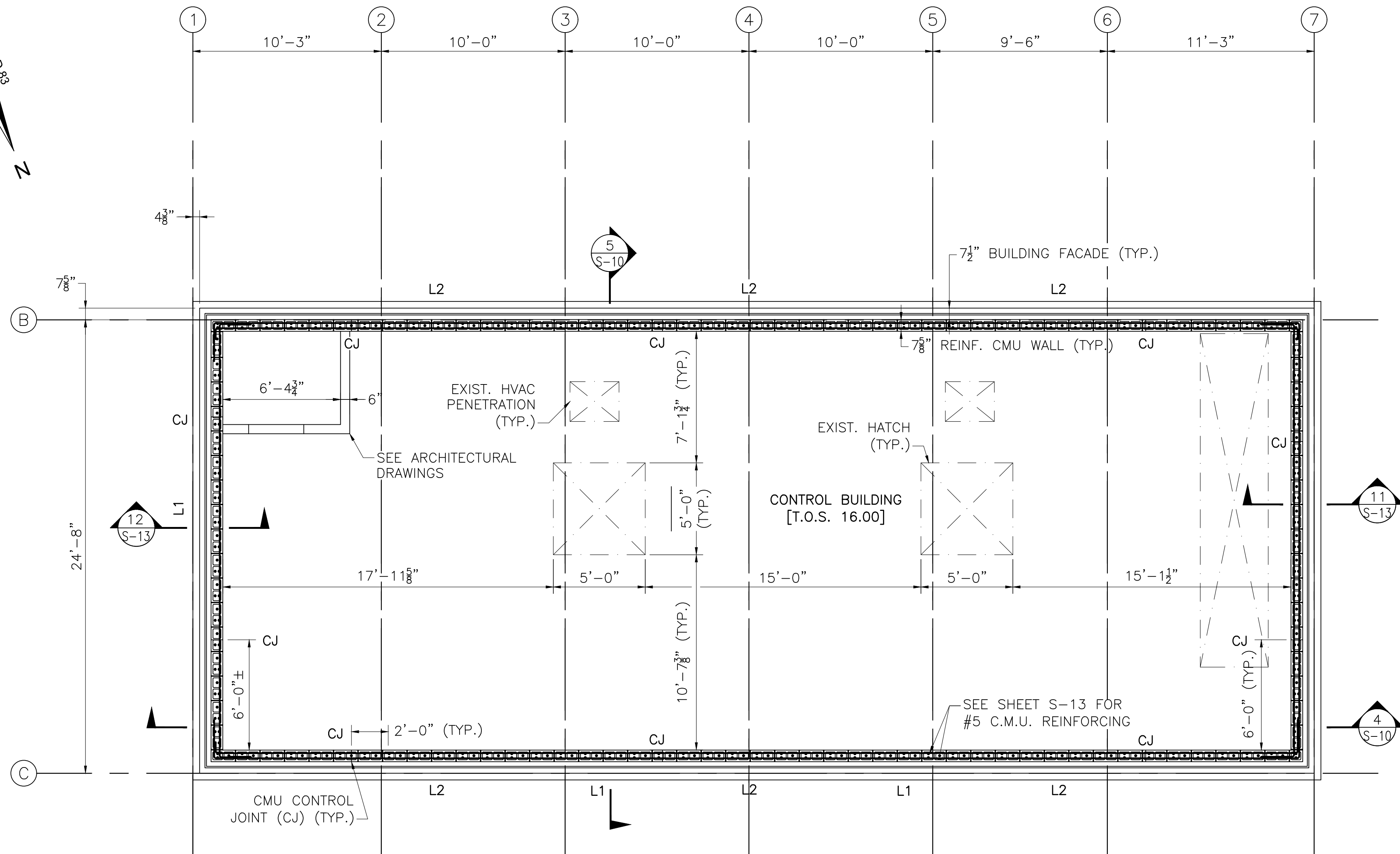
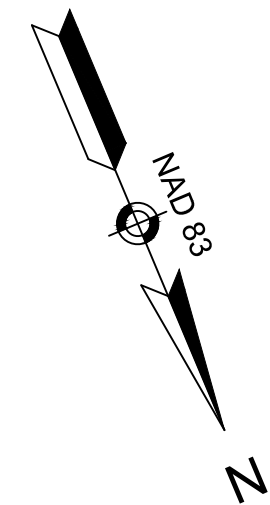
SCALE

AS SHOWN

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SHEET NO. **S-7**

8/19/2020 3:46 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWING\FILES\STRUCTURAL\PHASE 3\S-7\5530_SRT.DWG (BETA STB B/W STB)



[PLAN @ ELEV. 16.00]
CONTROL BUILDING PLAN
 SCALE: 1/4" = 1'-0"

NOTES:

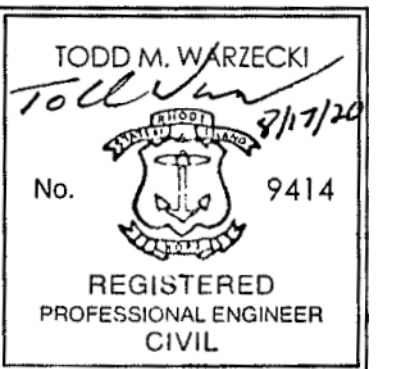
1. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF DOOR OPENINGS AND WINDOWS.
2. LOCATION OF CMU CONTROL JOINTS SHOWN IS RECOMMENDED. CONTROL JOINTS SHALL BE IN ACCORDANCE WITH NCMA TEK 10-2C - CONTROL JOINTS FOR CONCRETE MASONRY WALLS.
3. CMU CONTROL JOINTS SHALL BE COORDINATED WITH MASON AND BRICK CONTROL JOINTS. ADEQUATE SPACING SHALL BE PROVIDED BETWEEN CMU AND BRICK CONTROL JOINTS.
4. CMU CONTROL JOINTS SHALL HAVE A MAXIMUM SPACING OF 25'-0".

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SUBCONSULTANT



PROJECT

**Main Lift
 Pump Station**

Taunton, MA

TITLE

**CONTROL BUILDING
 PLAN**

NO.	REVISIONS	DATE

DRAWN BY:	BWN
DESIGNED BY:	TMW
CHECKED BY:	CWJ
ISSUE DATE:	JULY 2020
BETA JOB NO.:	5530

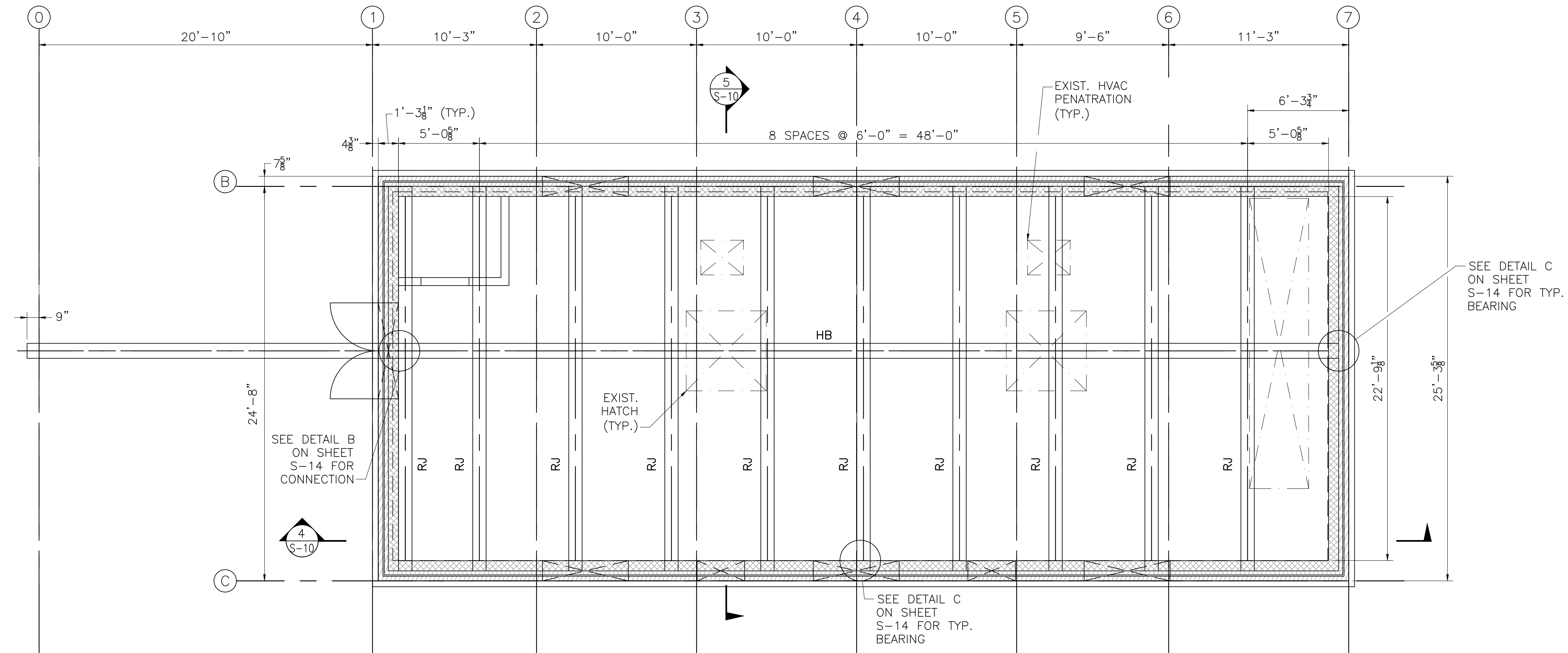
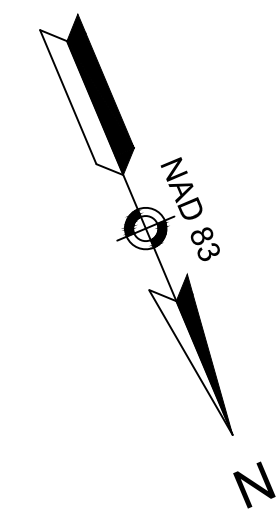
SCALE

AS SHOWN

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SHEET NO.

S-8



- FRAMING PLAN NOTES:**
- RJ = W14x61 (ROOF JOIST)
HB = W18x143 (HOIST BEAM)
 - HOLES SMALLER THAN 12" ARE NOT SHOWN FOR CLARITY. COORDINATE WITH EQUIPMENT MANUFACTURERS AND OTHER DISCIPLINES FOR LOCATIONS.

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**Main Lift
Pump Station**

Taunton, MA

TITLE

**CONTROL BUILDING
ROOF FRAMING PLAN**

NO.	REVISIONS	DATE

DRAWN BY: BWN
DESIGNED BY: TMW
CHECKED BY: CWJ
ISSUE DATE: JULY 2020
BETA JOB NO.: 5530

SCALE

AS SHOWN

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

S-9

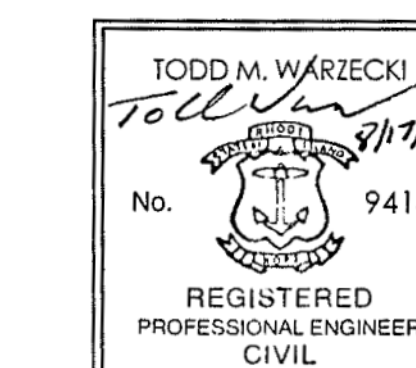
CONTROL ROOM ROOF FRAMING PLAN
SCALE: $\frac{1}{4}" = 1'-0"$

PREPARED BY



REGISTERED PROFESSIONAL

SUBCONSULTANT



PROJECT

Main Lift
Pump Station

Taunton, MA

TITLE

CONTROL BUILDING
SECTIONS

NO. REVISIONS DATE

DRAWN BY: BWN

DESIGNED BY: TMW

CHECKED BY: CWJ

ISSUE DATE: JULY 2020

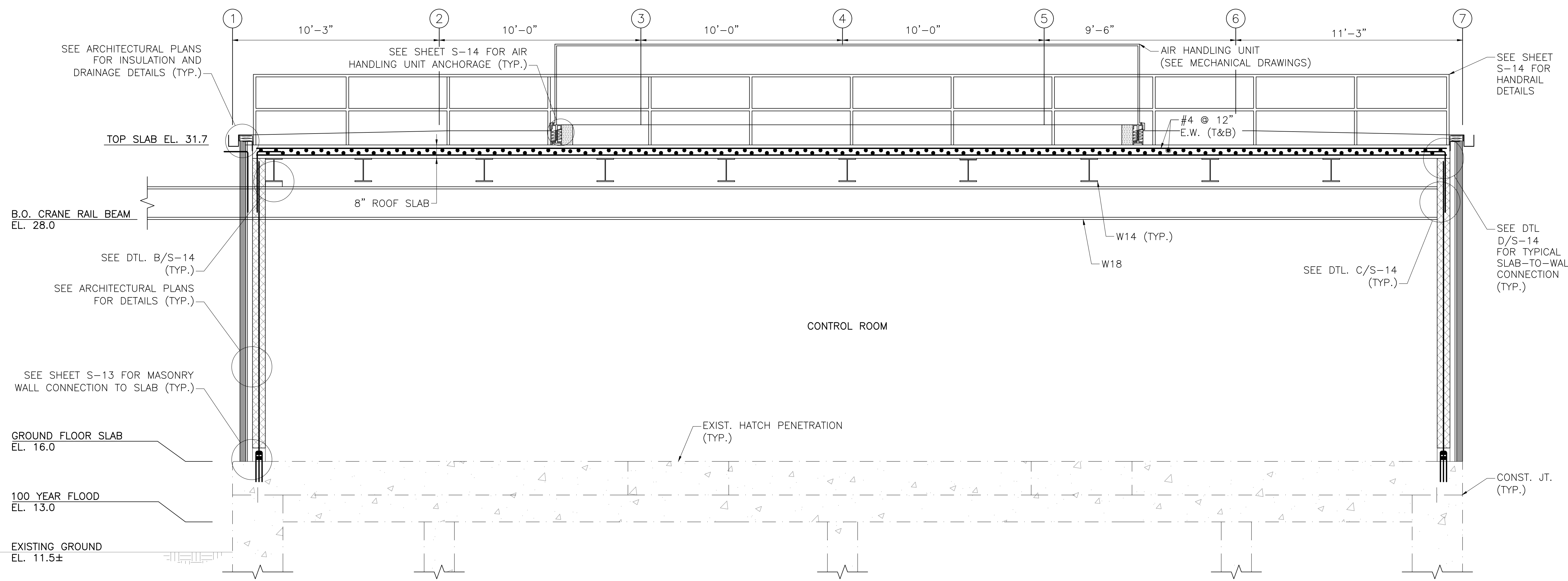
BETA JOB NO.: 5530

SCALE

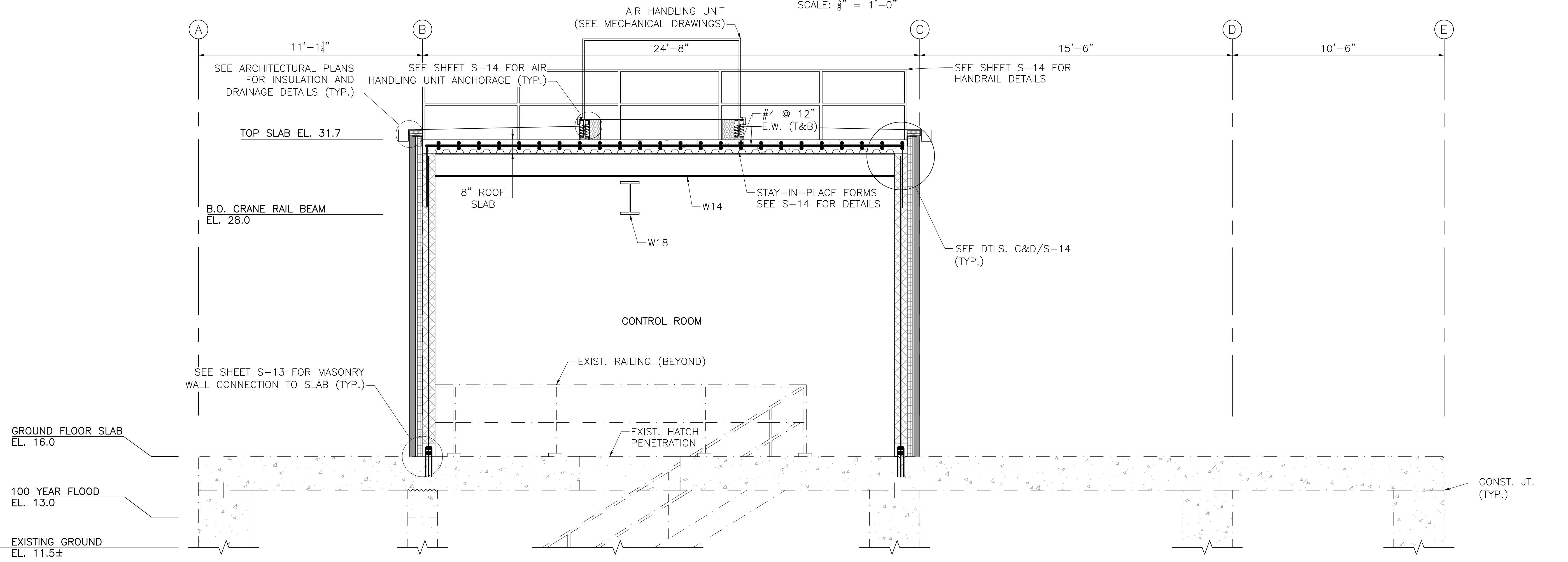
AS SHOWN

SHEET NO.

S-10



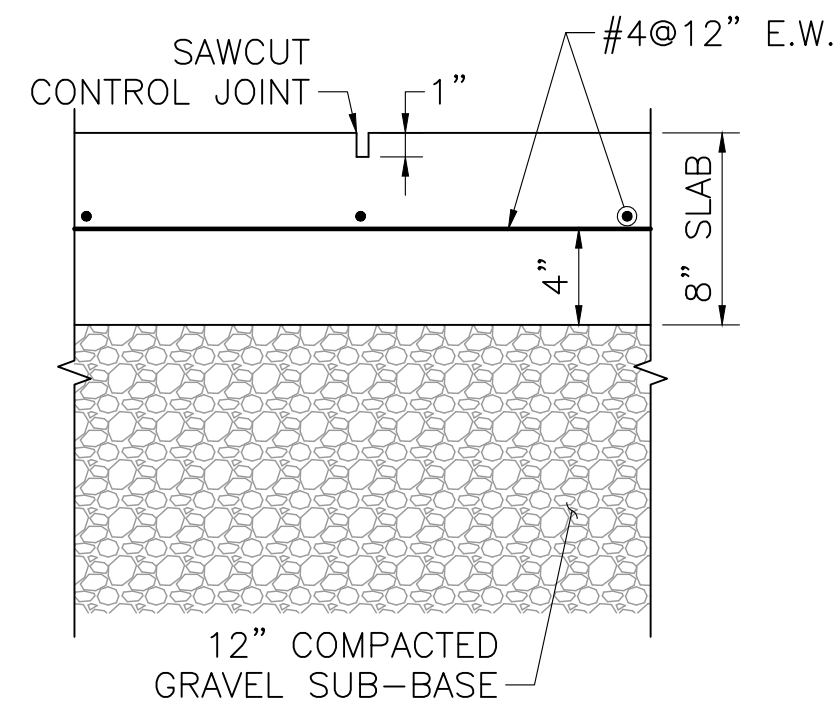
SECTION 4
SCALE: 3/8" = 1'-0"



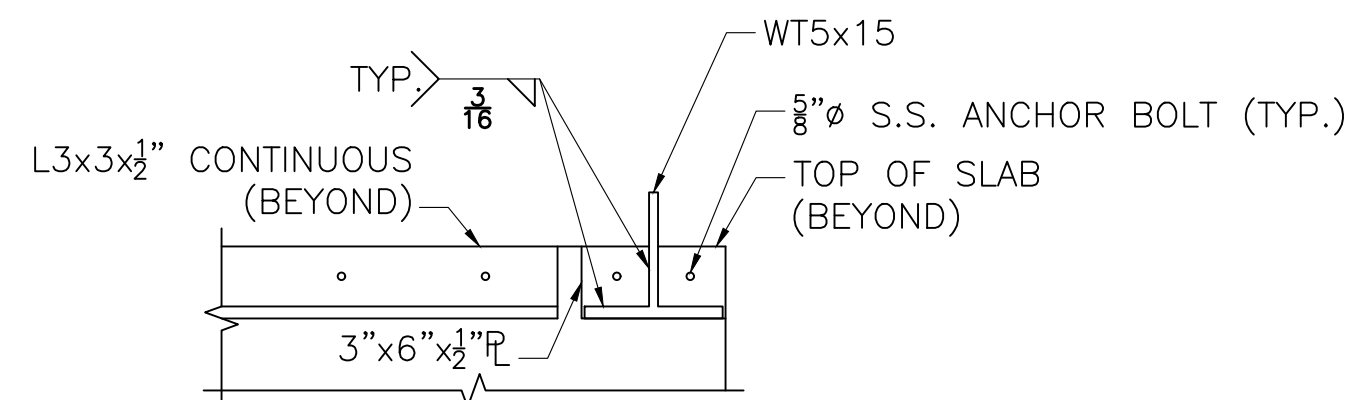
SECTION 5
SCALE: 3/8" = 1'-0"

8/18/2020 3:46 PM J:\TAUNTONMAIN LIFT PUMP STATION\AUTOCAD\DRAWINGFILES\STRUCTURAL\PHASE 3\S-9\5530_SRS.DWG (BETA STB BWS STB)

8/19/2020 3:47 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWING\FILES\STRUCTURAL\PHASE 3\3-106530_SR10.DWG (BETA STB BW STB)

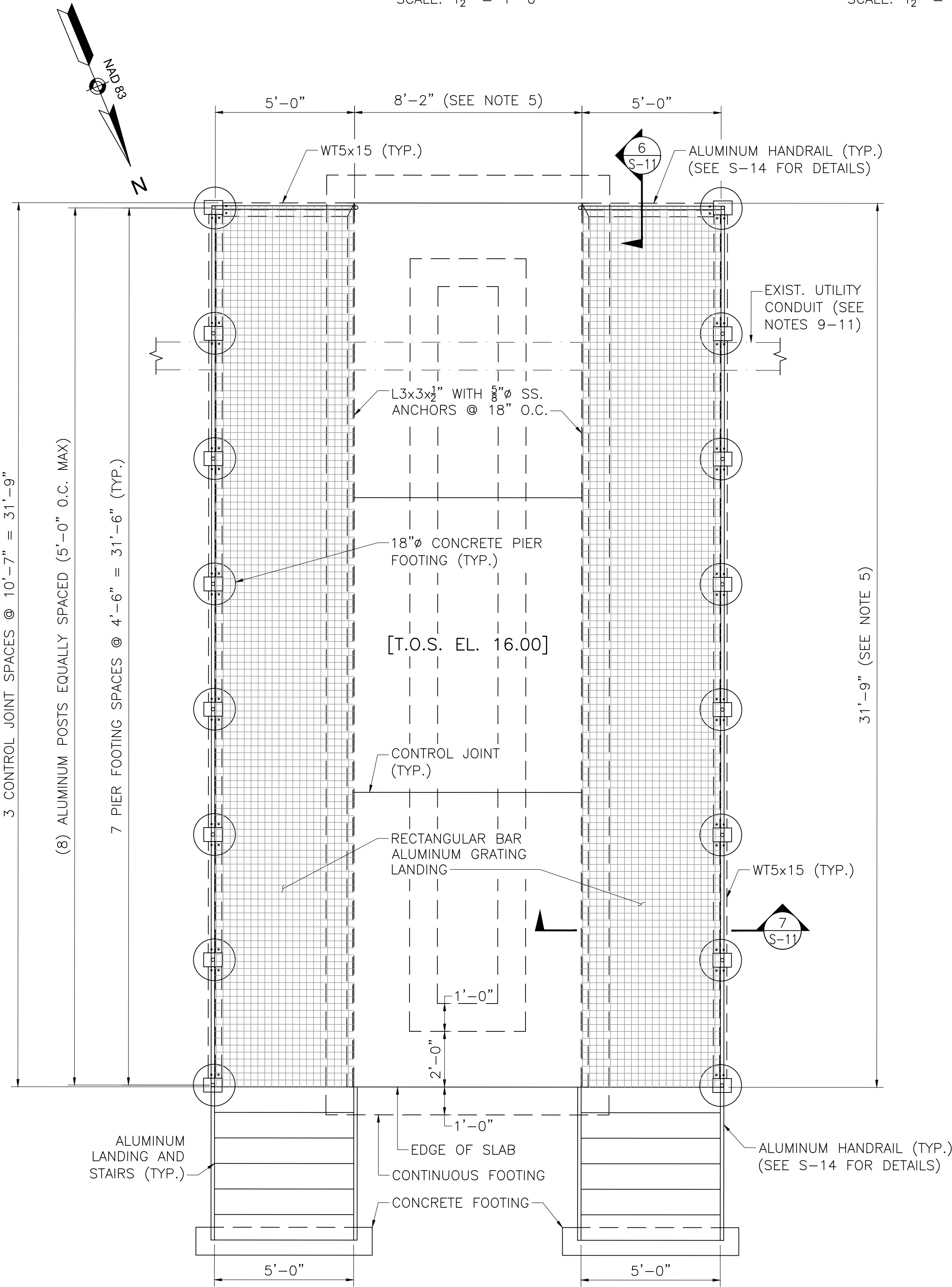


CONTROL JOINT
SCALE: 1/2" = 1'-0"

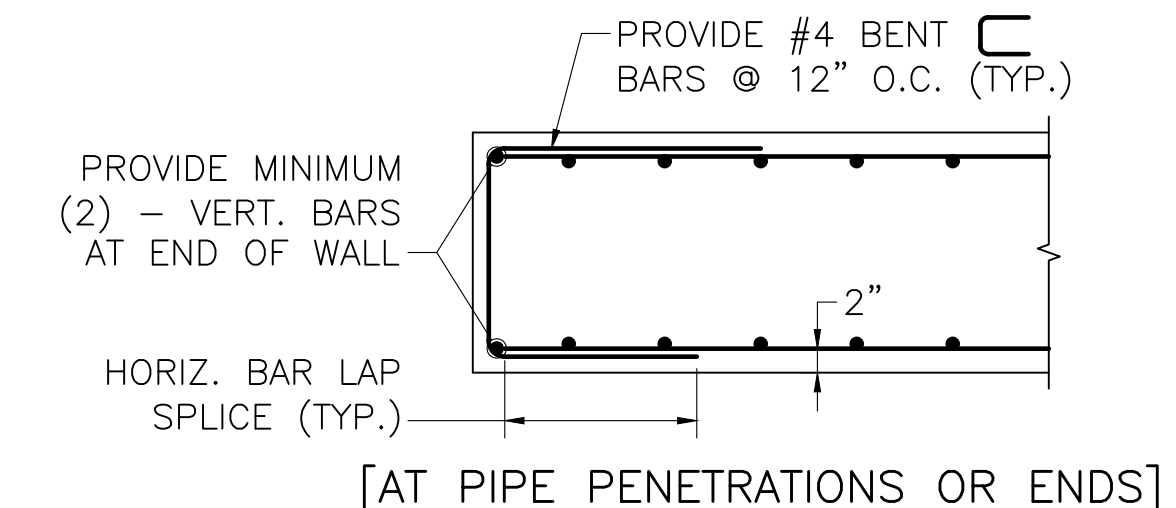
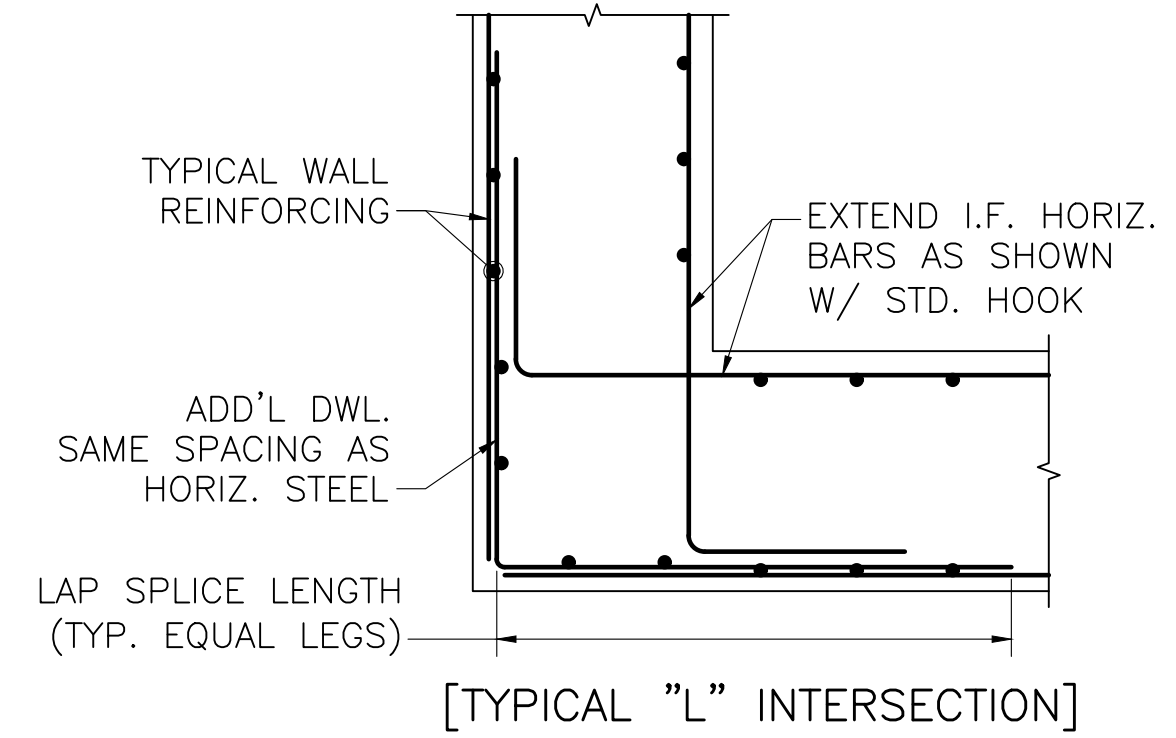


NOTE:
HANDRAIL AND LANDING
NOT SHOWN FOR CLARITY

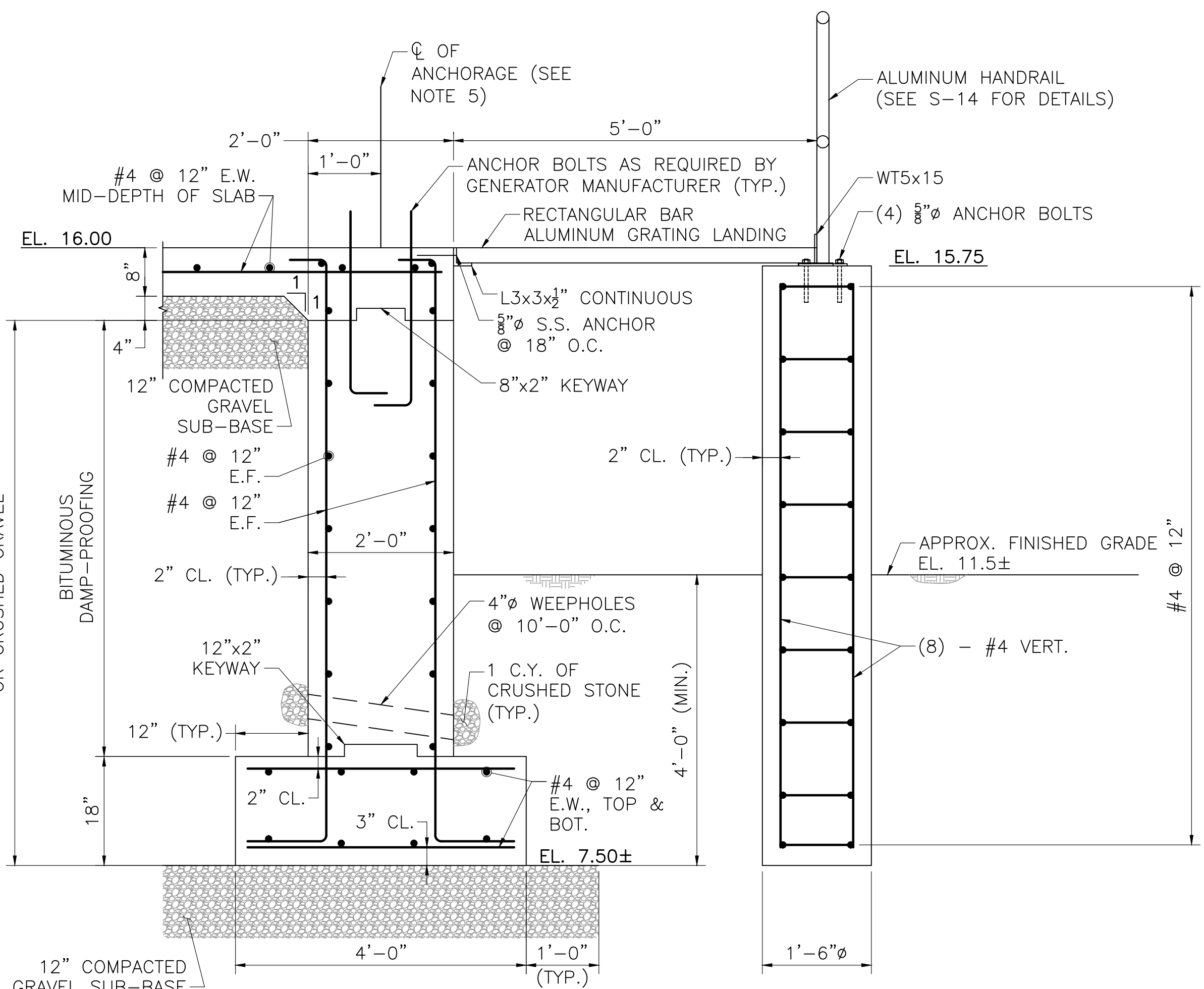
SECTION 6
SCALE: 1/2" = 1'-0"



GENERATOR PAD PLAN
SCALE: 3/8" = 1'-0"



TYPICAL REINFORCING DETAILS
SCALE: 1/2" = 1'-0"



SECTION 7
SCALE: 3/4" = 1'-0"

NOTES:

1. ALL CONCRETE SHALL BE $f'_c = 4000$ P.S.I.
2. ALL STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
3. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED WITH A HEAVY BITUMINOUS TROWELING MASTIC.
4. CONTROL JOINTS SHALL BE SAWCUT AFTER PLACEMENT OF THE CONCRETE SLAB.
5. COORDINATE FINAL GENERATOR PAD DIMENSIONS WITH MANUFACTURER. ANCHOR BOLTS FOR THE GENERATOR SHALL BE AS REQUIRED BY THE MANUFACTURER AND SET PRIOR TO CONCRETE PLACEMENT.
6. ALL TOPSOIL, SUBSOIL, NON-ENGINEERED FILL AND ANY OTHER DELETERIOUS SOIL SHOULD BE REMOVED FROM THE BUILDING FOOTPRINT. STRUCTURAL FILL AND/OR CRUSHED GRAVEL SHOULD BE PLACED AND COMPACTED IN LIFTS TO THE ELEVATION OF BOTTOM OF FOUNDATION AND SLAB.
7. ALUMINUM PLATES AND STRUCTURAL SHAPES SHALL CONFORM TO THE REQUIREMENTS OF 6063 T6.
8. ALL BOLTS AND NUTS SHALL BE STAINLESS STEEL CONFORMING TO 2024 T4.
9. SIZE, LOCATION, AND DEPTH OF EXISTING ELECTRIC UTILITY CONDUIT IS UNKNOWN. BLOCK OUT WALLS AS REQUIRED AS TO NOT DISTURB EXISTING CONDUIT.
10. IF BLOCK OUT EXCEEDS 12" USE PENETRATION DETAILS ON S-12.
11. LOCATION OF 18"Ø CONCRETE PIERS MAY BE MOVED TO ACCOMMODATE EXISTING CONDUIT UPON APPROVAL FROM THE ENGINEER.

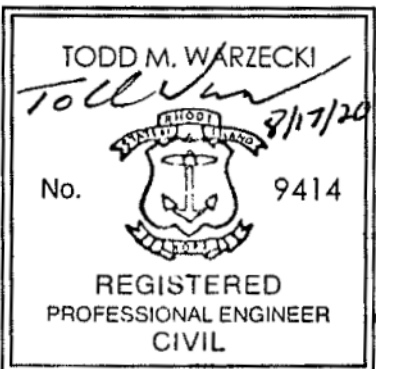
PREPARED BY



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REGISTERED PROFESSIONAL

SUBCONSULTANT



PROJECT

**Main Lift
Pump Station**

Taunton, MA

TITLE

GENERATOR PAD

NO. REVISIONS DATE

DRAWN BY: BWN

DESIGNED BY: TMW

CHECKED BY: CWJ

ISSUE DATE: JULY 2020

BETA JOB NO.: 5530

SCALE

AS SHOWN

SHEET NO.

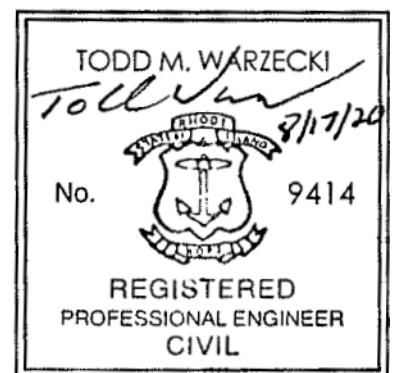
S-11

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PROJECT

Main Lift
Pump Station

Taunton, MA

TITLE

CONCRETE DETAILS

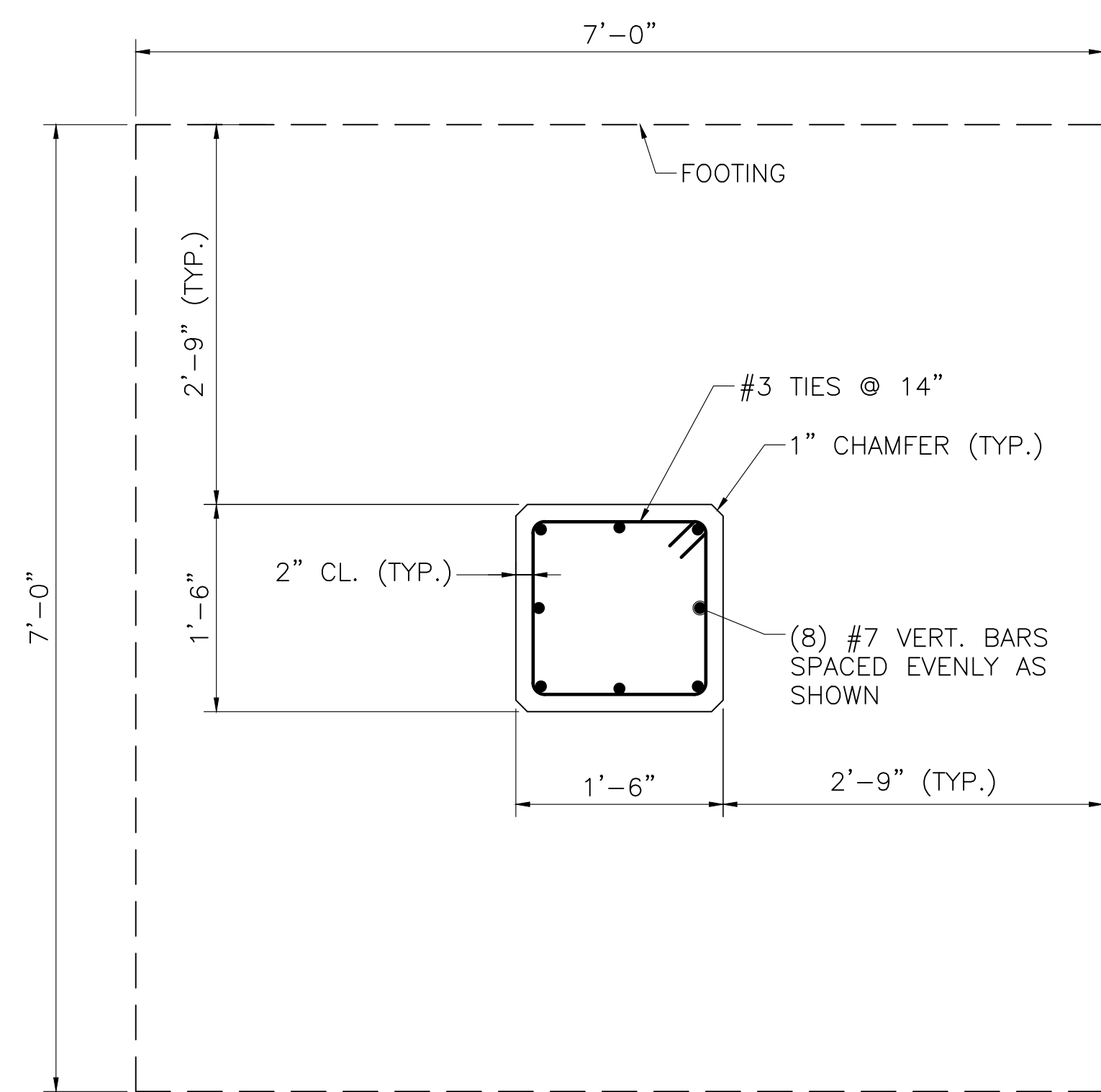
NO. REVISIONS DATE

DRAWN BY: BWN
DESIGNED BY: TMW
CHECKED BY: CWJ
ISSUE DATE: JULY 2020
BETA JOB NO.: 5530

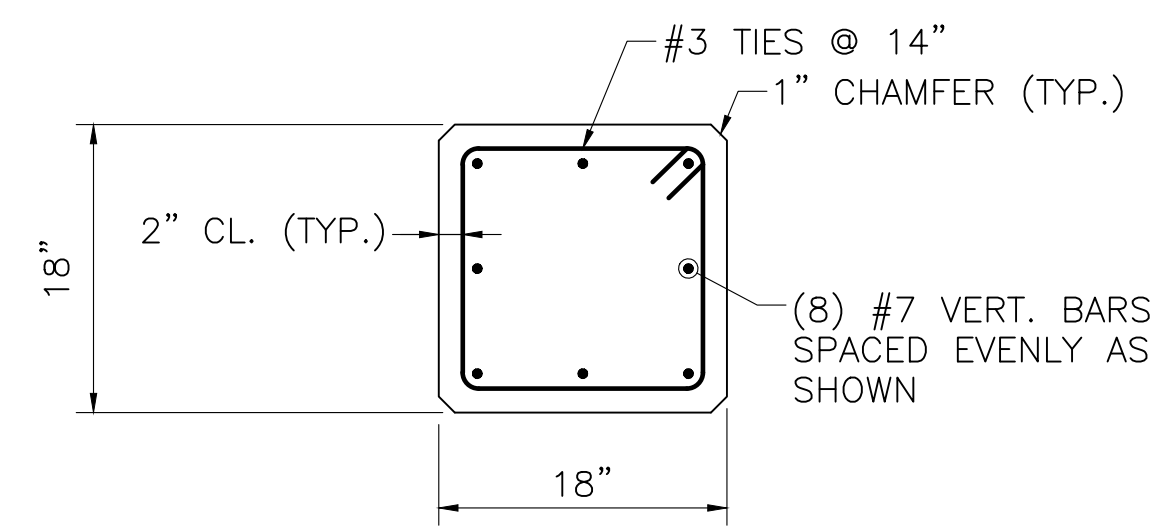
SCALE

AS SHOWN

SHEET NO. S-12

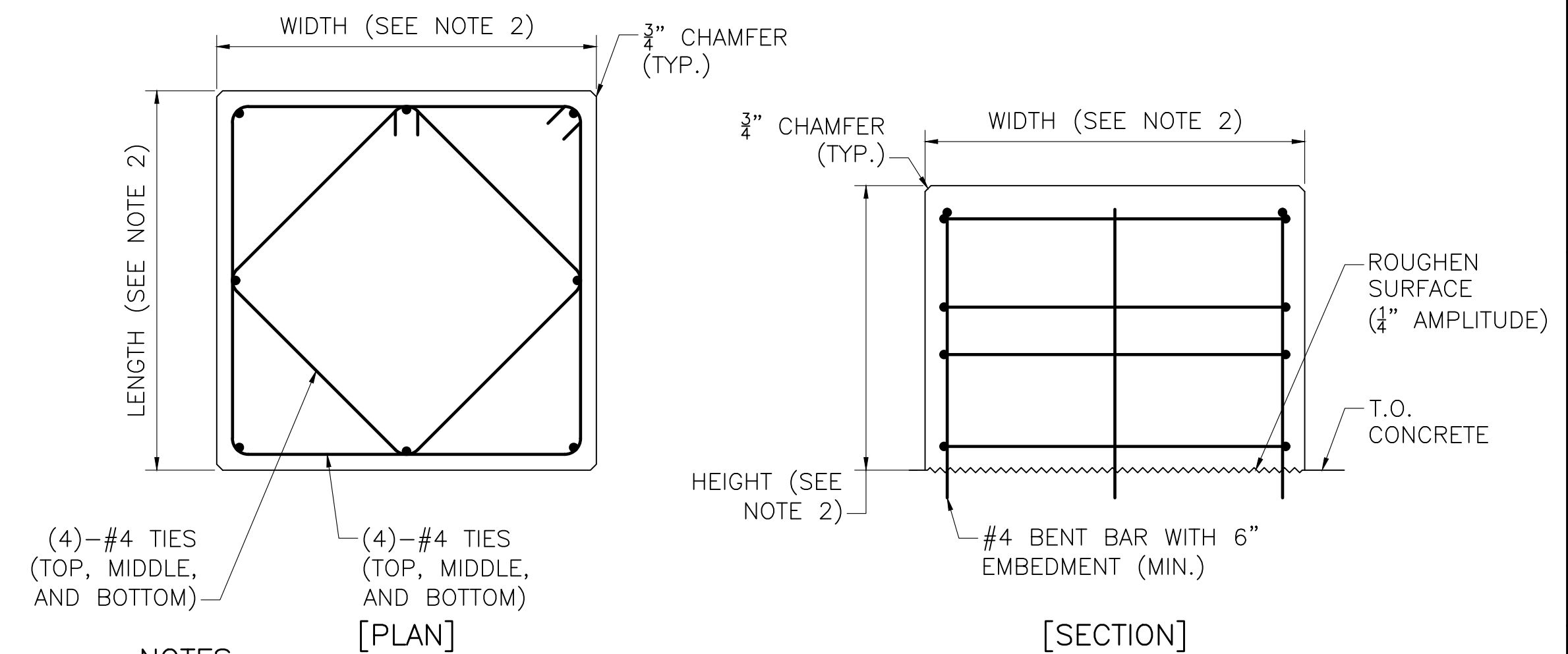


SECTION 8 - FOOTING PLAN
SCALE: 1" = 1'-0"



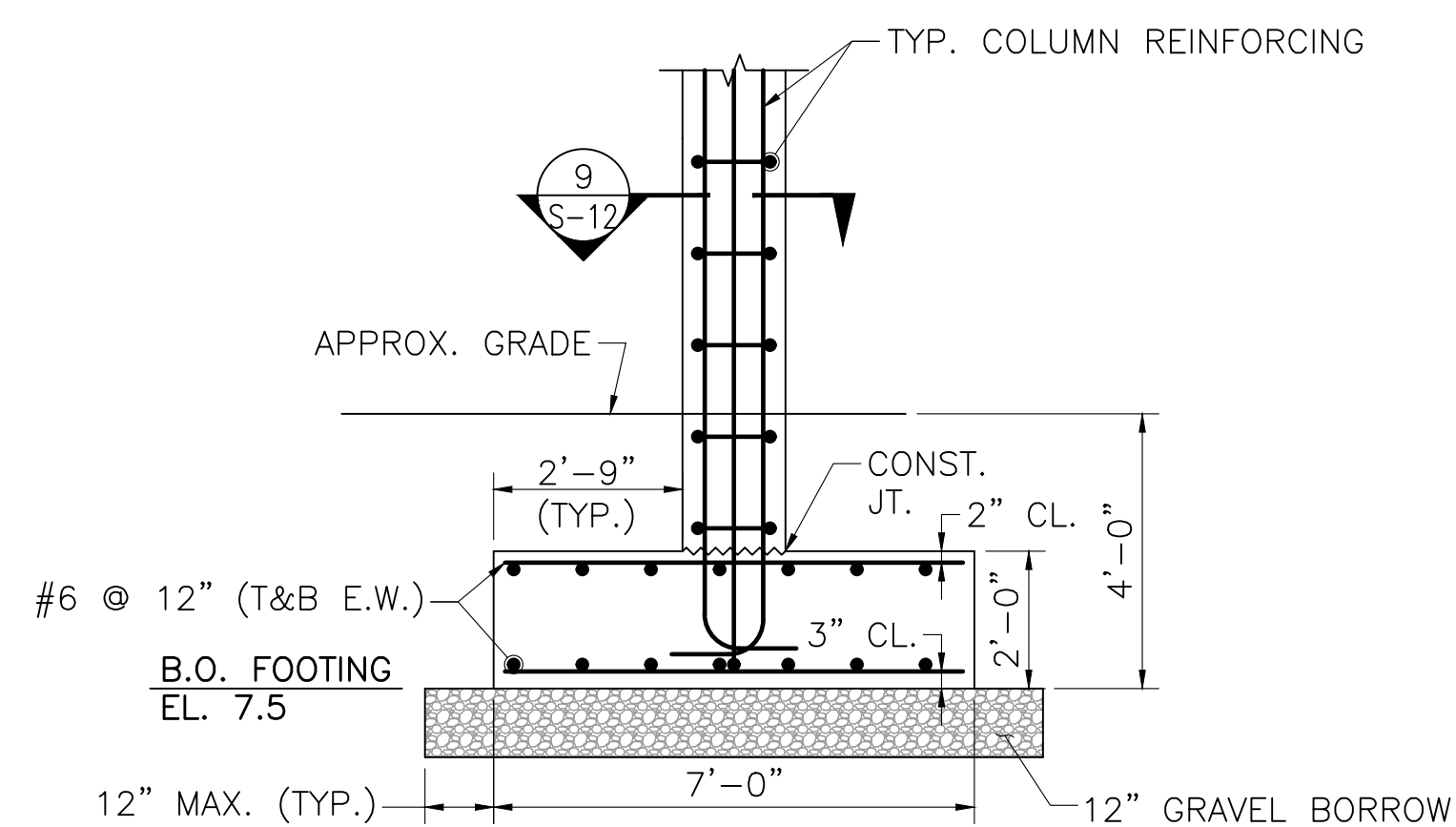
[TYPICAL 18"x18" COLUMN SECTION]

SECTION 9
SCALE: 1" = 1'-0"

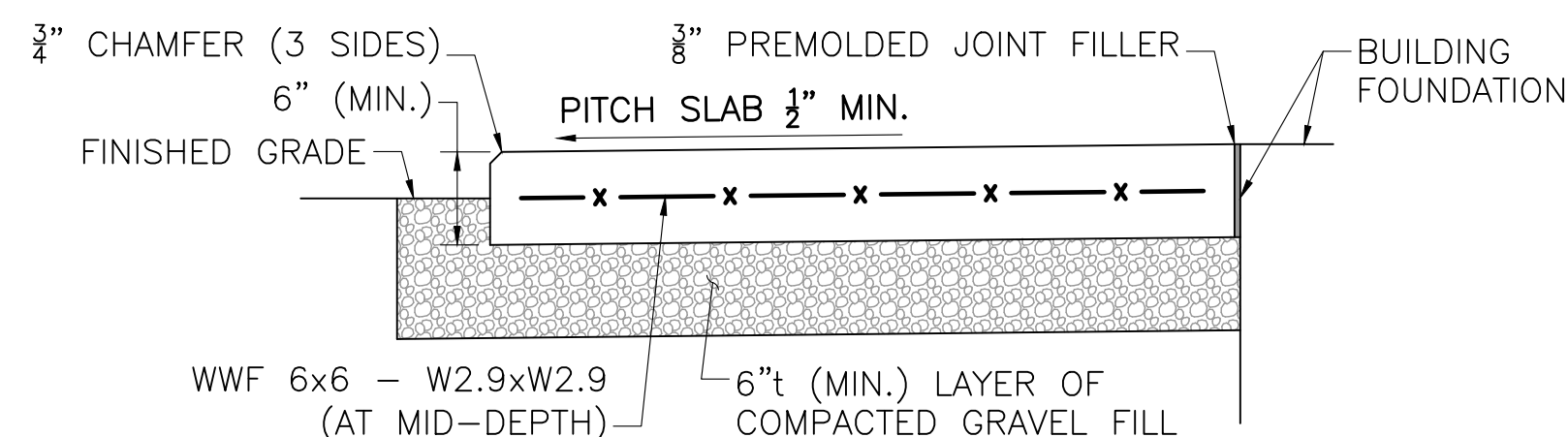


NOTES:
1. THIS DETAIL IS NOT INTENDED TO BE USED FOR PUMP PEDESTALS. PUMP PEDESTAL DETAILS TO BE PROVIDED BY PUMP MANUFACTURER.
2. HEIGHT AND WIDTH OF EQUIPMENT PEDESTAL TO BE PROVIDED BY EQUIPMENT MANUFACTURER.

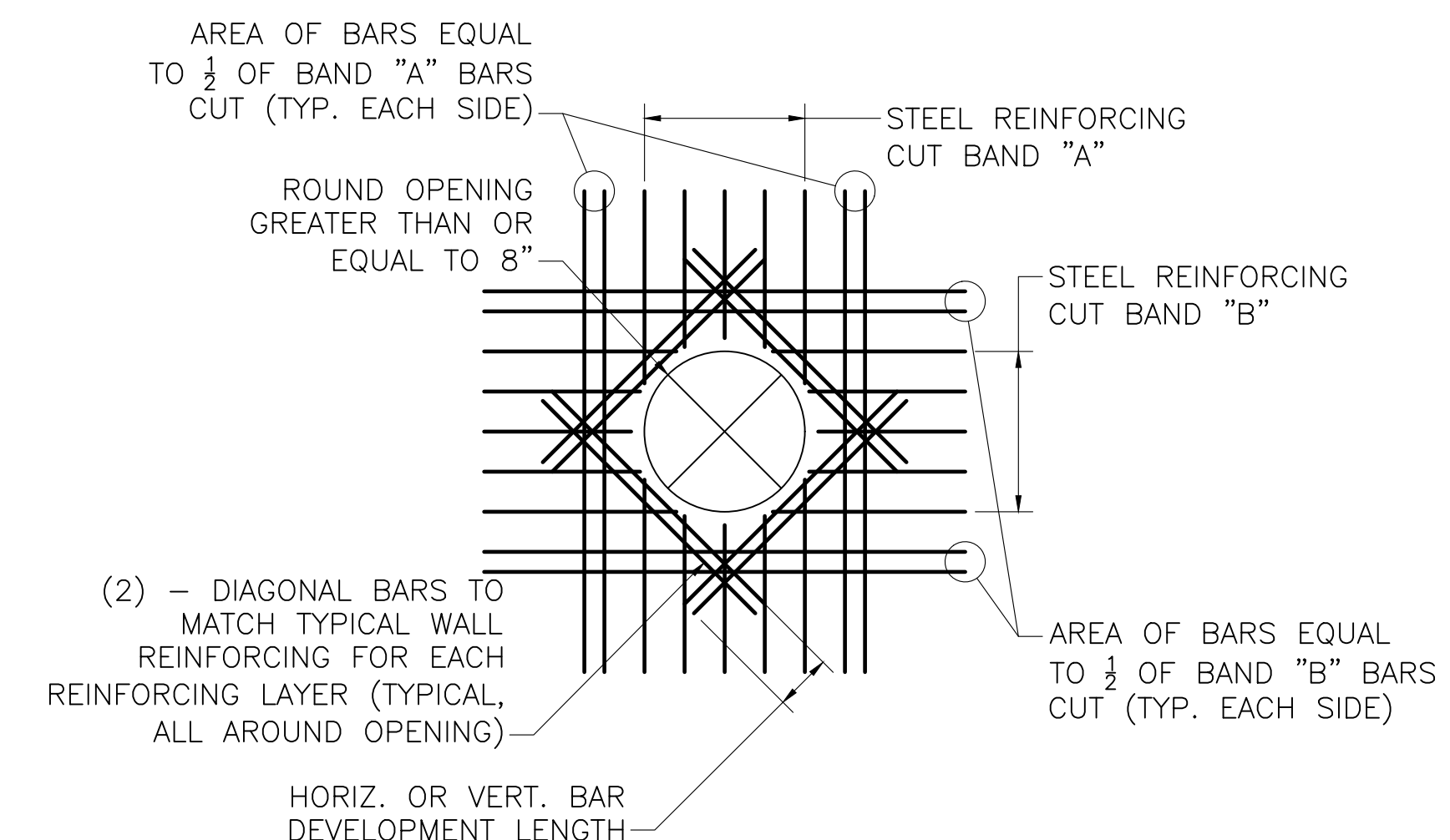
EQUIPMENT PEDESTAL
NOT TO SCALE



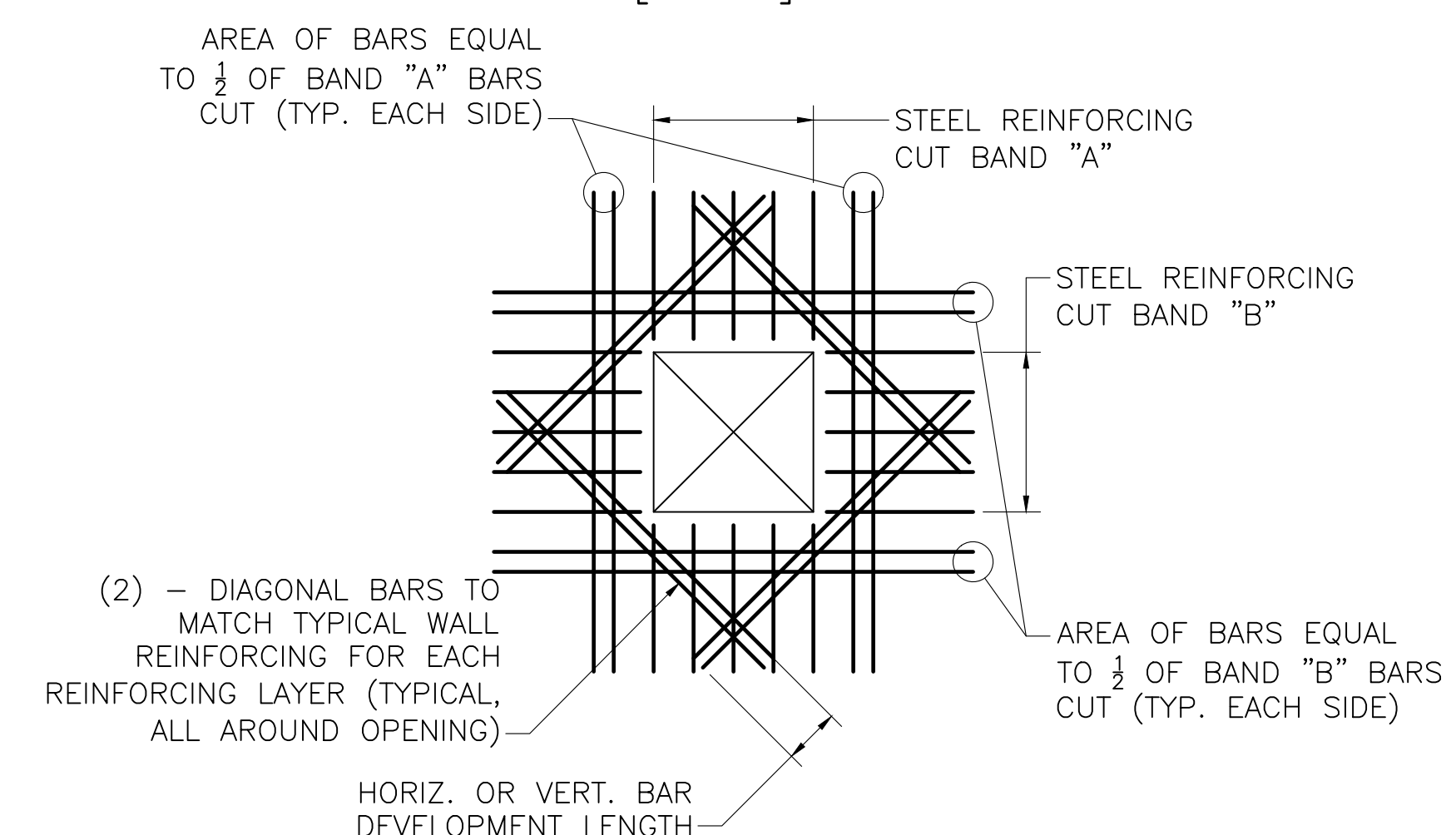
EXTERIOR COLUMN FOOTING
SCALE: 3/8" = 1'-0"



CONCRETE LANDING DETAIL
NOT TO SCALE

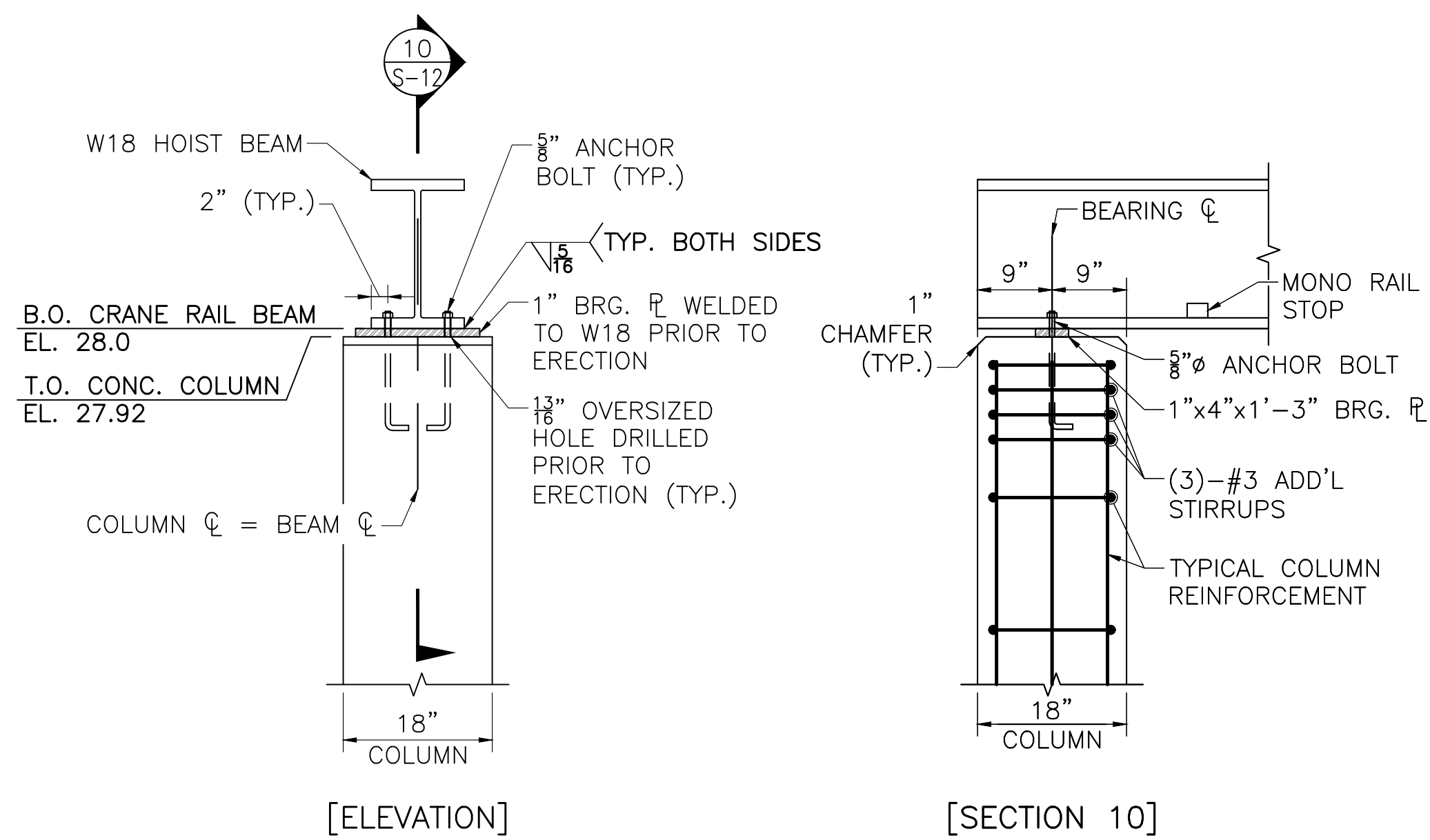


[ROUND]



[SQUARE]

TYPICAL PENETRATION DETAIL
SCALE: 1/2" = 1'-0"



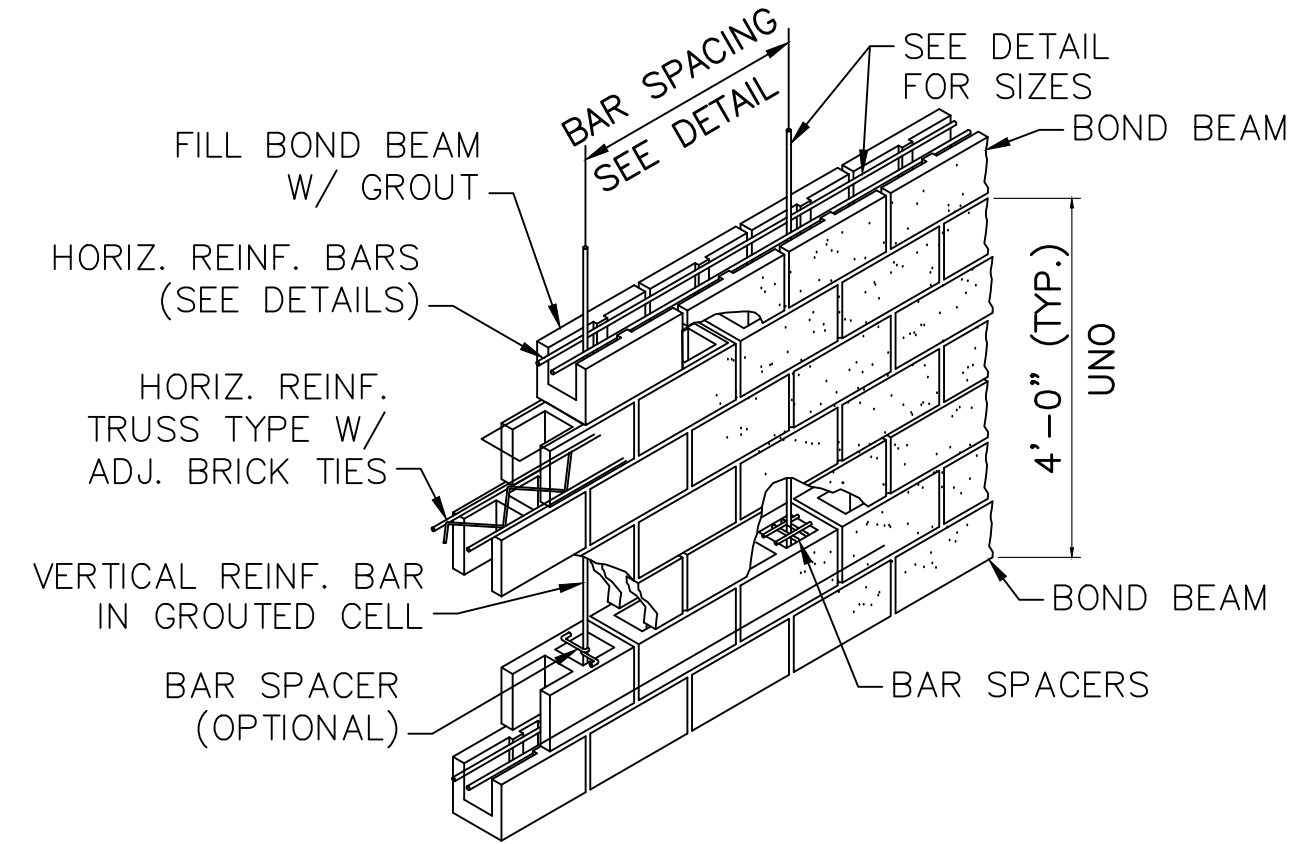
[ELEVATION]

[SECTION 10]

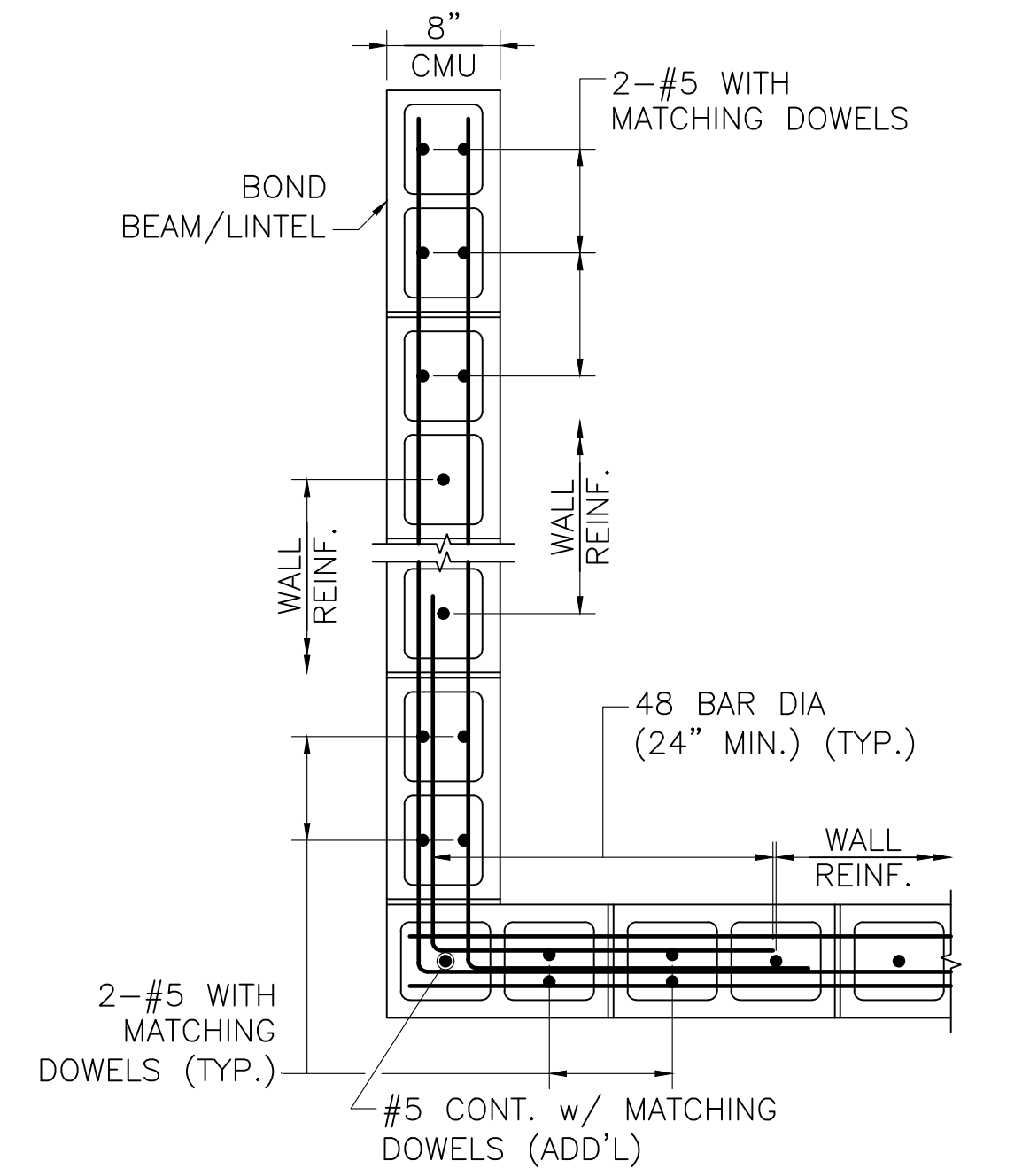
DETAIL A
SCALE: 3/4" = 1'-0"

8/19/2020 3:47 PM J:\TAUNTON MAIN LIFT PUMP STATION\AUTOCAD\DRAWING FILES\STRUCTURAL\PHASE 3\S-116530_S-11.DWG (BETA STB BW STB)

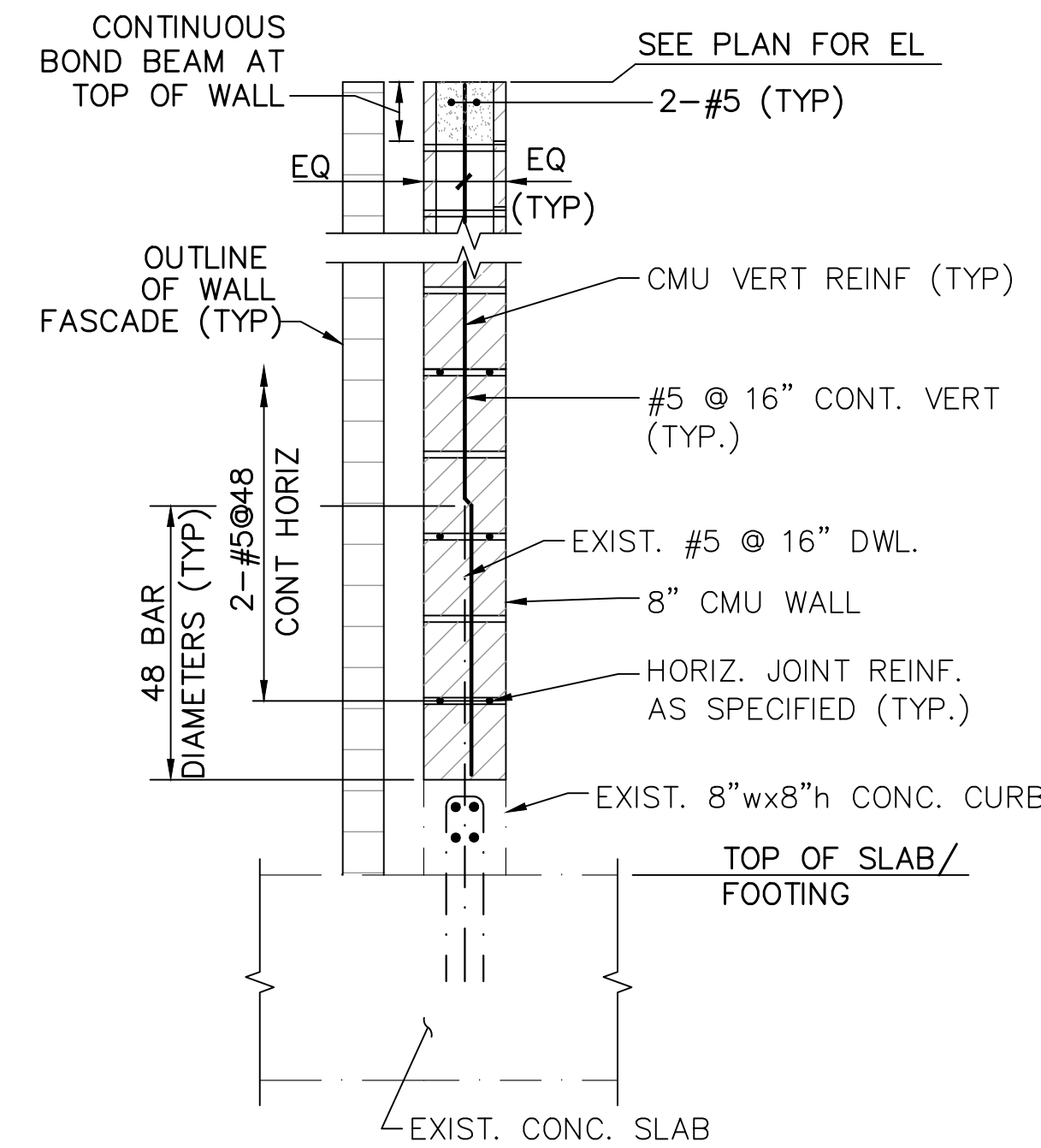
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CMU WALL CONSTRUCTION
SCALE: NOT TO SCALE



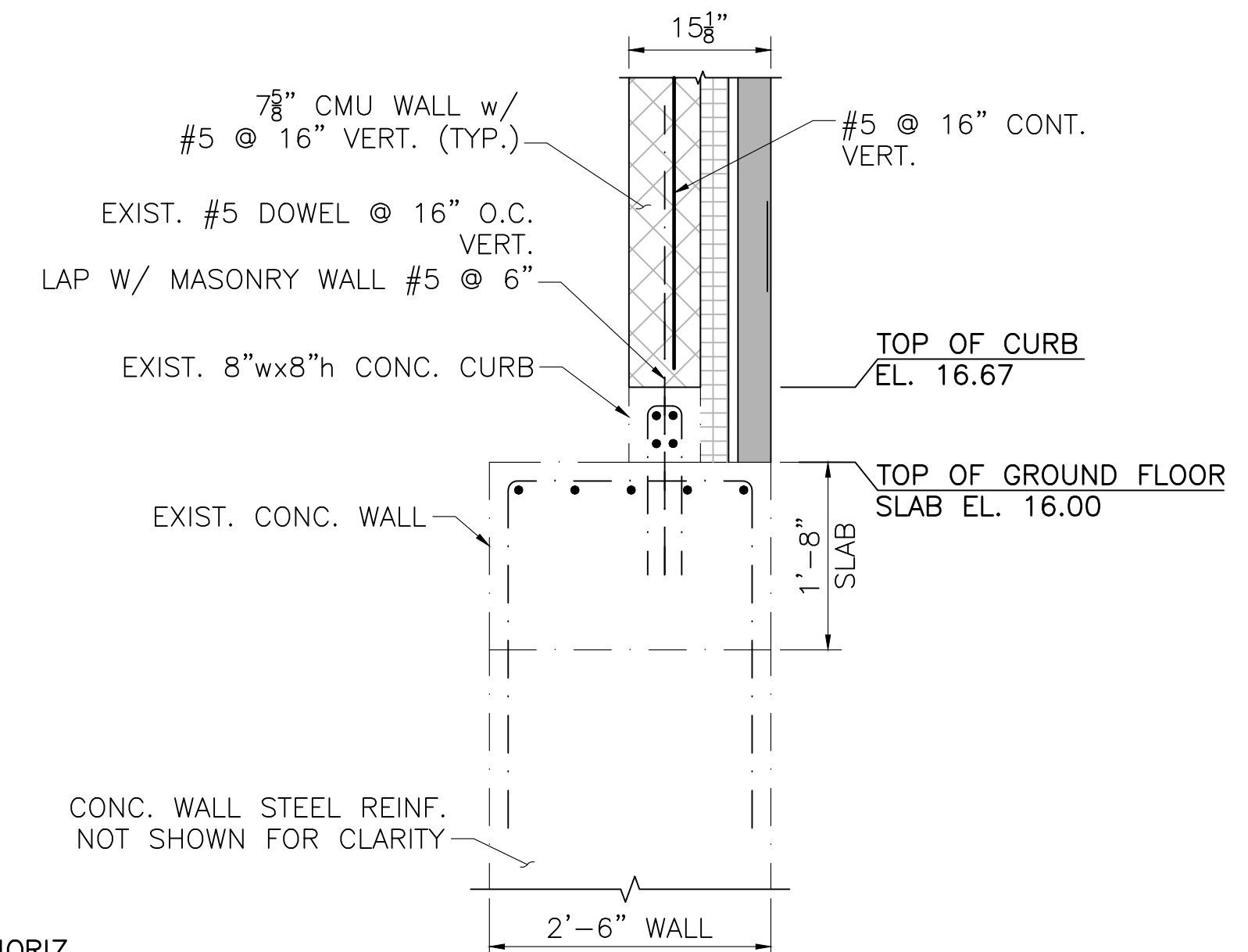
TYPICAL CMU WALL CORNER AND AT END
NOT TO SCALE



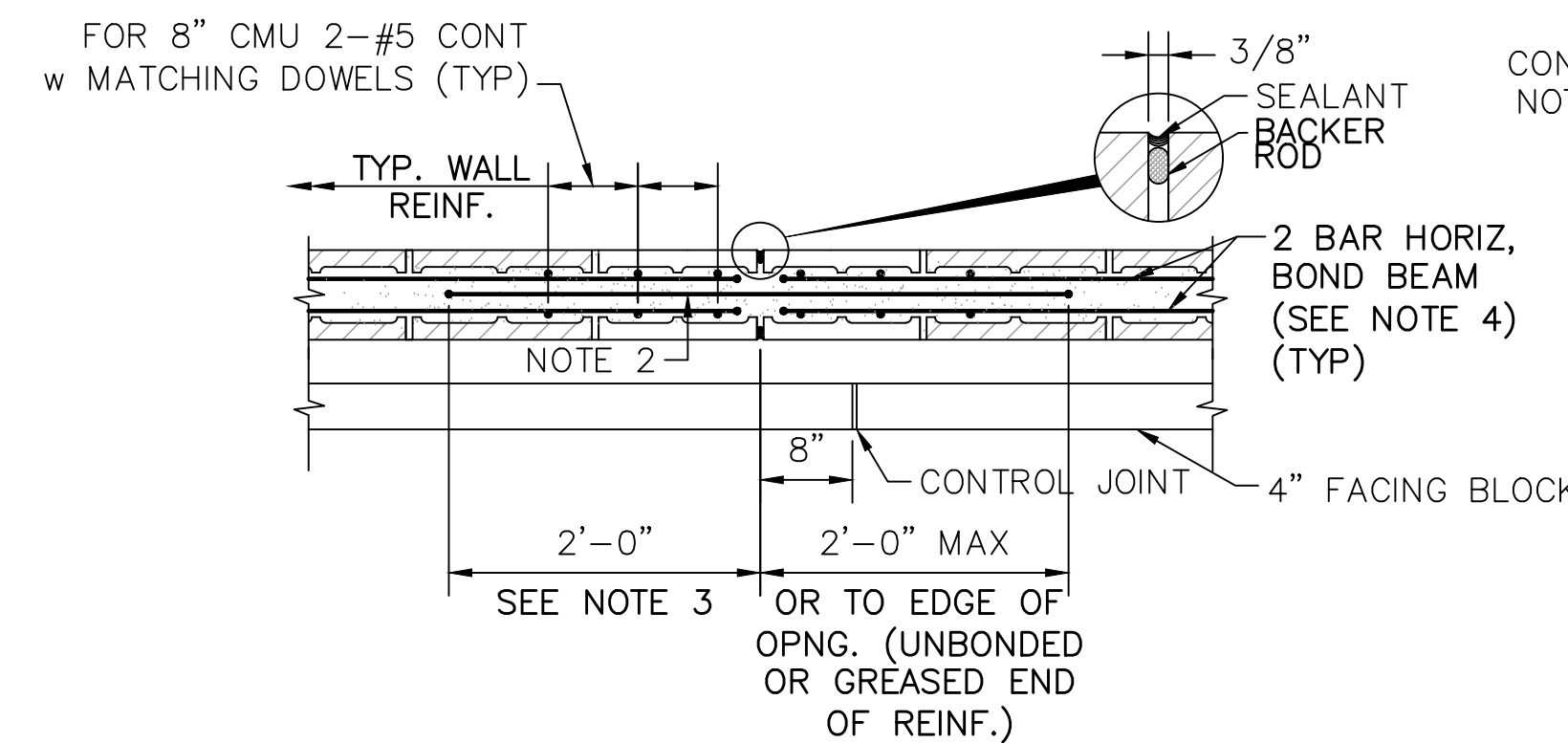
TYPICAL CMU WALL REINFORCING
SCALE: 3/4" = 1'-0"

CMU MASONRY NOTES:

1. $f'_m = 2000$ P.S.I. (MIN.)
2. CMU MASONRY DETAILS, ELEVATIONS AND NOTES ON THIS SHEET APPLY TO ALL CMU EXTERIOR AND INTERIOR WALLS U.N.O. (WALLS CONSIST OF A SINGLE CMU WYTHE AND ONE BRICK WYTHE)
3. FULLY GROUT ALL CELLS AND COURSES WITH VERTICAL OR HORIZONTAL REINFORCING. PROVIDE 2" MINIMUM CLEAR COVER TO THE REINFORCING (U.N.O.).
4. ALL HORIZONTAL REINFORCING, EXCEPT IN THE LINTELS, SHALL BE PLACED IN A CMU BOND BEAM BLOCK. PROVIDE GALVANIZED METAL LATH IN THE HORIZONTAL JOINT BELOW THE BLOCK TO RETAIN THE GROUT.
5. PROVIDE A CONTINUOUS BOND BEAM WITH 2-#5 CONTINUOUS HORIZONTAL BARS AT THE TOP OF ALL WALLS.
6. REINFORCING LAP SPLICE LENGTH = 48 BAR DIAMETERS (24" MINIMUM).
7. PROVIDE HORIZONTAL JOINT REINFORCING AS NEEDED.
8. REINFORCING BARS TO EXTEND 12 BAR DIAMETERS BUT NOT LESS THAN 12" BEYOND BEND U.N.O.
9. FOR PLAN LOCATION OF MASONRY WALLS AND OTHER MASONRY DETAILS, SEE ARCHITECTURAL DRAWINGS.
10. FOR LOCATION AND SIZE OF MASONRY WALL OPENINGS, SEE ARCHITECTURAL DRAWINGS.



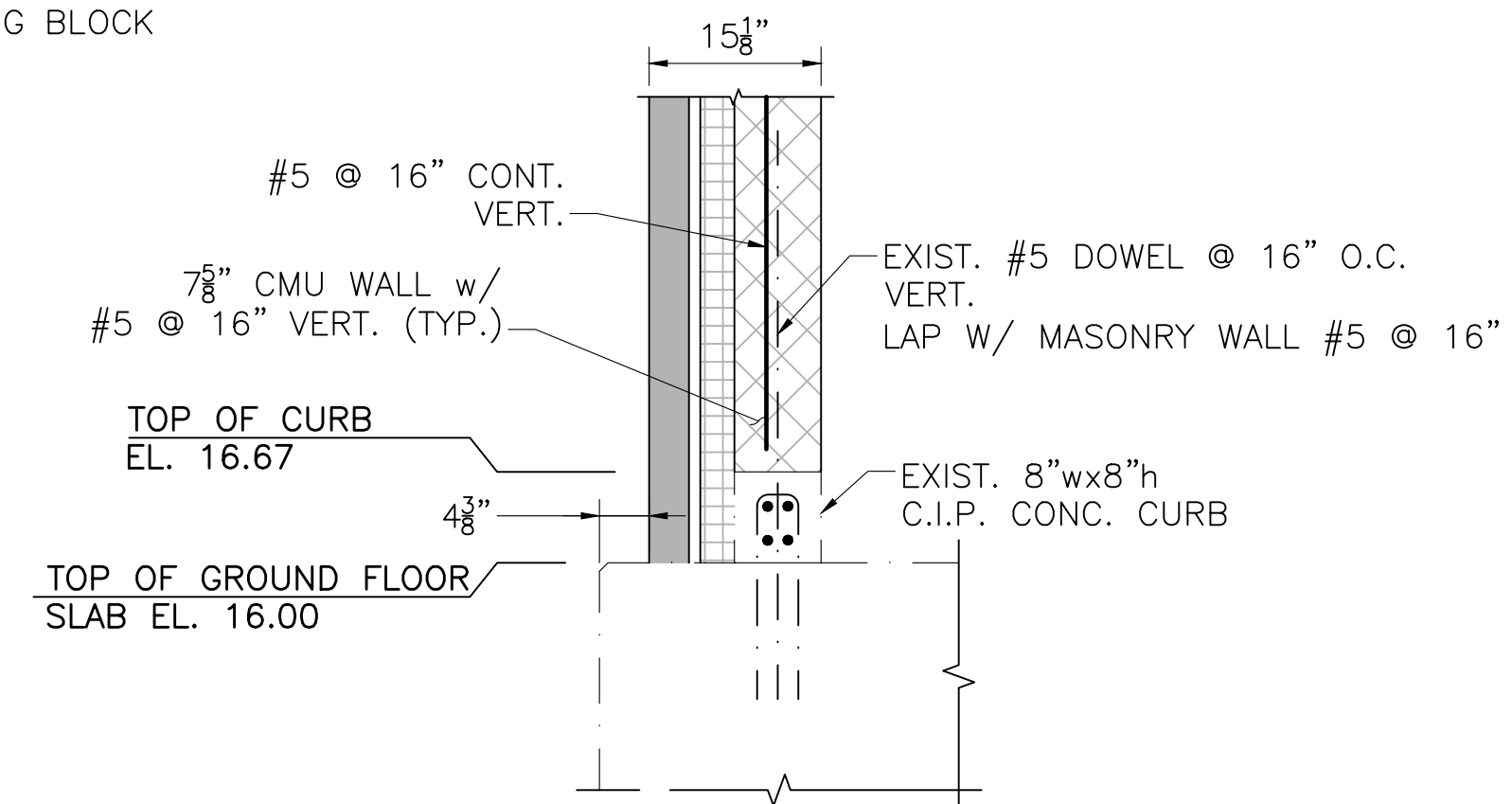
SECTION 11 AT STAIRWAY OPENING
SCALE: 3/4" = 1'-0"



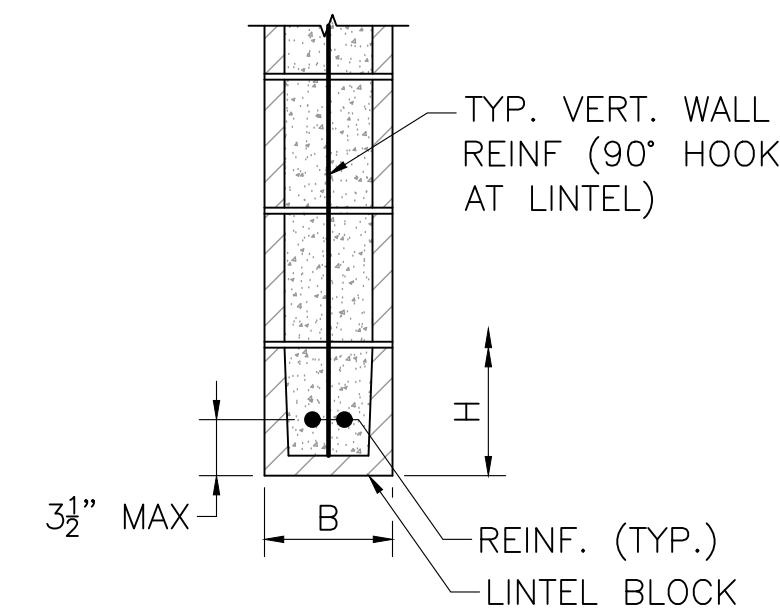
NOTES:

1. TERMINATE HORIZ. REINFORCEMENT WITH A STANDARD HOOK TWO INCHES FROM CONTROL JOINTS.
2. PROVIDE SMOOTH DOWEL IDENTICAL TO HORIZONTAL BAR DIAMETER ACROSS THE JOINT AT HORIZONTAL BAR LOCATIONS. PREVENT BOND BETWEEN BAR AND GROUT ON ONE SIDE OF JOINT WITH PLASTIC SLEEVE OR GREASE. CAP ALL DOWELS TO ALLOW ONE INCH OF MOVEMENT.
3. PROVIDE STD. HOOK ON SIDE WITH BOND IF 2'-0" LENGTH IS NOT POSSIBLE.
4. CONTINUE HORIZ REINF THROUGH MCJ @ BEAM BEARING, DECK BEARING, T.O.W. BOND BEAMS AND LINTEL REINF. SMOOTH DOWEL BAR NOT REQUIRED.

MASONRY CONTROL JOINT (MCJ)
SCALE: 3/4" = 1'-0"



SECTION 12
SCALE: 3/4" = 1'-0"



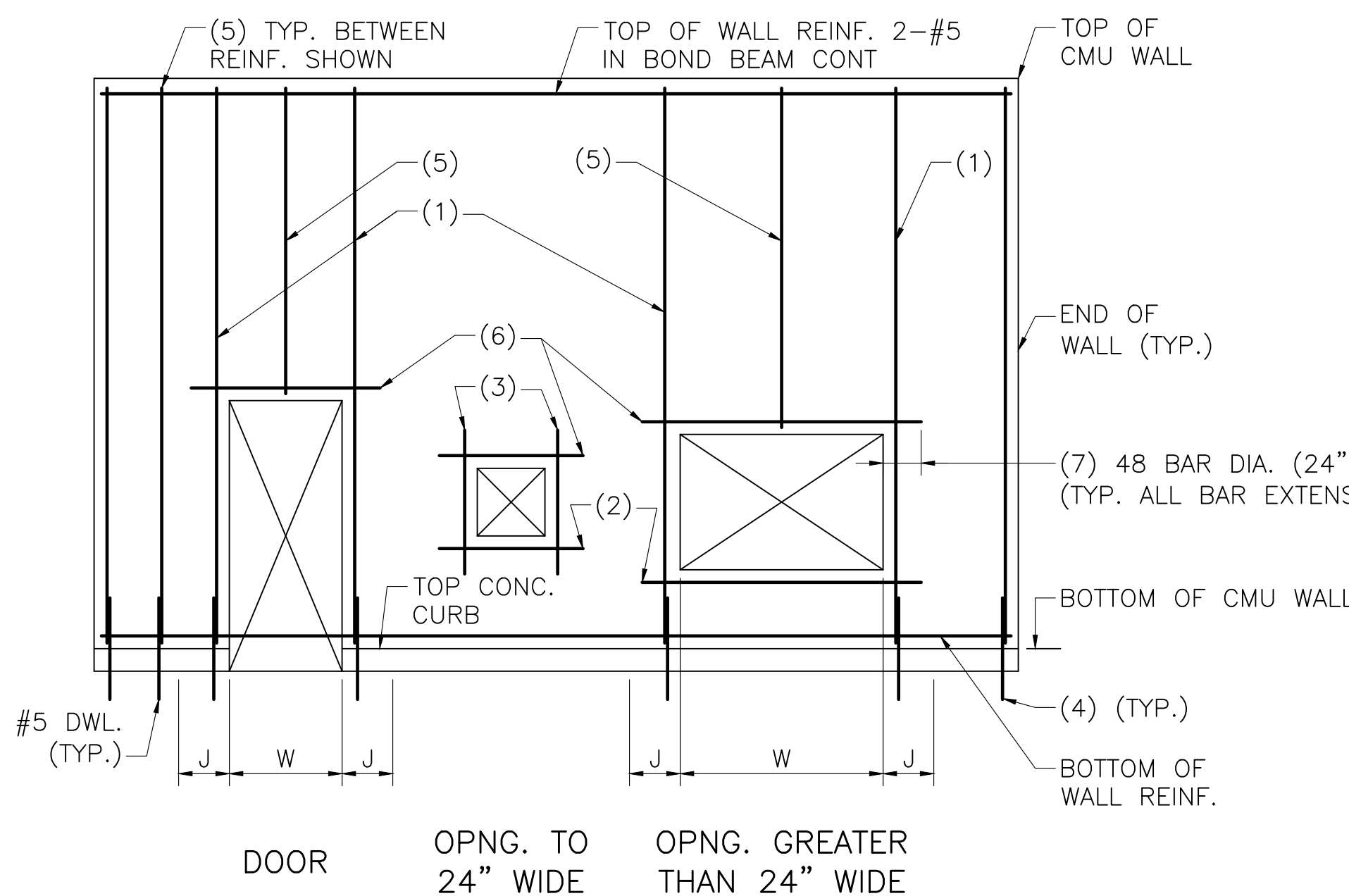
TYPICAL CMU LINTEL
NOT TO SCALE

NOTES:

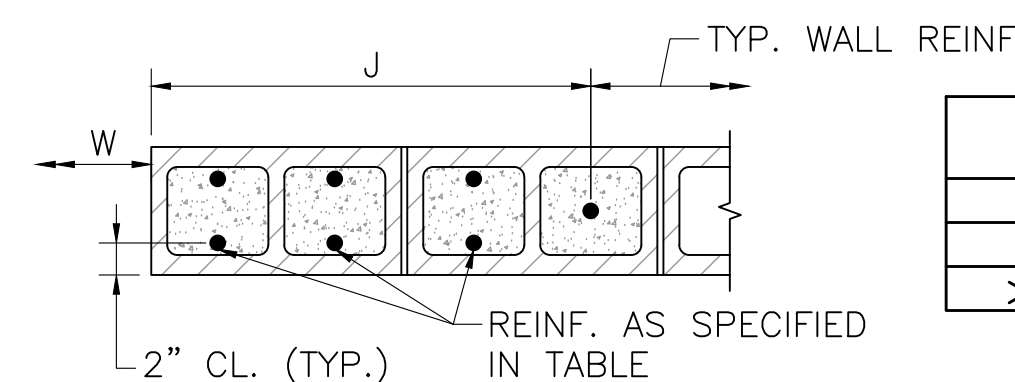
1. PROVIDE 8" MINIMUM BEARING AT EACH SIDE OF CLEAR SPAN.
2. FULLY GROUT CMU OVER DEPTH "H" TO ENDS OF BEARING.
3. MAY CONSIST OF FULLY GROUTED H=16" CMU LINTEL BLOCK OR H = 8" CMU LINTEL BLOCK PLUS 8" CMU BLOCK(S), FULLY GROUTED.

LEGEND

- (1) SEE TYPICAL CMU WALL OPENING DETAIL THIS SHEET.
- (2) SILL BARS, 2-#5 IN BOND BEAM.
- (3) 1-#5 EACH SIDE.
- (4) SEE TYPICAL CMU WALL CORNER AND END DETAIL THIS SHEET.
- (5) BETWEEN BARS SHOWN, PROVIDE TYPICAL WALL REINFORCING PER TYPICAL CMU WALL REINFORCING DETAIL ON THIS SHEET.
- (6) SEE TYPICAL CMU LINTEL DETAIL ON THIS SHEET, AND ARCHITECTURAL DRAWINGS.
- (7) IF FULL LENGTH IS NOT AVAILABLE, EXTEND AS FAR AS POSSIBLE, HOOK 90°, THEN EXTEND, BEYOND BEND, REMAINDER OF LENGTH REQUIRED (BUT NOT LESS THAN 12")



TYPICAL CMU WALL ELEVATION
NOT TO SCALE



TYPICAL CMU WALL OPENING
NOT TO SCALE

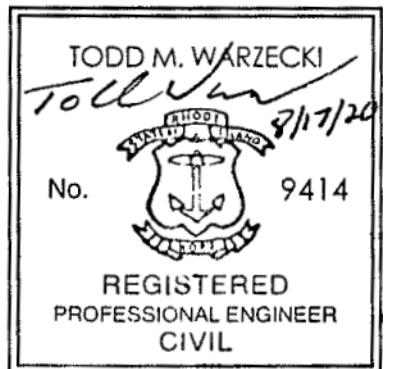
W	JAMB WIDTH, J	VERTICAL REINF.
≤ 3'-4"	1'-6"	2-#5 @ 16" O.C. E.F.
> 3'-4" BUT ≤ 6'-8"	2'-0"	2-#5 @ 8" O.C. E.F.
> 6'-8" BUT ≤ 12'-0"	2'-8"	2-#5 @ 8" O.C. E.F.

PREPARED BY



REGISTERED PROFESSIONAL

SUBCONSULTANT



PROJECT

**Main Lift
Pump Station**

Taunton, MA

TITLE

MASONRY DETAILS

NO. REVISIONS DATE

DRAWN BY: BWN

DESIGNED BY: TMW

CHECKED BY: CWJ

ISSUE DATE: JULY 2020

BETA JOB NO.: 5530

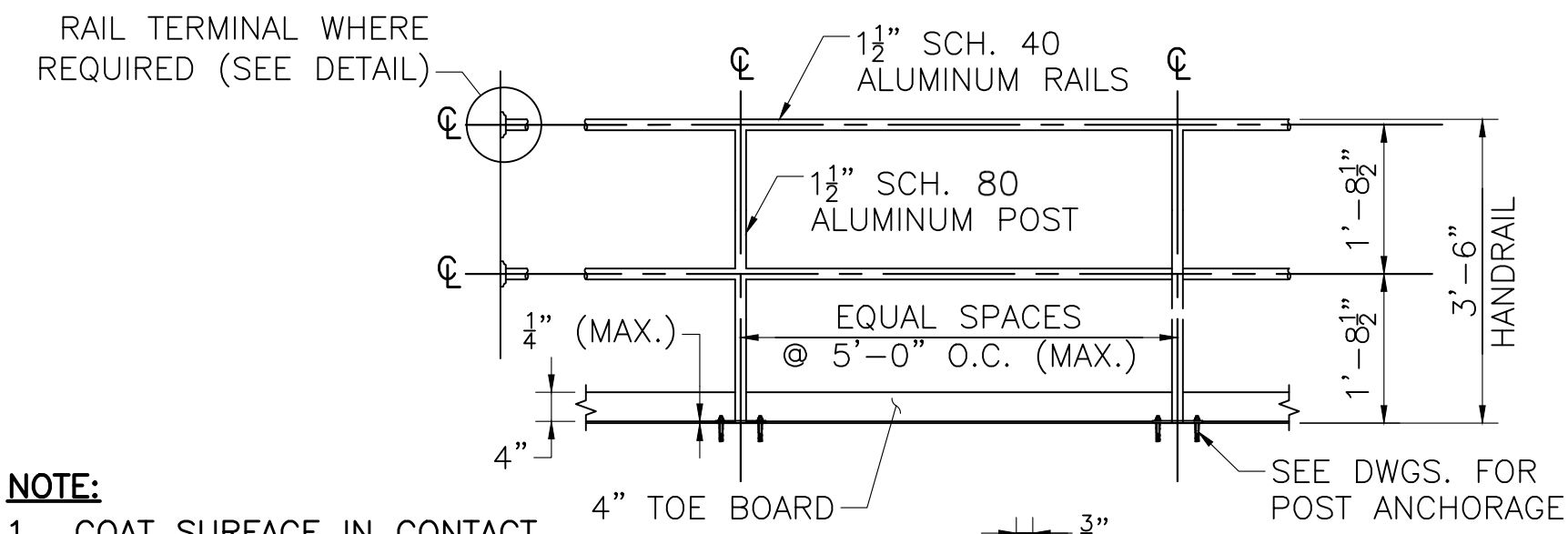
SCALE

AS SHOWN

SHEET NO.

S-13

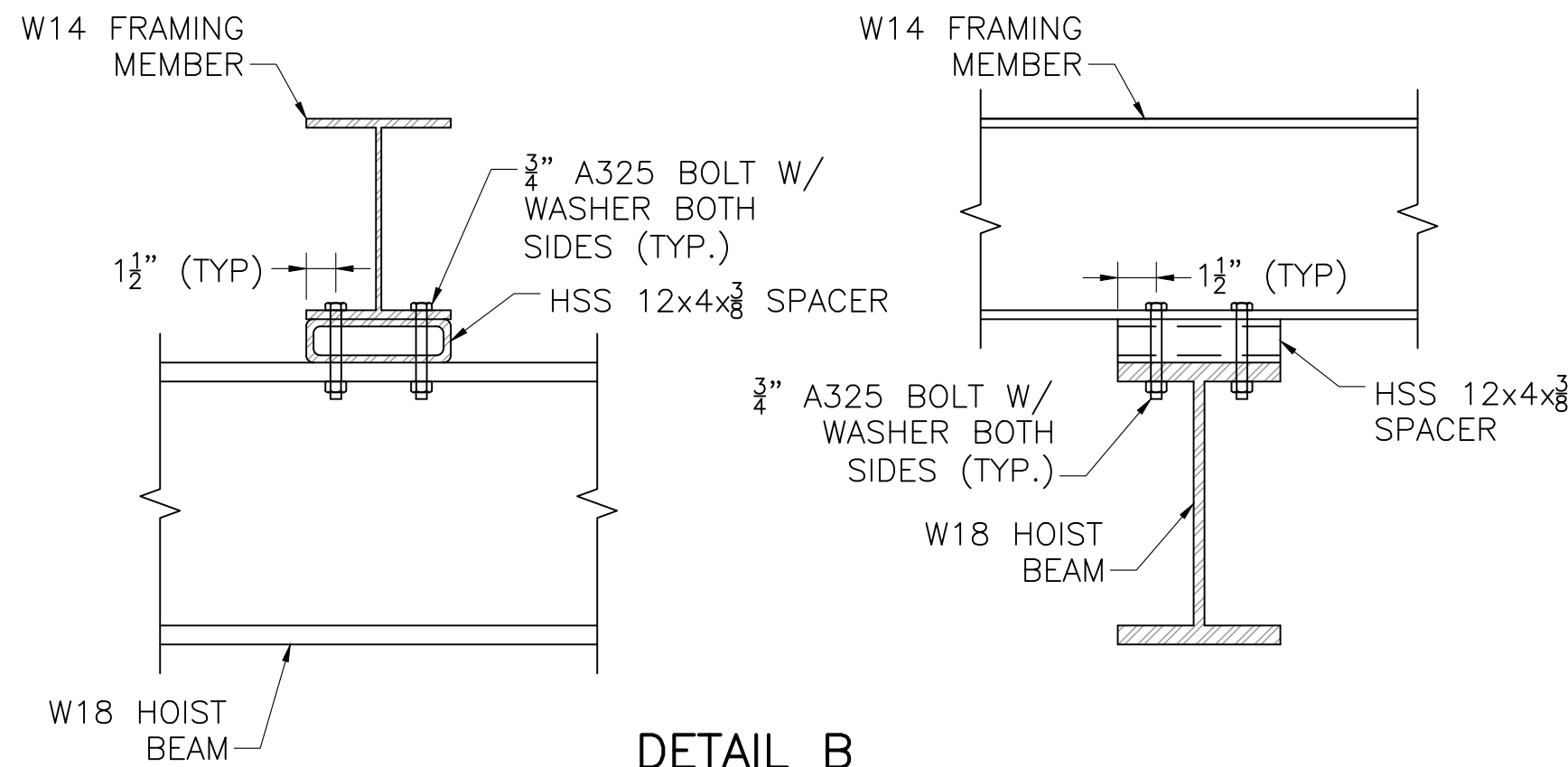
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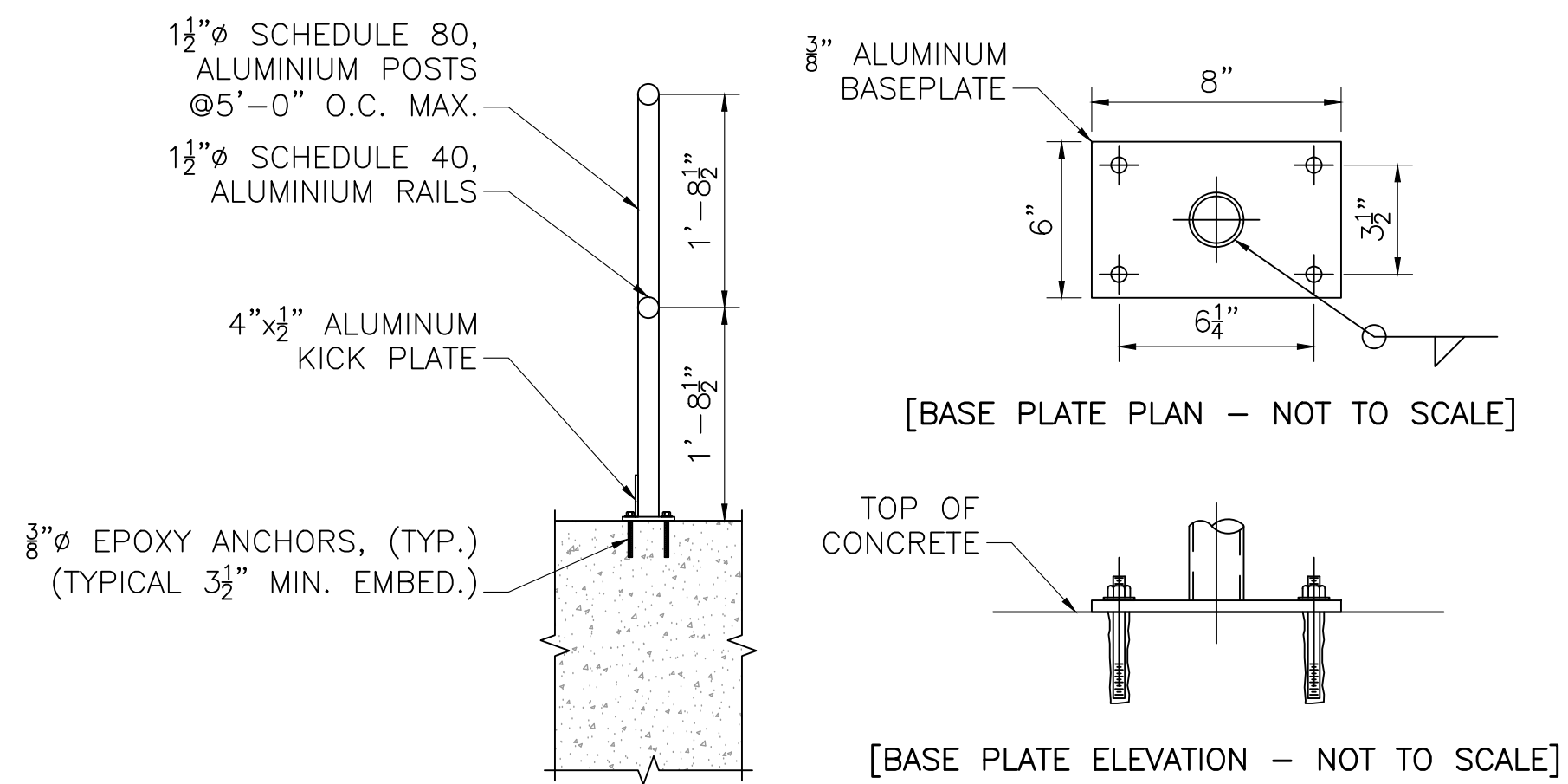
NOTE:
1. COAT SURFACE IN CONTACT WITH DISSIMILAR MATERIALS WITH BITUMASTIC COATING AS PER THE SPECIFICATIONS.

TWO-BAR HANDRAIL
SCALE: 1/2" = 1'-0"

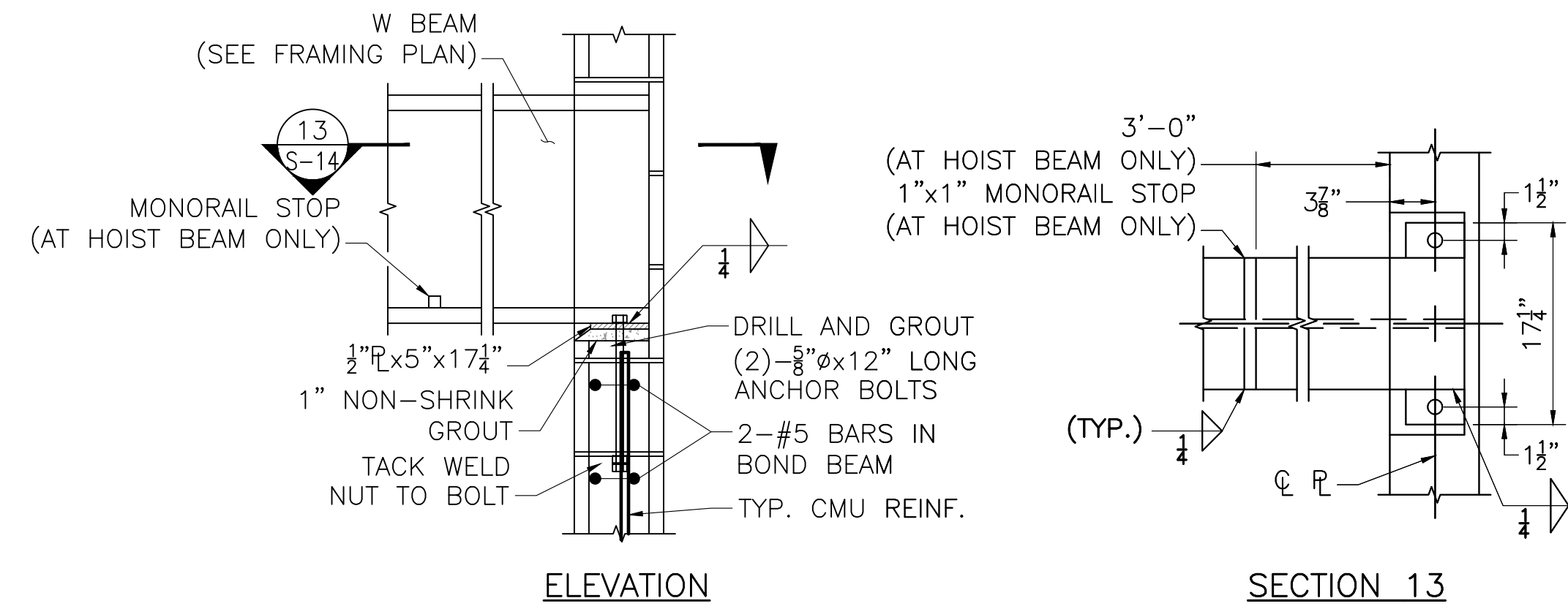
1. FASTEN RAIL TERMINAL TO WALL BRACKET PER MFR'S RECOMMENDATIONS.
2. WALL FLANGE TO BE MOUNTED TO WALL W/ (2) - 3/8" S.S. EPOXY ANCHORS.



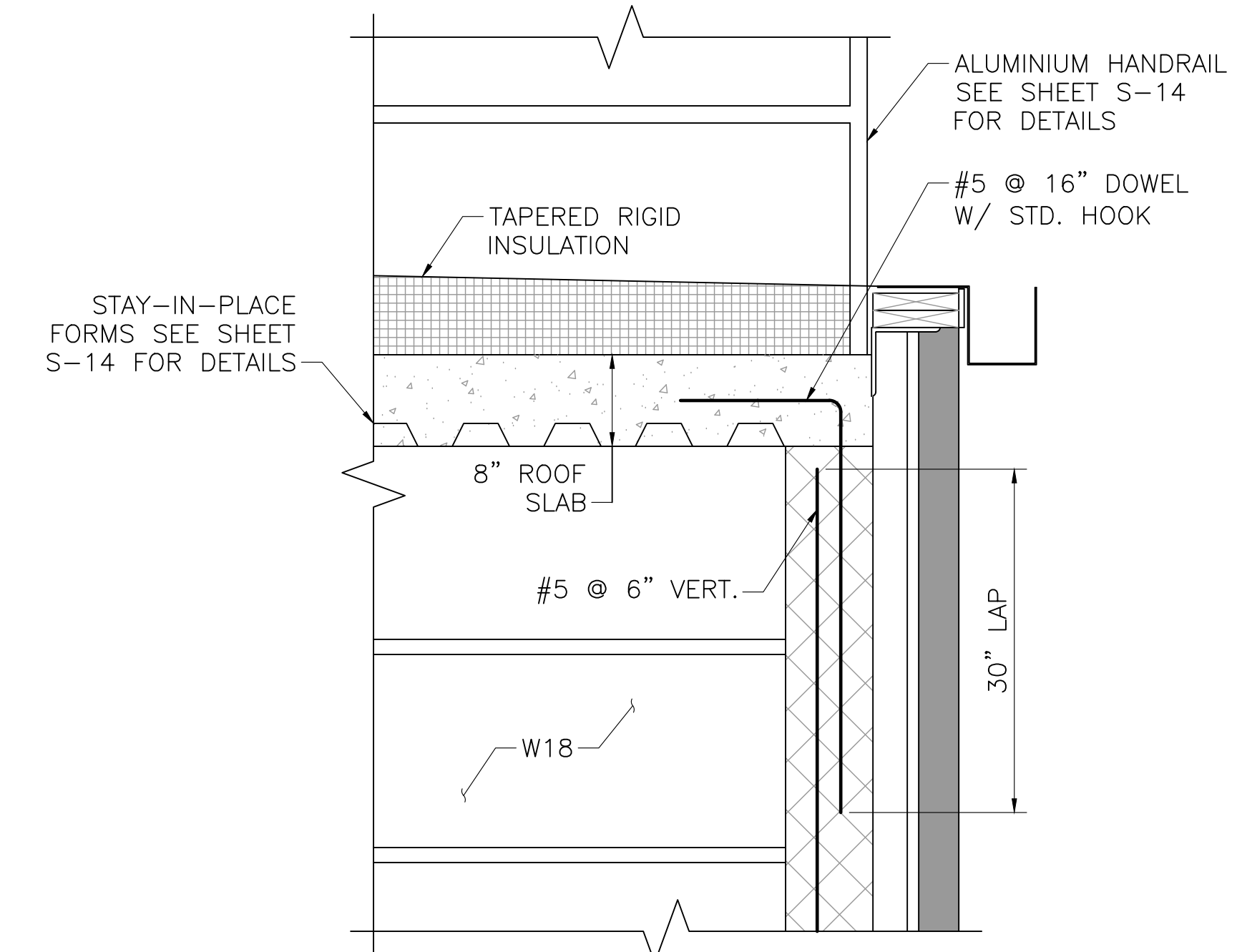
DETAIL B
SCALE: 1" = 1'-0"



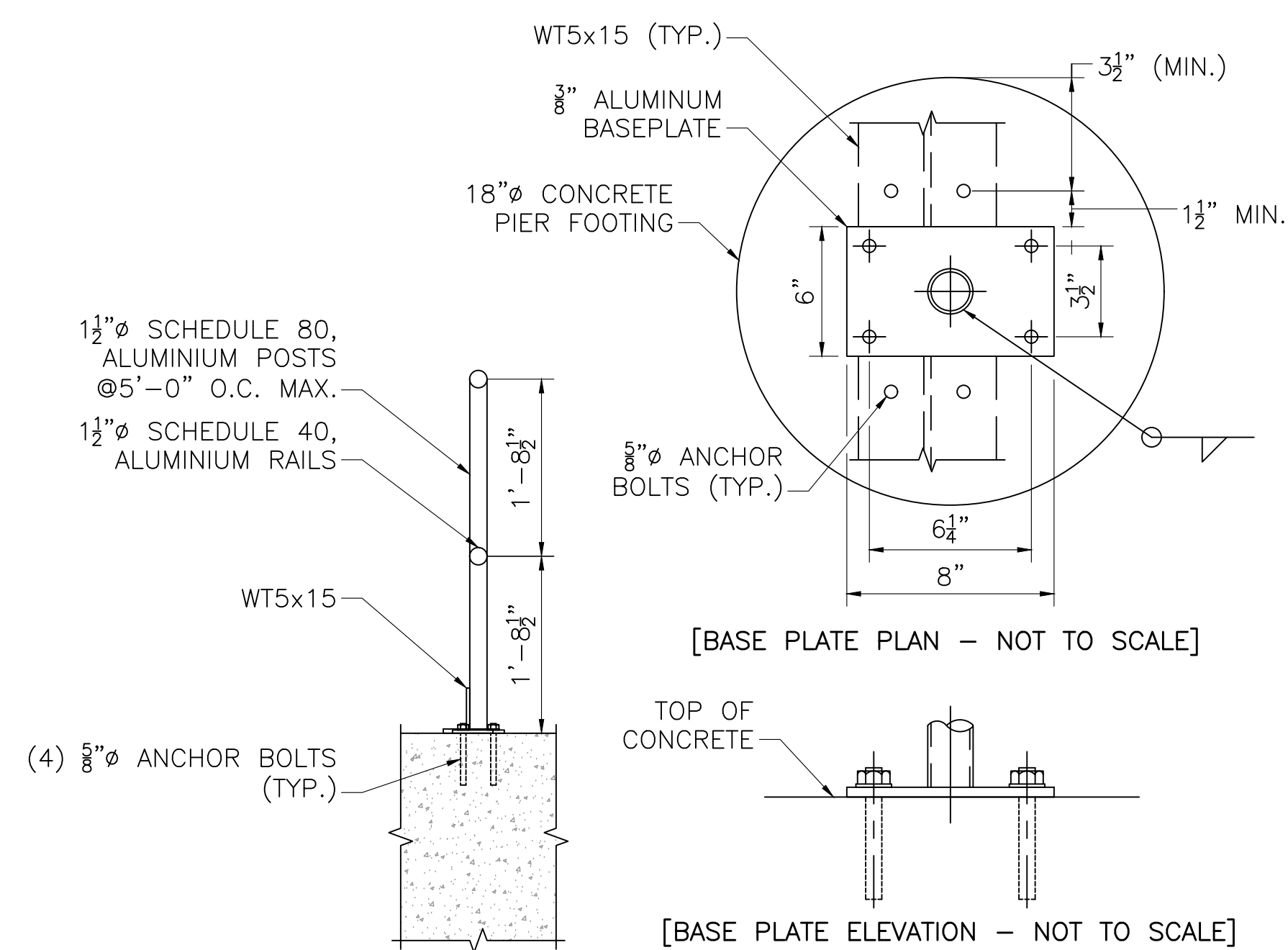
TOP MOUNTED HANDRAIL DETAIL
SCALE: 3/4" = 1'-0"



DETAIL C
NOT TO SCALE

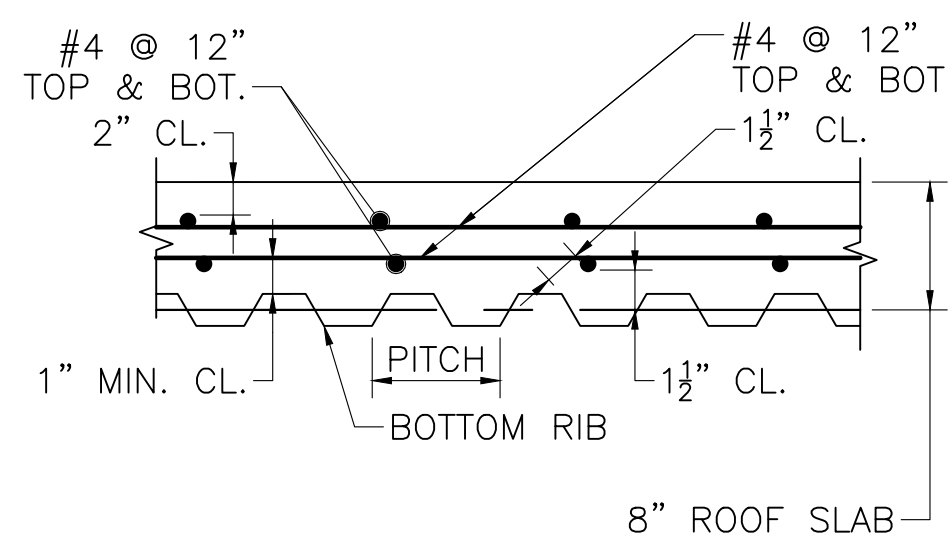


DETAIL D
SCALE: 1" = 1'-0"

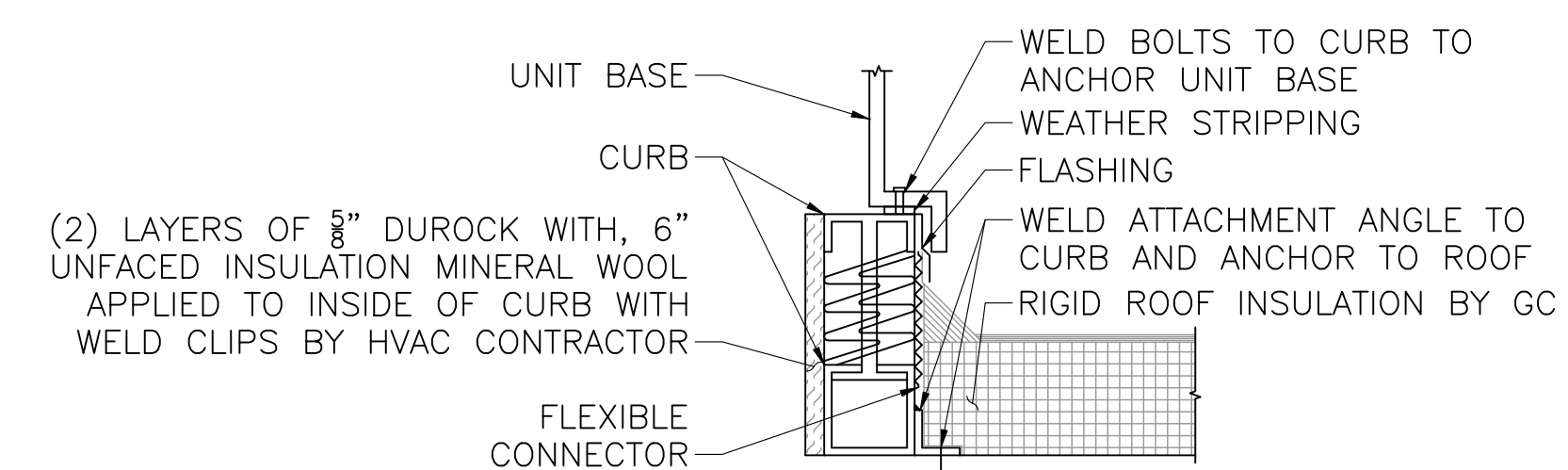


TOP MOUNTED HANDRAIL DETAIL - GENERATOR PAD
SCALE: 3/4" = 1'-0"

NOTE:
1. CUT HOLES IN GRATING AS REQUIRED TO ACCOUNT FOR ANCHOR BOLTS.



STAY-IN-PLACE FORM DETAILS
NOT TO SCALE



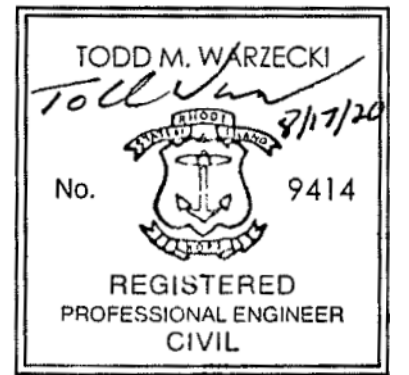
AIR HANDLING UNIT ANCHORAGE
SCALE: 1" = 1'-0"

PREPARED BY



REGISTERED PROFESSIONAL

SUBCONSULTANT



PROJECT

Main Lift Pump Station

Taunton, MA

TITLE

MISCELLANEOUS DETAILS

NO. REVISIONS DATE

DRAWN BY: BWN
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SCALE

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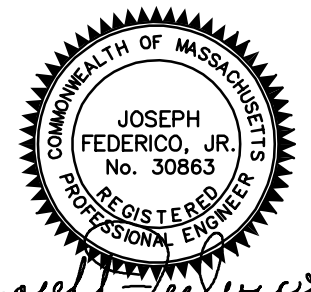
SHEET NO. S-14

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REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

MAIN LIFT
PUMP STATION
IMPROVEMENTS

TAUNTON, MA

TITLE

BASEMENT
LEVEL PLAN

NO.	REVISIONS	DATE

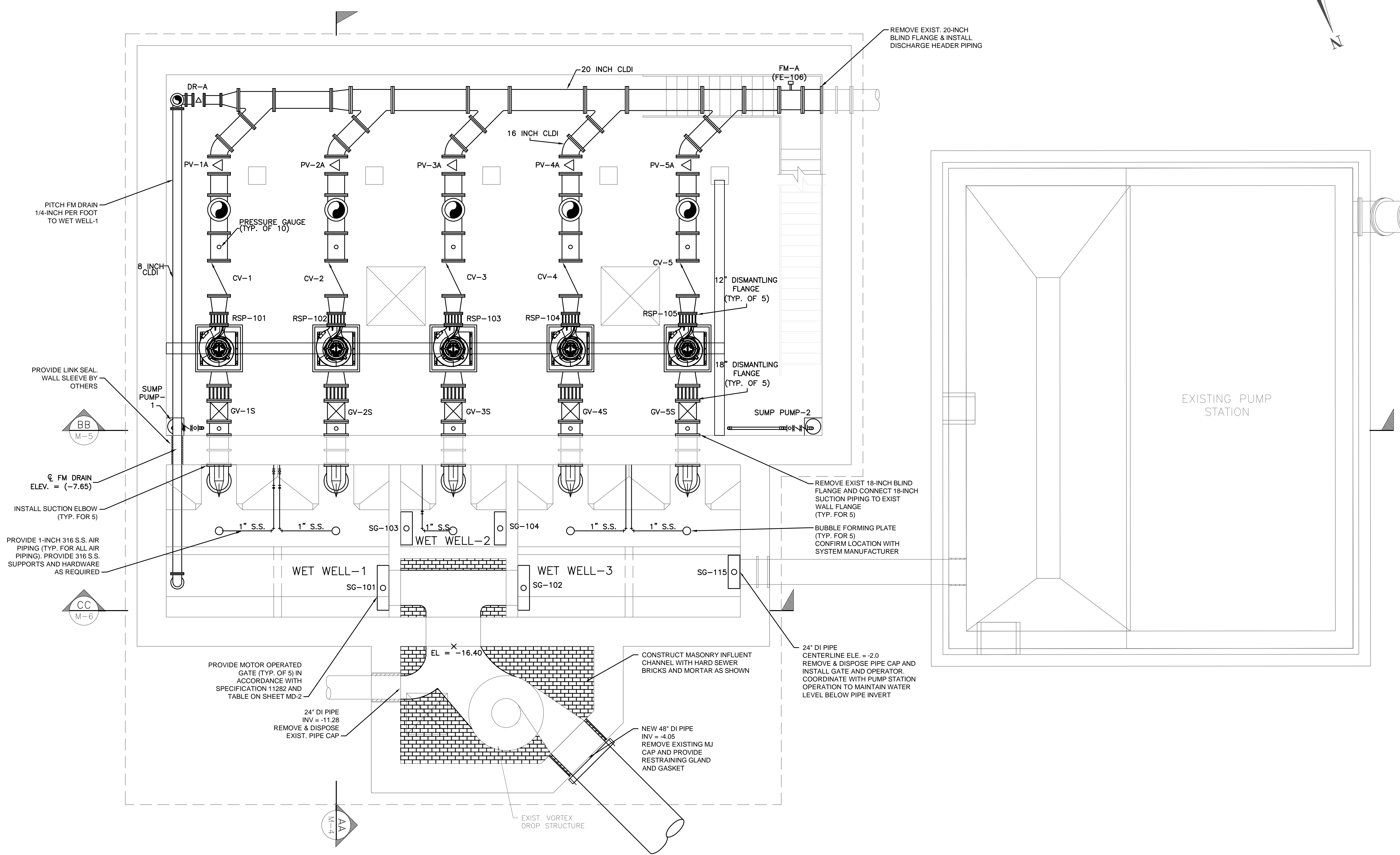
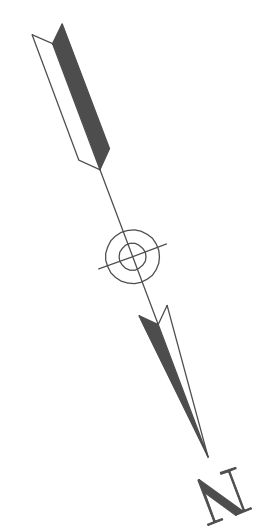
DRAWN BY:	BM
DESIGNED BY:	AJG
CHECKED BY:	CC
ISSUE DATE:	3/29/2021
BETA JOB NO.:	5530

SCALE
AS SHOWN

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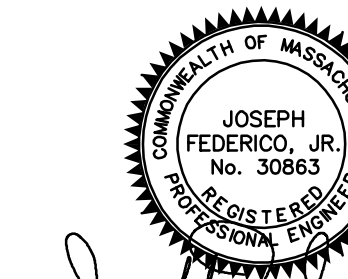
Not for Construction

SHEET NO.
M-1



PLAN & SECTIONS - PROPOSED
SCALE: 1/4" = 1'

J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCADDRAWINGFILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT MECHANICAL - BASEMENT LEVEL PLAN.DWG 1/26/2022 4:57 PM



Joseph Federico, Jr.

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

MEZZANINE LEVEL PLAN

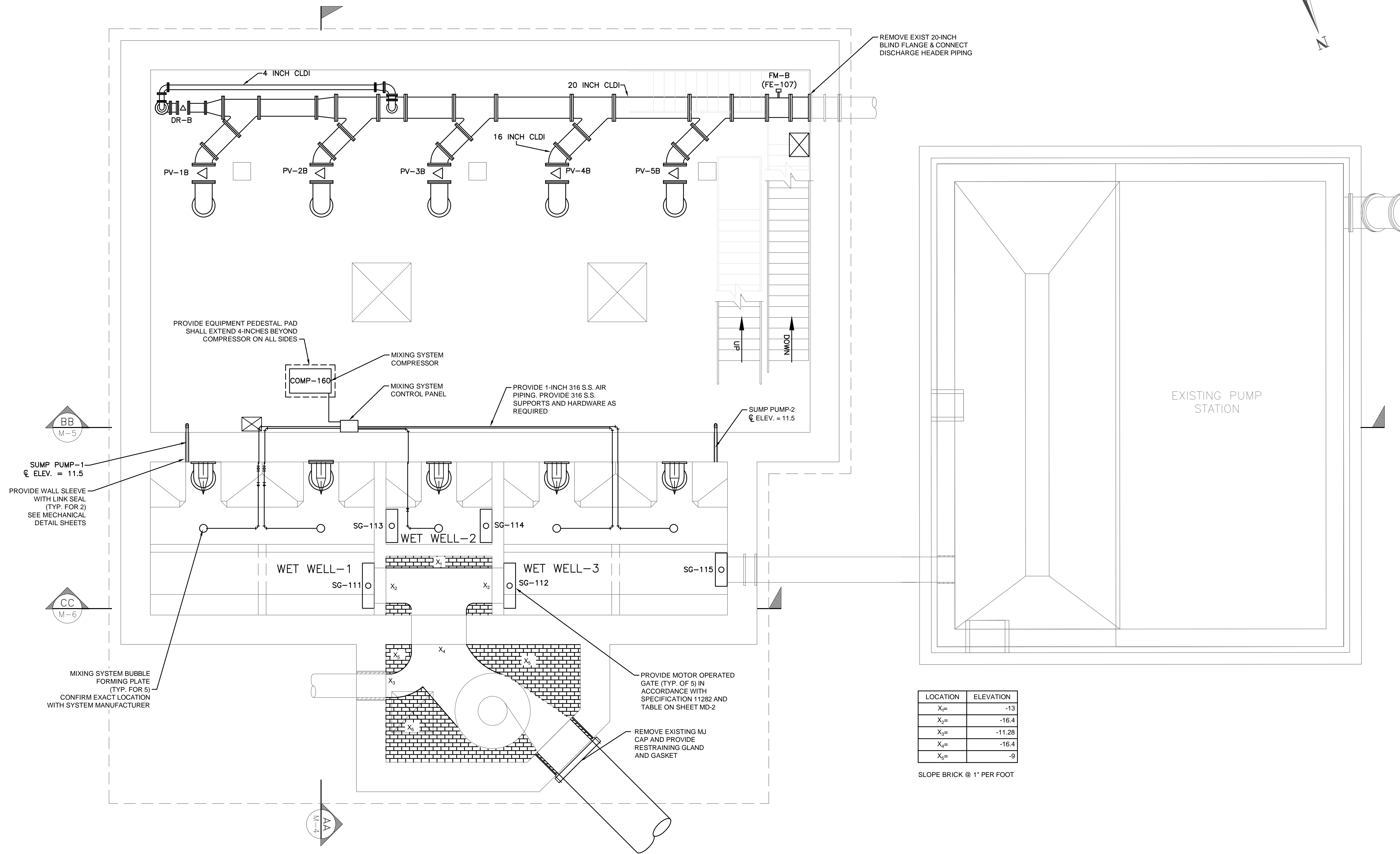
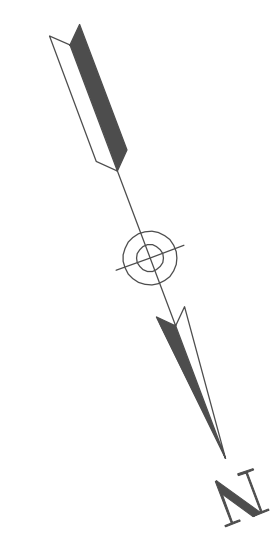
NO.	REVISIONS	DATE

DRAWN BY:	BM
DESIGNED BY:	AJG
CHECKED BY:	CC
ISSUE DATE:	3/29/2021
BETA JOB NO.:	5530

SCALE
AS SHOWN

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Not for Construction

SHEET NO.
M-2

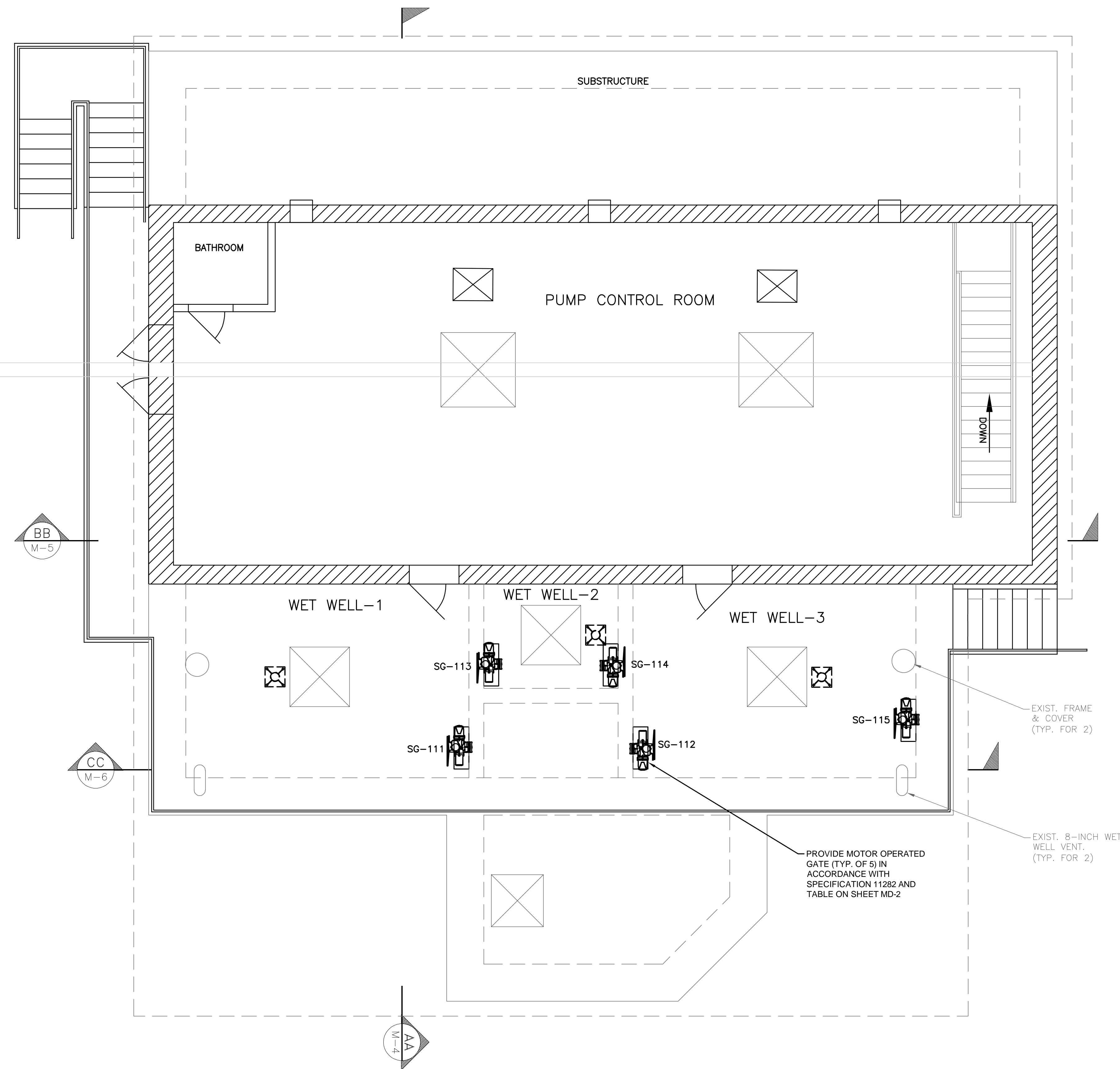


LOCATION	ELEVATION
X ₁ =	-13
X ₂ =	-16.4
X ₃ =	-11.28
X ₄ =	-16.4
X ₅ =	-9

SLOPE BRICK @ 1" PER FOOT

MEZZANINE LEVEL PLAN
SCALE: 1/4" = 1'

1/26/2022 5:20 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCAD\DRAWINGFILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT MECHANICAL - GROUND LEVEL PLAN.DWG



GROUND LEVEL PLAN
SCALE: 1/4" = 1'

PREPARED BY



REGISTERED PROFESSIONAL



Joseph Federico, Jr.

SUBCONSULTANT

PROJECT

**MAIN LIFT
PUMP STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

**GROUND
LEVEL PLAN**

NO.	REVISIONS	DATE

DRAWN BY: BM

DESIGNED BY: AJG

CHECKED BY: CC

ISSUE DATE: 3/29/2021

BETA JOB NO.: 5530

SCALE

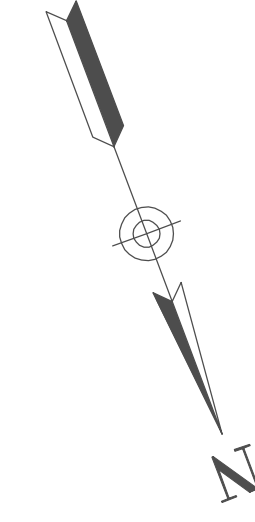
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UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

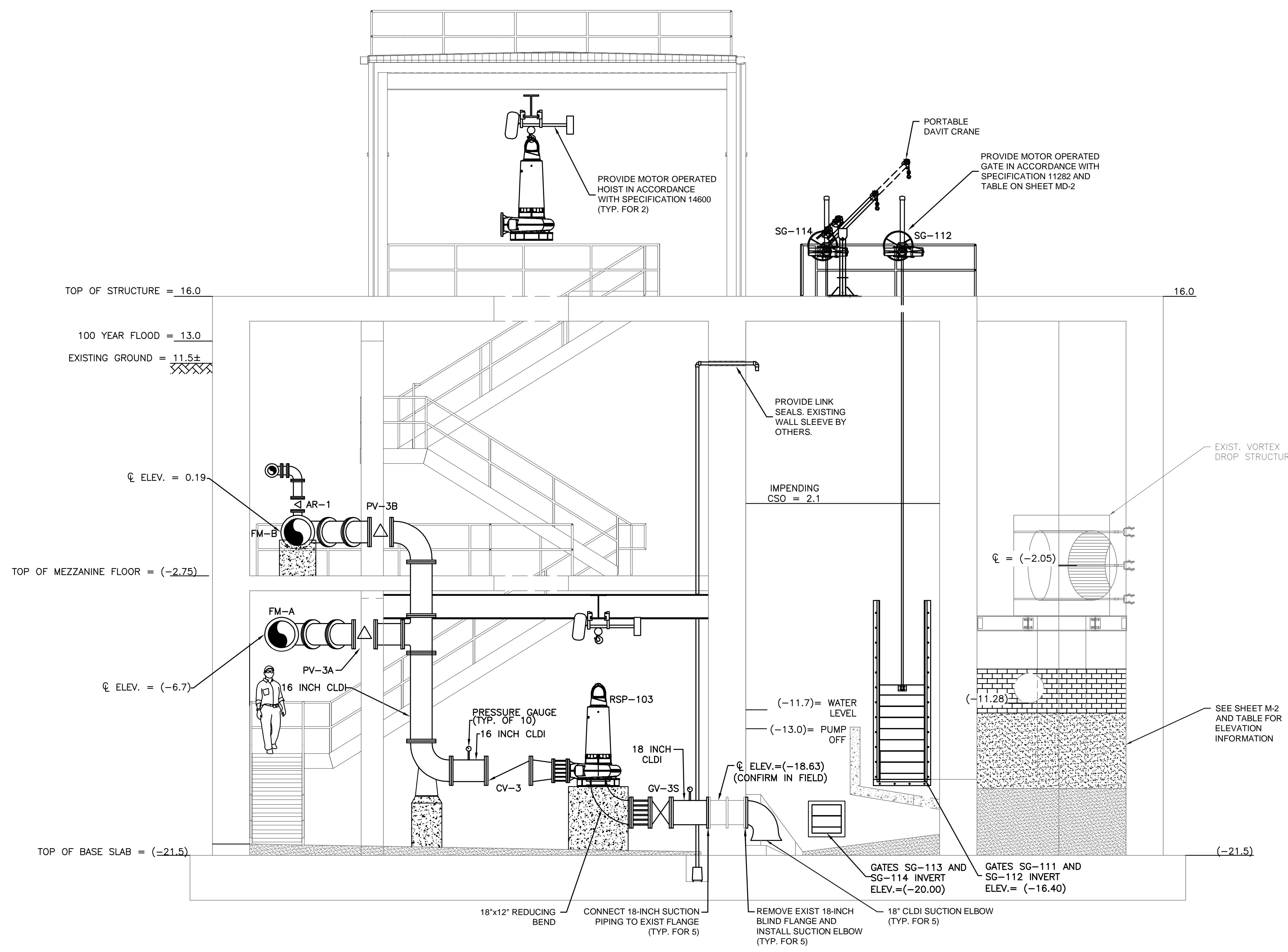
Not for Construction

SHEET NO.

M-3



1/26/2022 9:25 PM J:\TAUNTON\MAIN LIFT PUMP STATION\AUTOCADD\DRAWINGFILES\CONTRACT 3 - MAIN LIFT PS BUILDOUT\CONTRACT\MCHANICAL - SECTIONS.DWG



VORTEX DROP STRUCTURE ELEVATIONS	
DESCRIPTION	ELEV.
48" DI INFLUENT PIPE CL	-2.05
TOP OF BRICK	-9.00
24" DI INFLUENT PIPE INV.	-11.28
TOP OF PROPOSED CONC.	VARIES*
48" INV. OUT	-16.40
TOP OF EXISTING CONC.	-17.07

*PROVIDE MINIMUM 2 COURSES OF BRICK

PROPOSED SECTION AA
SCALE: 1/4" = 1'

NO.	REVISIONS	DATE

DRAWN BY:	BM
DESIGNED BY:	AJG
CHECKED BY:	CC
ISSUE DATE:	3/29/2021
BETA JOB NO.:	5530

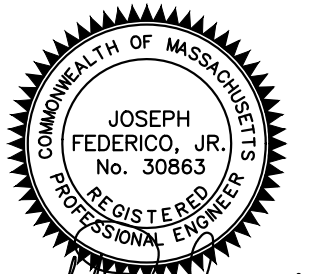
SCALE
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Joseph Federico, Jr.

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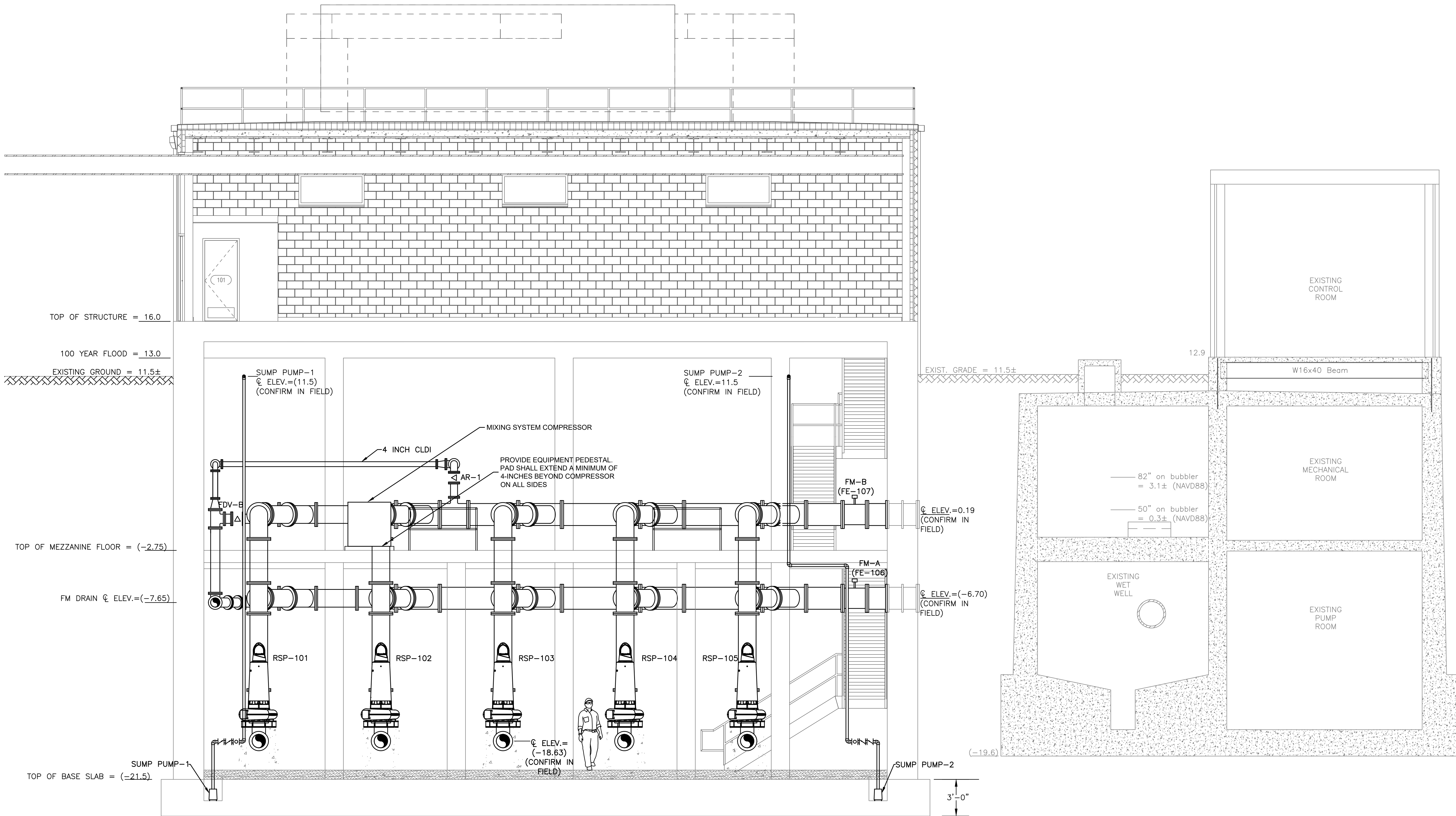
PROJECT

**MAIN LIFT
PUMP STATION
IMPROVEMENTS**

TAUNTON, MA

TITLE

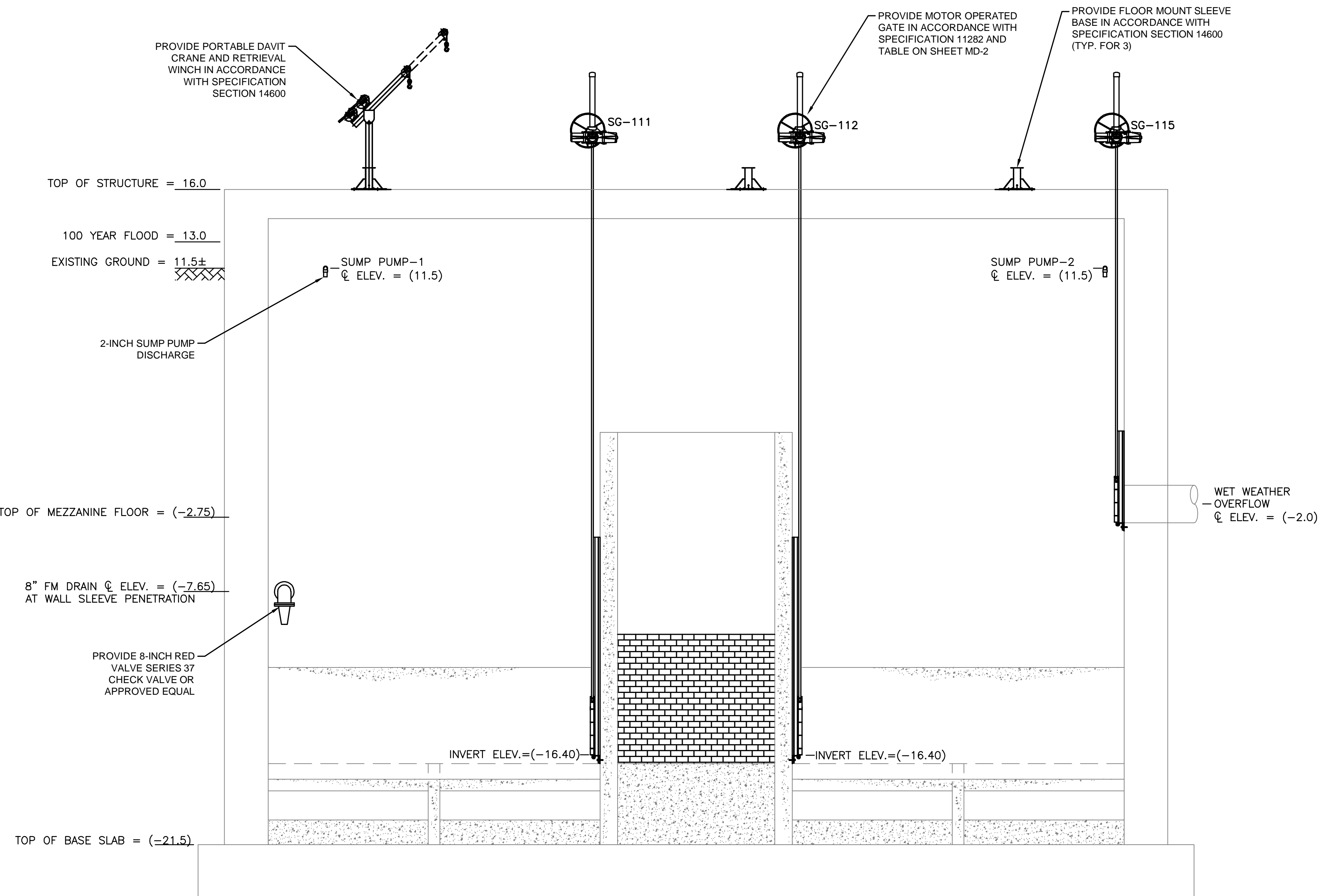
SECTION B-B



PROPOSED SECTION **BB**
SCALE: 1/4" = 1'

NO.	REVISIONS	DATE
DRAWN BY:	BM	
DESIGNED BY:	AJG	
CHECKED BY:	CC	
ISSUE DATE:	3/29/2021	
BETA JOB NO.:	5530	
SCALE	AS SHOWN	
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Not for Construction		
SHEET NO.	M-5	

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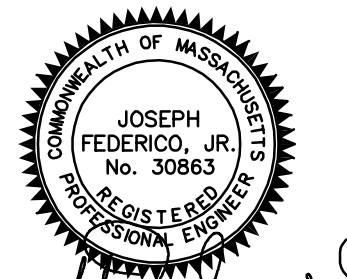


PROPOSED SECTION **CC**
 SCALE: 1/4" = 1' **M-1**

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PROJECT

**MAIN LIFT
 PUMP STATION
 IMPROVEMENTS**

TAUNTON, MA

TITLE

SECTION C-C

NO.	REVISIONS	DATE

DRAWN BY:	BM
DESIGNED BY:	AJG
CHECKED BY:	CC
ISSUE DATE:	3/29/2021
BETA JOB NO.:	5530

SCALE

AS SHOWN

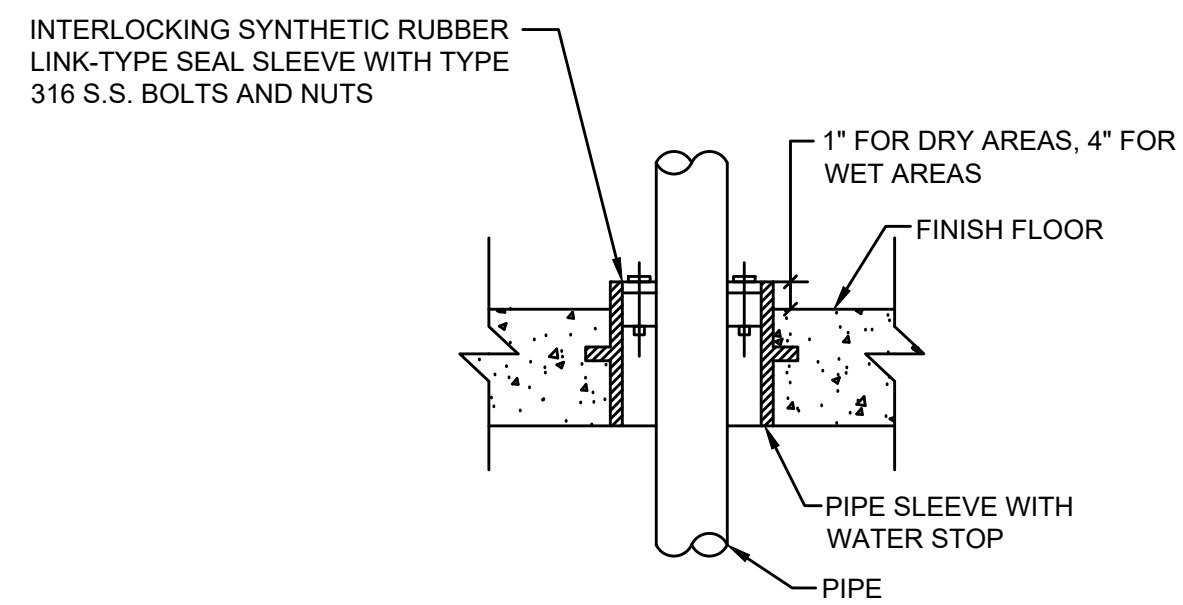
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SHEET NO.

M-6

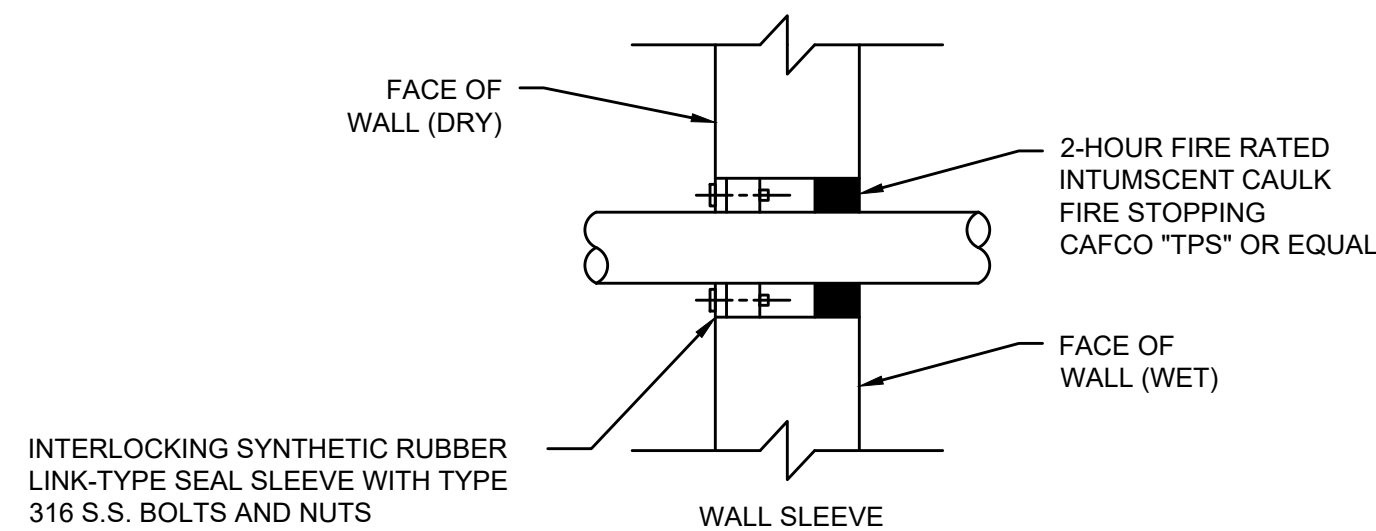
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NOTE: FOR FLOOR SLEEVES, WHERE GASTIGHT OR WATERTIGHT SEALS ARE NOT REQUIRED, THE SEAL MAY BE OMITTED

FLOOR SLEEVE/NEW CONCRETE

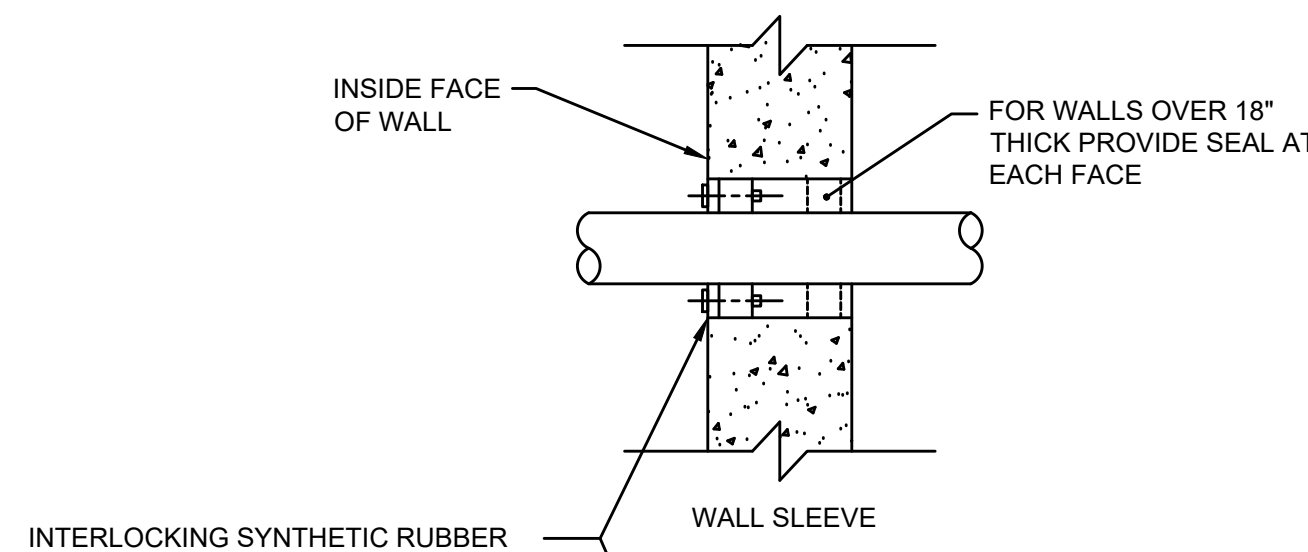
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INTERLOCKING SYNTHETIC RUBBER LINK-TYPE SEAL SLEEVE WITH TYPE 316 S.S. BOLTS AND NUTS

PENETRATION FOR CORED HOLES IN EXISTING WALLS INTO WET AREAS

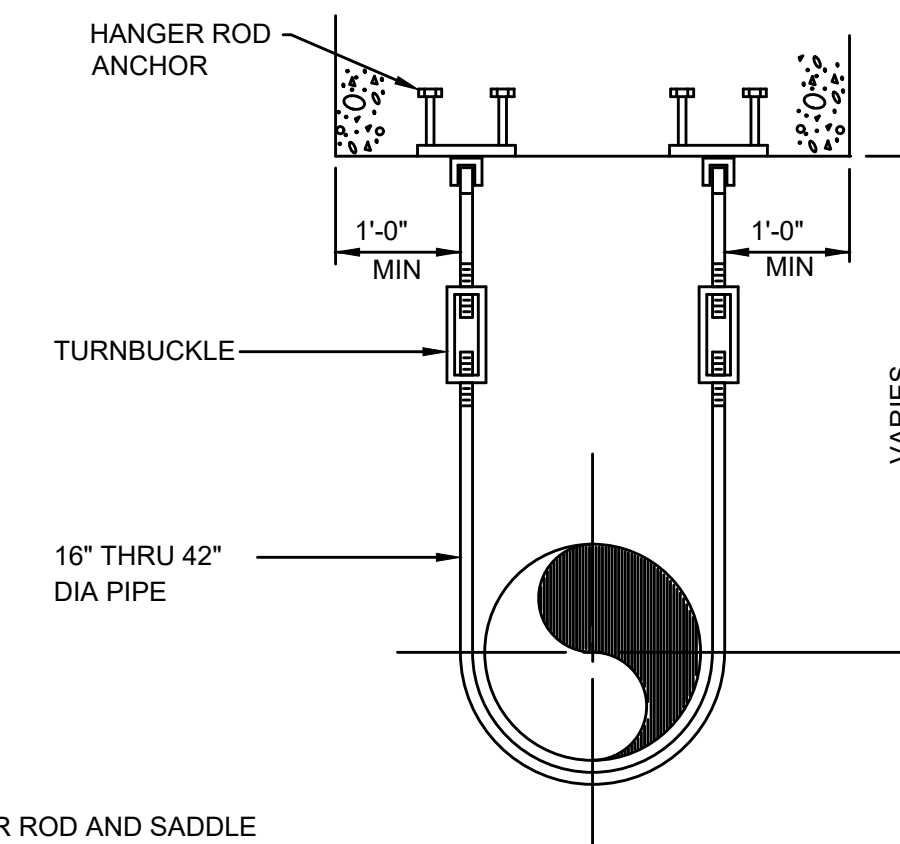
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INTERLOCKING SYNTHETIC RUBBER LINK-TYPE SEAL SLEEVE WITH TYPE 316 S.S. BOLTS AND NUTS

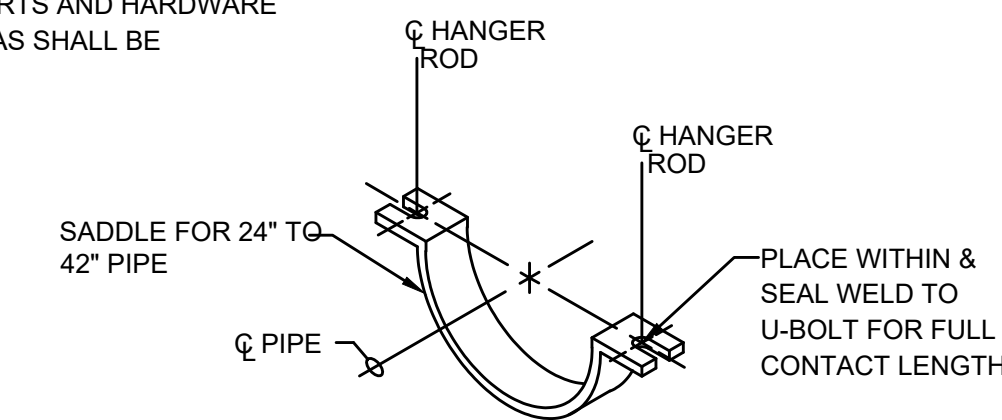
PENETRATION FOR CORED HOLES IN EXISTING WALLS AND DRY AREAS

SCALE: NOT TO SCALE



NOTES:

- HANGER ROD AND SADDLE MATERIAL TO BE STAINLESS STEEL FOR STAINLESS STEEL PIPE
- SPACE HANGERS 12'-0" ON CENTER MAXIMUM.
- PIPE SUPPORTS AND HARDWARE IN WET AREAS SHALL BE 316 S.S.



PIPE HANGER

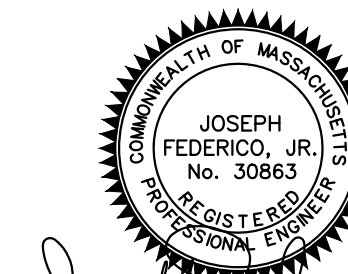
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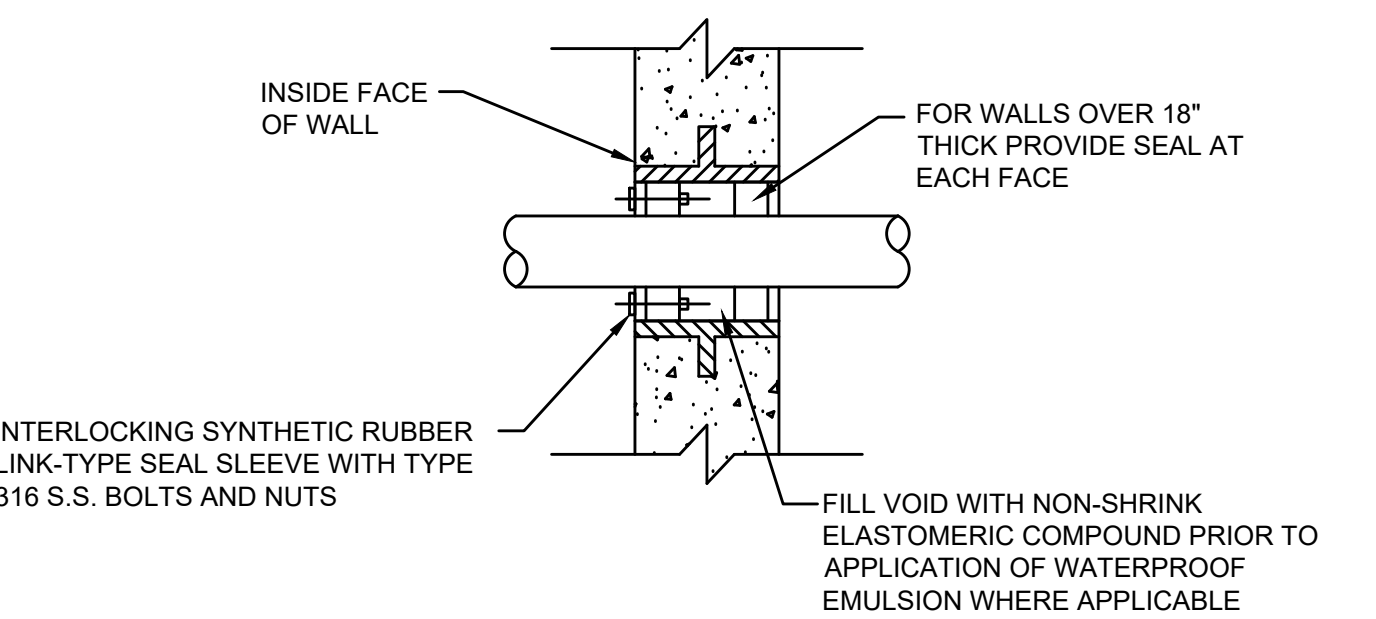
PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

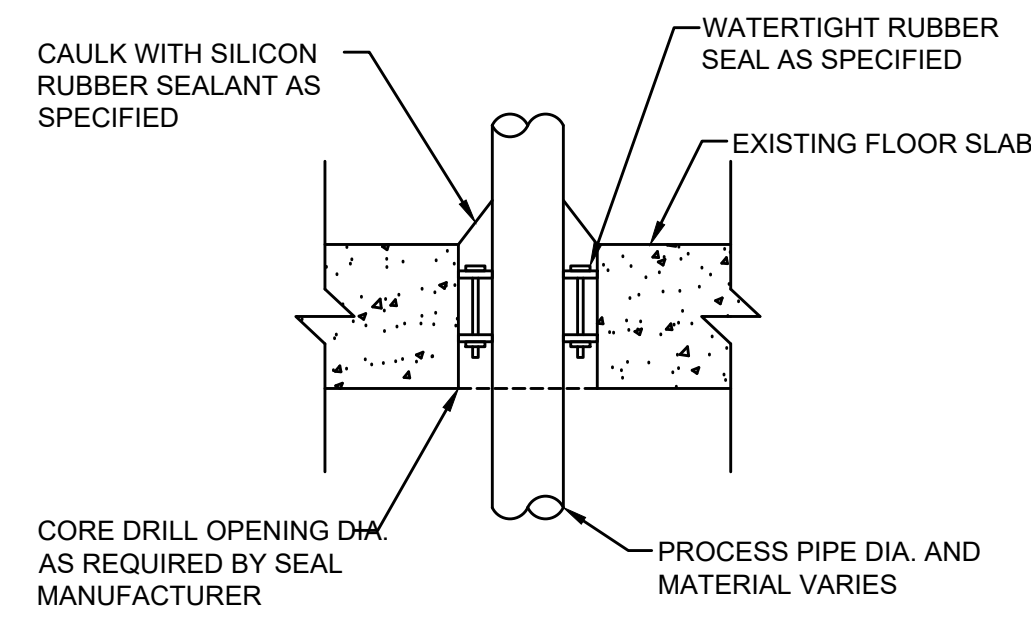
MECHANICAL DETAILS I



INTERLOCKING SYNTHETIC RUBBER LINK-TYPE SEAL SLEEVE WITH TYPE 316 S.S. BOLTS AND NUTS

WALL SLEEVE/NEW CONCRETE

SCALE: NOT TO SCALE

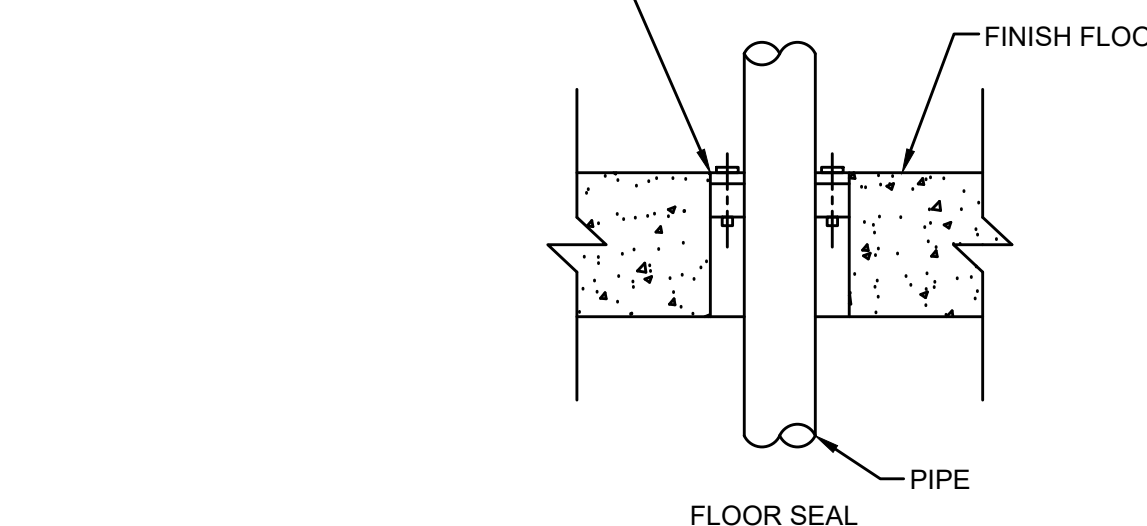


CAULK WITH SILICON RUBBER SEALANT AS SPECIFIED

CORE DRILL OPENING DIA. AS REQUIRED BY SEAL MANUFACTURER

FLOOR PENETRATION FOR CORED HOLES IN WET AREAS

SCALE: NOT TO SCALE



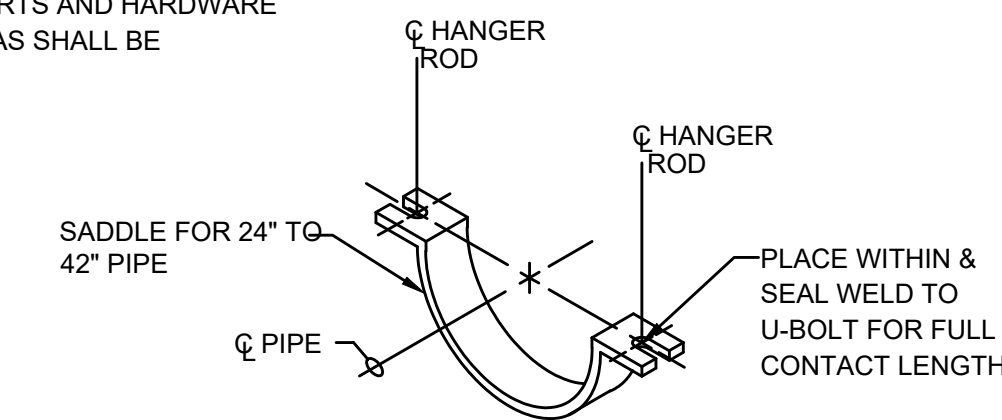
INTERLOCKING SYNTHETIC RUBBER LINK-TYPE SEAL SLEEVE WITH TYPE 316 S.S. BOLTS AND NUTS

PENETRATION FOR CORED HOLES IN EXISTING WALLS AND DRY AREAS

SCALE: NOT TO SCALE

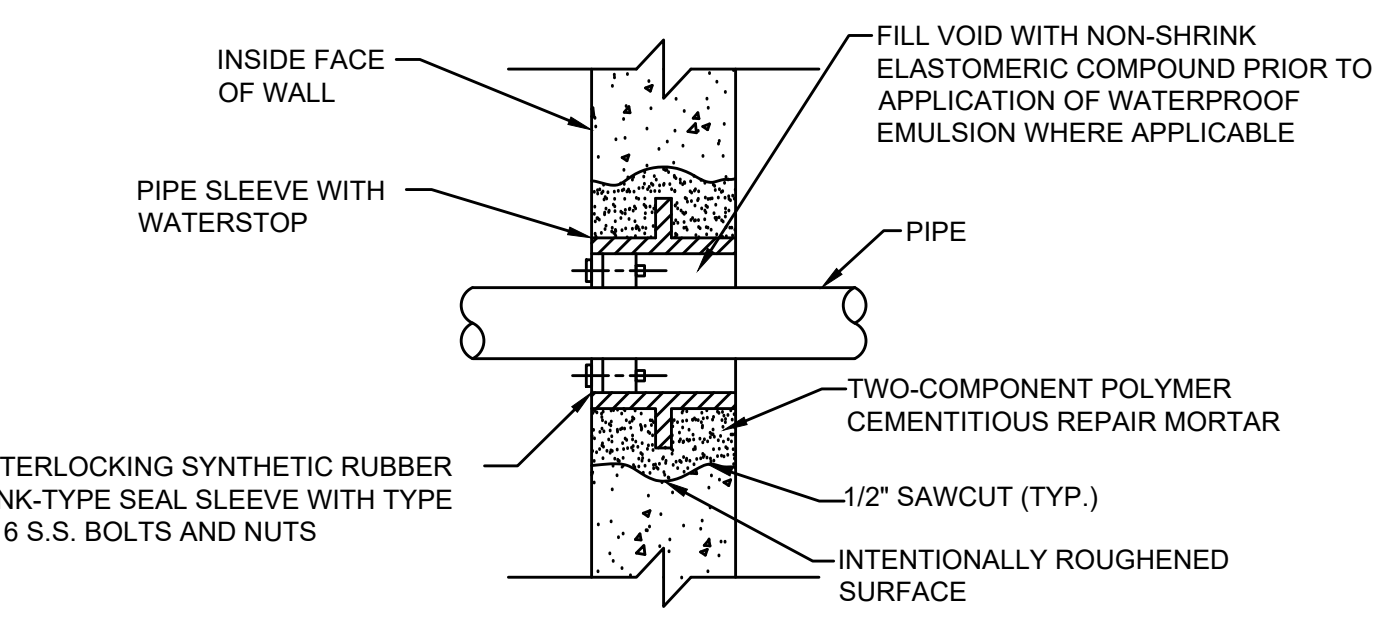
NOTES:

- HANGER ROD AND SADDLE MATERIAL TO BE STAINLESS STEEL FOR STAINLESS STEEL PIPE
- SPACE HANGERS 12'-0" ON CENTER MAXIMUM.
- PIPE SUPPORTS AND HARDWARE IN WET AREAS SHALL BE 316 S.S.



PIPE HANGER

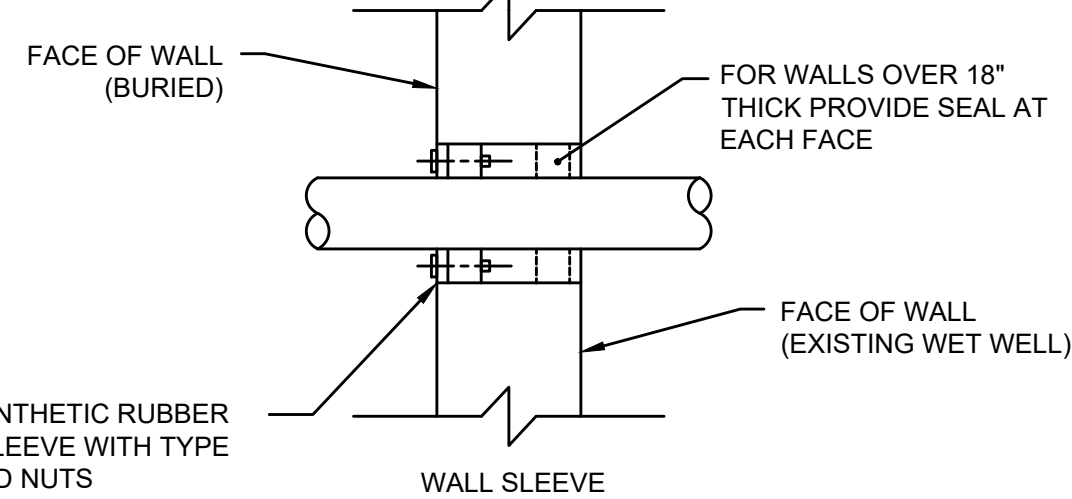
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INTERLOCKING SYNTHETIC RUBBER LINK-TYPE SEAL SLEEVE WITH TYPE 316 S.S. BOLTS AND NUTS

WALL SLEEVE/EXISTING WALL

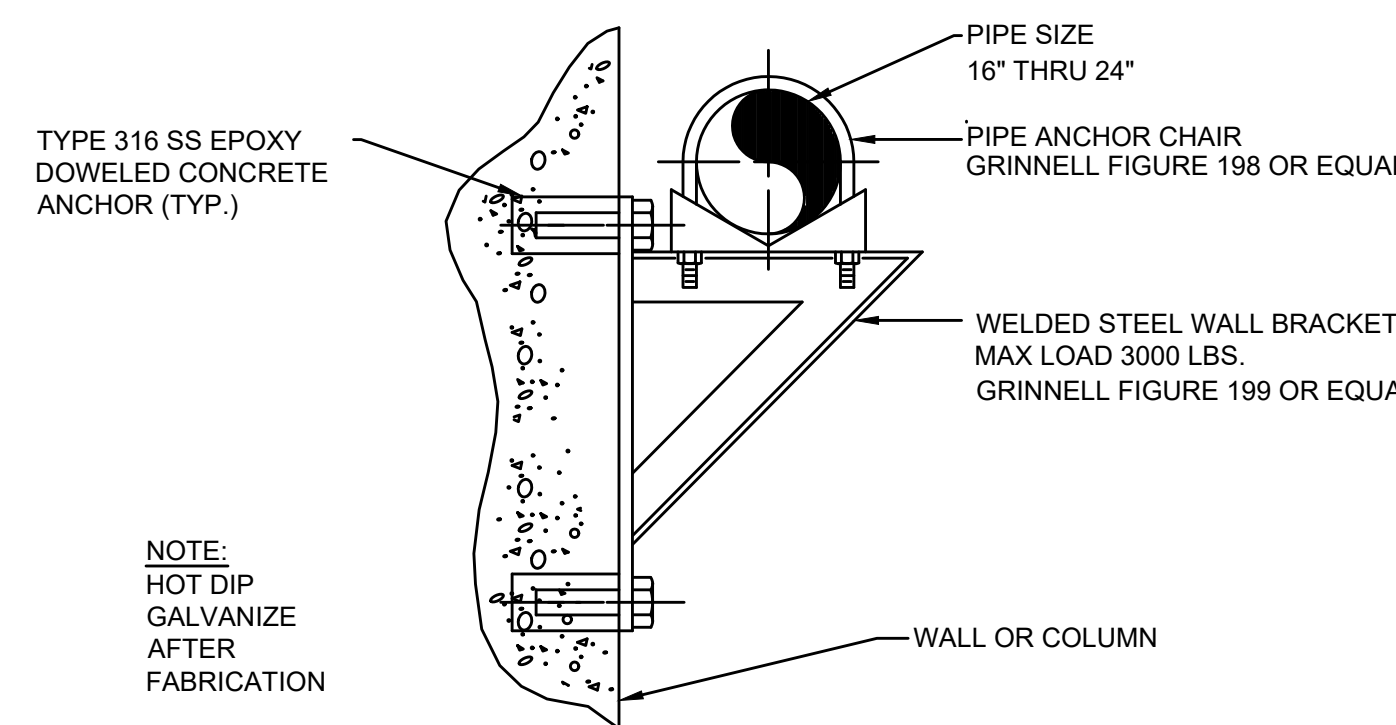
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INTERLOCKING SYNTHETIC RUBBER LINK-TYPE SEAL SLEEVE WITH TYPE 316 S.S. BOLTS AND NUTS

PENETRATION FOR CORED HOLES IN EXISTING WALLS INTO EXISTING WET WELL

SCALE: NOT TO SCALE

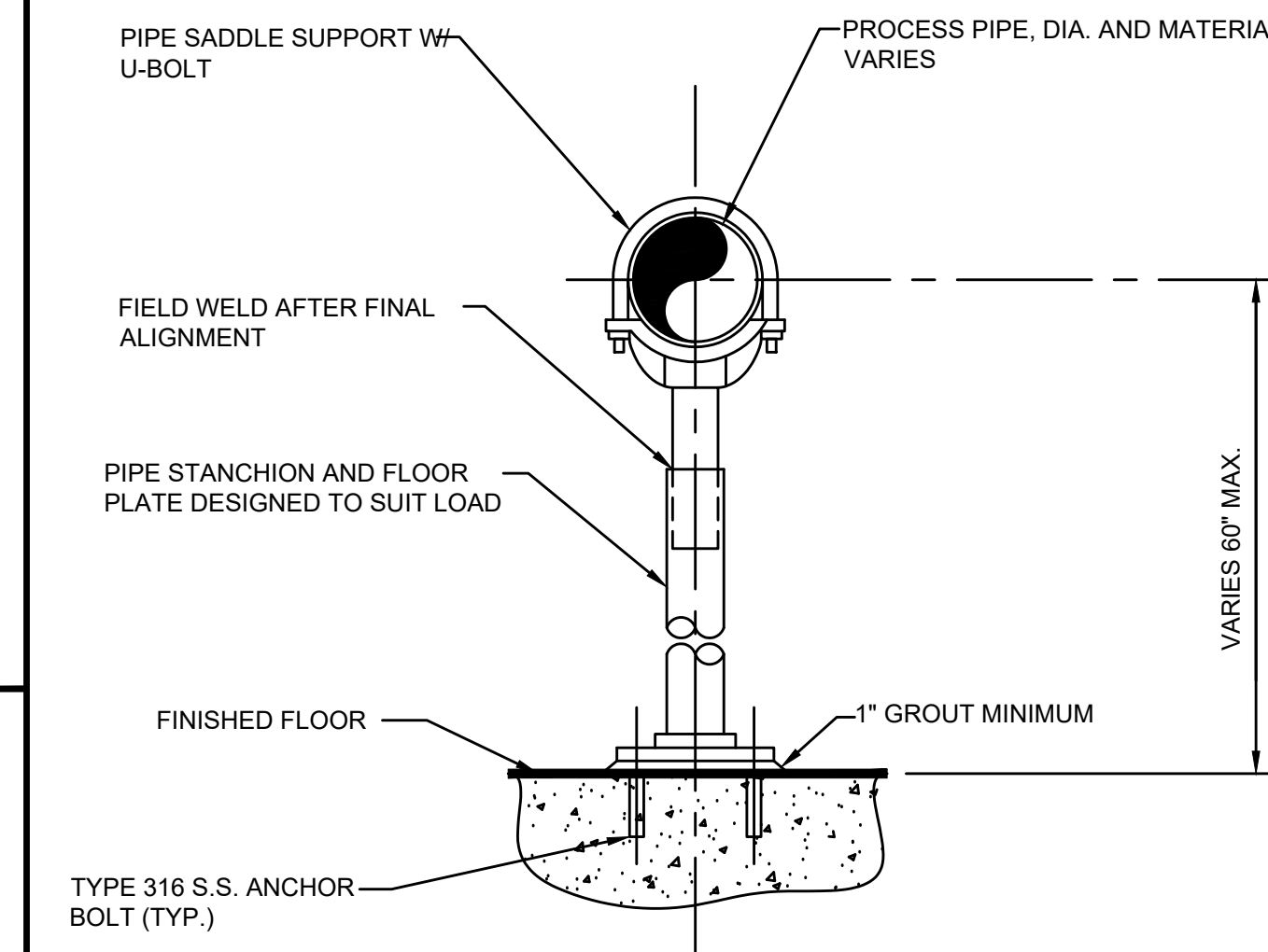


TYPE 316 SS EPOXY DOWELED CONCRETE ANCHOR (TYP.)

NOTE: HOT DIP GALVANIZE AFTER FABRICATION

PIPE SUPPORT-HEAVY

SCALE: NOT TO SCALE



TYPE 316 S.S. ANCHOR BOLT (TYP.)

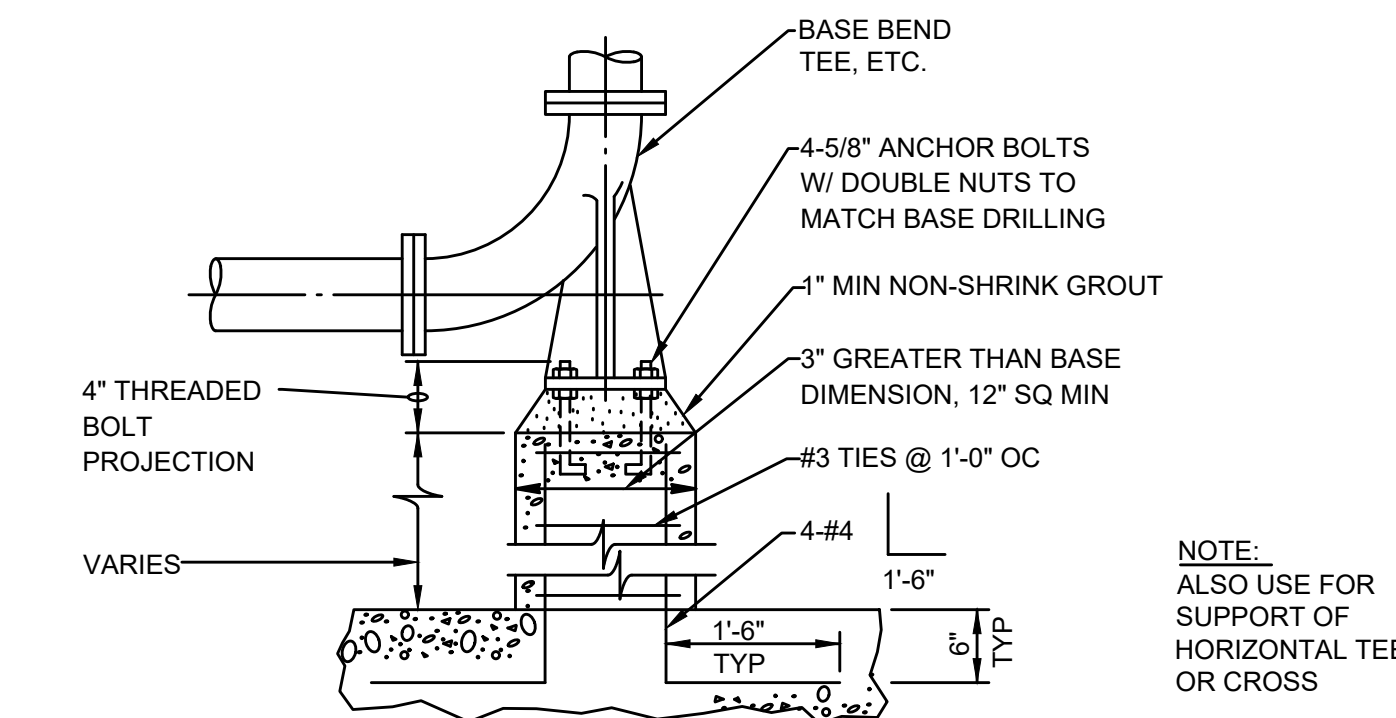
NOTES:

- PROVIDE HALF-ROUND RIGID INSULATION WAND INSULATION SHIELD FOR INSULATED PIPING.
- PROVIDE NEOPRENE ISOLATION PAD UNDER SUPPORT FOOT FOR ISOLATED PIPING OR WHEN SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT.
- PIPE SUPPORTS AND HARDWARE IN WET AREAS SHALL BE 316 S.S.

GRINNELL FIGURE 259 OR EQUAL

FLOOR PIPE SUPPORT

SCALE: NOT TO SCALE



4" THREADED BOLT PROJECTION

VARIES

NOTE: ALSO USE FOR SUPPORT OF HORIZONTAL TEE OR CROSS

BASE BEND

SCALE: NOT TO SCALE

NO. REVISIONS DATE

DRAWN BY: BM

DESIGNED BY: A/J

CHECKED BY: CC

ISSUE DATE: 3/29/2021

BETA JOB NO.: 5530

SCALE

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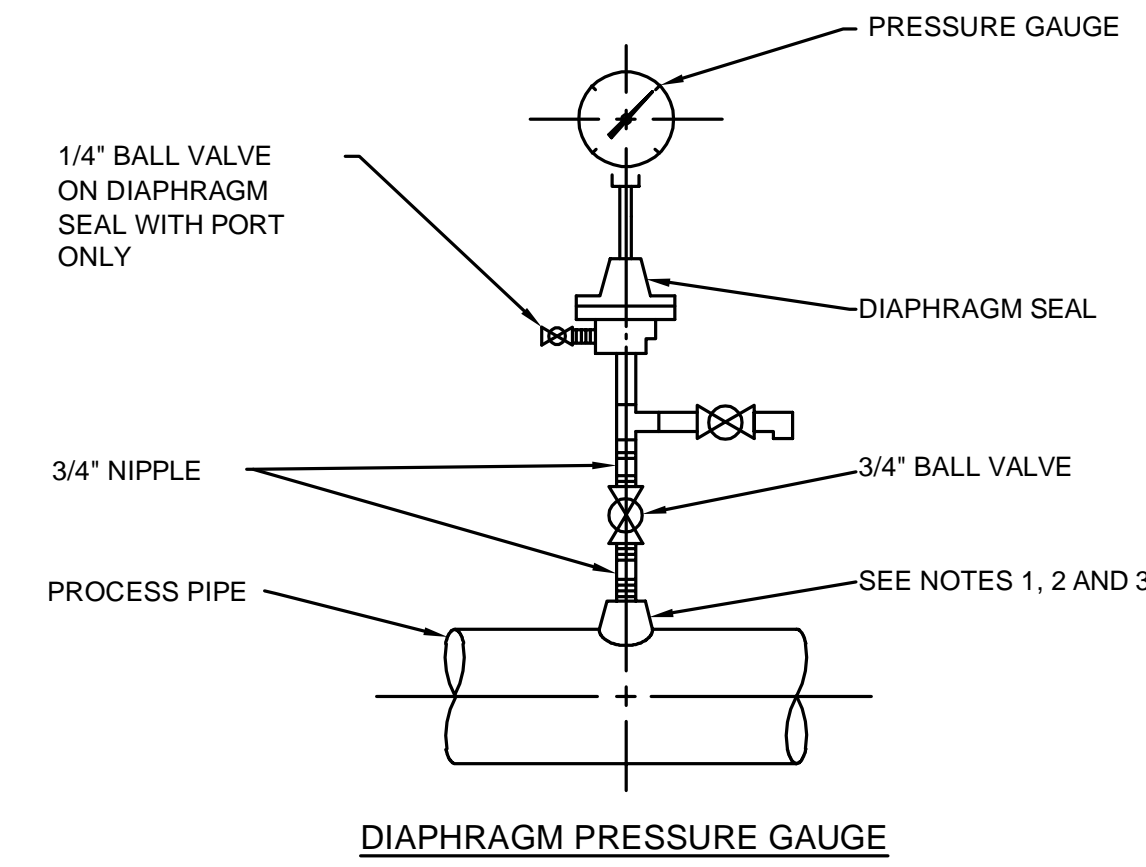
SHEET NO.

MD-1

PUMP SCHEDULE										
PUMP TAG	PUMPS CONFIGURATION	NO. REQUIRED	CAPACITY		MOTOR		DISCHARGE SIZE (IN.)	TYPE	MINIMUM EFFICIENCY AT DESIGN POINT (%)	SHUT OFF HEAD, (FT)
			FLOW, GPM	TDH (FT)	POWER	PUMP SPEED, (RPM)				
RSP-101 TO RSP-105	SINGLE PUMP OPERATION	5	4,700 PER PUMP	59	115 HP	1,200	12-INCH	DRY PIT SUBMERSIBLE	74%	124

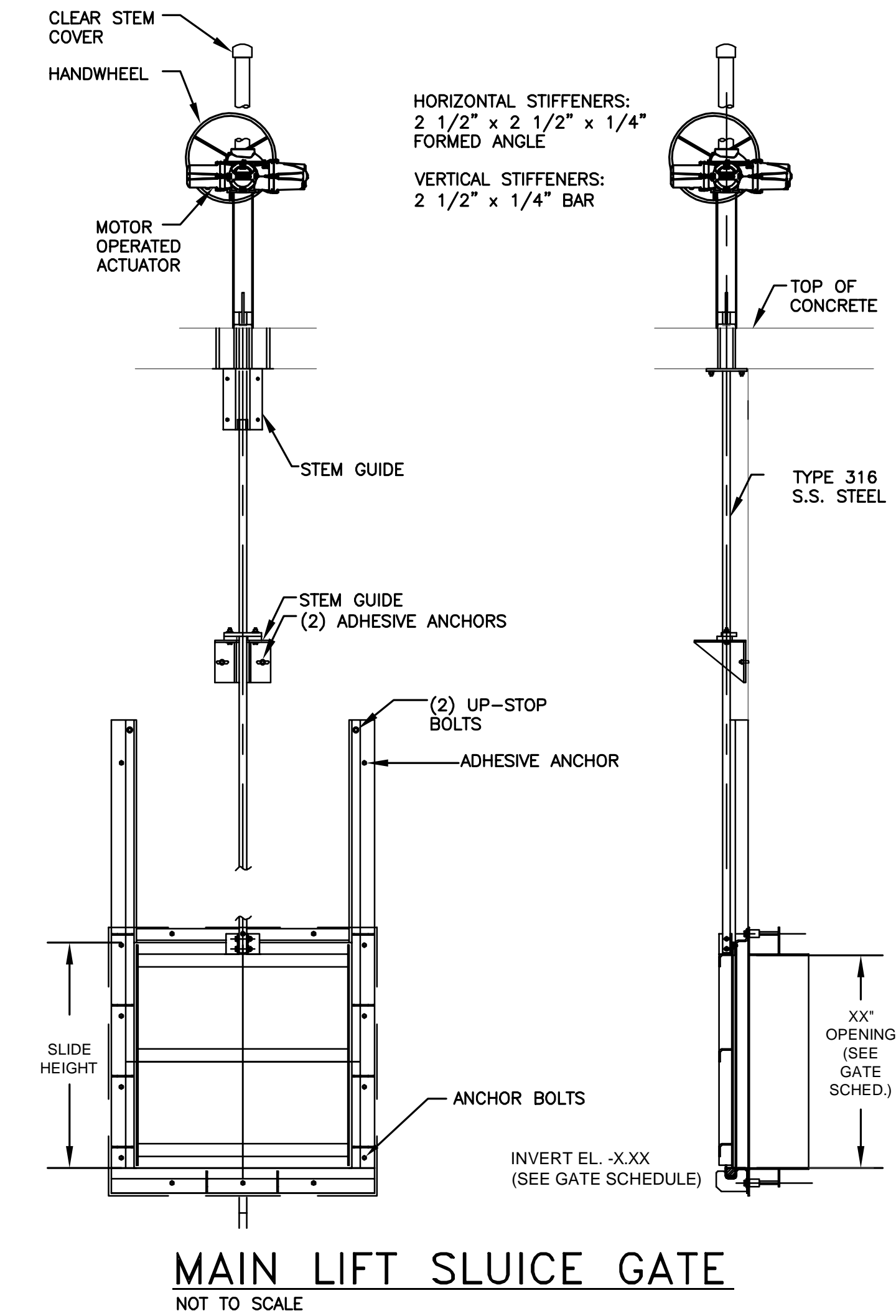
VALVE SCHEDULE PUMP STATION SITE							
VALVE TAG	NO. REQUIRED	VALVE TYPE	SIZE	MATERIAL	ACTUATOR	LOCATION	CONNECTION
CV-1 TO CV-5	5	SWING CHECK	16	CAST IRON	WEIGHTED LEVER	BASEMENT LEVEL	FL X FL
GV-1S TO GV-5S	5	GATE VALVE	18	DUCTILE IRON	MANUAL	BASEMENT LEVEL	FL X FL
PV-1A TO PV-5A	5	PLUG VALVE	16	CAST IRON	MANUAL	BASEMENT LEVEL	FL X FL
PV-1B TO PV-5B	5	PLUG VALVE	16	CAST IRON	MANUAL	MEZZANINE LEVEL	FL X FL
AR-1	1	PLUG VALVE	6	CAST IRON	MANUAL	MEZZANINE LEVEL	FL X FL
DR-A & DR-B	2	PLUG VALVE	8	CAST IRON	MANUAL	MEZZANINE & BASEMENT	FL X FL

GATE SCHEDULE								
GATE TAG	TYPE	CHANNEL WIDTH (IN)	GATE HEIGHT (IN)	GATE MATERIAL	MOUNTING TYPE	OPERATOR	OPENING INVERT ELEV. (FT)	OPERATING FLOOR ELEV. (FT)
SG-111	SELF CONTAINED RISING STEM	36	72	316 SS	WALL MOUNTED	MOTOR	(-16.40)	16.0
SG-112	SELF CONTAINED RISING STEM	36	72	316 SS	WALL MOUNTED	MOTOR	(-16.40)	16.0
SG-113	SELF CONTAINED RISING STEM	24	24	316 SS	WALL MOUNTED	MOTOR	(-20.00)	16.0
SG-114	SELF CONTAINED RISING STEM	24	24	316 SS	WALL MOUNTED	MOTOR	(-20.00)	16.0
SG-115	SELF CONTAINED RISING STEM	24	24	316 SS	WALL MOUNTED	MOTOR	(-3.00)	16.0



- NOTES:
- FOR STEEL, GALVANIZED STEEL, AND PVC 2 1/2" AND SMALLER USE A BUSHING IN A TEE.
 - FOR DUCTILE IRON AND FIBERGLASS REINFORCED PLASTIC PIPE, ALL SIZES, USE PIPE SADDLE WITH BUSHING.
 - FOR STEEL AND STAINLESS STEEL PIPES 3" AND LARGER, AND PRESSURE VESSELS, USE THRED-O-LET AS SHOWN.
 - PROVIDE SNUBBER FOR POSITIVE DISPLACEMENT PUMP INSTALLATIONS.
 - FOR WASTEWATER, SLUDGE, SCUM AND GRIT PIPING UTILIZE THE DIAPHRAGM PRESSURE GAUGE.

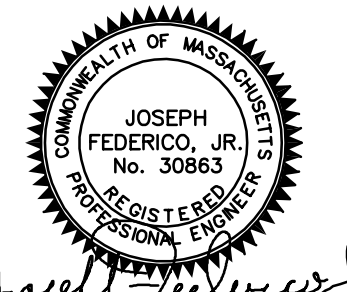
PRESSURE GAUGE MOUNTING DETAILS
SCALE: NOT TO SCALE



MAIN LIFT SLUICE GATE
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PROJECT

MAIN LIFT PUMP STATION IMPROVEMENTS

TAUNTON, MA

TITLE

MECHANICAL DETAILS II

NO.	REVISIONS	DATE

DRAWN BY:	BM
DESIGNED BY:	AJG
CHECKED BY:	CC
ISSUE DATE:	3/29/2021
BETA JOB NO.:	5530

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SHEET NO.
MD-2

1/21/2022 10:14 AM W:\YEAR_2017\7203.00 - TAUNTON MAIN LIFT PUMP STATION\HVAC DEPARTMENT\7203.00\HVAC PLAN.DWG

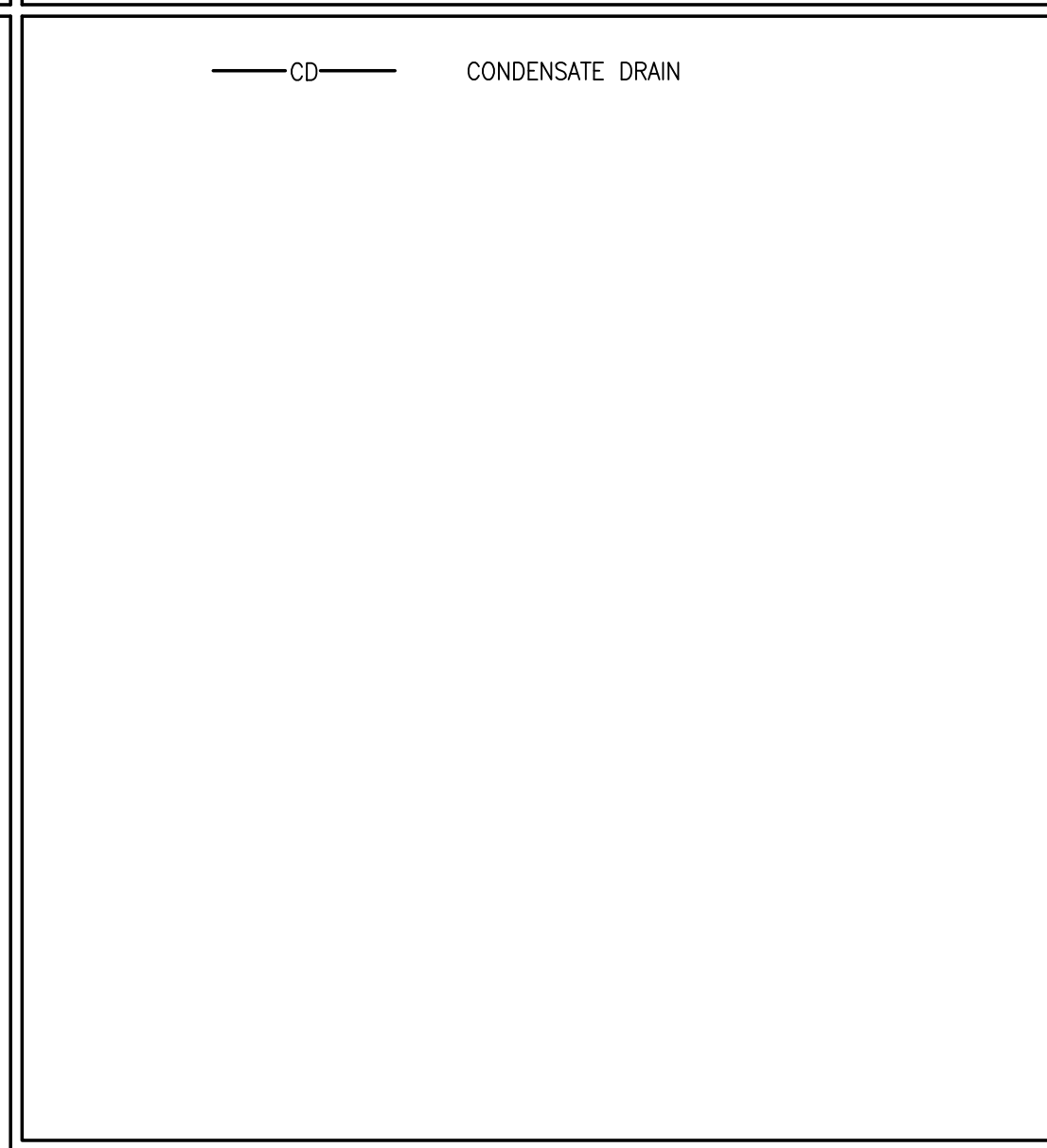
GENERAL NOTES

- 1. HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EXISTING DUCTS, PIPING OR EQUIPMENT INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. EXACT LOCATIONS MUST HAVE THE APPROVAL OF THE ARCHITECT.
2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES BEFORE ANY INSTALLATION IS MADE.
3. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH STATE CODES, MANUFACTURER'S APPROVED PUBLISHED LITERATURE, AND AUTHORITIES HAVING JURISDICTION.
4. INSTALLATION OF EQUIPMENT SHALL PERMIT ACCESSIBILITY FOR SERVICE AND/ OR REPLACEMENT.
5. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.
6. HVAC CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.
7. ALL DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS.
8. PROVIDE VOLUME DAMPERS AT EVERY MAIN BRANCH TAKE-OFF AND AS INDICATED AND IN SUCH OTHER LOCATIONS WHERE REQUIRED TO PROPERLY BALANCE THE SYSTEM. DO NOT INSTALL VOLUME DAMPERS IN NECKS OF DIFFUSERS OR AT DISCHARGE OR INLET GRILLES IN DUCTWORK.
9. PROVIDE INSTRUMENT TEST HOLES WITH CAPS IN AIR DISTRIBUTION SYSTEMS AS REQUIRED TO BALANCE SYSTEM.
10. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHEETMETAL TRANSITIONS AT AIR TERMINAL UNITS, FANS, COILS, AND OTHER SIMILAR HVAC EQUIPMENT.
11. ALL OPEN ENDED DUCTS IN THE CEILING PLENUM SHALL BE UNOBSTRUCTED FOR A MINIMUM DISTANCE OF 24" FROM THE OPENING TO ALLOW FREE AIR FLOW AND SHALL HAVE 3/4" WIRE MESH SCREENING.
12. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATION SHALL BE PROVIDED BY HVAC SUBCONTRACTOR.
13. EXACT LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS TO BE DETERMINED BY ARCHITECTURAL REFLECTED CEILING PLAN.
14. INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRES PIPING TO BE ABOVE.
15. EXACT ELEVATION FOR SIDE WALL DIFFUSERS, REGISTERS AND GRILLES SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
16. UNLESS OTHERWISE NOTED, ALL PIPING RUNOUTS SHALL BE 3/4"
17. ALL EXPOSED EQUIPMENT (REGISTERS, UNIT HEATERS, ETC..) SHALL HAVE COLORS SELECTED BY THE ARCHITECT, UNLESS NOTED OTHERWISE.
18. HVAC SUBCONTRACTOR SHALL BLANK OFF AND INSULATE ALL UNUSED LOUVER AREA.
19. PITCH AIR INTAKE PLENUMS AND PROVIDE DRAIN TO NEAREST FLOOR DRAIN.
20. ALL REGISTERS, GRILLES AND DIFFUSERS LOCATED IN WALLS NEAR FLOOR SHALL BE HEAVY-DUTY TYPE DESIGNED TO WITHSTAND RUGGED IMPACT. REFER TO SCHEDULE. THE SECTION OF DUCTWORK BEHIND THE AIR DEVICE SHALL BE PAINTED FLAT BLACK.
21. EXACT LOCATION OF THERMOSTAT TO BE COORDINATED WITH FINAL LOCATION OF WALL MOUNTED ARCHITECTURAL AND ELECTRICAL EQUIPMENT.
22. PROVIDE FLEXIBLE CONNECTOR ON INTAKES AND DISCHARGES OF ALL AIR HANDLING UNITS.
23. ROOF OPENINGS SHALL BE SIZED FROM APPROVED SHOP DRAWINGS.
24. ALL DAMPER MOTORS SHALL BE 24 VOLT.

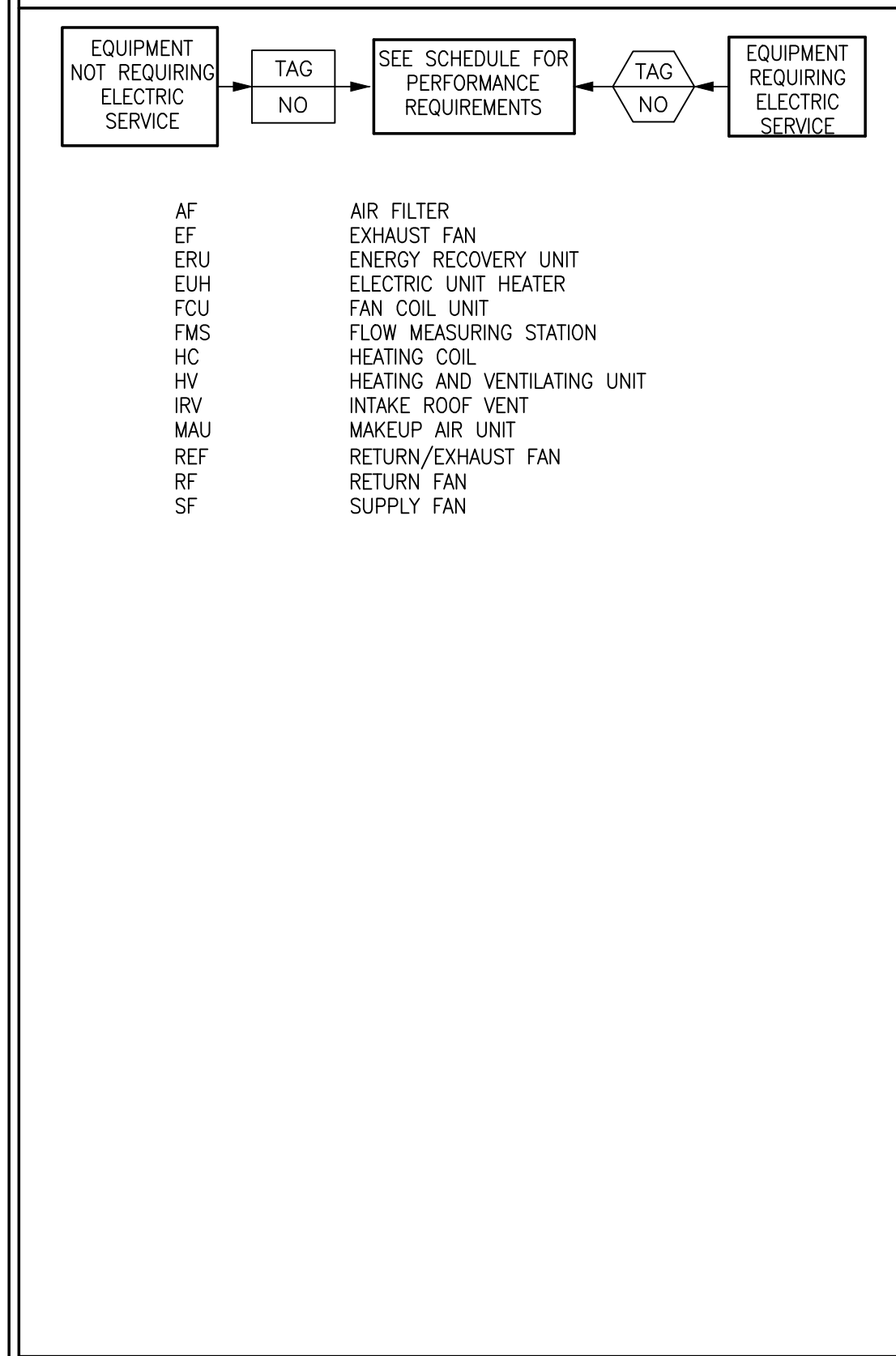
ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like ACD (AUTOMATIC CONTROL DAMPER), AD (ACCESS DOOR), AFF (ABOVE FINISHED FLOOR), AHAP (AS HIGH AS POSSIBLE), AP (ACCESS PANEL), ARCH (ARCHITECT), ATC (AUTOMATIC TEMPERATURE CONTROL), BDD (BACKDRAFT DAMPER), BTU (BRITISH THERMAL UNIT), BTUH (BRITISH THERMAL UNIT PER HOUR), BOD (BOTTOM OF DUCT), CAP (CAPACITY), CD (CEILING DIFFUSER), CFM (CUBIC FEET PER MINUTE), CO (CLEANOUT), CONT (CONTROLLER), CUT AND CAP (CUT AND CAP), DIA (DIAMETER), DB (DRY BULB TEMPERATURE), DC (DUST COLLECTOR), DDC (DIRECT DIGITAL CONTROL), DN (DOWN), DWG (DRAWING), DX (DIRECT EXPANSION COOLING), EA (EXHAUST AIR), EAT (ENTERING AIR TEMPERATURE), EBB (ELECTRIC BASEBOARD RADIATION), ECH (ELECTRIC CABINET HEATER), ECON (AIR-SIDE ECONOMIZER), EF (EXHAUST FAN), EFF (EFFICIENCY), ELV (ELEVATION), ER (EXHAUST REGISTER), ESP (EXTERNAL STATIC PRESSURE), ETR (EXISTING TO REMAIN), EWT (ENTERING WATER TEMPERATURE), EXH (EXHAUST), FA (FREE AREA), FD (FIRE DAMPER), FLA (FULL LOAD AMPS), FOB (FLAT ON BOTTOM), FOT (FLAT ON TOP), FPI (FINS PER INCH), FPM (FEET PER MINUTE), FT (FEET), FTR (FINNED TUBE RADIATION), GAL (GALLONS), GALV (GALVANIZED), GC (GENERAL CONTRACTOR), GF (GLYCOL FEED), GPM (GALLONS PER MINUTE), HP (HORSEPOWER), HVAC (HEATING, VENTILATING AND AIR CONDITIONING), HGRH (HOT GAS REHEAT), HW (HOT WATER), HZ (HERTZ), IN (INCHES), KE (KITCHEN EXHAUST), KW (KILOWATTS), LAT (LEAVING AIR TEMPERATURE), LD (LINEAR DIFFUSER), LF (LINEAR FEET), LWT (LEAVING WATER TEMPERATURE), MBH (THOUSANDS OF BTU'S PER HOUR), MCC (MOTOR CONTROL CENTER), NC (NORMALLY CLOSED), NIC (NOT IN CONTRACT), NO (NORMALLY OPEN), NTS (NOT TO SCALE), OA (OUTSIDE AIR), OAT (OUTSIDE AIR TEMPERATURE), OBD (OPPOSED BLADE DAMPER), OD (OUTSIDE DIAMETER), OED (OPEN ENDED DUCT), POS (PROVIDED UNDER OTHER SECTIONS), PSI (POUNDS PER SQUARE INCH (GAUGE)), PD (PRESSURE DROP), PRV (PRESSURE REDUCING VALVE), PG (PROPYLENE GLYCOL), R (RETURN), RA (RETURN AIR), RB (REBALANCE), RF (RETURN/EXHAUST FAN), RG (RETURN GRILLE), RM (ROOM), RPM (REVOLUTIONS PER MINUTE), RR (RETURN REGISTER), S (SUPPLY), SA (SUPPLY AIR), SAT (SUPPLY AIR TEMPERATURE), SF (SQUARE FEET, SUPPLY FAN), SP (STATIC PRESSURE), SR (SUPPLY REGISTER), SS (STAINLESS STEEL), STL (STEEL), TYP (TYPICAL), UC (UNDERCUT DOOR), V (VOLTS), VAV (VARIABLE AIR VOLUME), VD (VOLUME DAMPER), VFD (VARIABLE FREQUENCY DRIVE), W/ (WITH), W/O (WITHOUT), WB (WET BULB TEMPERATURE), WG (WATER GAUGE), WMS (WIRE MESH SCREEN).

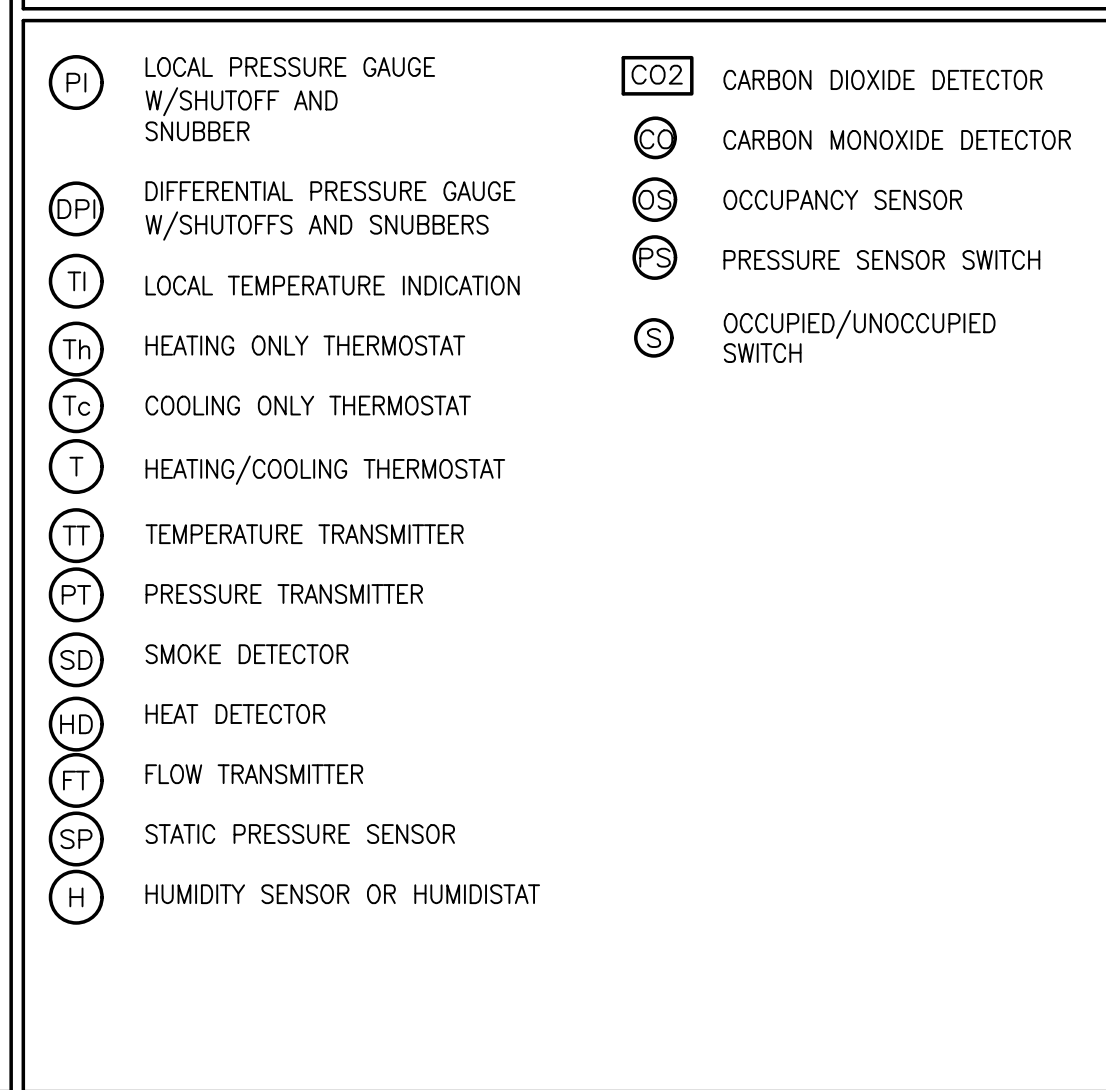
PIPING LEGEND



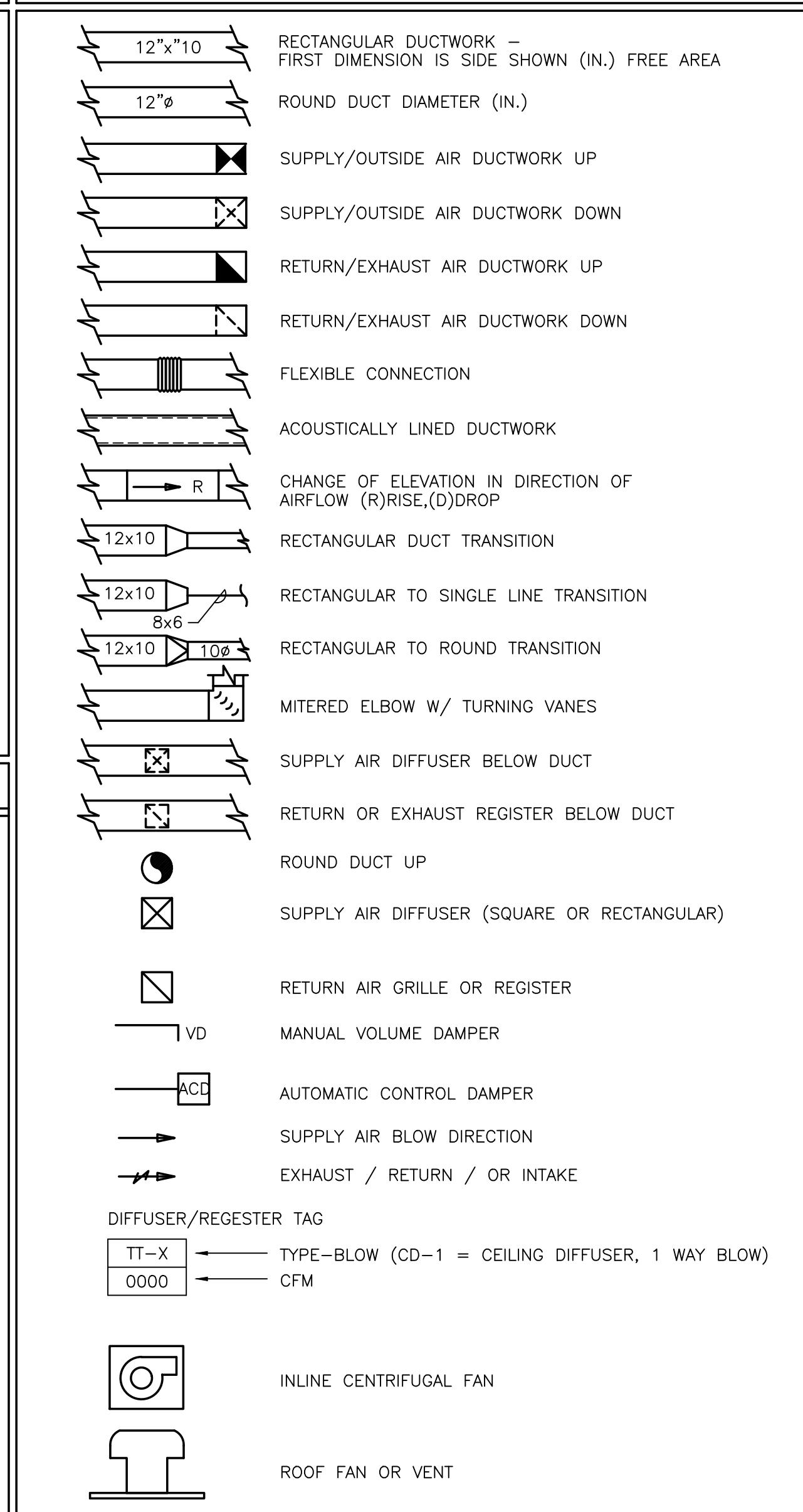
EQUIPMENT TAG SYMBOLS & ABBREVIATIONS



INSTRUMENTATION



DUCTWORK LEGEND/SYMBOLS



SEQUENCE OF OPERATION

- 1. ERV-1: SEE SPECIFICATIONS.
2. ELECTRICAL UNIT HEATERS: EUH FAN AND HEATING COIL SHALL CYCLE FROM WALL MOUNTED THERMOSTAT TO MAINTAIN SPACE TEMPERATURE SETPOINT.
3. DEHUMIDIFIER: DEHUMIDIFIER SHALL CYCLE FROM INTERNAL HUMIDISTAT TO MAINTAIN A SPACE RELATIVE HUMIDITY OF 40%.
4. HEAT PUMP: HEAT PUMP SHALL CYCLE FROM A WALL MOUNTED PROGRAMMABLE THERMOSTAT TO MAINTAIN ROOM SETPOINTS OF 65°F AND 85°F COOLING

PREPARED BY



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100% CONSTRUCTION DOCUMENTS

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PROJECT

MAIN LIFT PUMP STATION

TAUNTON, MA

TITLE

HVAC LEGEND & GENERAL NOTES

Table with 3 columns: NO., REVISIONS, DATE. Contains a grid for tracking revisions.

Table with 2 columns: DRAWN BY, DESIGNED BY, CHECKED BY, ISSUE DATE, BETA JOB NO. Includes: DRAWN BY: RLB, DESIGNED BY: RHB, CHECKED BY: RHB, ISSUE DATE: 01/24/22, BETA JOB NO.: 5530-000

SCALE

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SHEET NO. H-1

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SUBCONSULTANT



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180 Grossman Drive, Suite 209
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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**HVAC
BASEMENT
LEVEL PLAN**

NO. REVISIONS DATE

DRAWN BY: RLB
DESIGNED BY: RHB
CHECKED BY: RHB

ISSUE DATE: 01/24/22

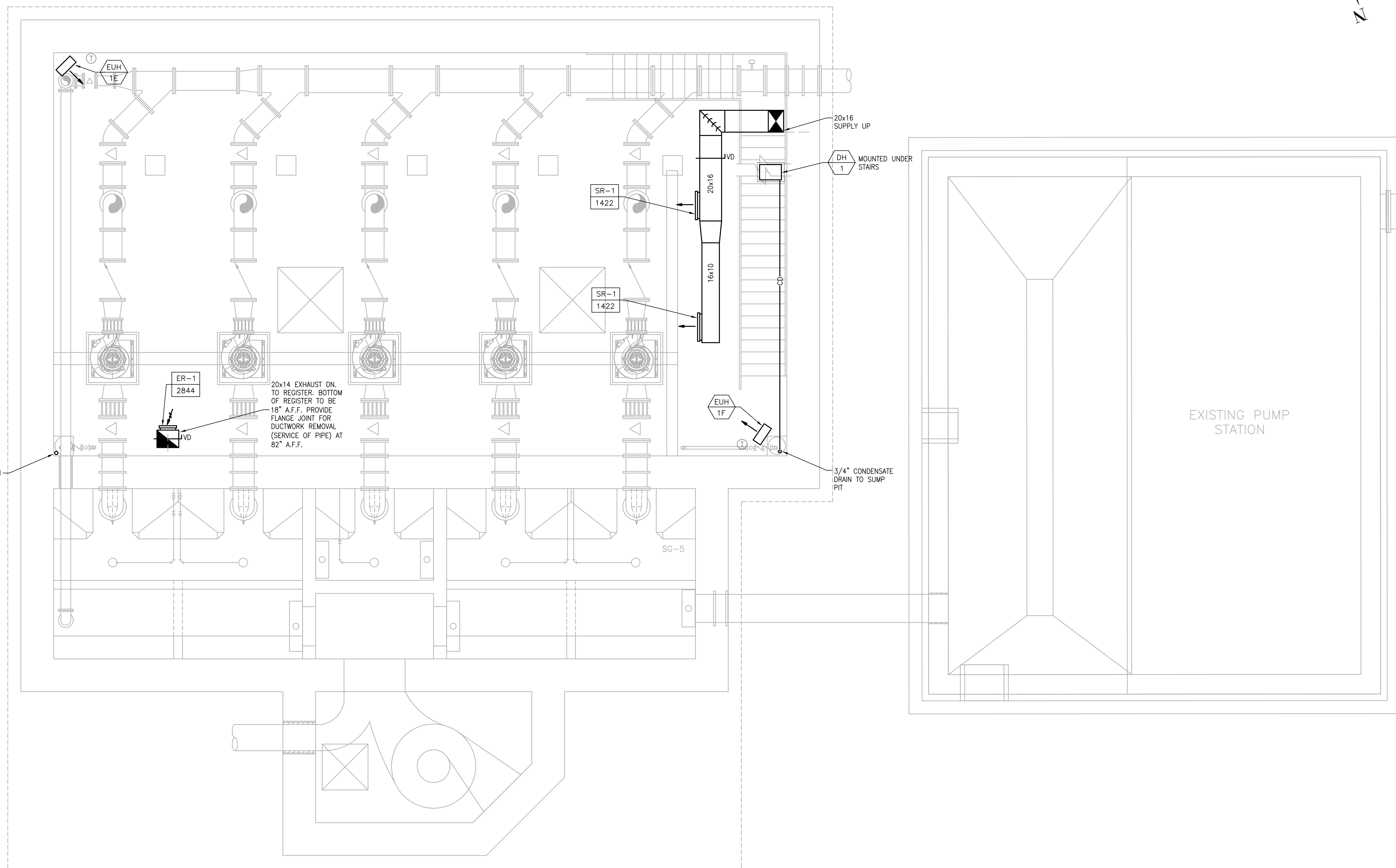
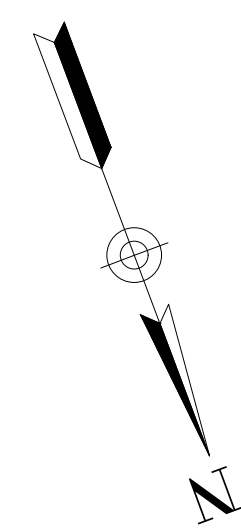
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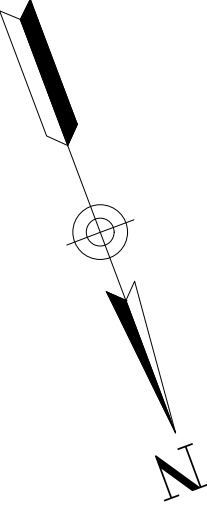
SHEET NO. **H-2**



PLAN & SECTIONS - PROPOSED
SCALE: 1/4" = 1'

1/21/2022 10:14 AM W:\YEAR - 2017\17068.00 - TAUNTON MAIN LIFT PUMP STATION\HVAC DEPARTMENT\17068.00 HVAC PLAN.DWG

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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

HVAC
MEZZANINE
LEVEL PLAN

NO.	REVISIONS	DATE

DRAWN BY: RLB

DESIGNED BY: RHB

CHECKED BY: RHB

ISSUE DATE: 01/24/22

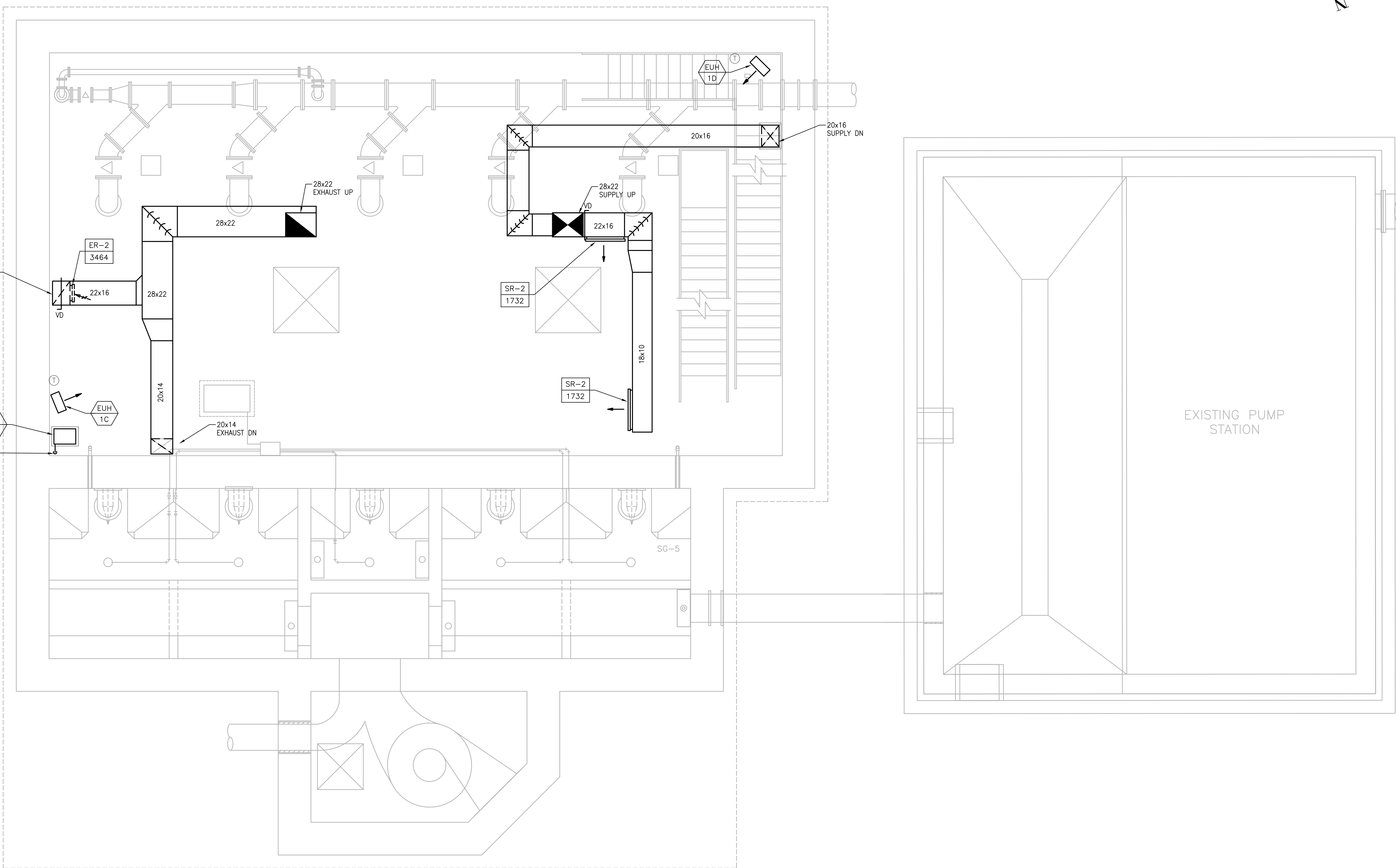
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SHEET NO. H-3



MEZZANINE LEVEL PLAN
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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

HVAC
GROUND
LEVEL PLAN

NO. REVISIONS DATE

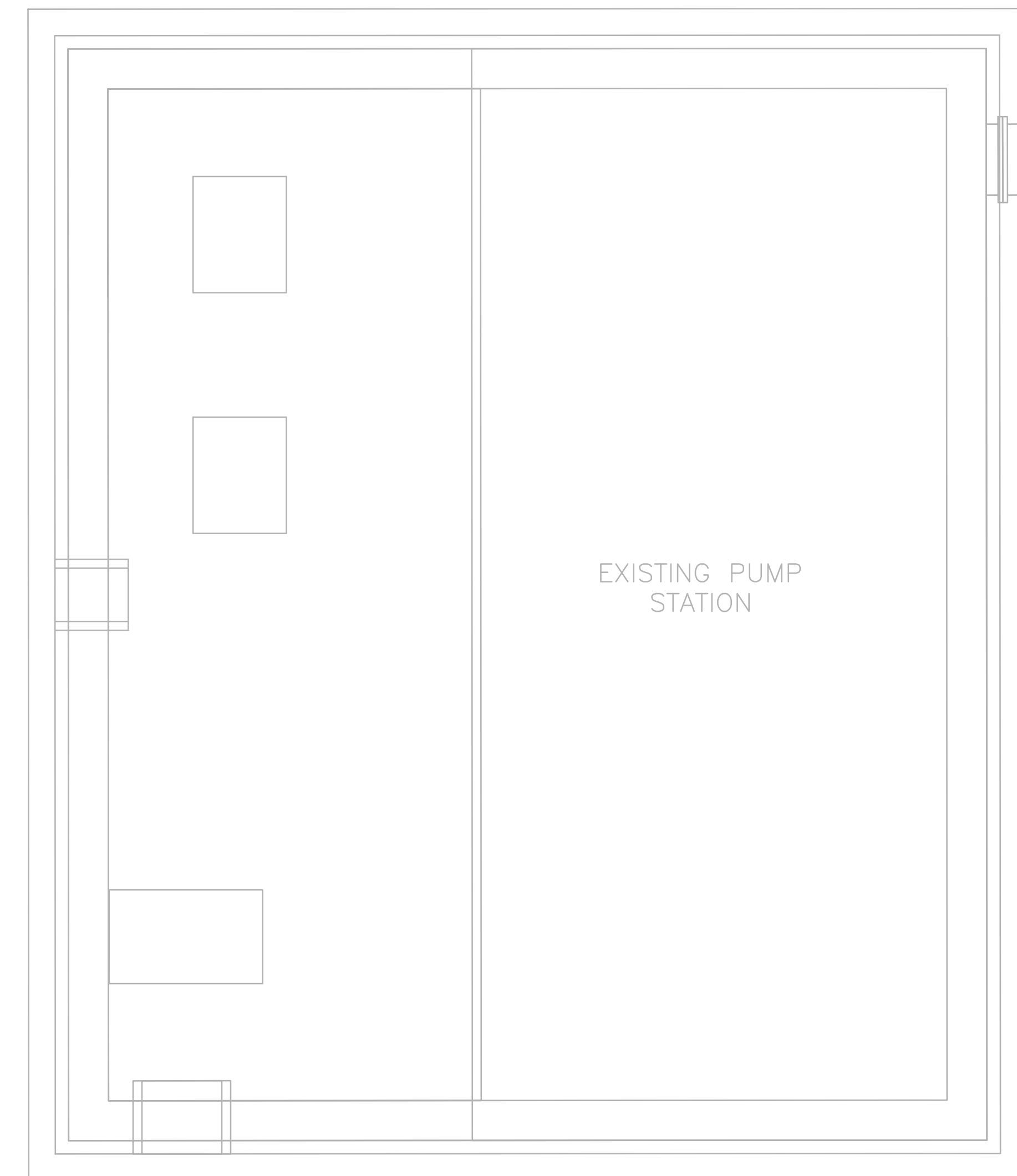
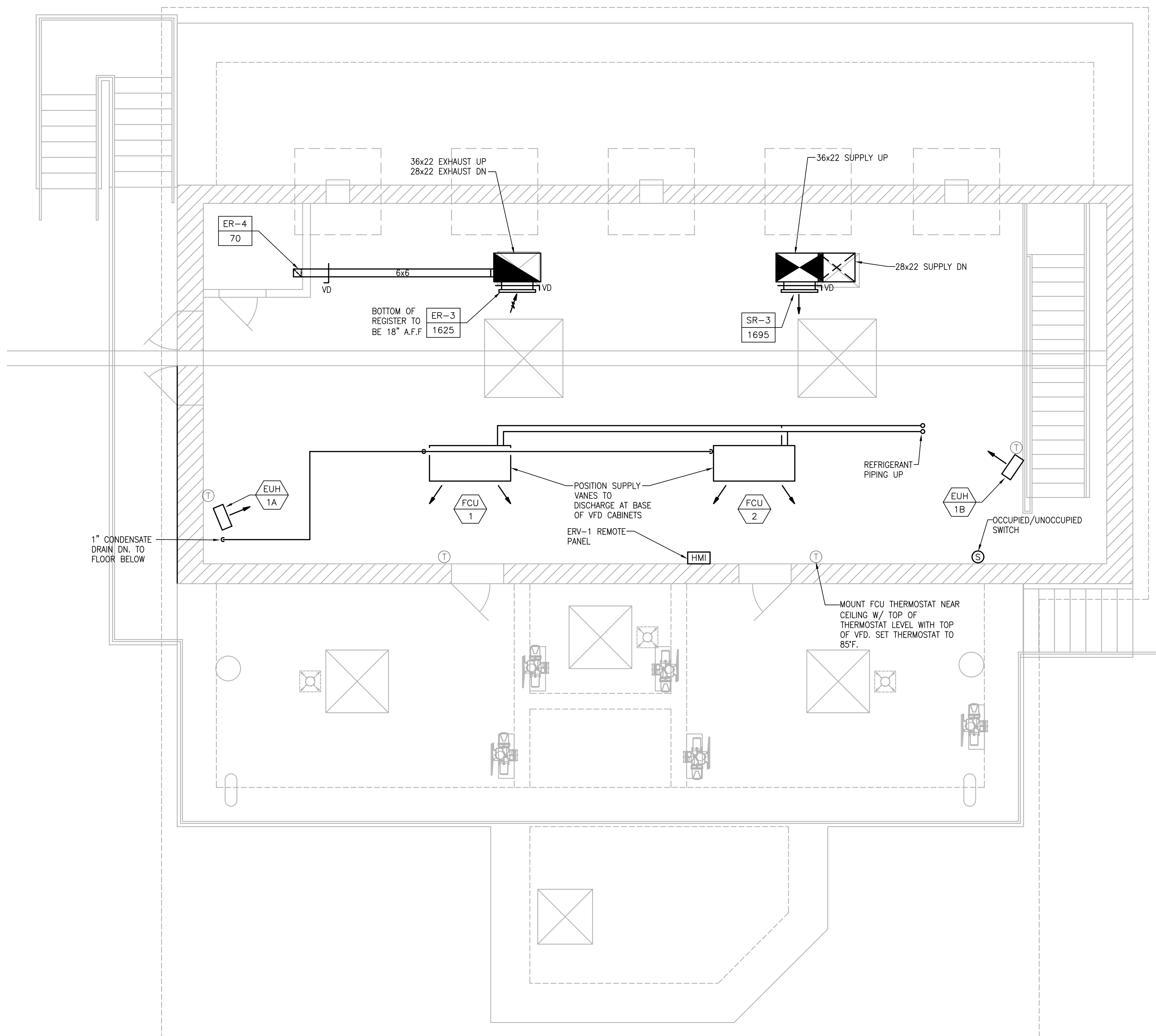
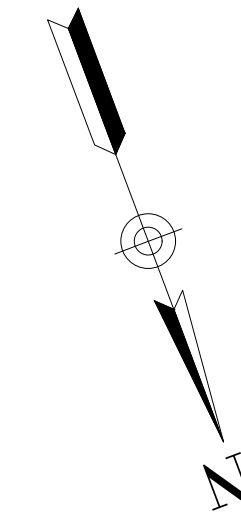
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SHEET NO. H-4



GROUND LEVEL PLAN
SCALE: 1/4" = 1'

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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

HVAC ROOF
LEVEL PLAN

NO.	REVISIONS	DATE
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DRAWN BY: RLB

DESIGNED BY: RHB

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ISSUE DATE: 01/24/22

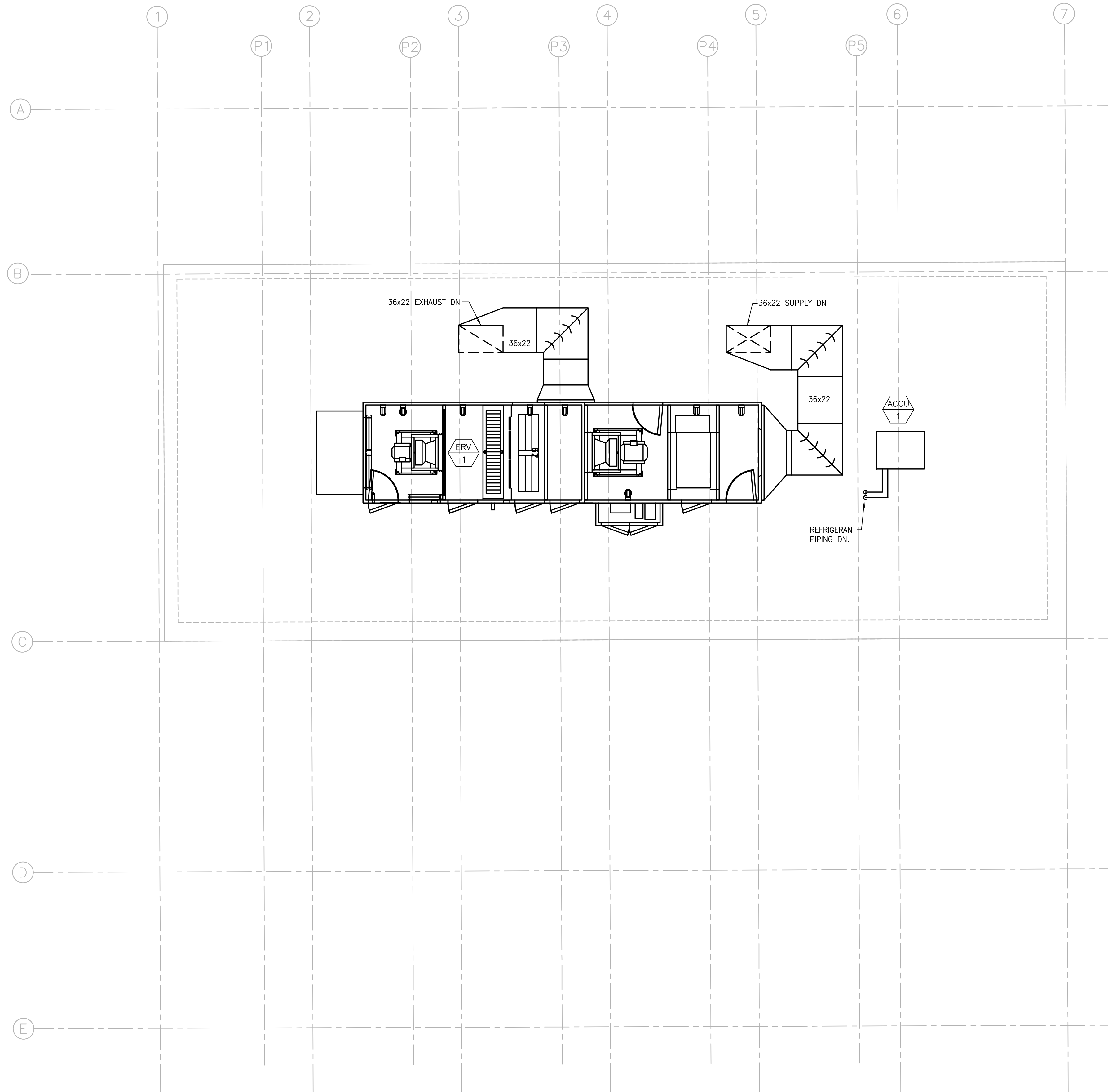
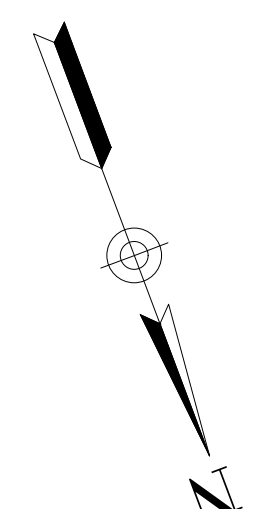
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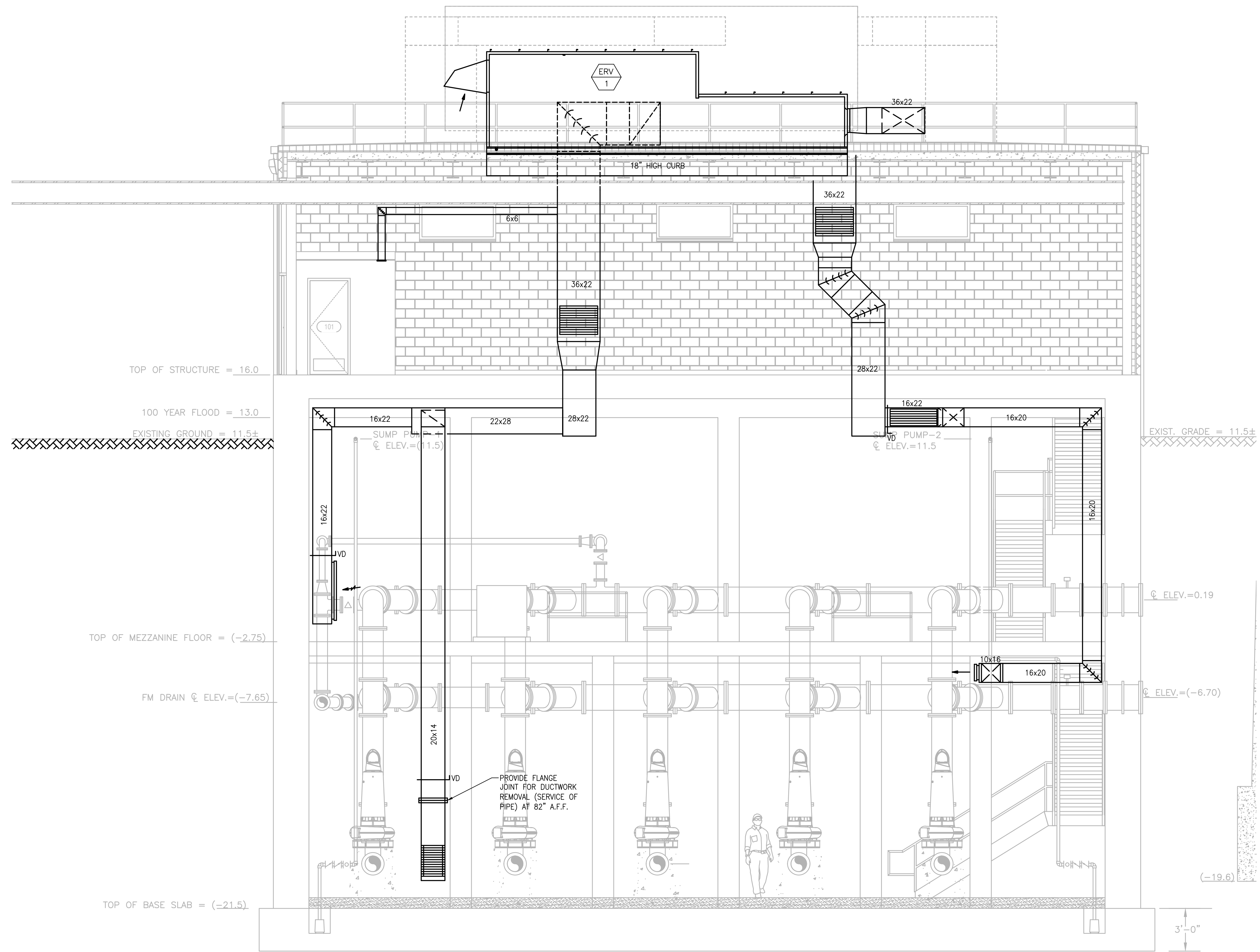
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SHEET NO. H-5




ROOF LEVEL PLAN
SCALE: 1/4" = 1'

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BUILDING SECTION
SCALE: 1/4" = 1'

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PROJECT

MAIN LIFT PUMP STATION

TAUNTON, MA

TITLE

HVAC BUILDING SECTION

NO.	REVISIONS	DATE

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DESIGNED BY: RHB
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SHEET NO. H-6



CUSTOM ENERGY RECOVERY UNIT SCHEDULE

TAG NO.	LOCATION	SUPPLY AIR PERFORMANCE						RETURN/EXHAUST AIR PERFORMANCE						WINTER CONDITIONS DESIGN		GAS HEATER DATA				ELECTRICAL DATA				WEIGHT LBS	MANUFACTURER MODEL NUMBER	REMARKS					
		SUPPLY IN CFM	OA IN CFM	ESP (IN WC)	TSP (IN WC)	FAN RPM	OPERATING POWER HP	MOTOR SIZE HP	EXH./RET. OUT CFM	E.S.P. IN (W.C.)	TOTAL SP IN (W.C.)	FAN RPM	OPERATING POWER HP	MOTOR SIZE HP	OUTDOOR DB °F	INDOOR WB °F	DB °F	RH%	GAS	PRESS. WG.	MBH INPUT	MBH OUTPUT	LAT				MCA	MOCP	V	PHASE	HZ
ERV-1	ROOF	8,000	8,000	1.0	4.0	1750	-	10.0	8,250	0.8	3.0	1750	-	10	5.0	3.1	65	50	NAT	7"	350	275	-	-	-	480	3	60	6,540	HAAKON	



ELECTRIC HEATER SCHEDULE

TAG NO.	CAPACITY		FAN DATA				MANUFACTURER MODEL NUMBER	REMARKS
	KW	CFM	V	PH	HZ			
EUH-1A, EUH-1B, EUH-1C, EUH-1D, EUH-1E & EUH-1E	5.0	700	480	3	60	QMARK QWD05034	SEE SPECIFICATIONS FOR ACCESSORIES	

VRF HEAT PUMP (OUTDOOR UNIT) SCHEDULE

ACCU OUTDOOR UNIT											REMARKS
TAG	LOCATION	MFG'R. & MODEL NO.	HEAT MBH	COOL MBH	ELEC. V/PH/HZ	No. OF ELEC. FEEDERS	MCA	MOP			
ACCU-1	ROOF	YORK YVAHP060B21S	63.9	59.9	208/1/60	1	31	40			FURNISH WITH 18" HIGH STAND

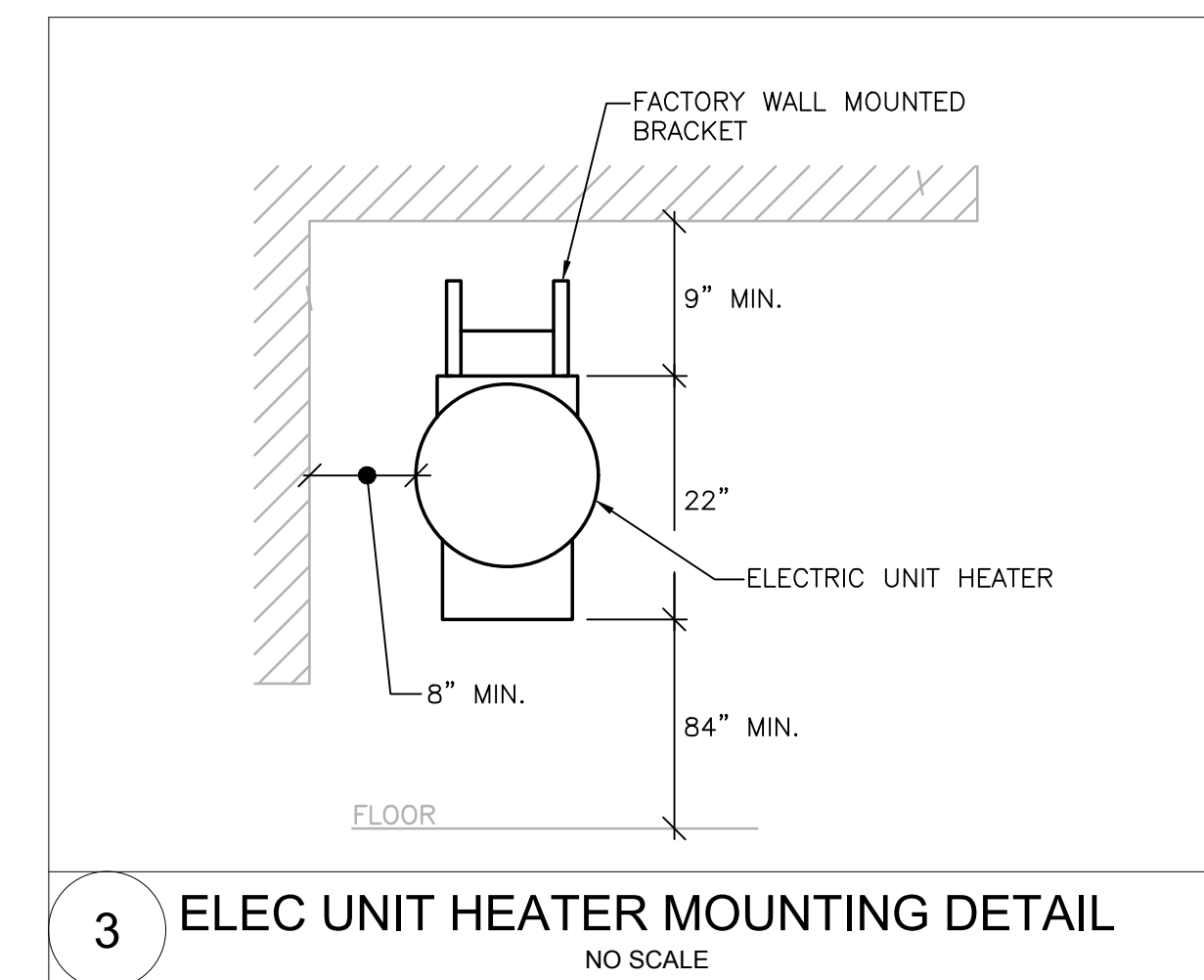


DIFFUSER, REGISTER & GRILLE SCHEDULE

TAG NO.	MODULE SIZE (IN)	NECK SIZE (IN)	SERVICE	MANUFACTURER MODEL NUMBER	REMARKS
SR-1	26x16	24x14	SUPPLY	TITUS 300FL	
SR-2	38x14	36x12	SUPPLY	TITUS 300FL	
SR-3	26x16	24x14	SUPPLY	TITUS 300FL	
ER-1	16x26	14x24	EXHAUST	TITUS 350FL	
ER-2	20x54	18x52	EXHAUST	TITUS 350FL	
ER-3	26x16	24x14	EXHAUST	TITUS 350FL	
ER-4	8x8	6x6	EXHAUST	TITUS 350FL	

VRF (INDOOR UNIT) SCHEDULE

HP FAN COIL UNIT											OUTDOOR UNIT	REMARKS
TAG	AREA SERVED	MFG'R. & MODEL NO.	TYPE UNIT	HEAT MBH	COOL MBH	CFM	ELEC. V/PH/HZ	MCA	MOP			
FCU-1	VFD AREA	YORK YICS030B21S	CEILING SUSPEND.	31.9	30.0	1,059	208/1/60	1.1	15	ACCU-1	UNIT TO BE MOUNTED 20" BELOW STRUCTURE	
FCU-2	VFD AREA	YORK YICS030B21S	CEILING SUSPEND.	31.9	30.0	1,059	208/1/60	1.1	15	ACCU-1	UNIT TO BE MOUNTED 20" BELOW STRUCTURE	



DEHUMIDIFIER SCHEDULE

TAG NO.	LOCATION	EXTRACT PPD	ELECTRICAL DATA			MANUFACTURER MODEL NUMBER	WEIGHT LB	NOTES
			V	PH	HZ			
DH-1	BASEMENT LEVEL	56	120	1	60	EBAC IND. PRODUCTS MODEL CS60	63	PROVIDE WALL BRACKET AND COND. PUMP
DH-2	MEZZANINE LEVEL	56	120	1	60	EBAC IND. PRODUCTS MODEL CS60	63	PROVIDE WALL BRACKET AND COND. PUMP

MOUNT DEHUMIDIFIER ON WALL 18" A.F.F.

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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

HVAC
SCHEDULE,
DETAILS &
SECTION

NO. REVISIONS DATE

DRAWN BY: RLB

DESIGNED BY: RHB

CHECKED BY: RHB

ISSUE DATE: 01/24/22

BETA JOB NO.: 5530-000

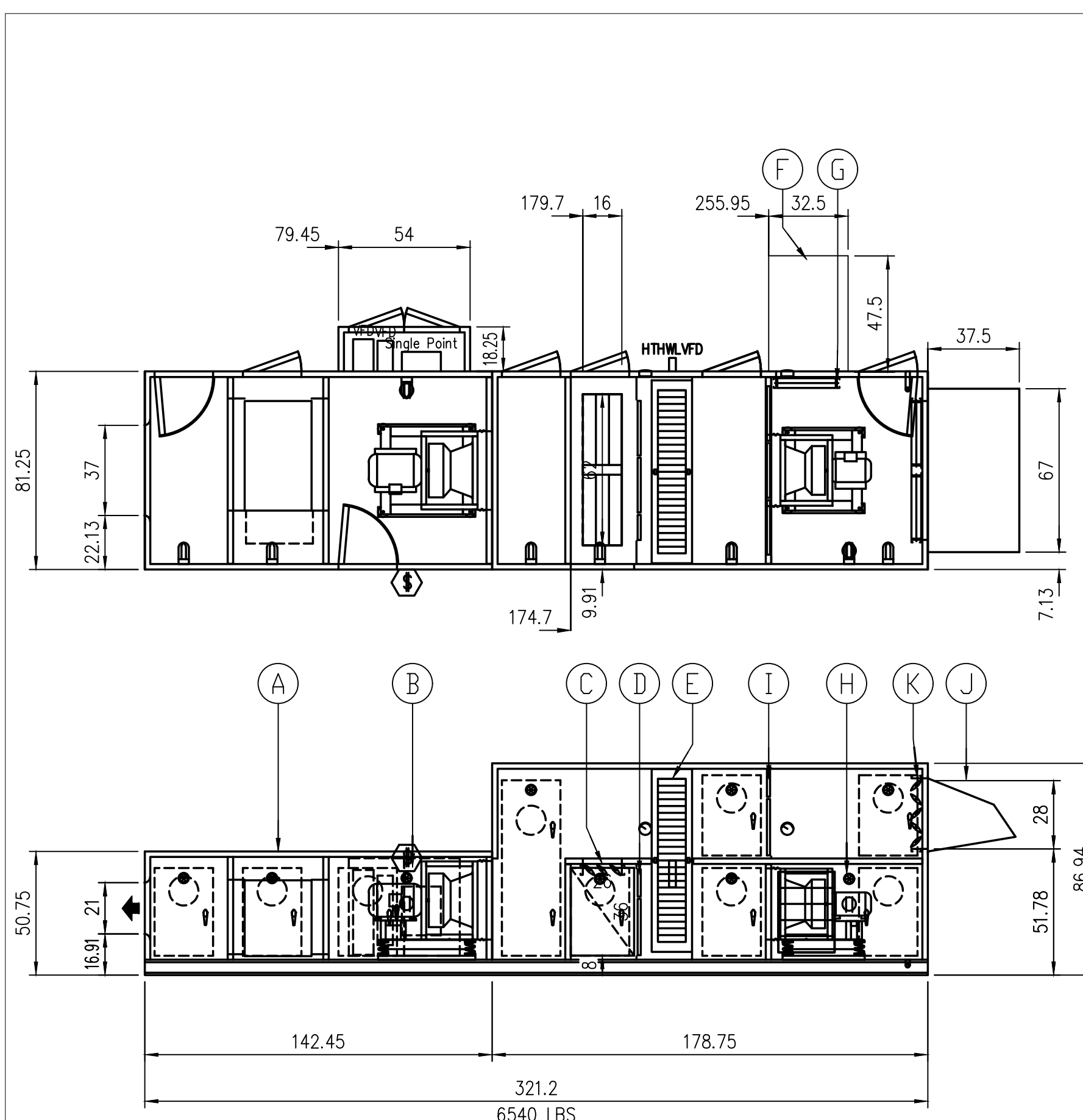
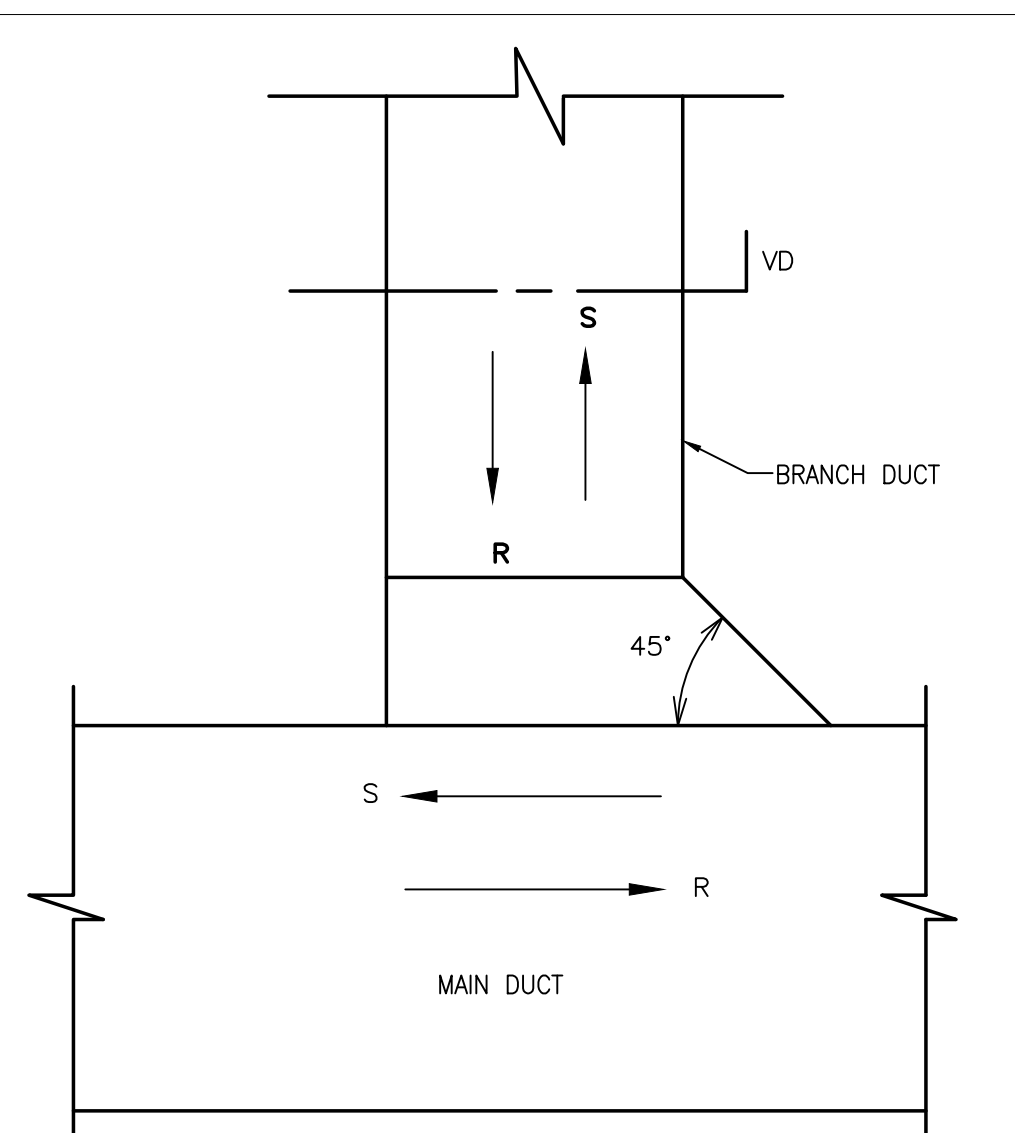
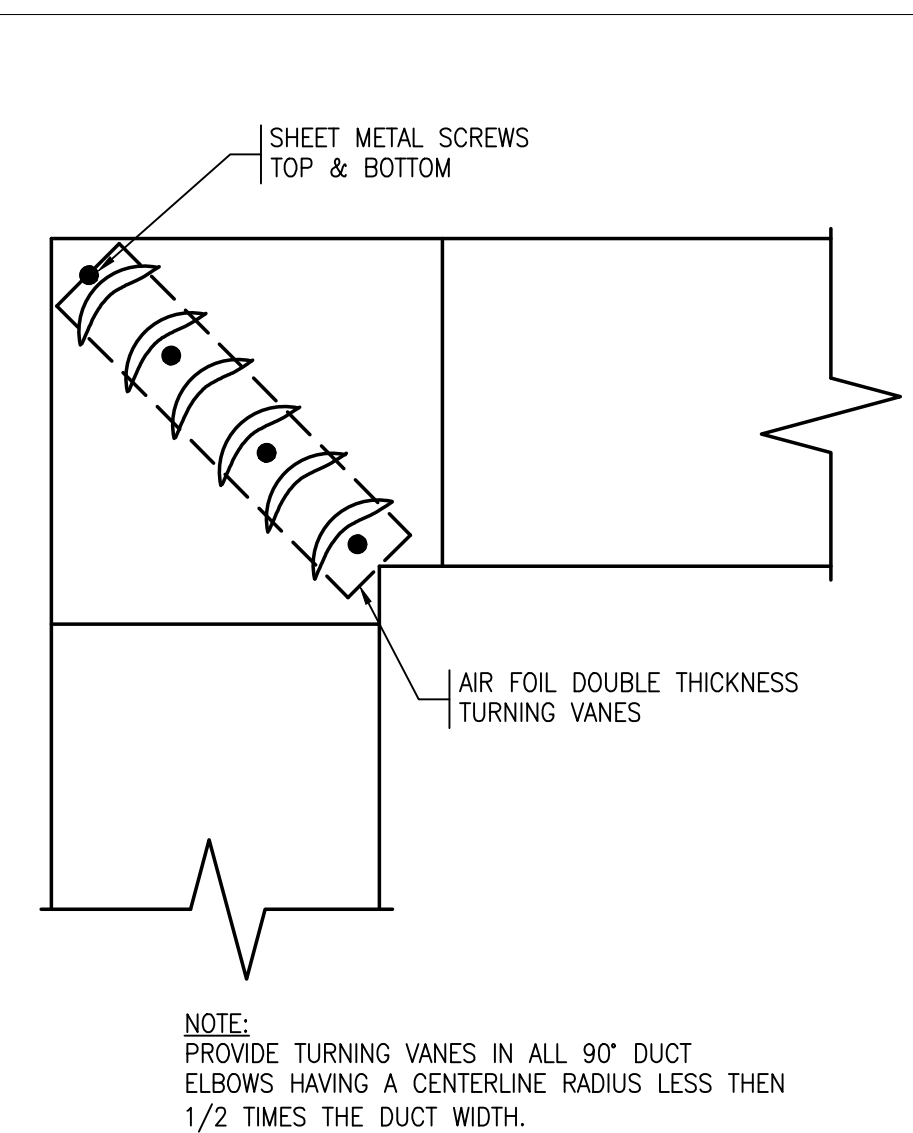
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(K) OA DAMPER : OPPOSED BLADES
MAKE : T.A. Morrison 1000
SIZE : 57 X 29

UNIT MOUNTING
The unit is designed to be mounted on a roof mounted.

Note : Calculated unit weights are shipping weights and do not reflect operating conditions, items which are field installed or ship loose.

(A) GAS FIRED FURNACE, 10:1 TURNDOWN
MAKE : HEATCO
MODEL : HDA350XX44808MB
FUEL PRESSURE : 0.500 psi
INPUT : 350 MBH OUTPUT : 280 MBH

(B) Service : SF
Fan: 22" EPQN SW, Arrangement-4
Class: 2 Max RPM: 2403
OP, P11
A.F.(cfm): 8000
T.S.P.(in wc): 4
E.S.P.(in wc): 1
RPM: 1000
MOTOR : 20 HP, ODP Prem-Eff, 460/3/60
RPM : 1750 (GROUNDED SHAFT)
ISOLATORS : OS DEF : 2 in
FEG80 η_{pt} : 73% η_l/η_{pt} : 92%

(C) RECIRC DAMPER : PARALLEL BLADES
MAKE : T.A. Morrison 1000
SIZE : 64 X 18

(D) RA FILTERS : LIFT-OUT UPSTREAM
VELOCITY : 536 FPM
TYPE : 2" (MERV 8) Farr 30/30
SIZES : 3 @ 24 X 12 2 @ 24 X 24

(E) HEAT WHEEL
TYPE : SG AMERICA HPC-1700T20
VOLTAGE : 460/3/60
VARIABLE SPEED
MOTOR : 0.5 HP

(F) EA HOOD

(G) EA DAMPER : PARALLEL BLADES
MAKE : T.A. Morrison 1000
SIZE : 25 X 35

(H) Service : EF
Fan: 20" EPQN SW, Arrangement-4
Class: 2 Max RPM: 2674
OP, P11
A.F.(cfm): 8250
T.S.P.(in wc): 3
E.S.P.(in wc): 0.8
RPM: 1666
MOTOR : 10 HP, ODP Prem-Eff, 460/3/60
RPM : 1750 (GROUNDED SHAFT)
ISOLATORS : OS DEF : 2 in
FEG75 η_{pt} : 70% η_l/η_{pt} : 80%

(I) FILTERS : LIFT-OUT UPSTREAM
VELOCITY : 444 FPM
TYPE : 2" (MERV 8) Farr 30/30
SIZES : 3 @ 24 X 24 3 @ 24 X 12

(J) OA HOOD

PLUMBING FIXTURE SCHEDULE

DESIGNATION	FIXTURE DESCRIPTION	CONNECTION SIZE				REMARKS
		CW	HW	S/W	V	
P-1	WATER CLOSET – WALL HUNG	1"	-	4"	2"	-
P-2	LAVATORY – WALL HUNG	1/2"	1/2"	2"	2"	-

- NOTES:
- ALL FINAL CONNECTIONS TO CASEWORK SINKS AND EQUIPMENT SHALL BE BY THE PLUMBING CONTRACTOR.
 - ALL EXPOSED VALVES, PIPING AND FITTINGS SHALL BE CHROME PLATED.
 - PLUMBING CONTRACTOR SHALL PROVIDE EACH CONNECTION TO EACH SINK OR PIECE OF EQUIPMENT ITS OWN INDIVIDUAL SHUTOFF VALVE.
 - MANUFACTURED CASEWORK CONTRACTOR SHALL PROVIDE ALL EQUIPMENT LISTED IN THE CASEWORK SCHEDULE INCLUDING TRIM, FAUCETS, BUBBLERS, SINK WASTES AND TAIL PIECES. PLUMBING CONTRACTOR SHALL PROVIDE FULL SIZE TRAP AND EXTENSION. PLUMBING CONTRACTOR SHALL ASSEMBLE AND INSTALL ALL PLUMBING RELATED ITEMS INCLUDING TRIM, FAUCETS, BUBBLERS, SINK WASTE, TAIL PIECES, TRAPS AND EXTENSIONS.

ELECTRIC WATER HEATER SCHEDULE

I.D.	MANUFACTURER	MODEL	GALS.	RECOVERY		KW	VOLTS	PHASE	HZ	REMARKS
				G.P.H.	Δ TEMP.					
EW-1	RHEEM	EGSP-10	10	12	100	3	480	1	-	-

SHOCK ABSORBER SCHEDULE

PDI RATING SYMBOL	A	B	C	D	E
PRECISION PLUMBING PRODUCTS OR EQUAL	SC-500	SC-750	SC-1000	SC-1250	SC-1500
WATTS REGULATOR COMPANY OR EQUAL	0750030	0750053	0750060	0750070	0750090
WADE OR EQUAL	5-P	10-P	20-P	50-P	75-P

* MANUFACTURERS NAMES AND MODEL NUMBERS ARE SHOWN ONLY TO REPRESENT TYPE, STYLE AND LEVEL OF QUALITY EXPECTED, SIMILAR EQUALS BY OTHER SPECIFIED MANUFACTURERS WILL BE ACCEPTABLE.

DRAIN SCHEDULE*

SYMBOL	TYPE	MANUFACTURER	MODEL	OUTLET	STRAINER	REMARKS
A	FD	J.R. SMITH	2005-A-P	CAULK	NICK-BRZ	FINISHED AREAS
B	FD	J.R. SMITH	2130-U-PB-P	CAULK	CAST IRON	DUCTILE IRON GRATE – MECH RMS

* ALL FLOOR DRAINS SHALL BE PROVIDED WITH AUTOMATIC TRAP PRIMERS. REFER TO DETAIL FOR PIPING ARRANGEMENT.

PLUMBING NOTES

- THE WORK COVERED CONSISTS OF FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE PLUMBING SYSTEMS, APPARATUS AND EQUIPMENT FOR THIS PROJECT.
- ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE PLUMBING SUB-CONTRACT, LABOR AND TESTING PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE STATE BUILDING CODE, LOCAL FUEL GAS AND PLUMBING CODES, ALL LOCAL CODES AND REGULATIONS, NATIONAL FIRE PROTECTION ASSOCIATION, INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.
- ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.
- ALL PRODUCTS USED AS PART OF THE POTABLE WATER SYSTEM WHERE THE INTENDED PURPOSE IS TO DELIVER OR CONVEY POTABLE WATER FOR HUMAN CONSUMPTION SHALL BE LEAD FREE AND CONFORM TO THE LATEST "LEAD FREE" LAW.
- WHERE WATER PIPING IS SHOWN DROPPING INTO PLUMBING CHASES WITH SIZES NOTED, THAT SIZE SHALL BE CARRIED FULL LENGTH THROUGH THE CHASE. REFER TO PLUMBING FIXTURE SCHEDULE ON THIS DRAWING FOR INDIVIDUAL FIXTURE CONNECTION SIZES.
- UNLESS OTHERWISE NOTED, ALL HORIZONTAL DRAINAGE PIPING WHICH IS 3" OR LESS IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/4" PER FOOT AND ALL HORIZONTAL DRAINAGE PIPING WHICH IS 4" OR LARGER IN DIAMETER SHALL PITCH OF NOT LESS THAN 1/8" PER FOOT.
- PROVIDE ALL FLOOR CLEANOUTS WITH HUB AND SPIGOT; LEAD AND OAKUM JOINTS FROM CLEANOUT TO AND INCLUDING CONNECTION TO SANITARY DRAIN.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND HEIGHT OF ALL PLUMBING FIXTURES.
- MISCELLANEOUS DISCREPANCIES OR OMISSIONS WHICH MIGHT APPEAR ON THE PLANS OR SPECIFICATIONS WILL NOT RELIEVE THE PLUMBING SUB-CONTRACTOR OF CODE COMPLIANCE.
- ALL FLOOR DRAINS SHALL BE PROVIDED WITH A TRAP PRIMER CONNECTION. CONTRACTOR SHALL PROVIDE ALL ASSOCIATED EQUIPMENT NECESSARY TO PROVIDE A COMPLETE SYSTEM INCLUDING AN ELECTRONICALLY OPERATED PRIMING MANIFOLD AND ALL ASSOCIATED PIPING REQUIRED.
- PROVIDE CLEANOUTS AT ALL CHANGE OF DIRECTIONS FOR SANITARY/WASTE PIPING.
- PROVIDE WALL CLEANOUTS WITH ACCESS PANELS AT ALL SANITARY/WASTE PIPING WITHIN PIPE CHASES OR WALLS.
- HANDICAPPED ACCESSIBLE FIXTURES SHALL BE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND THE RULES AND REGULATIONS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD, WHERE THE TWO STANDARDS DIFFER, THE MORE STRINGENT SHALL APPLY.
- ALL BURIED DOMESTIC WATER PIPING, NON-POTABLE WATER PIPING, TEMPERED WATER PIPING OR AIR PIPING SHALL BE SOFT ROLLED "K" COPPER COIL AND BE PROTECTED WITH A HIGH DENSITY RUBBER INSULATION. FITTINGS SHALL NOT BE PERMITTED IN OR UNDER SLAB. PROVIDE SLAB PENETRATIONS WITH SLEEVE AND FIRE STOPPING.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
		BELOW FLOOR PIPING (INDICATED AS DOUBLE LINEWORK)
	CW	COLD WATER
	HW	HOT WATER
	NPCW	NON-POTABLE COLD WATER
	S or W	SOIL OR WASTE
	V	VENT
	G	NATURAL GAS
	CONT	CONTINUATION
	UP	PIPE RISE OR UP
	DN	PIPE DROP OR DOWN
	TEE	PIPE TEE
	SOV	SHUT-OFF VALVE
	PRV	PRESSURE REDUCING VALVE
	VIV	VALVE IN VERTICAL
	CV	CHECK VALVE
	W & T	WASTE & TRAP
	CO	CLEANOUT PLUG
	FCO	FLUSH FLOOR CLEANOUT
		ARROW INDICATES DIRECTION OF FLOW
		ARROW INDICATES DIRECTION OF SLOPE
		UNION
	WTS	WATERTIGHT SLEEVE
	HB	HOSE BIBB
	WH	WALL HYDRANT

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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

PLUMBING LEGEND, NOTES & SCHEDULE

NO.	REVISIONS	DATE

DRAWN BY: GPC

DESIGNED BY: GPC

CHECKED BY: JAL

ISSUE DATE: 01/24/22

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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

PLUMBING
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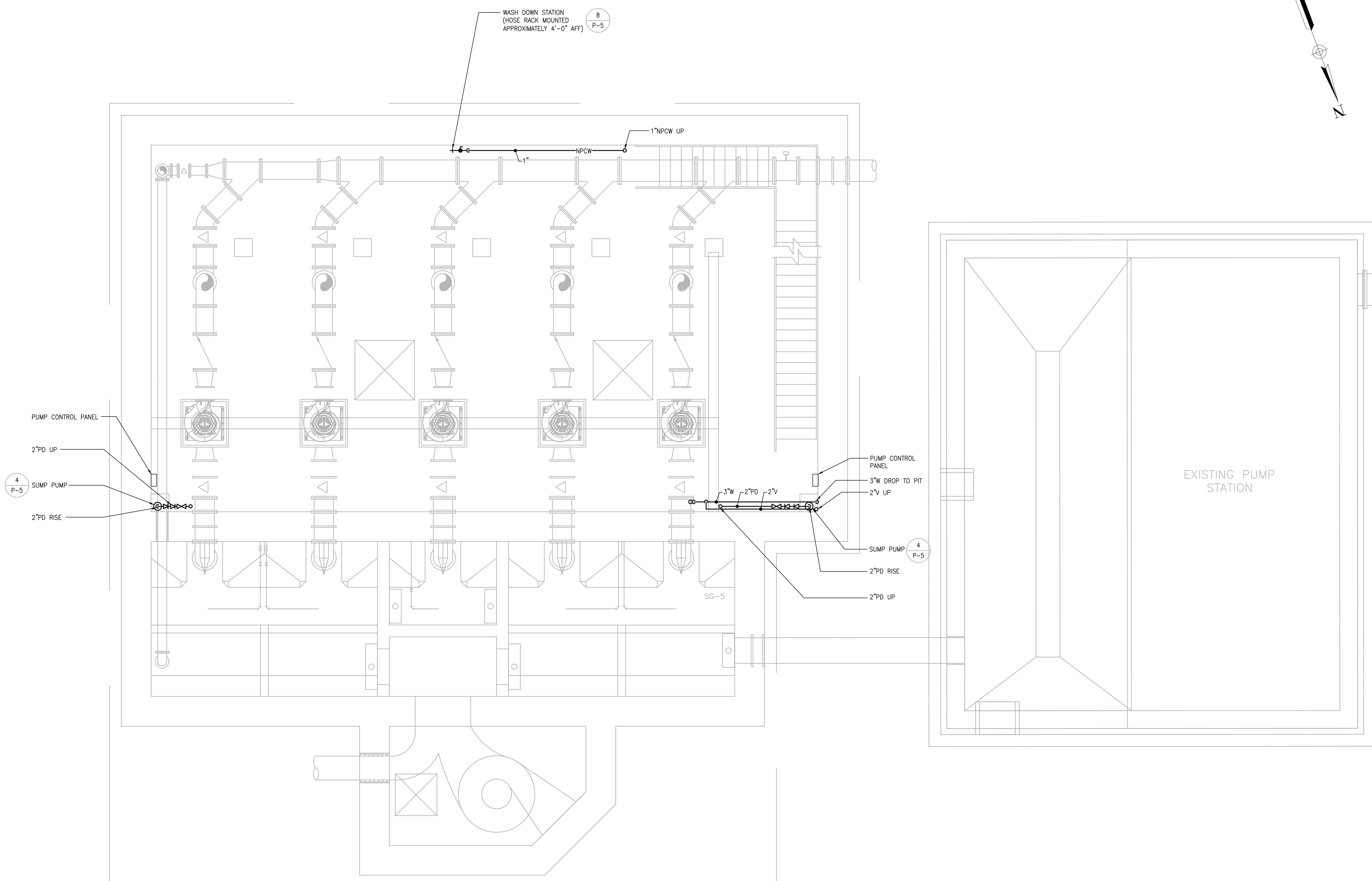
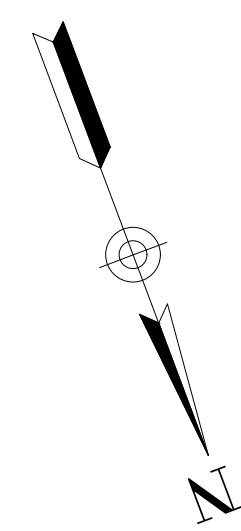
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SHEET NO. P-2



PLUMBING BASEMENT LEVEL PLAN
SCALE: 1/4" = 1'

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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

PLUMBING
#####

NO. REVISIONS DATE

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DESIGNED BY: RLB

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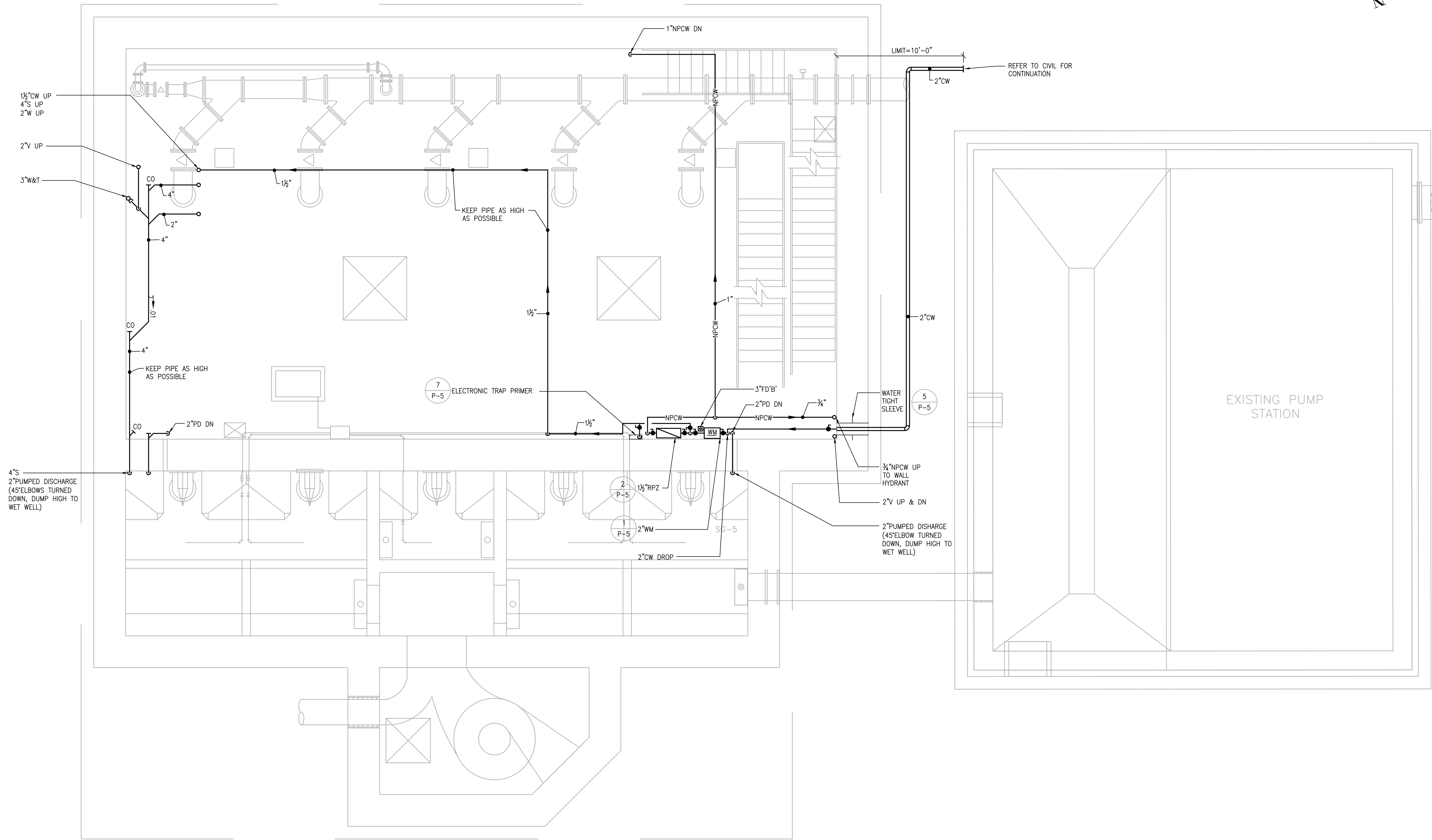
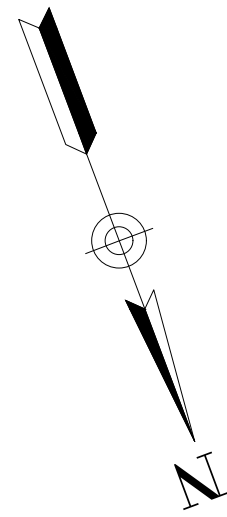
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PLUMBING MEZZANINE LEVEL PLAN
SCALE: 1/4" = 1'

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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

PLUMBING
#####

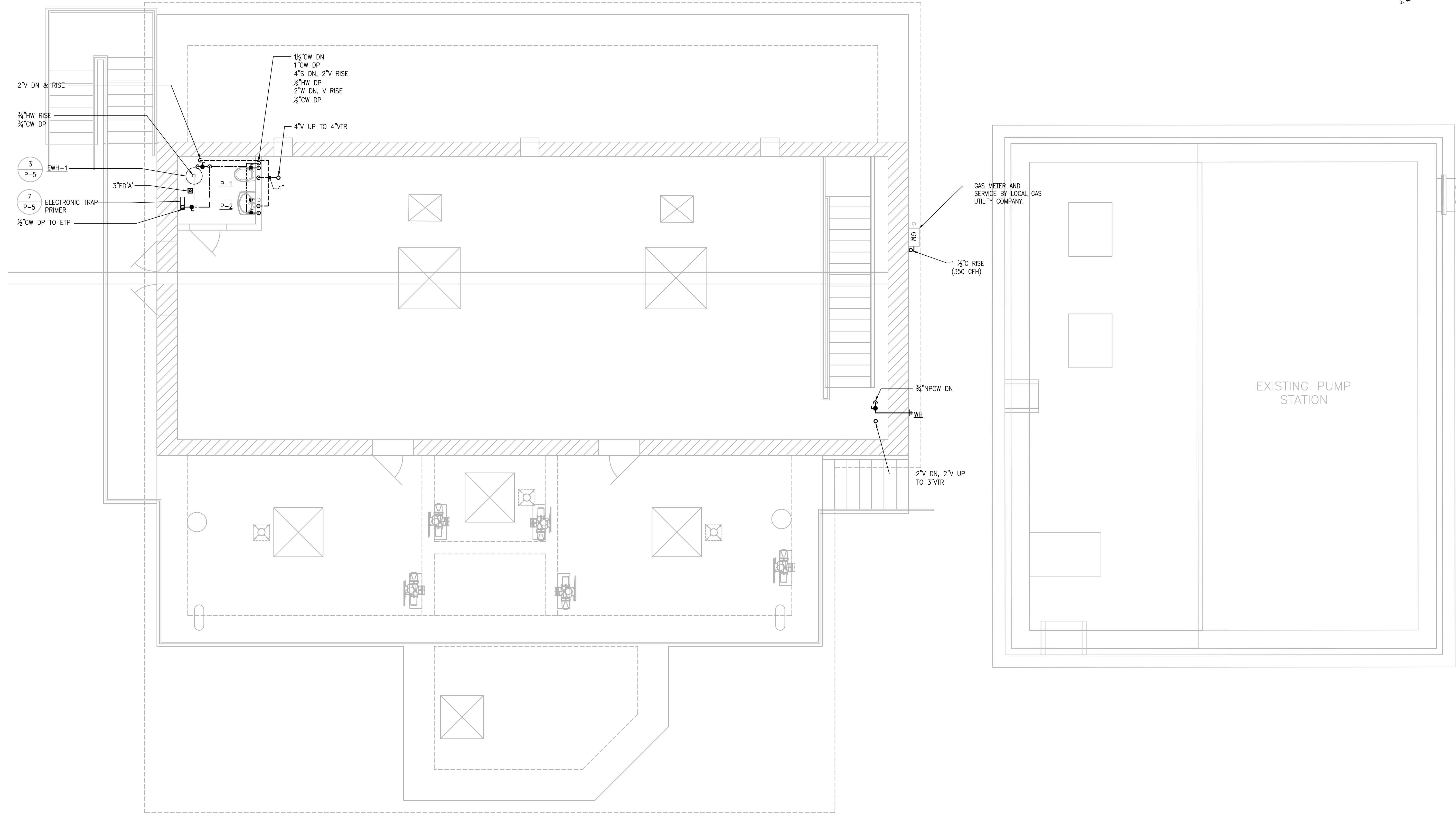
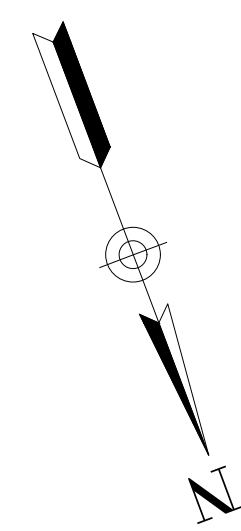
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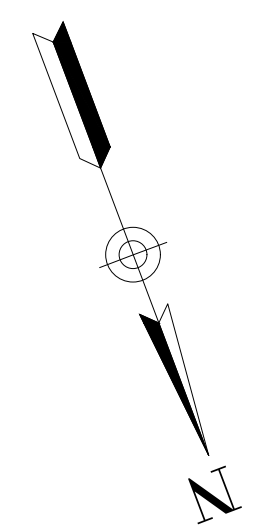
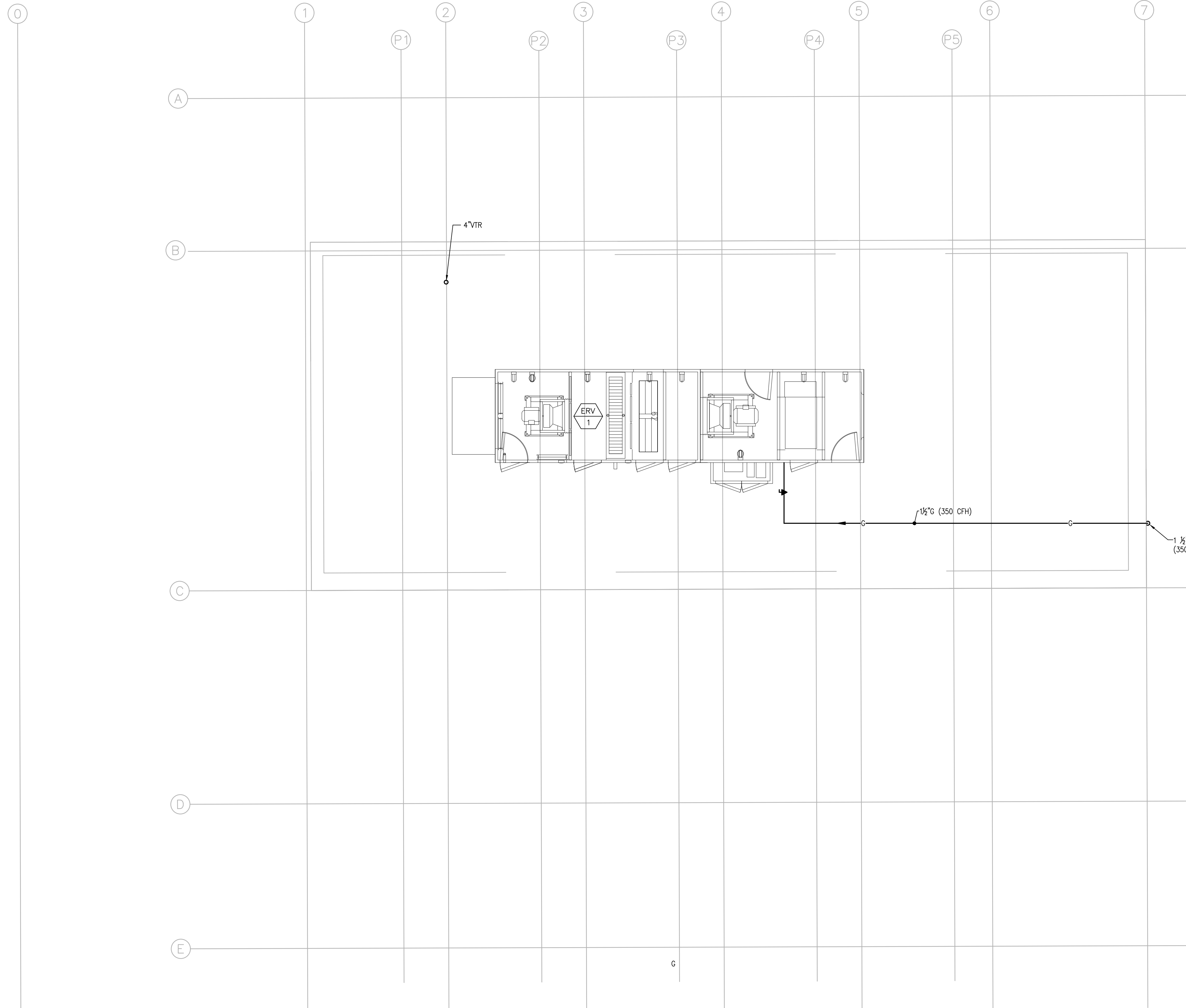
SHEET NO. P-4



PLUMBING GROUND LEVEL PLAN
SCALE: 1/4" = 1'

1/10/2022 1:36 PM W:\YEAR - 2017\17003.00 - TAUNTON-MAIN LIFT PUMP-STATION\PLUMBING DEPARTMENT\17003-PLUMBING.DWG

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 150 Grossman Drive, Suite 209
 Braintree, Massachusetts 02184
 617 221-9220
 web: www.sar.com

PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

PLUMBING
ROOF PLAN

NO.	REVISIONS	DATE
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DRAWN BY: RLB

DESIGNED BY: RLB

CHECKED BY: JAL

ISSUE DATE: 01/24/22

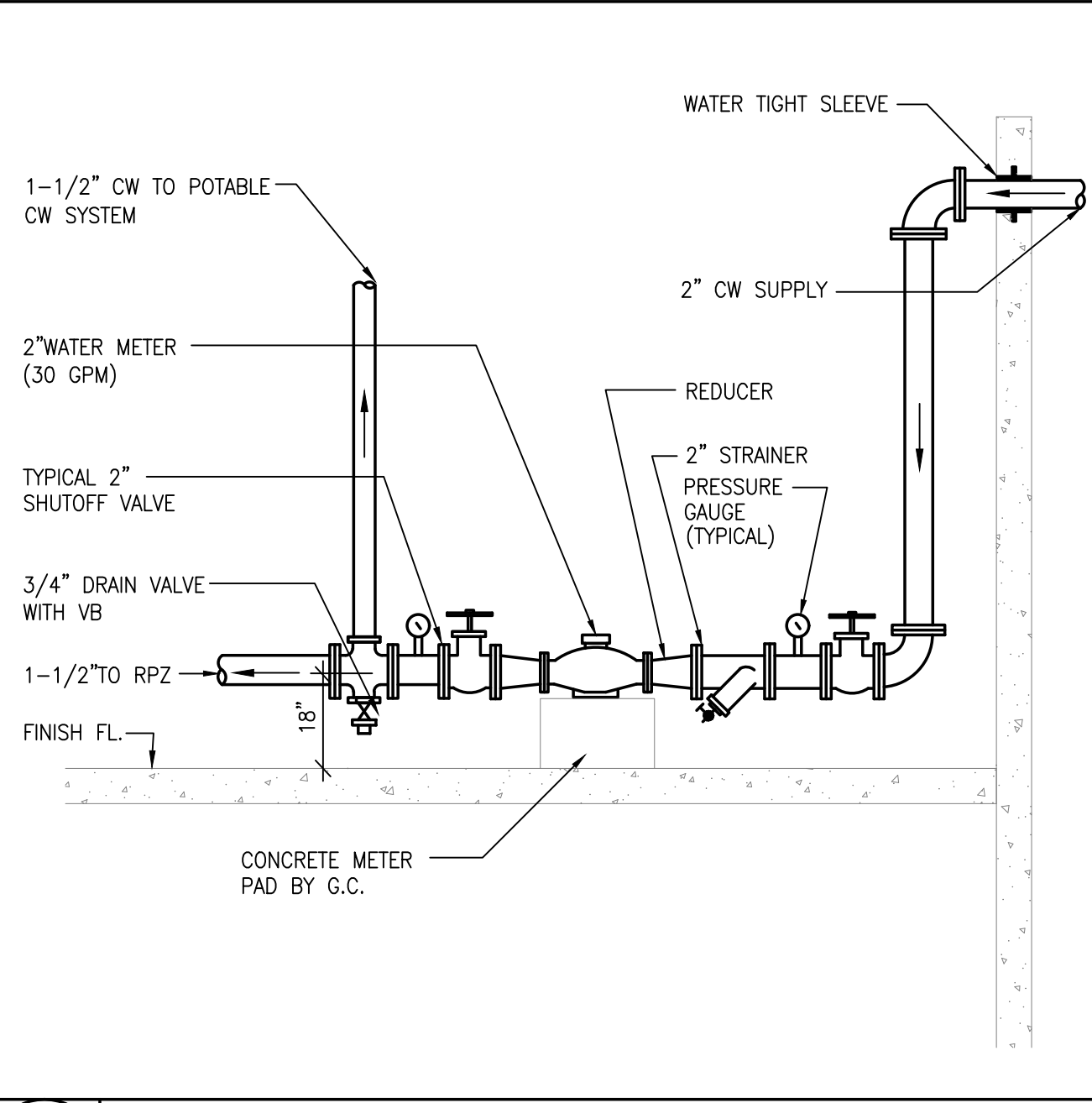
BETA JOB NO.: 5530-000

SCALE

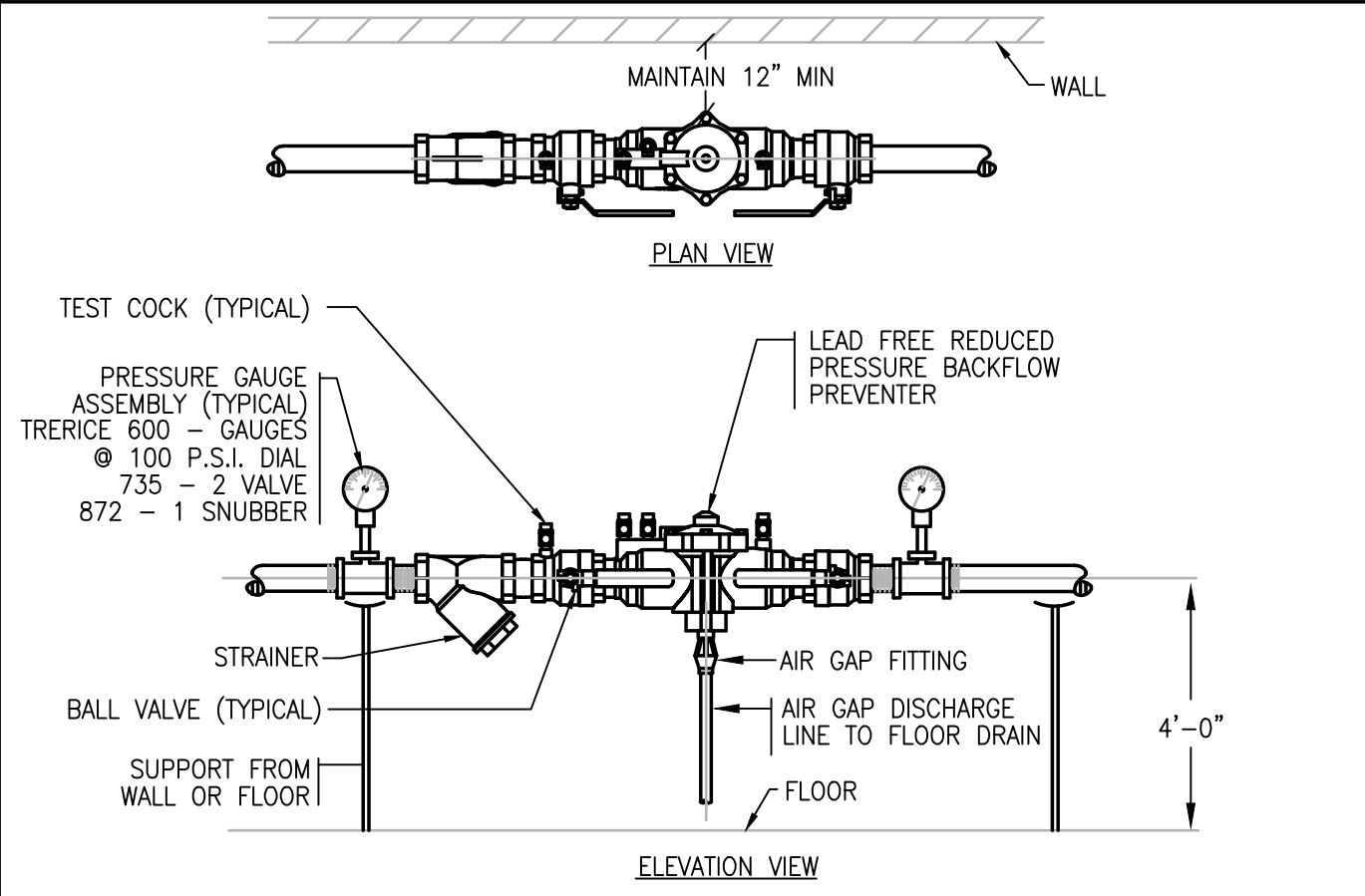
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SHEET NO. P-5

PLUMBING ROOF PLAN
SCALE: 1/4" = 1'



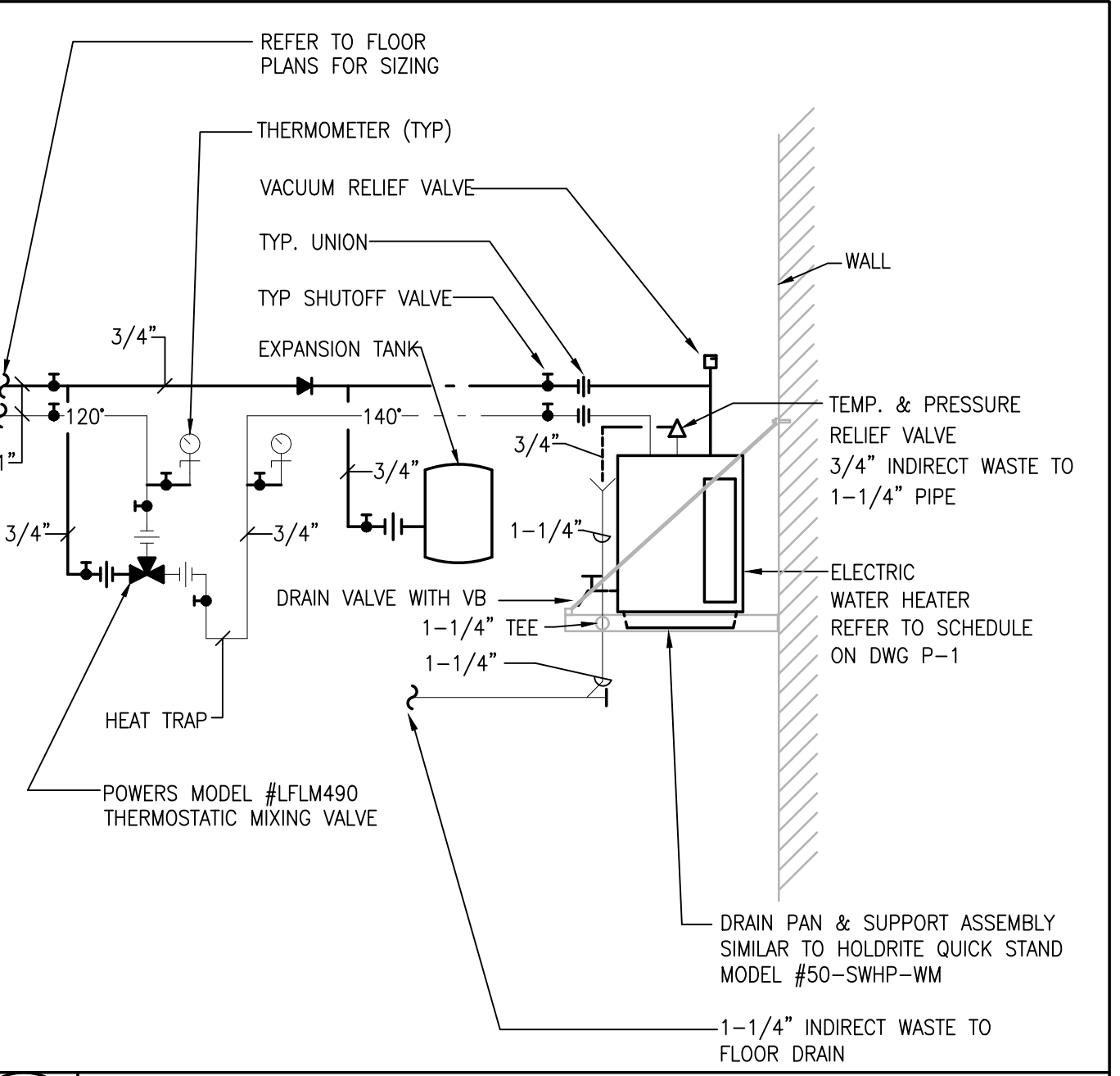
1 DOMESTIC WATER METER DETAIL NTS



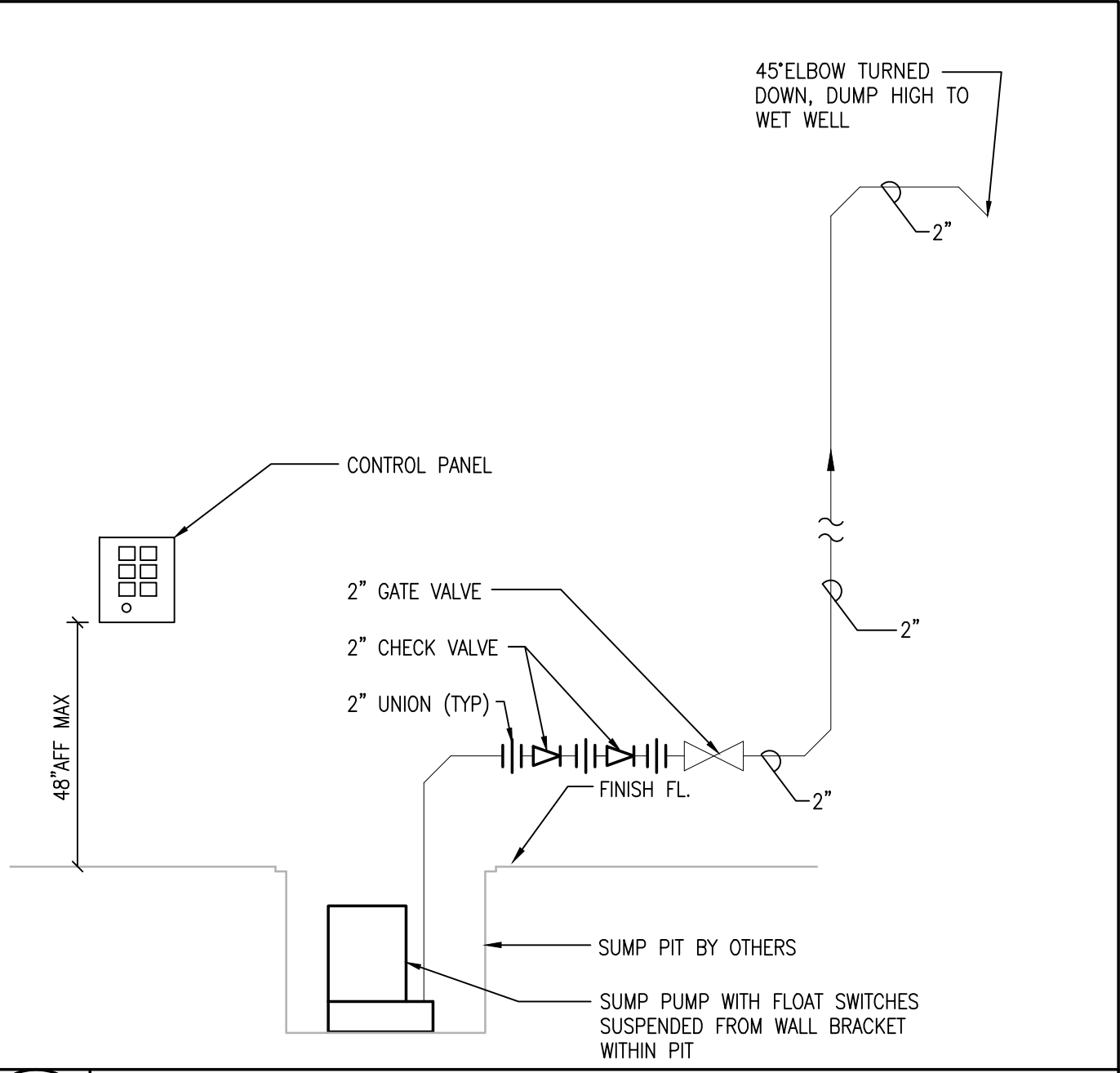
NOTES:

- REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AGENCY.
- BACKFLOW PREVENTER SHALL BE IN COMPLETE ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION. THE PLUMBING CONTRACTOR SHALL SUBMIT PLANS AND DEVICE INFORMATION FOR APPROVAL PRIOR TO INSTALLATION.
- FURNISH TO OWNER ONE TEST KIT AND SPARE PARTS KIT FOR EACH DEVICE.
- THIS CONTRACTOR SHALL ACT AS THE OWNERS AGENT IN SEEKING APPROVAL FROM ALL LOCAL AND STATE AUTHORITIES. THIS CONTRACTOR SHALL SUBMIT ALL PLANS, SPECS. AND APPLICATIONS REQUIRED FOR APPROVAL AND PAY ALL FEES.
- SEE FLOOR PLANS FOR SIZES.
- MAINTAIN 1'-0" CLEARANCE FROM WALL.

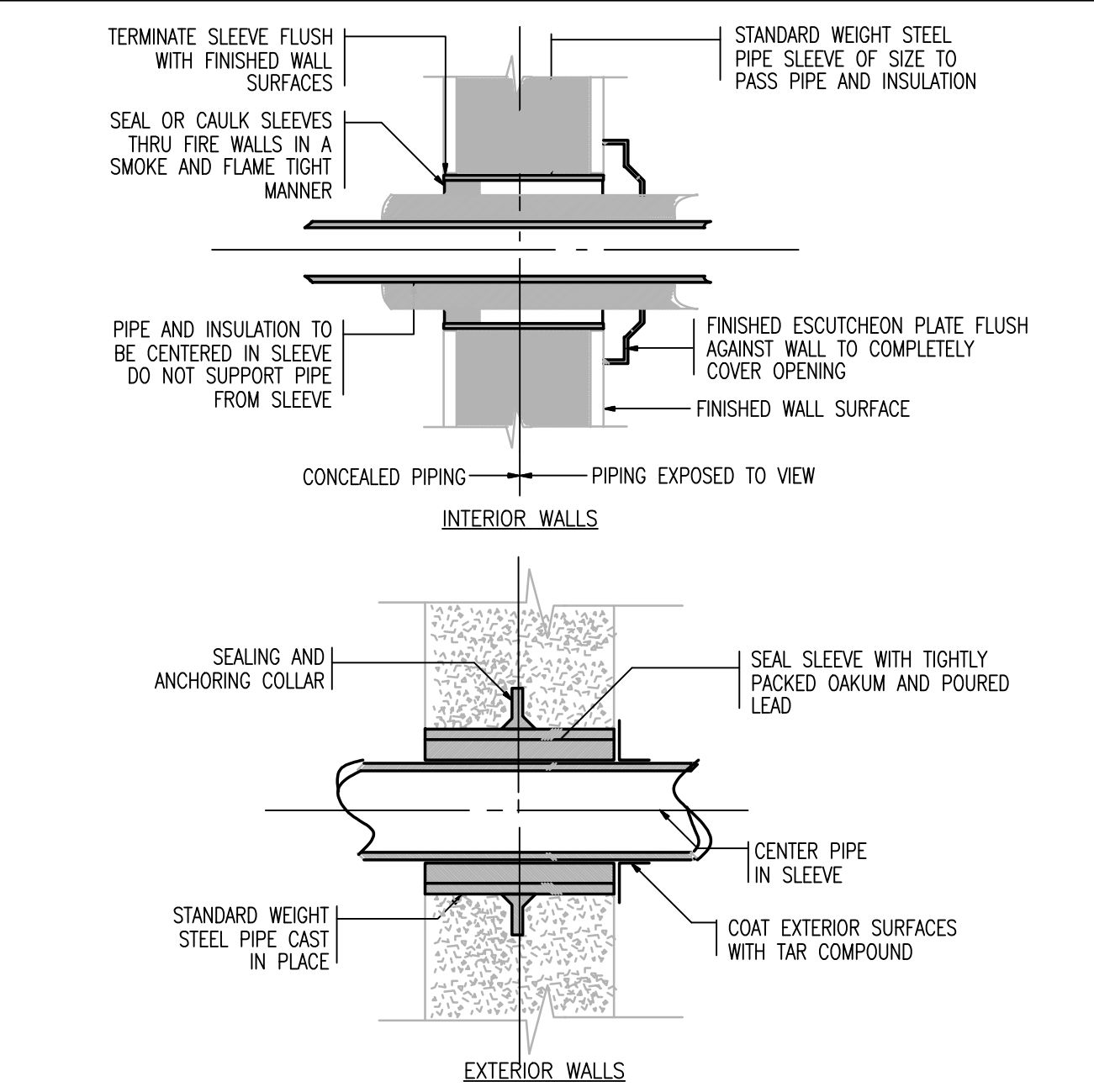
2 REDUCED PRESSURE BACKFLOW DETAIL NTS



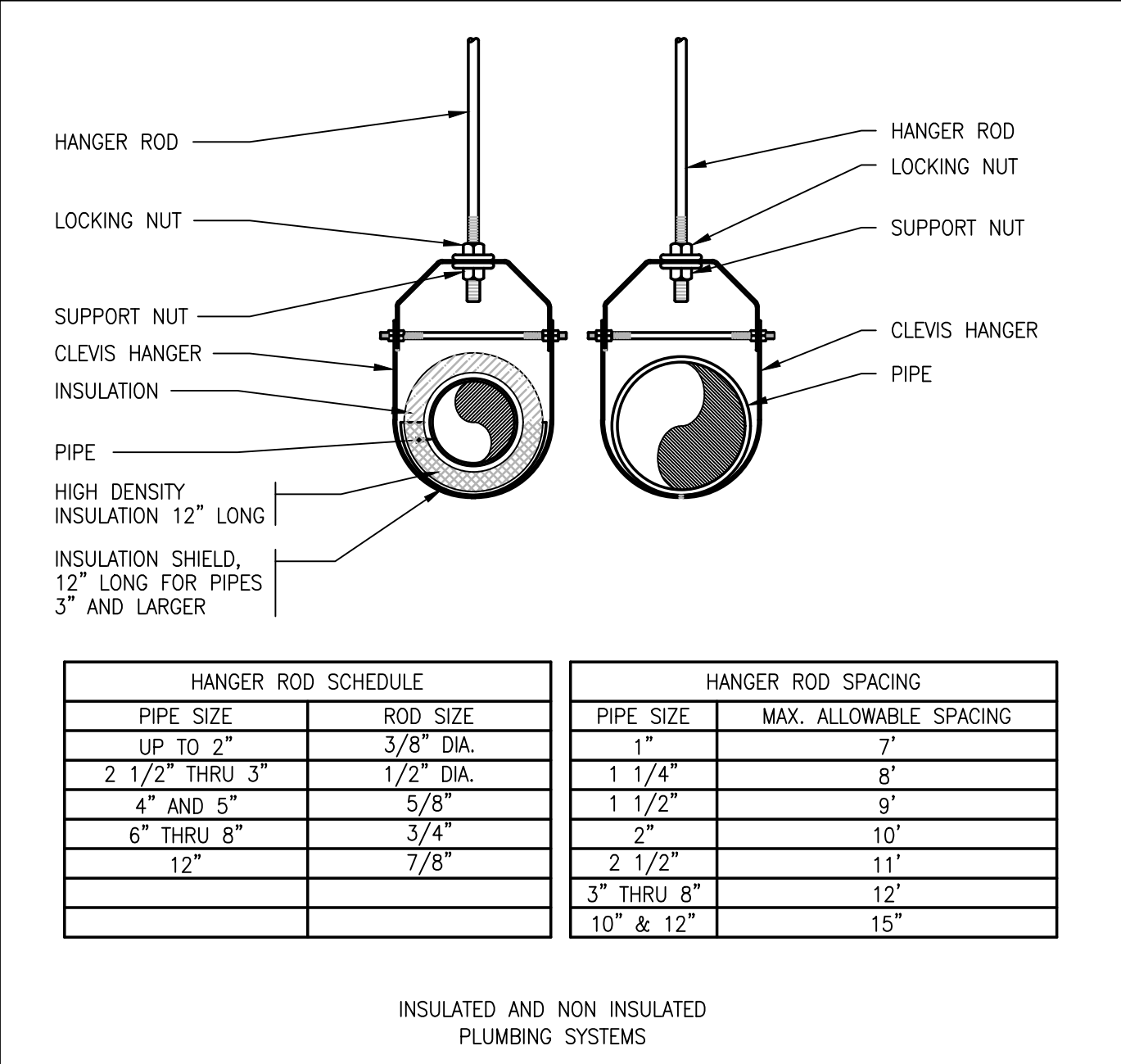
3 WALL HUNG ELECTRIC WATER HEATER DETAIL NTS



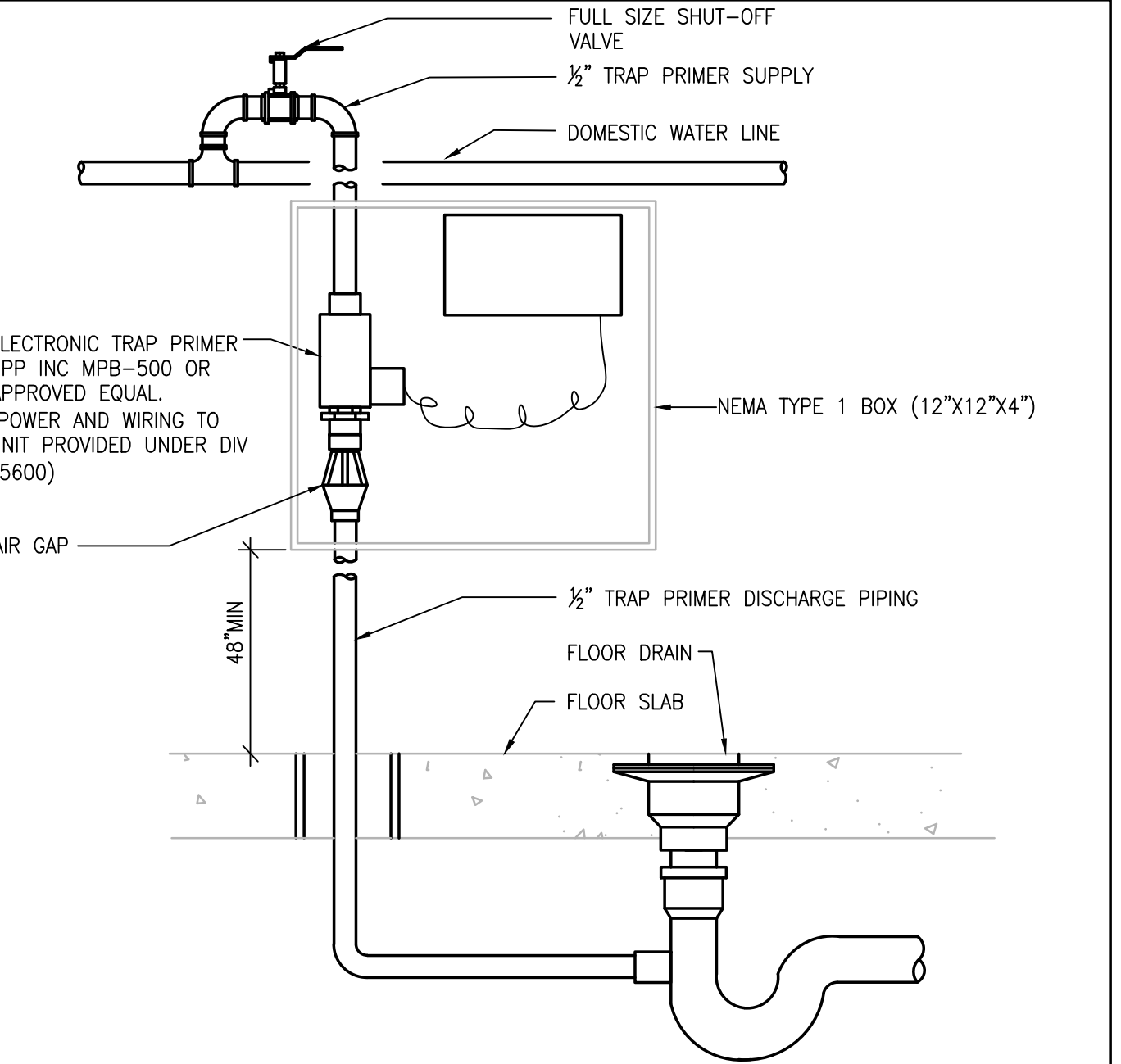
4 SUMP PUMP DETAIL NTS



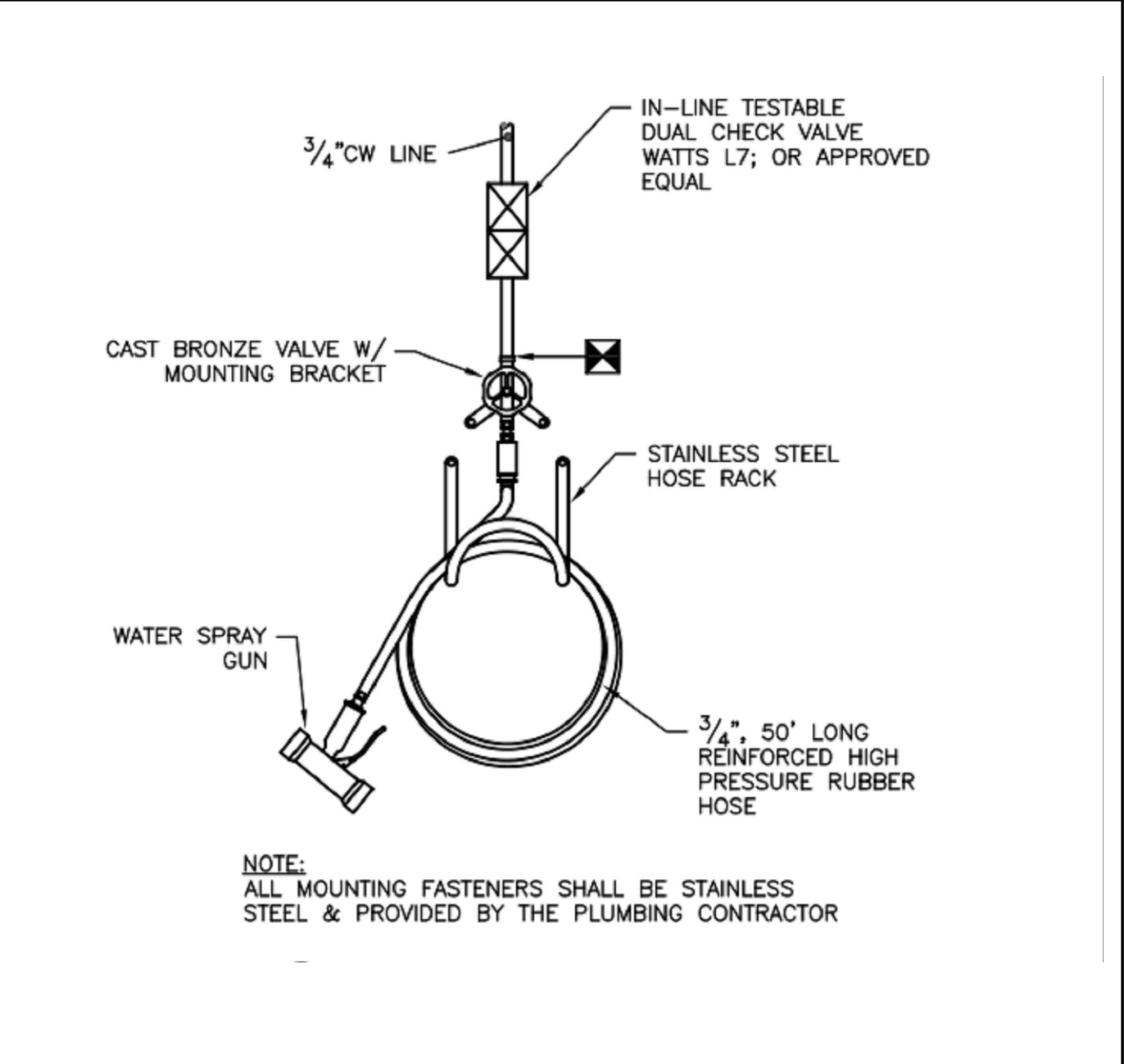
5 PIPING SLEEVE DETAIL NTS



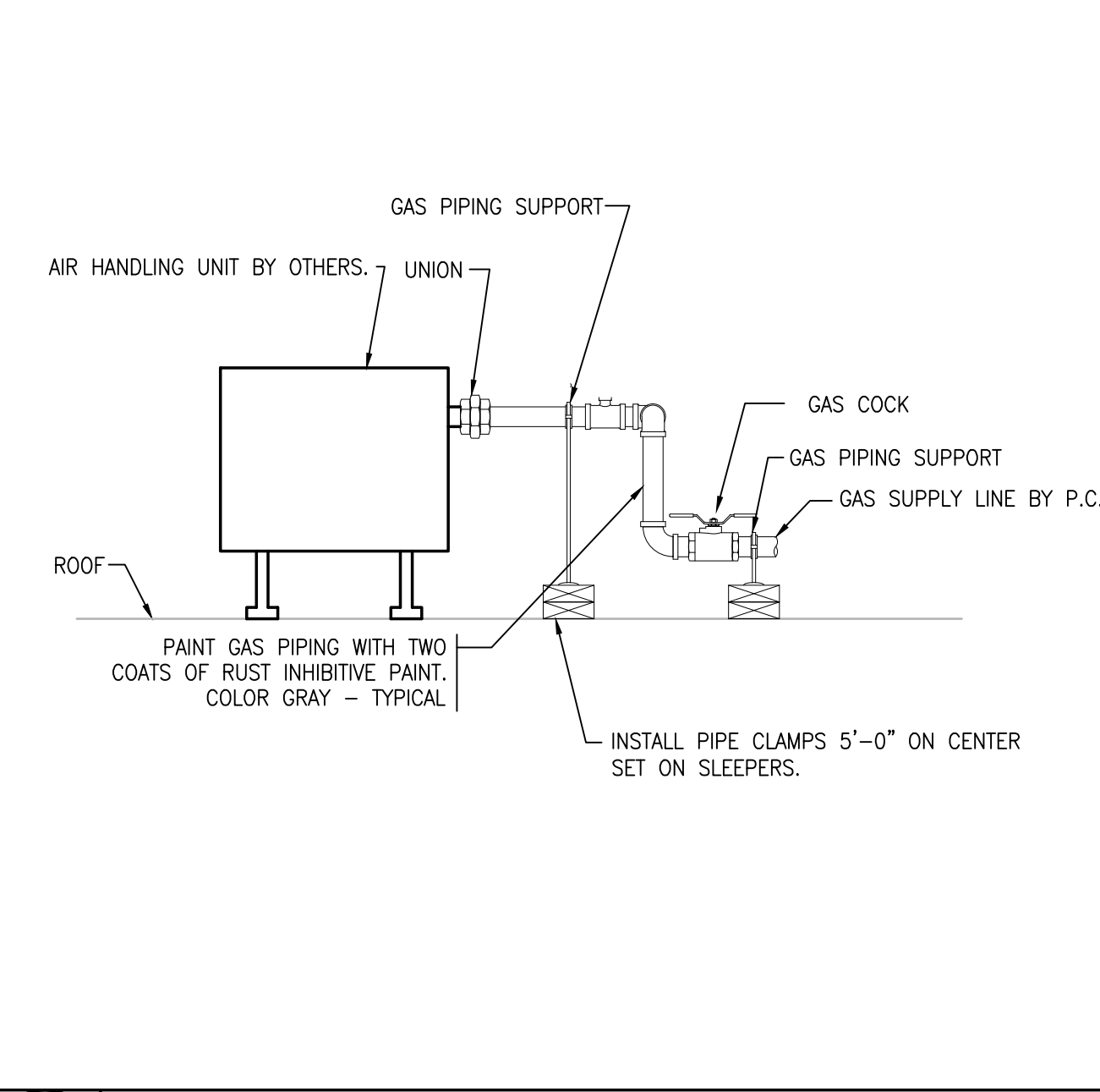
6 CLEVIS PIPE HANGER DETAIL NTS



7 TRAP PRIMER DETAIL NTS



8 WASH DOWN STATION DETAIL NTS



9 ROOFTOP UNIT GAS PIPING DETAIL NTS

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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**PLUMBING
DETAILS**

NO.	REVISIONS	DATE

DRAWN BY: RLB
DESIGNED BY: RLB
CHECKED BY: JAL
ISSUE DATE: 01/24/22
BETA JOB NO.: 5530-000

SCALE

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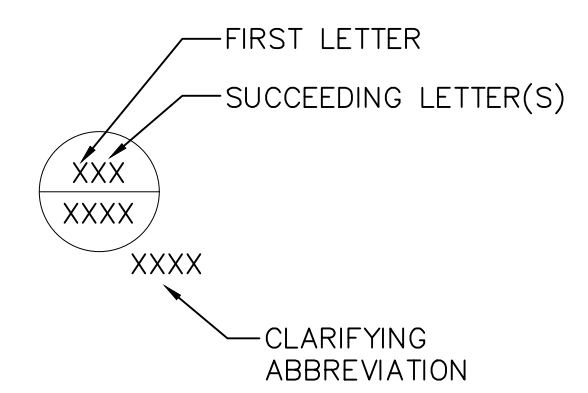
SHEET NO. P-6

ABBREVIATIONS

AM	AUTO-MANUAL
CP	CONTROL PANEL
DO	DISSOLVED OXYGEN
ES	EMERGENCY STOP
ETH	ETHERNET
FR	FORWARD-REVERSE
HI	HIGH
HOA	HAND-OFF-AUTO
JB	JUNCTION BOX
LR	LOCAL-REMOTE
MC	MOTOR CONTROLLER (STARTER)
OAC	OPEN-AUTO-CLOSE
OIT	OPERATOR INTERFACE TERMINAL
ORP	OXYGEN REDUCTION POTENTIAL
OS	OPERATOR STATION
PH	HYDROGEN ION CONCENTRATION
PRESS	PRESSURE
SS	START-STOP
TEMP	TEMPERATURE
TURB	TURBIDITY
VFD	VARIABLE FREQUENCY DRIVE
BTE	BIOLOGICAL TREATED EFFLUENT
CEN	CENTRATE
FA	FOUL AIR
LS	LIME SLURRY
PM	POLYMER
PI	PRIMARY INFLUENT
PS	PRIMARY SLUDGE
PTE	PRIMARY TANK EFFLUENT
RAS	RETURN ACTIVATED SLUDGE
RSW	RAW SEWAGE WATER
SAN	SANITRAY WASTE
SC	SCUM
SBS	SODIUM BISULFITE
SHC	SODIUM HYPOCHLORITE
SSE	SECONDARY SETTLED EFFLUENT
STO	SLUDGE THICKENER OVERFLOW
TEF	TREATED EFFLUENT WATER
TS	THICKENED SLUDGE
WAS	WASTE ACTIVATED SLUDGE

INSTRUMENT IDENTIFICATION LETTERS

PROCESS OR INITIATING VARIABLE	FIRST LETTER		SUCCEEDING LETTER(S)		
	MODIFIER	FUNCTION	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUST.		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
C	USER'S CHOICE		USER'S CHOICE	CLOSE	USER'S CHOICE
D	USER'S CHOICE	DIFFERENCE	USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
E	VOLTAGE		PRIMARY ELEMENT		
F	FLOW	FRACTION			
G	USER'S CHOICE		GLASS		
H	HAND, MANUAL		HORN		HIGH
I	CURRENT		INDICATE		
J	POWER	SCAN			
K	TIME, SCHEDULE			CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOISTURE, HUMIDITY				MIDDLE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		USER'S CHOICE	OPEN	USER'S CHOICE
P	PRESSURE, VACUUM		POINT, TEST		
Q	QUANTITY, EVENT	TOTALIZE			
R	RADIATION		RECORD, PRINT		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMP.			TRANSMIT	
U	MULTI-VARIABLE		MULTI-FUNCTION	MULTI-FUNCTION	MULTI-FUNCTION
V	VIBRATION			VALVE, DAMPER	
W	WEIGHT, FORCE		WELL		
X	UN-CLASSIFIED		UN-CLASSIFIED	UN-CLASSIFIED	UN-CLASSIFIED
Y	EVENT, STATE			RELAY, COMPUTE	
Z	POSITION			DRIVE, ACTUATOR	



LINE LEGEND

	NEW PROCESS PIPING
	EXISTING PROCESS PIPING
	PNEUMATIC AIR PIPING
	DIGITAL SIGNAL
	ANALOG SIGNAL
	ELECTRICAL POWER OR CONTROL
	FIELD INSTRUMENTATION
	PLC INTERFACE
	PANEL/OIT/SCADA DISPLAY AND OR CONTROL
	INDEPENDENT CONTROL CIRCUIT
	DRAWING AND OR PROCESS REFERENCE

SYMBOL LEGEND

	ACTUATOR - MOTORIZED
	ACTUATOR - SOLENOID
	AIR REGULATOR/SEPARATOR
	ANALYZER
	BLOWER/FAN
	CALIBRATION COLUMN
	COMPRESSOR - ROTARY TYPE
	DRAIN
	EDUCATOR
	ELECTRIC MOTOR
	EMERGENCY EYEWASH/SHOWER
	FLEX CONNECTION
	FLOW METER - MAGNETIC
	FLOW METER - ULTRASONIC STRAP ON
	FLOW METER - ROTAMETER
	FLOW METER - THERMAL MASS
	FLOW SWITCH
	GRINDER
	HOSE
	LEVEL SWITCH - FLOAT SWITCH
	LEVEL SWITCH - PADDLE WHEEL
	LEVEL TRANSMITTER - SUBMERSIBLE PRESSURE
	LEVEL TRANSMITTER - ULTRASONIC
	LEVEL TRANSMITTER - RADAR
	MACERATOR
	MIXER
	MIXER - SUBMERSIBLE
	MOTOR
	POSITION SWITCH
	PULSATION DAMPENER
	PUMP - CENTRIFUGAL
	PUMP - PERISTALTIC
	PUMP - PROGRESSING/CAVITY
	PUMP - RECIPROCATING/METERING
	PUMP - ROTARY LUBE
	PUMP - SUBMERSIBLE
	SLIDE OR SLUICE GATE
	STATIC MIXER
	VALVE - BALL
	VALVE - BUTTERFLY
	VALVE - CHECK
	VALVE - GATE
	VALVE - GLOBE
	VALVE - PINCH
	VALVE - PLUG
	VALVE - PRESSURE REGULATING
	VALVE - PRESSURE REGULATING
	VIBRATOR

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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**INSTRUMENTATION
& CONTROLS
LEGEND AND
NOTES**

NO.	REVISIONS	DATE

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 01/24/22

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SCALE

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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

INSTRUMENTATION
& CONTROLS
WET WELLS &
PUMPS

NO.	REVISIONS	DATE

DRAWN BY: RB
DESIGNED BY: MC
CHECKED BY: MC
ISSUE DATE: 01/24/22
BETA JOB NO.: 5530-000

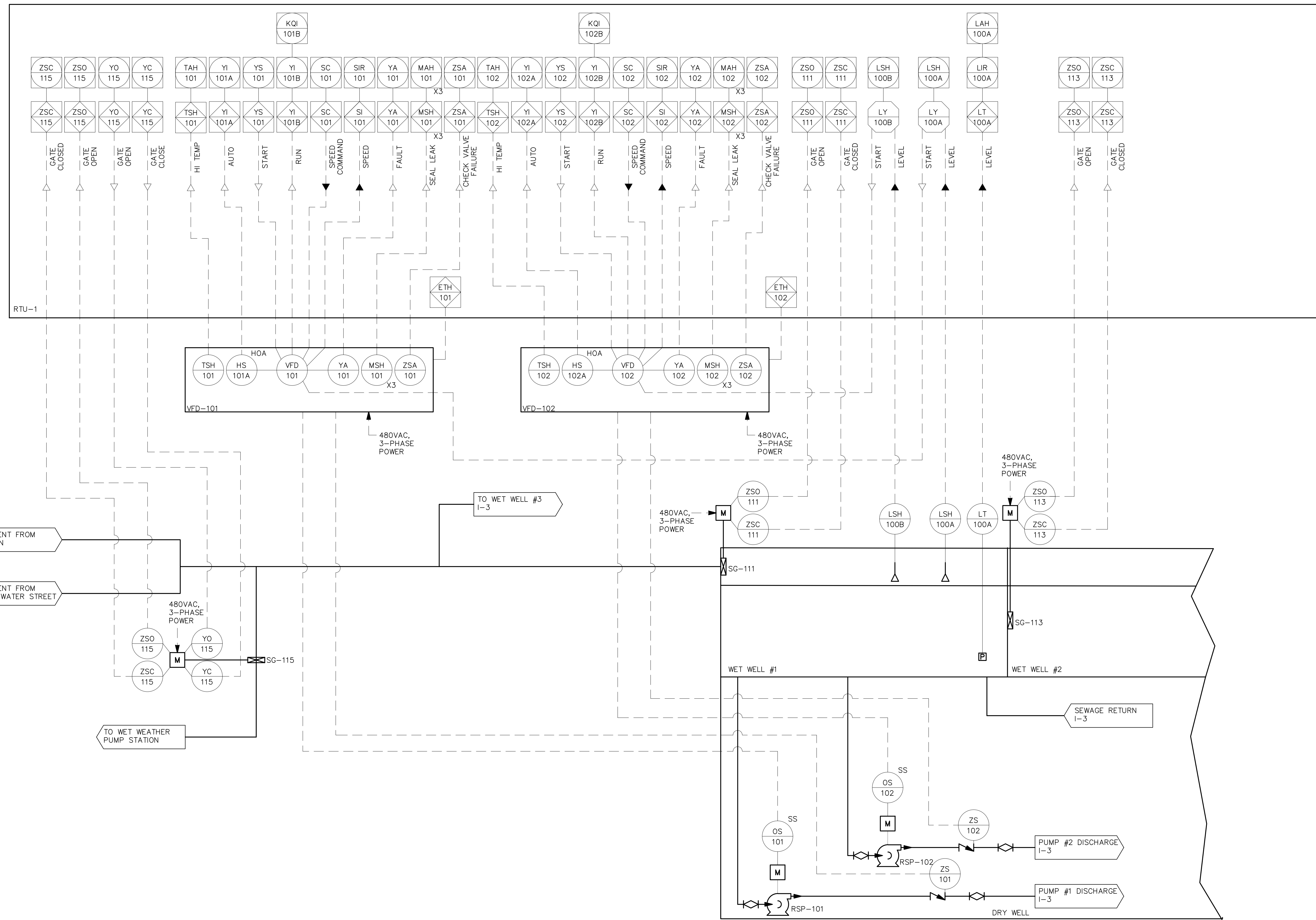
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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

INSTRUMENTATION
& CONTROLS
WET WELLS &
PUMPS

NO. REVISIONS DATE

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 01/24/22

BETA JOB NO.: 5530-000

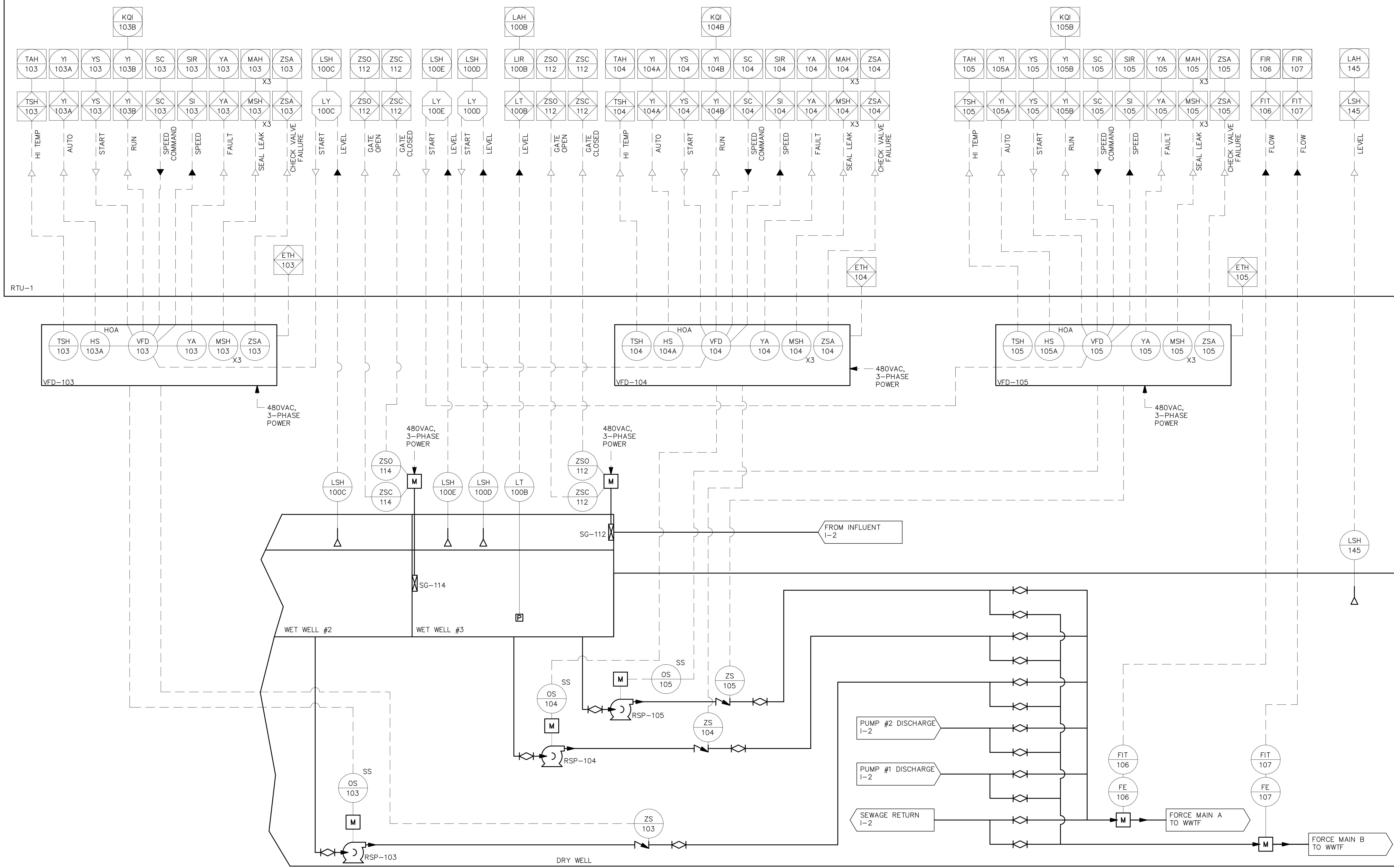
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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

INSTRUMENTATION
& CONTROLS
STATION
MONITORING

NO.	REVISIONS	DATE
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DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 01/24/22

BETA JOB NO.: 5530-000

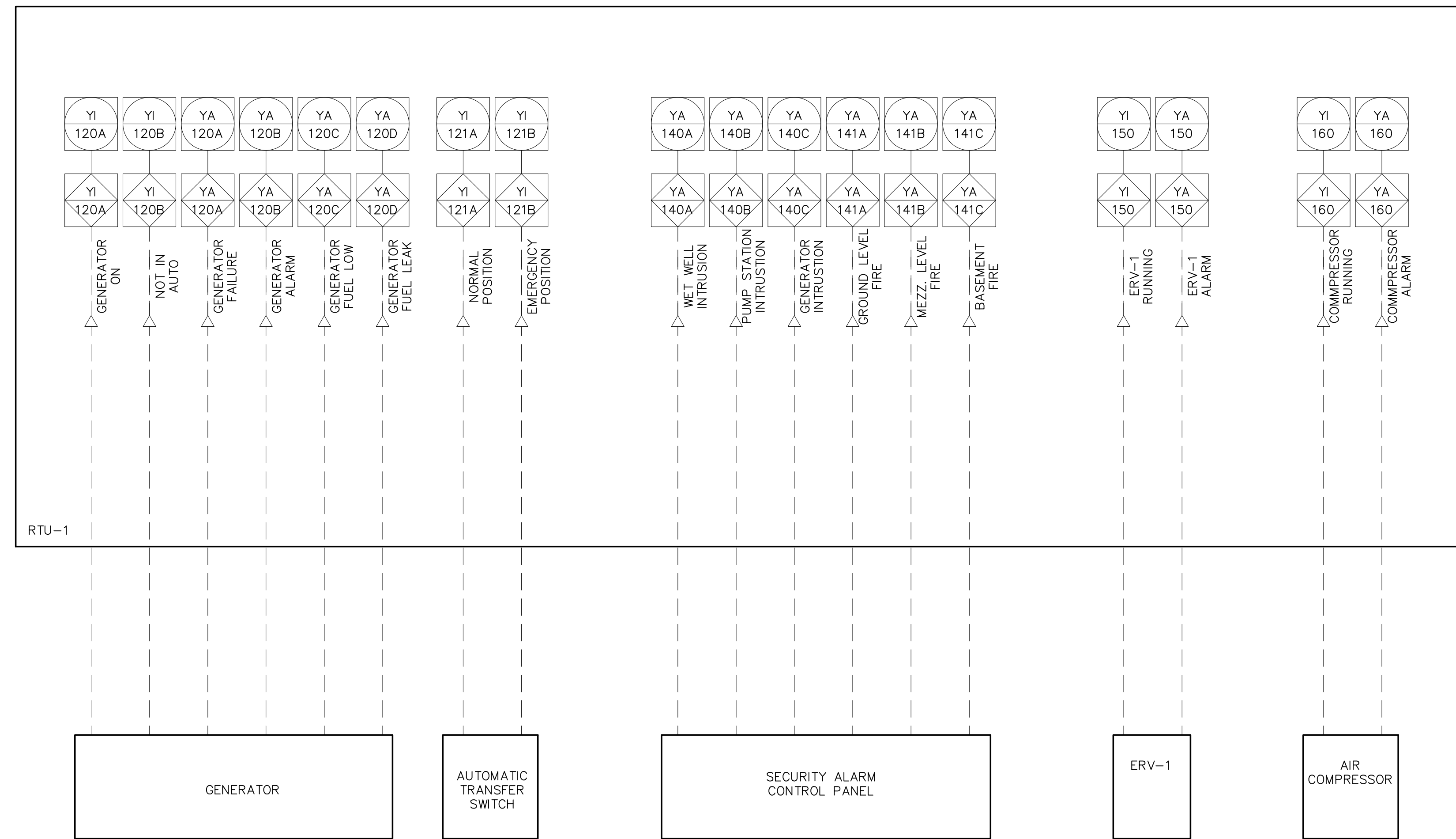
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ELECTRICAL SYMBOLS

Table of electrical symbols including lighting fixtures (F1), switches (S1, S2, S30), receptacles (1, 2, 30, 20), transformers (XX), and motor starters (MCP, VFD).

ELECTRICAL SYMBOLS

Table of electrical symbols including underground conduit (PP1), homerun designations, surge protection (SPD), utility poles, circuit breakers (20, 100), transformers (XX), and emergency stop (E).

ELECTRICAL SYMBOLS

Table of electrical symbols including magnetic door switch (DS), security key pad (KP), help call pushbutton (HC), heat detector (D), security alarm control panel (SACP), gas detection systems (GDC, GD), and alarm beacons (A).

ABBREVIATIONS

Table of abbreviations for conduits (2, 3), floor levels (AFF, AFG), relays (AR), switches (ATS, CR), drawings (DRG), and equipment (EAN, EC, ETM, FE, FIT, FS, FT, FVNR, GND, HOA, HH, J, JPB, LE, LIT, LL, LS, LT, MCC, MH, MFR, NTS, OH, OL, PB, PBL, PBM, PIT, PL, PS, PT, RGS, SPD, SOV, S/S, TB, TD, TR, TS, TSP, TSTW, TYP, UG, VFD, WP).

GENERAL NOTES

- 1. GENERAL CONTRACTOR TO PROVIDE CONCRETE HOUSEKEEPING PADS ON ALL FLOOR AND GRADE MOUNTED ELECTRICAL EQUIPMENT...
2. ALL CONDUIT AND EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE...
3. BONDING JUMPERS, CONDUIT CLAMPS AND POINTS OF ATTACHMENT ARE NOT SHOWN ON DRAWINGS...
4. EQUIPMENT & CONDUIT INSTALLATIONS ARE SHOWN DIAGRAMMATICALLY ONLY...
5. CONDUITS SHALL BE TERMINATED SO AS TO PERMIT NEAT CONNECTIONS TO MOTORS AND OTHER EQUIPMENT...
6. NO CONDUIT SMALLER THAN 3/4" PIPE SIZE NOR WIRE SMALLER THAN NO. 12 A.W.G. SHALL BE USED...
7. RECEPTACLES AND SWITCHES SHALL BE MOUNTED 45" ABOVE FINISHED FLOOR...
8. THE WIRING AND BLOCK DIAGRAMS, QUANTITY AND SIZE OF WIRES AND CONDUIT REPRESENT A SUGGESTED ARRANGEMENT...

DEMOLITION NOTES

- 1. UNLESS OTHERWISE NOTED, ALL EXISTING ELECTRICAL SYSTEMS WITHIN HATCH MARKS AND ASSOCIATED EQUIPMENT IS TO BE DEMOLISHED. DISCONNECT AND DE-ENERGIZE THE EQUIPMENT. REMOVE THE EQUIPMENT TO BE DEMOLISHED PER SECTION 02050. ALL CONDUIT, CABLING, BOXES, SUPPORTS, ETC, ASSOCIATED WITH THE DEMOLISHED EQUIPMENT SHALL BE REMOVED. THE EXPOSED CONDUIT AND SHALL BE REMOVED BACK TO SOURCE, ALL CABLING SHALL BE REMOVED BACK TO SOURCE.
2. NO DEVICE OR EQUIPMENT INDICATED FOR DEMOLITION WILL BE REUSED OR SALVAGED UNLESS SPECIFICALLY NOTED AS SUCH. ALL EQUIPMENT REMOVED SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF, PRIOR TO REMOVAL OF EQUIPMENT COORDINATE WITH OWNER FOR ANY EQUIPMENT THE OWNER WILL KEEP.
3. EXISTING EQUIPMENT INDICATED ON THE DEMOLITION PLANS ARE BASED ON SITE OBSERVATIONS AND IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL EQUIPMENT AND MATERIALS TO BE DISCONNECTED AND/OR REMOVED.

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PROJECT

MAIN LIFT PUMP STATION

TAUNTON, MA

TITLE

ELECTRICAL LEGEND AND NOTES

Table with columns: NO., REVISIONS, DATE

Table with columns: DRAWN BY (RB), DESIGNED BY (MC), CHECKED BY (MC), ISSUE DATE (01/24/22), BETA JOB NO. (5530-000)

SCALE

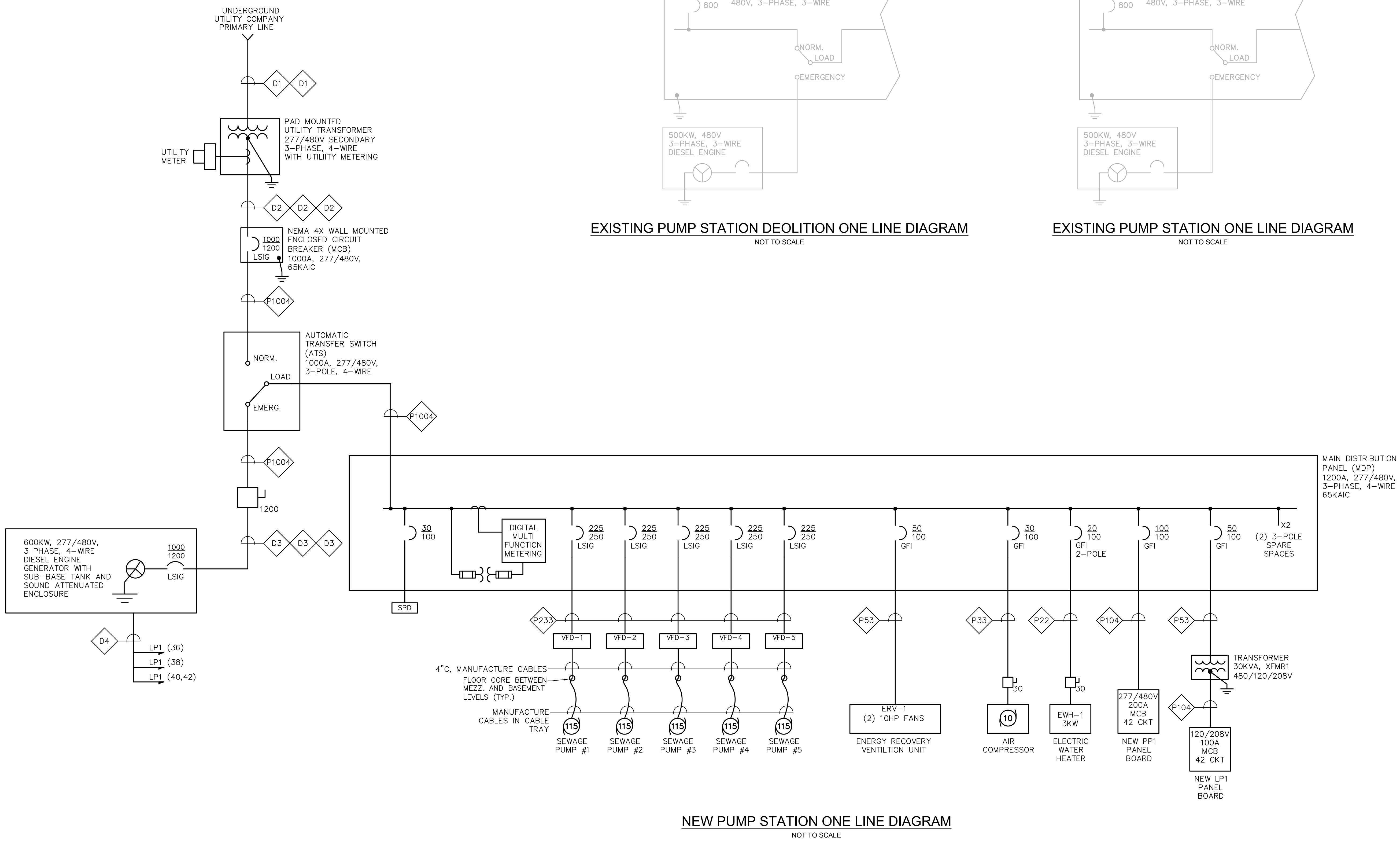
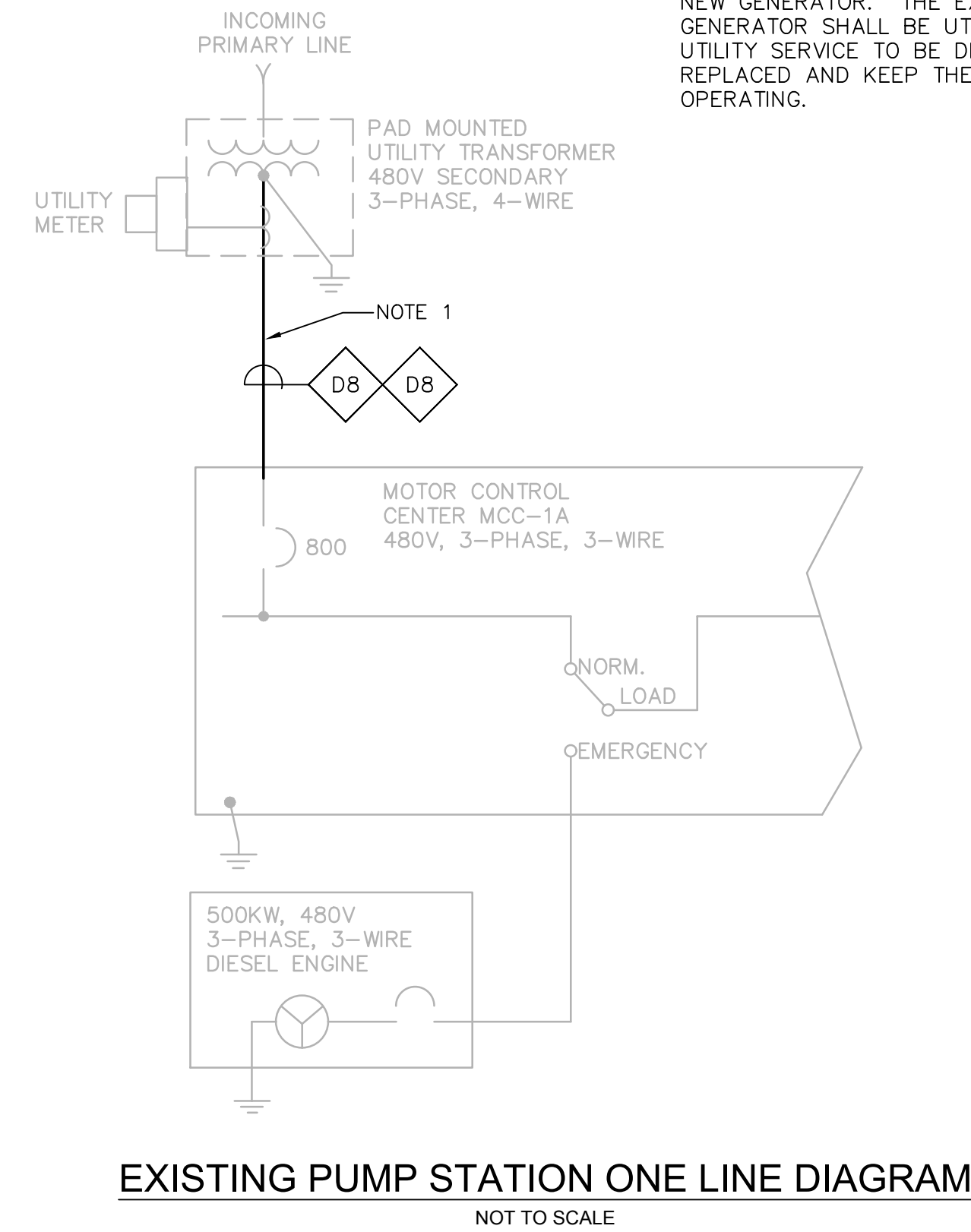
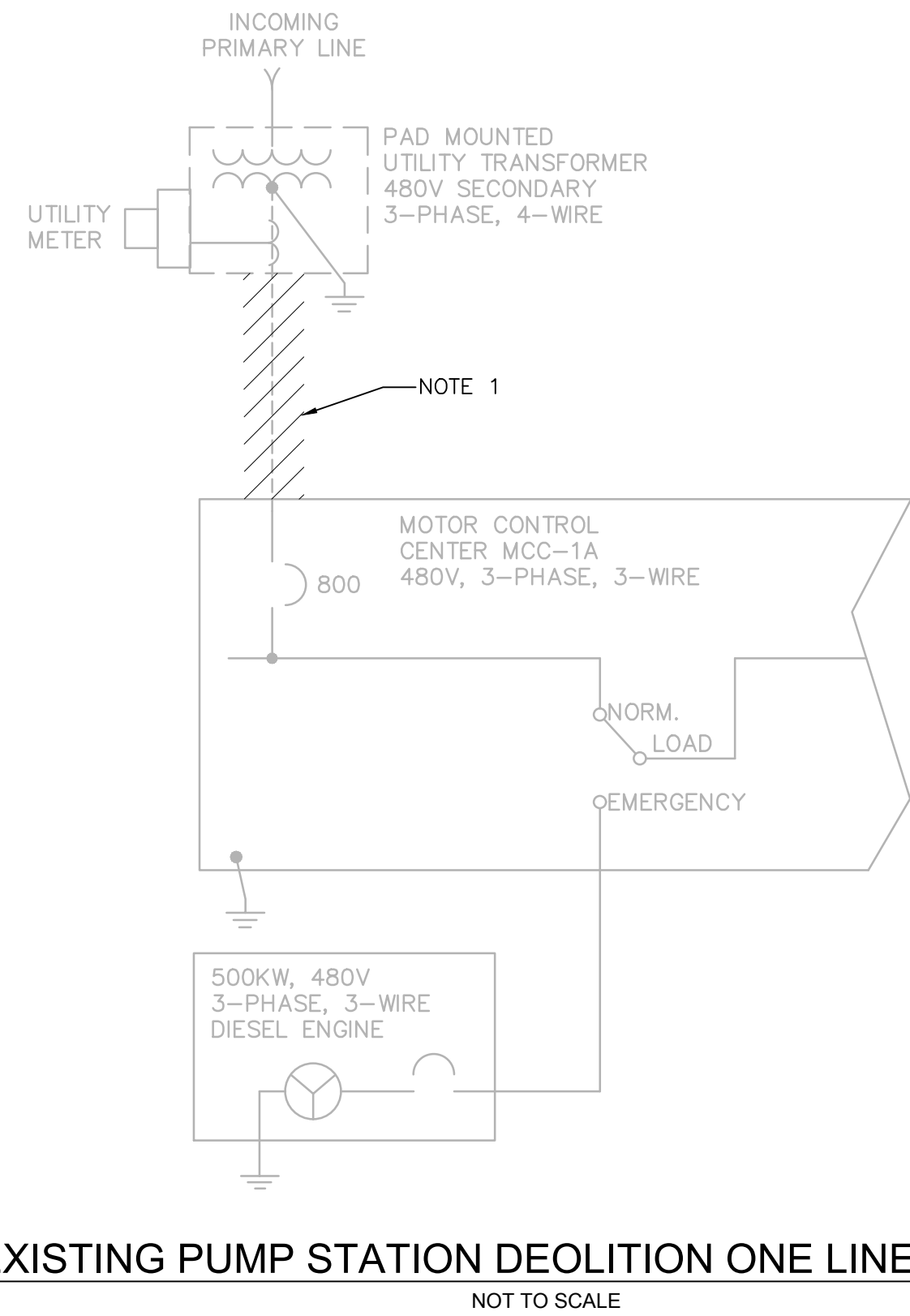
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- NOTES:**
1. EXISTING ELECTRICAL UTILITY SERVICE TO THE EXISTING PUMP STATION IS TO BE REMOVED AND REPLACED TO FACILITATE THE INSTALLATION OF THE NEW GENERATOR. THE EXISTING PUMP STATION'S GENERATOR SHALL BE UTILIZED TO ALLOW THE UTILITY SERVICE TO BE DISCONNECTED AND REPLACED AND KEEP THE EXISTING PUMP STATION OPERATING.



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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**ELECTRICAL
ONE LINE
DIAGRAM**

NO.	REVISIONS	DATE

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DESIGNED BY: MC
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ISSUE DATE: 01/24/22
BETA JOB NO.: 5530-000

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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**ELECTRICAL
SITE PLAN**

NO.	REVISIONS	DATE

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 01/24/22

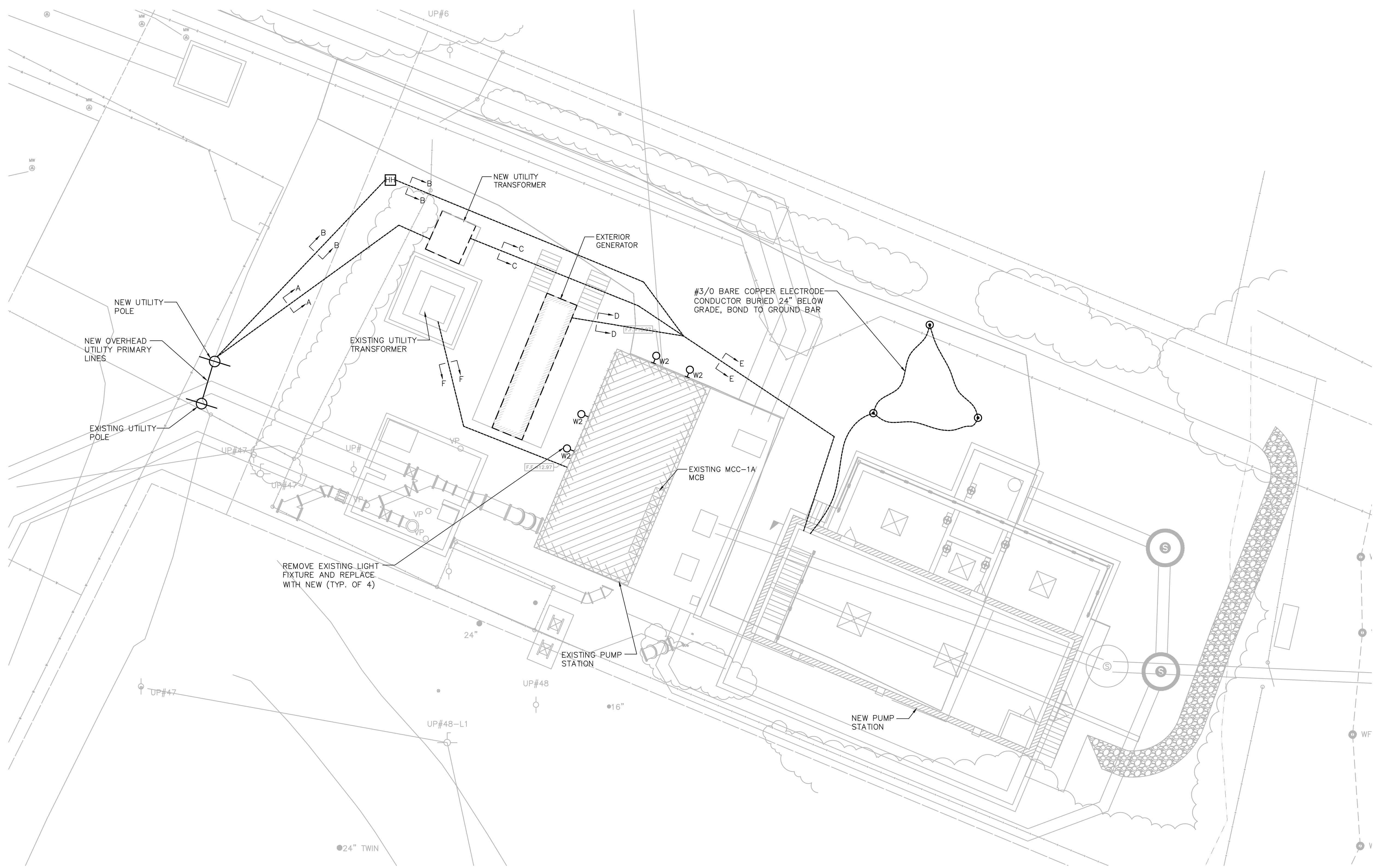
BETA JOB NO.: 5530-000

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SHEET NO. **E-3**



ELECTRICAL SITE PLAN
SCALE: 1" = 10'-0"

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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

BASEMENT
LEVEL
POWER AND
LOW VOLTAGE
PLAN

NO. REVISIONS DATE

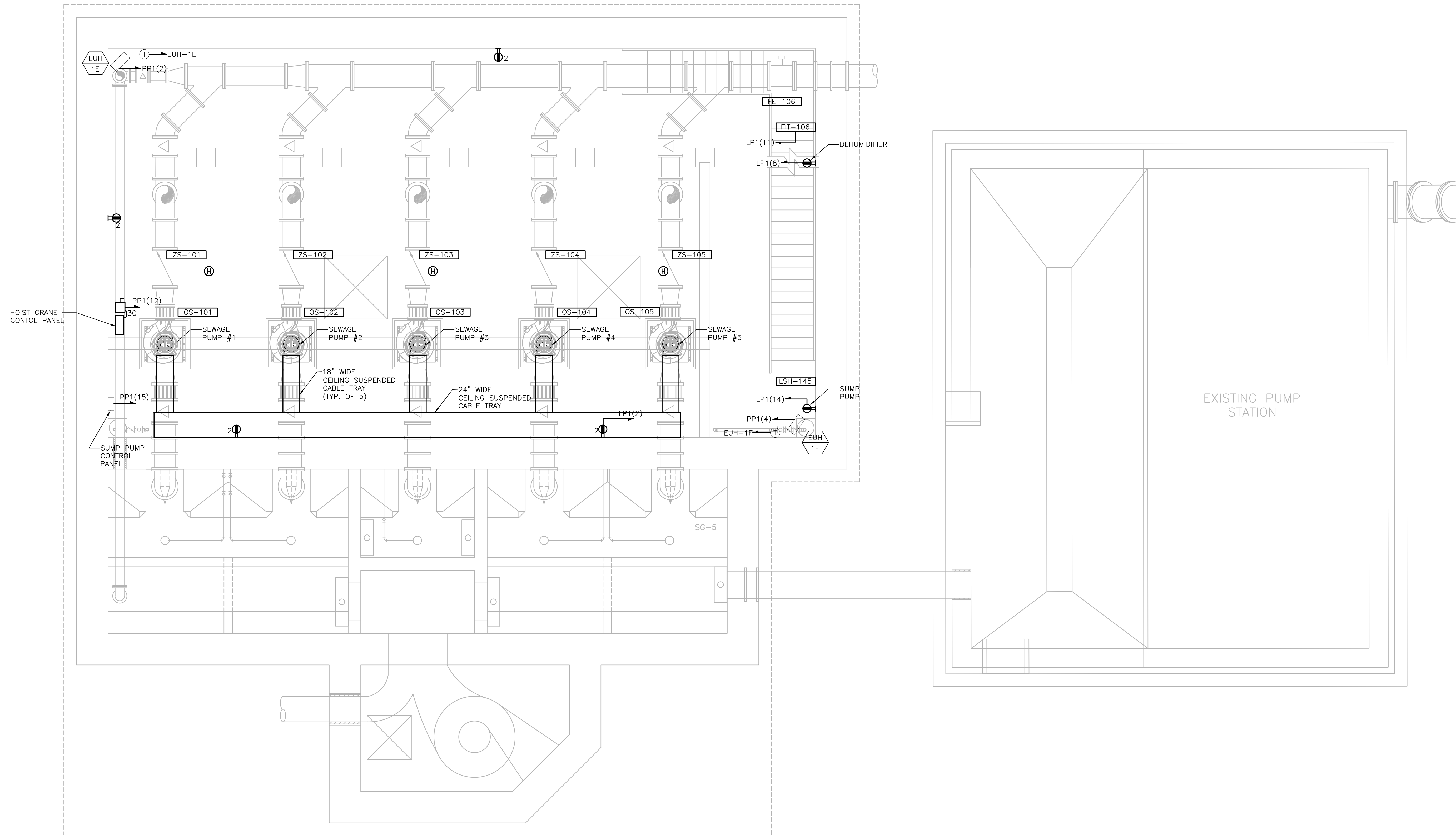
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BASEMENT LEVEL POWER AND LOW VOLTAGE PLAN
SCALE: 1/4" = 1'

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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**MEZZANINE LEVEL
POWER AND
LOW VOLTAGE PLAN**

NO.	REVISIONS	DATE

DRAWN BY:	RB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	01/24/22
BETA JOB NO.:	5530-000

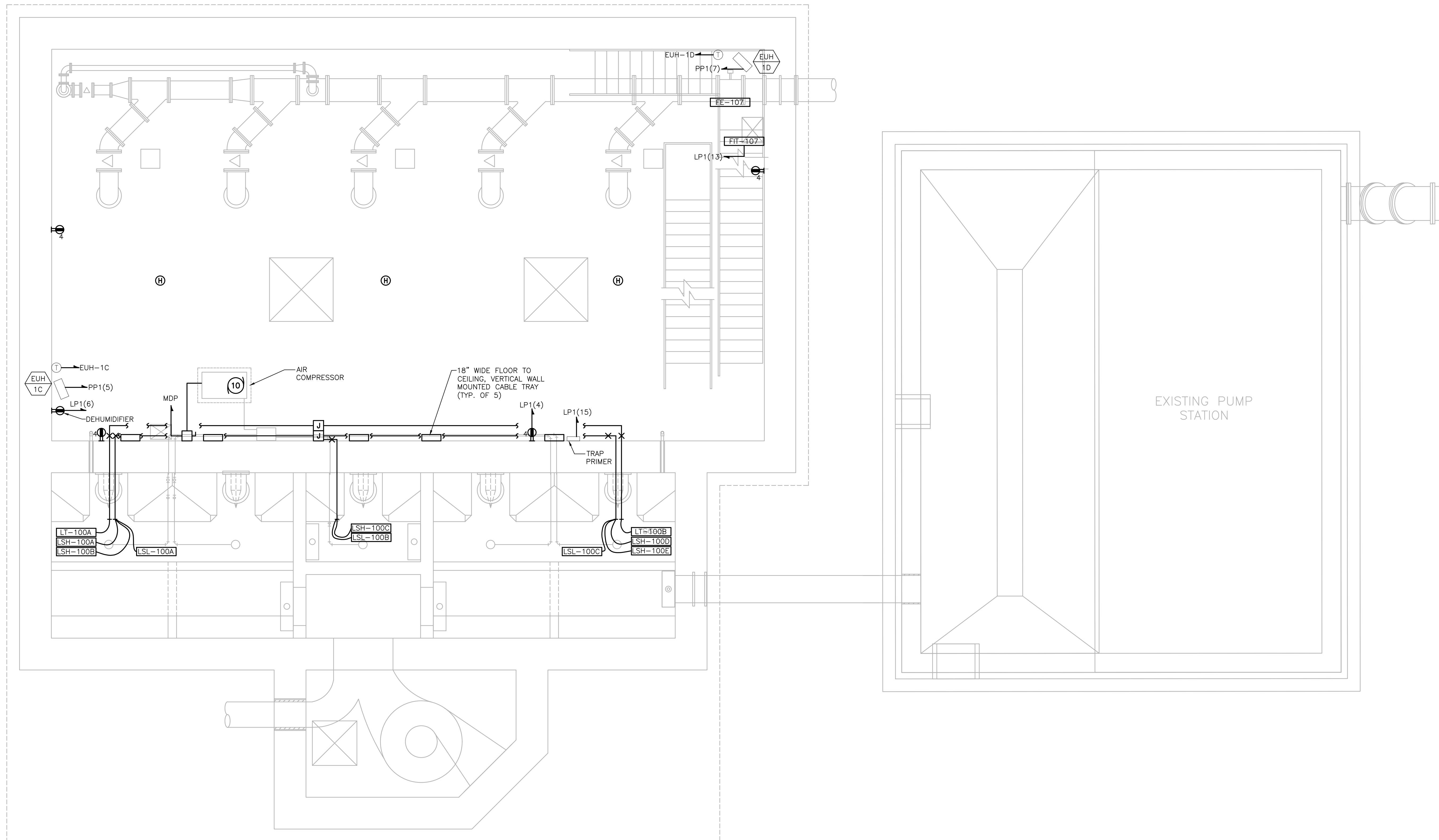
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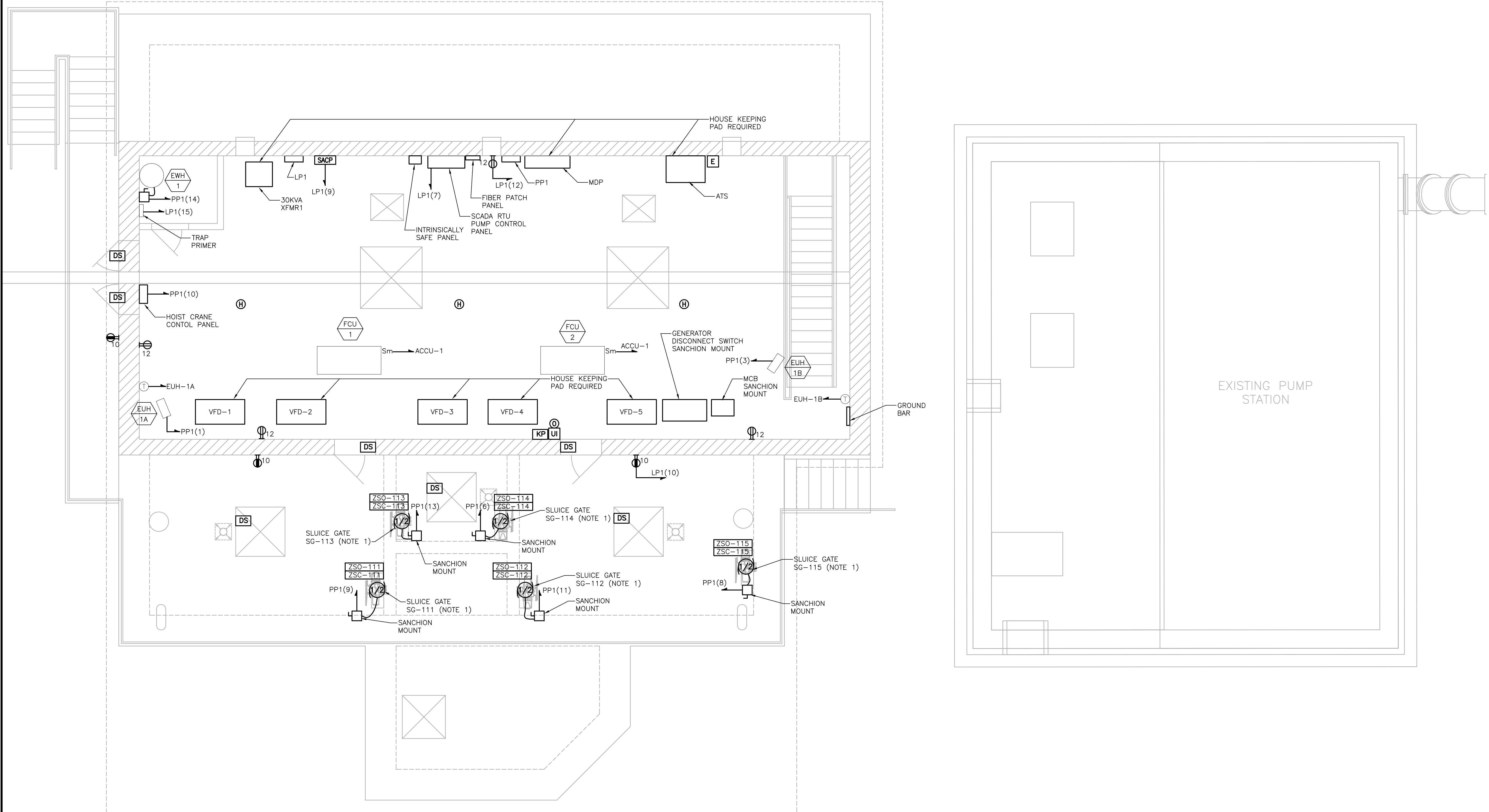


MEZZANINE LEVEL POWER AND LOW VOLTAGE PLAN
SCALE: 1/4" = 1'

1/10/2022 1:36 PM W:\YEAR_2017\7063.00 - TAUNTON MAIN LIFT PUMP STATION\ELECTRICAL\DEPARTMENT\7063.00.ELEC.DWG

NOTES:

1. ALL CONDUIT FOR WIRING ASSOCIATED WITH THE SLUICE GATES SHALL BE INSTALLED WITHIN THE WET WELL ON THE UNDERSIDE ROOF SLAB OF THE WET WELL.



GROUND FLOOR POWER AND LOW VOLTAGE PLAN
SCALE: 1/4" = 1'

PREPARED BY



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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

GROUND FLOOR
POWER AND
LOW VOLTAGE
PLAN

NO.	REVISIONS	DATE

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 01/24/22

BETA JOB NO.: 5530-000

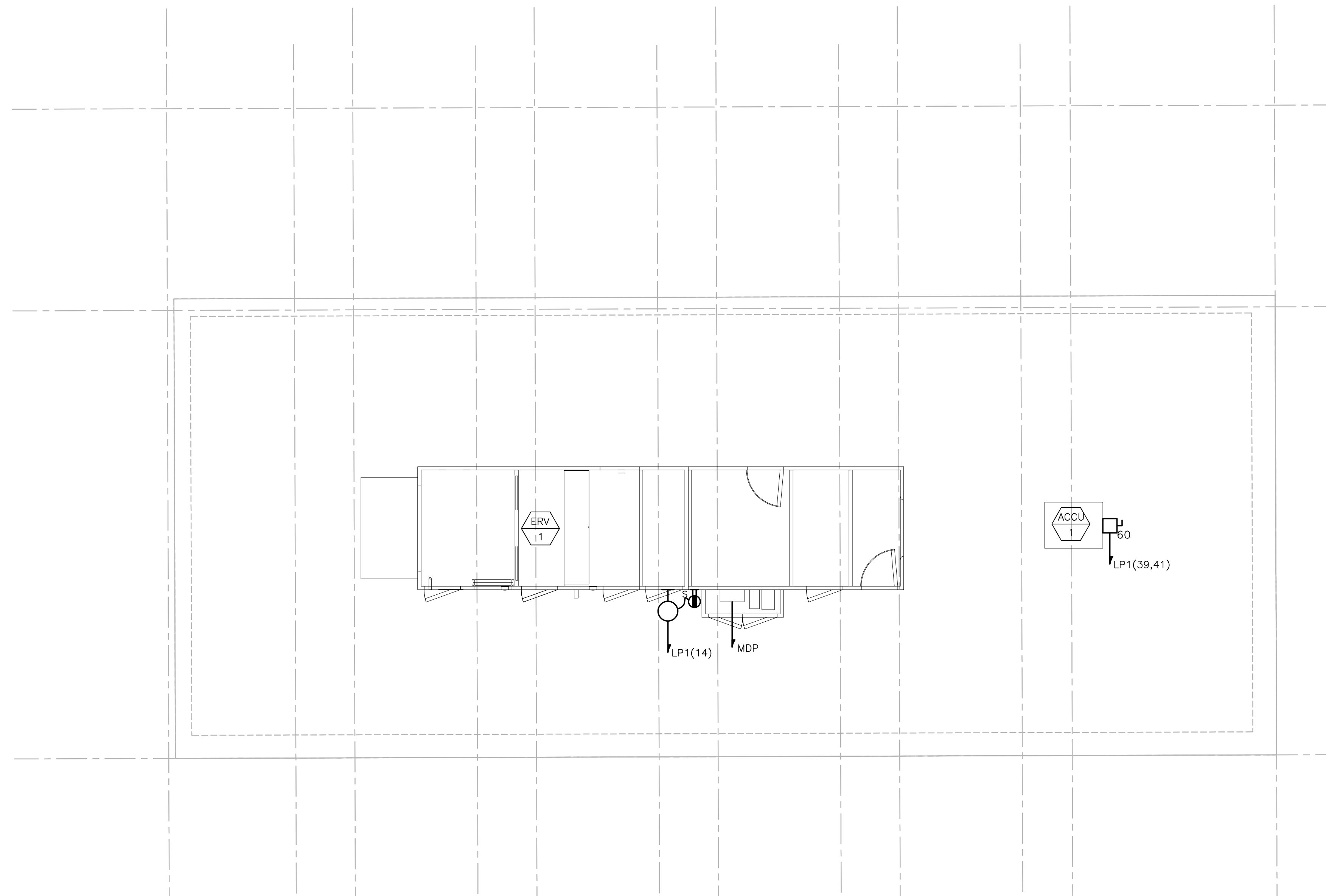
SCALE

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For Review Only

SHEET NO. E-6

1/10/2022 1:36 PM - W:\YEAR - 2017\717003.00 - TAUNTON MAIN LIFT PUMP STATION\ELECTRICAL DEPARTMENT\717003.00\ELEC.DWG



ROOF POWER PLAN
SCALE: 1/4" = 1'

PREPARED BY



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SUBCONSULTANT



Mechanical/Electrical Engineers
150 Grossman Drive, Suite 209
Braintree, Massachusetts 02184
617-221-9220
web: www.sar.com

PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**ROOF
POWER
PLAN**

NO.	REVISIONS	DATE
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DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 01/24/22

BETA JOB NO.: 5530-000

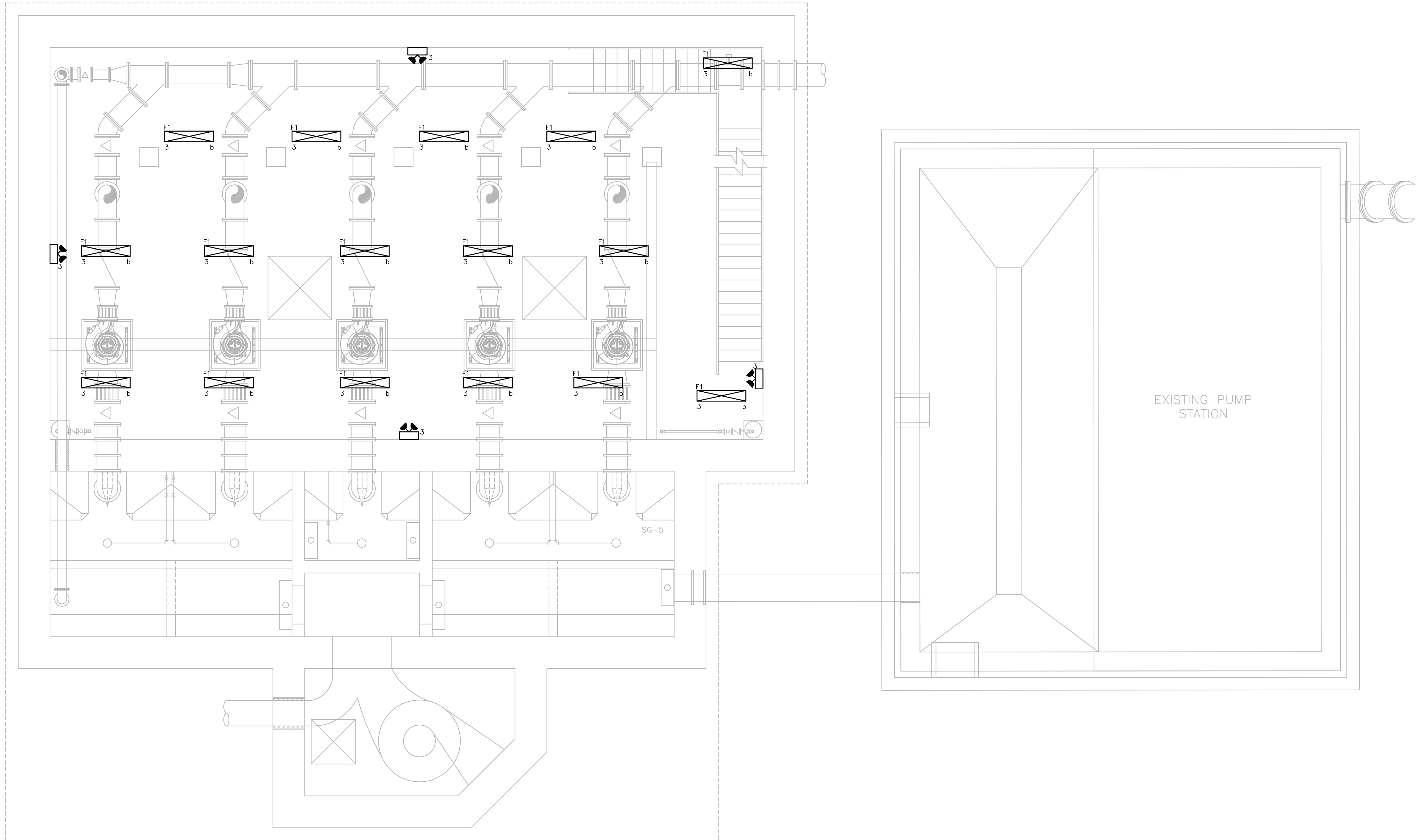
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SHEET NO. **E-7**

1/19/2022 1:36 PM W:\YEAR - 2017\17003.00 - TAUNTON MAIN LIFT PUMP STATION\ELECTRICAL DEPARTMENT\17003.00 ELEC.DWG



BASEMENT LEVEL LIGHTING PLAN
SCALE: 1/4" = 1'

PREPARED BY



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PROJECT

**MAIN LIFT
PUMP STATION**

TAUNTON, MA

TITLE

**BASEMENT
LEVEL
LIGHTING
PLAN**

NO.	REVISIONS	DATE
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DRAWN BY:	RB
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DESIGNED BY:	MC
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CHECKED BY:	MC
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ISSUE DATE:	01/24/22
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BETA JOB NO.:	5530-000
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PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

TITLE

MEZZANINE LEVEL
LIGHTING PLAN

NO. REVISIONS DATE

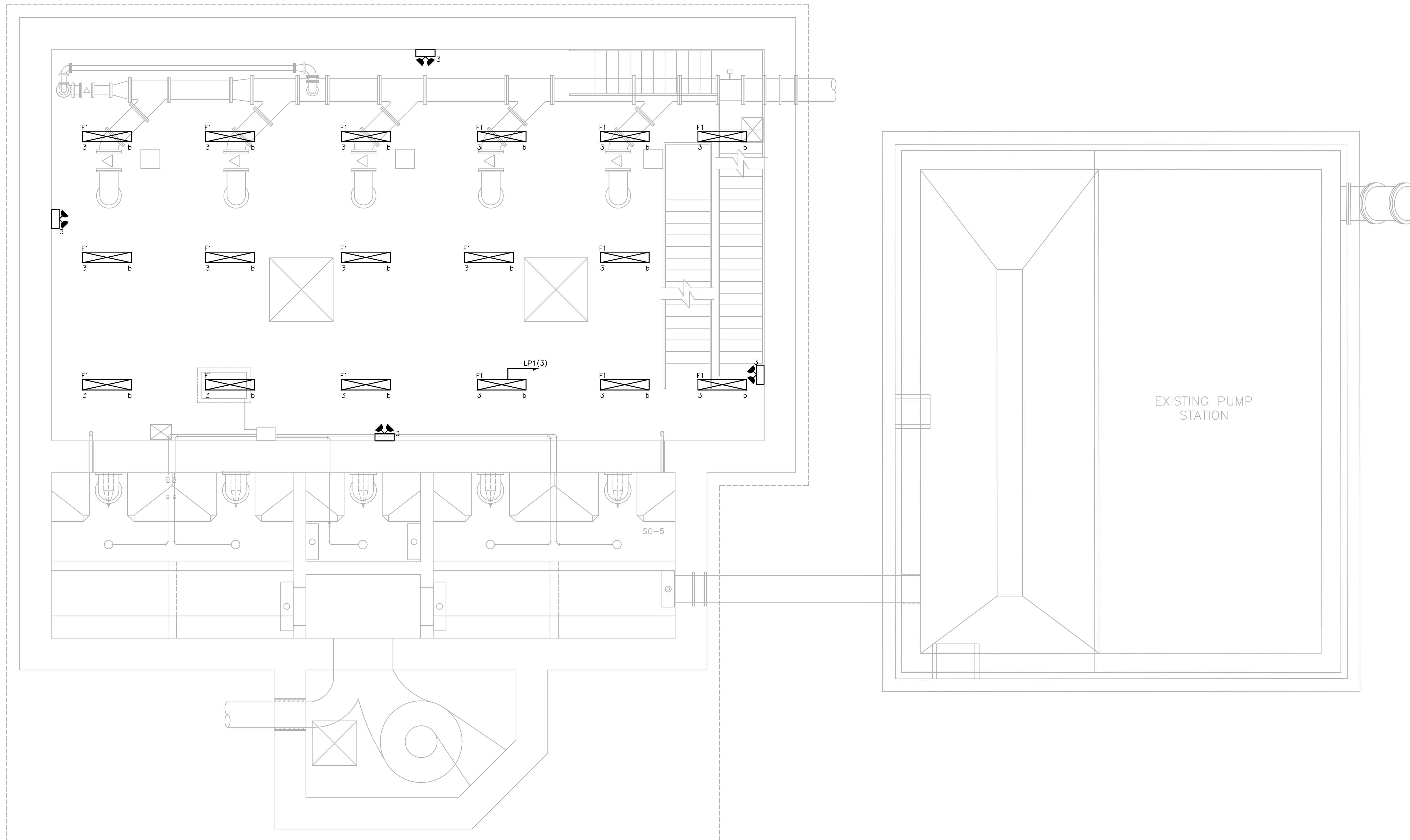
DRAWN BY: RB
DESIGNED BY: MC
CHECKED BY: MC
ISSUE DATE: 01/24/22
BETA JOB NO.: 5530-000

SCALE

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SHEET NO. E-9



MEZZANINE LEVEL LIGHTING PLAN
SCALE: 1/4" = 1'



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 Braintree, Massachusetts 02184
 617 221-9220
 web: www.sar.com

NO.	REVISIONS	DATE

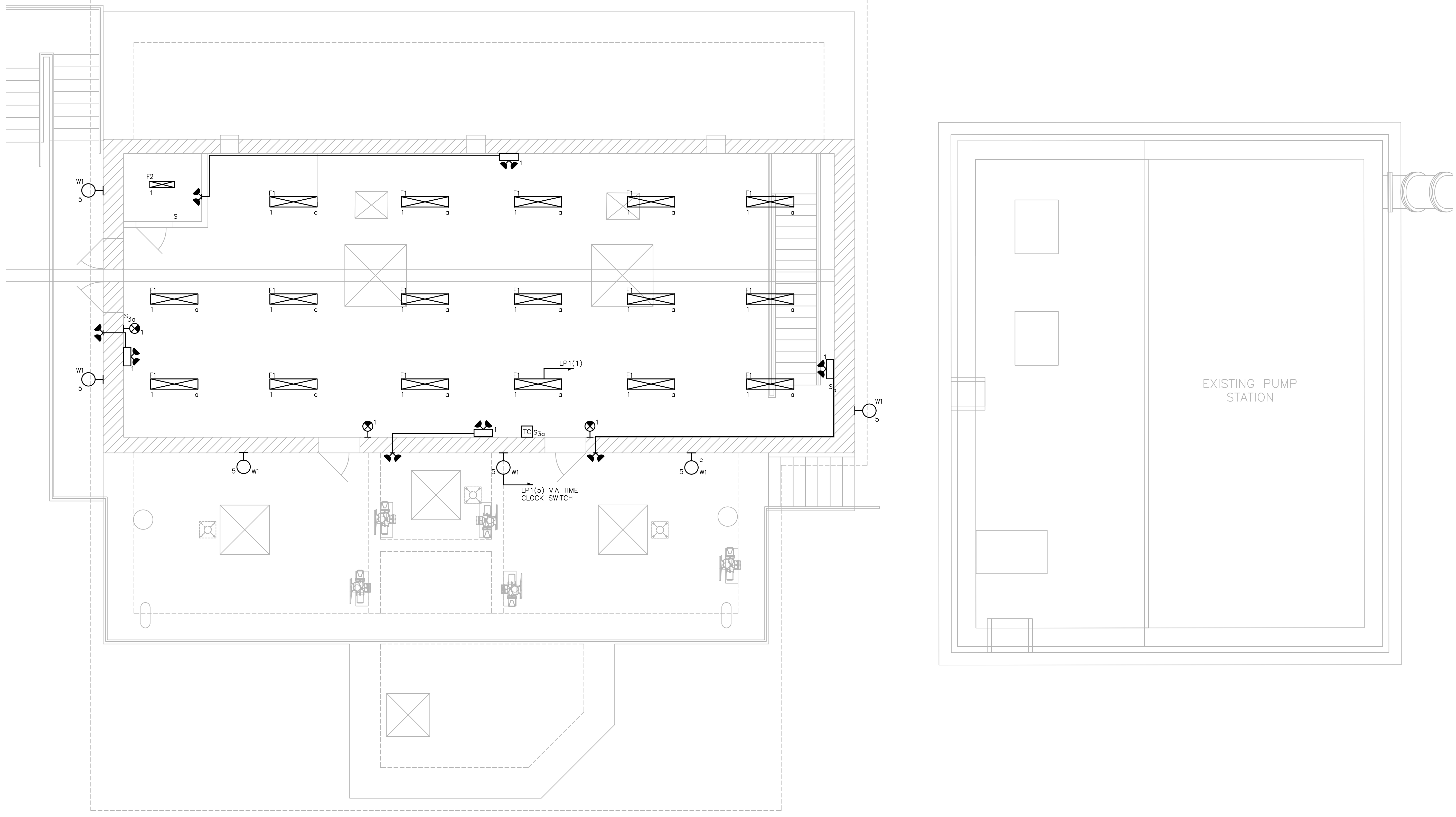
DRAWN BY:	RB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	01/24/22
BETA JOB NO.:	5530-000

SCALE

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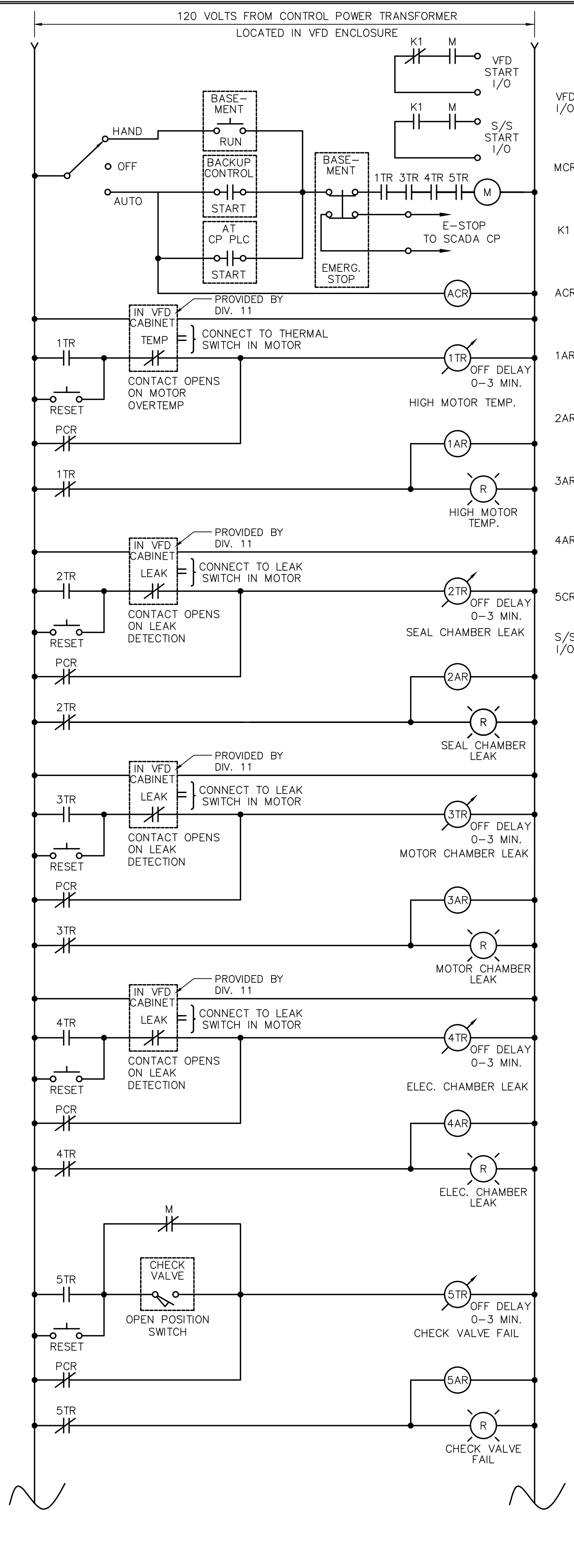
For Review Only

SHEET NO. E-10

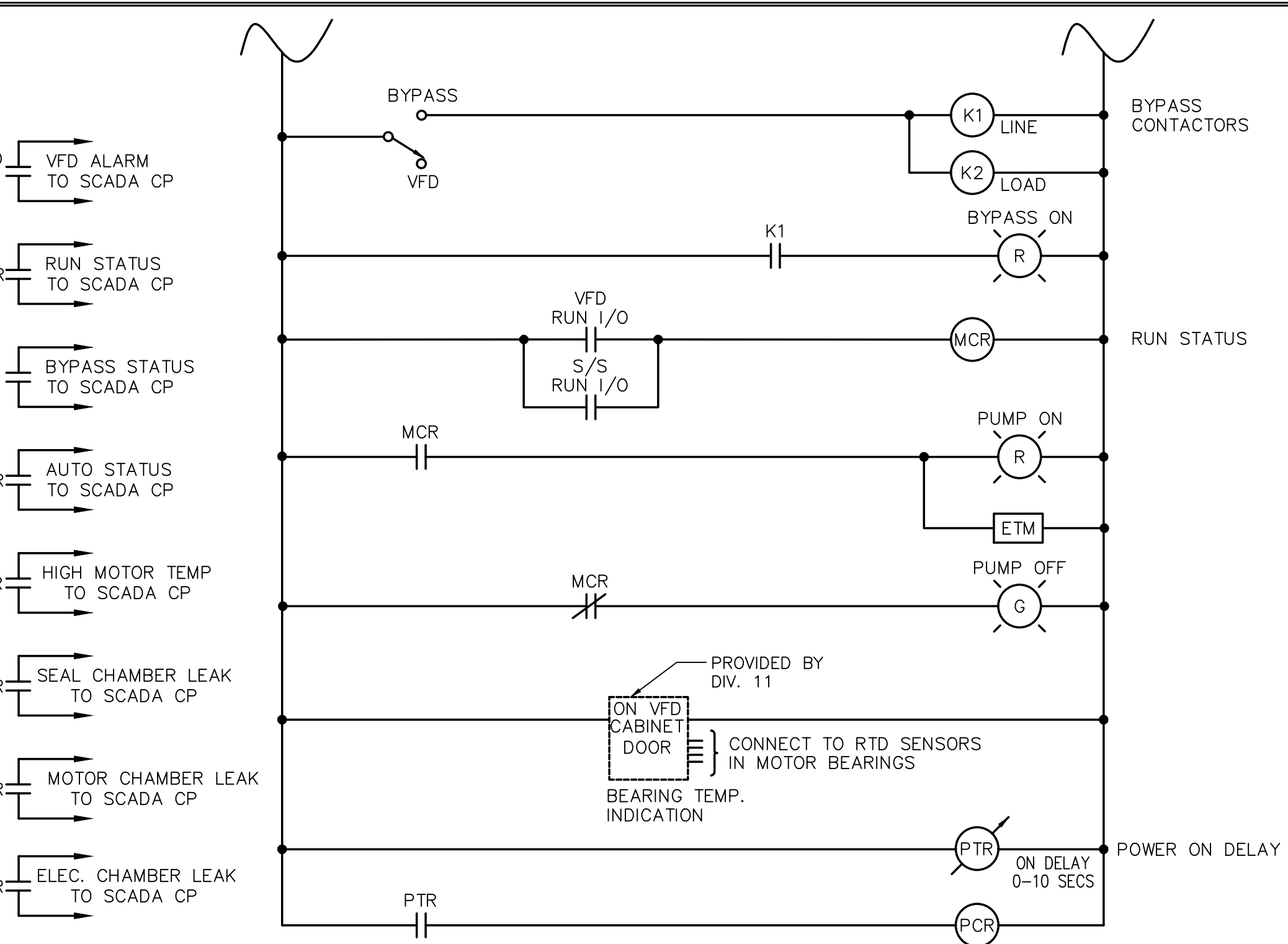


GROUND LEVEL LIGHTING PLAN
SCALE: 1/4" = 1'

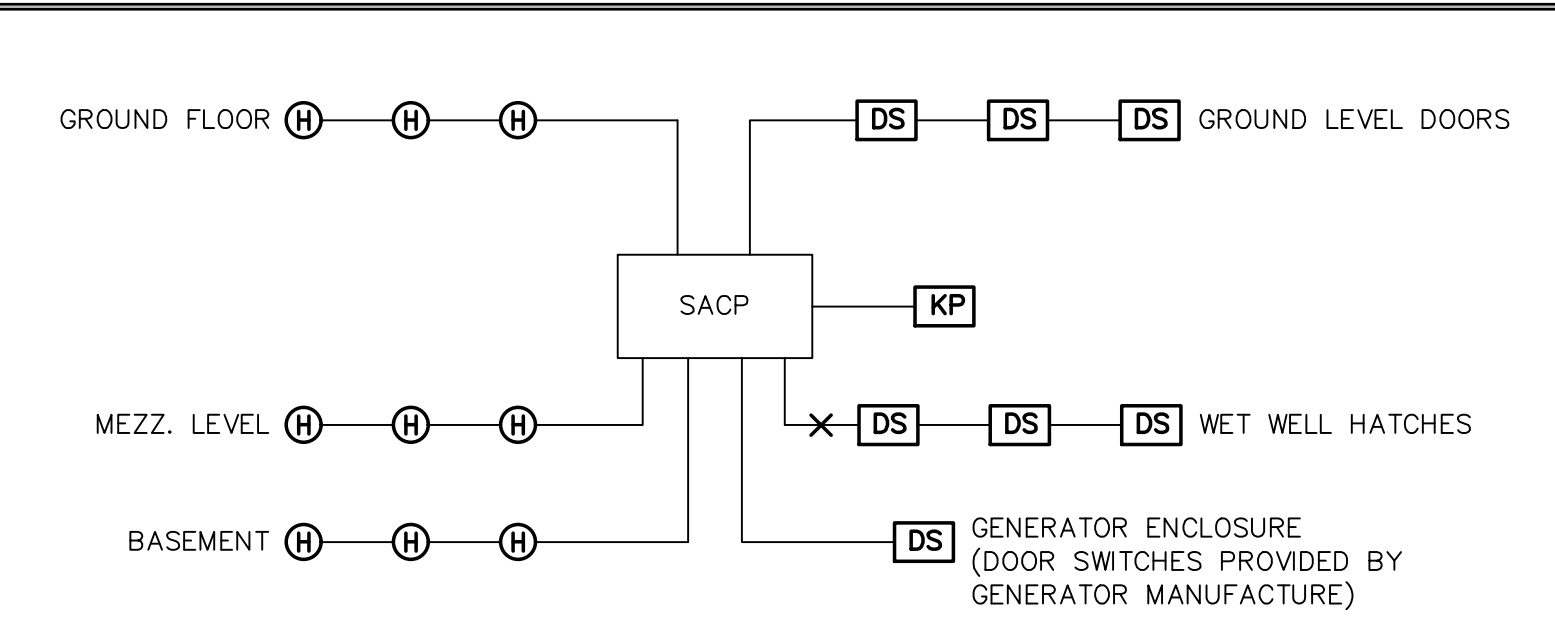
1/10/2022 1:38 PM W:\YEAR-2017\7003.00 - TAUNTON MAIN LIFT PUMP STATION\ELECTRICAL\DEPARTMENT\17003.00\ELEC.DWG



CONTROL WIRING DIAGRAM DRY PIT SUBMERSIBLE PUMPS NOT TO SCALE

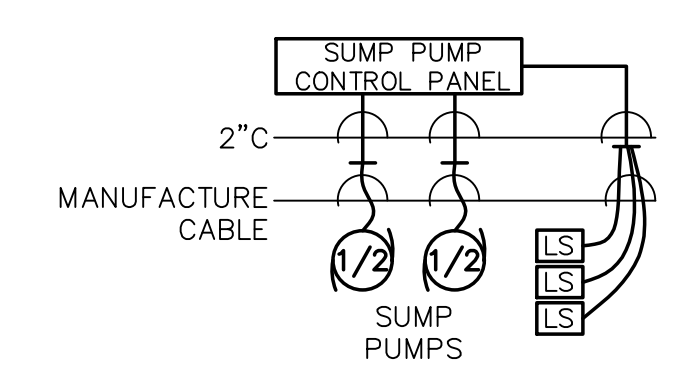


CONTROL WIRING DIAGRAM DRY PIT SUBMERSIBLE PUMPS - CONT. NOT TO SCALE

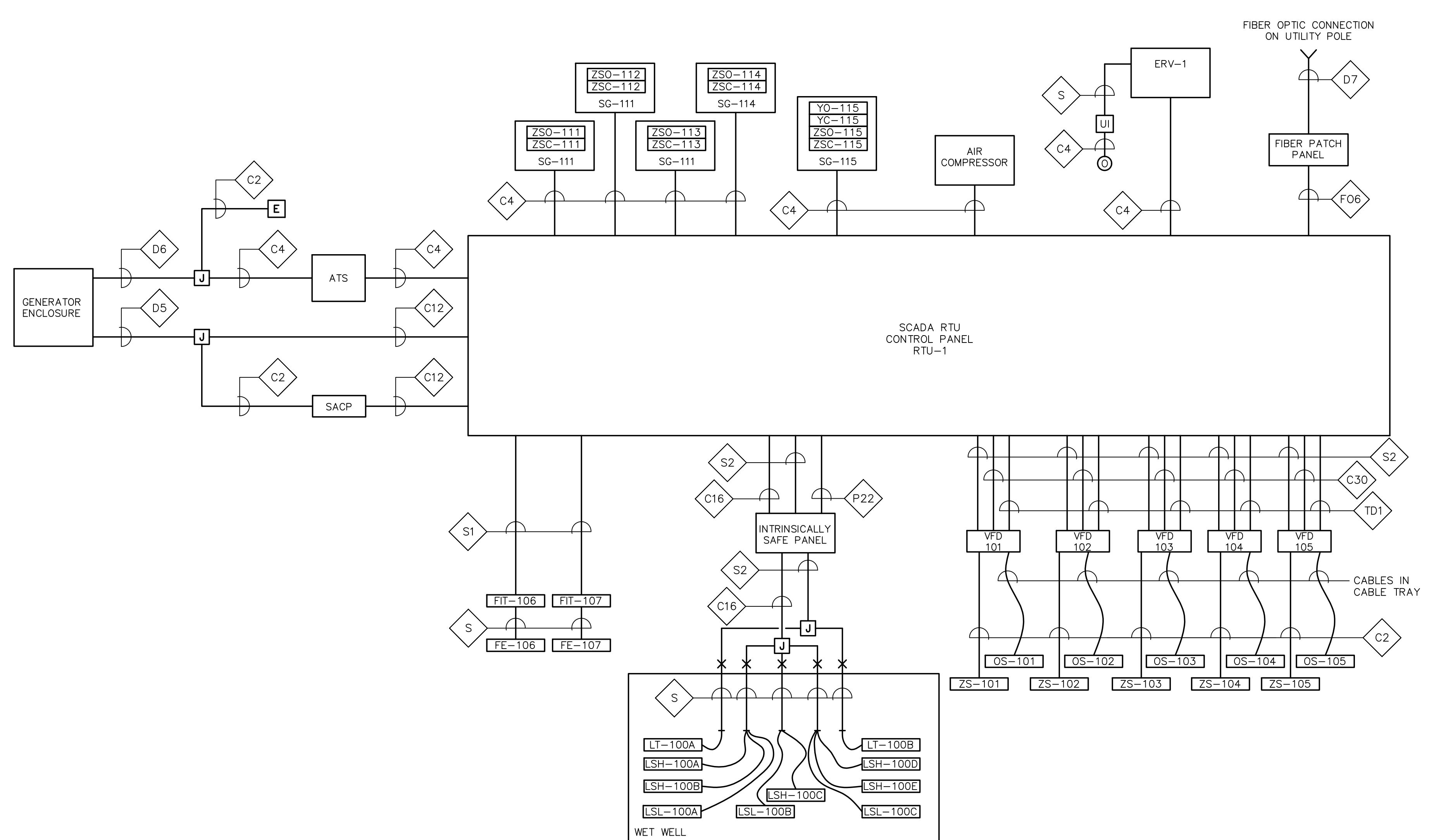


- SECURITY NOTES:
- RISER DIAGRAM ONLY REPRESENTS TYPE OF DEVICES AND DOES NOT REPRESENT ACTUAL QUANTITIES. REFER TO PLAN DRAWINGS QUANTITIES AND LOCATIONS OF DEVICES.
 - MINIMUM SIZE CONDUIT SHALL BE 3/4" UNLESS NOTED OTHERWISE.
 - SYSTEM CONDUIT/CABLING SHALL BE INSTALLED IN ACCORDANCE WITH EQUIPMENT SUPPLIERS APPROVED SHOP DRAWINGS AND WIRING DIAGRAMS.

SECURITY SYSTEM RISER NOT TO SCALE



SUMP PUMP BLOCK WIRING DIAGRAM NOT TO SCALE



CONTROL BLOCK WIRING DIAGRAM NOT TO SCALE

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SUBCONSULTANT

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PROJECT

MAIN LIFT PUMP STATION

TAUNTON, MA

TITLE

ELECTRICAL WIRING DIAGRAMS

NO.	REVISIONS	DATE

DRAWN BY: RB
DESIGNED BY: MC
CHECKED BY: MC
ISSUE DATE: 01/24/22
BETA JOB NO.: 5530-000

SCALE

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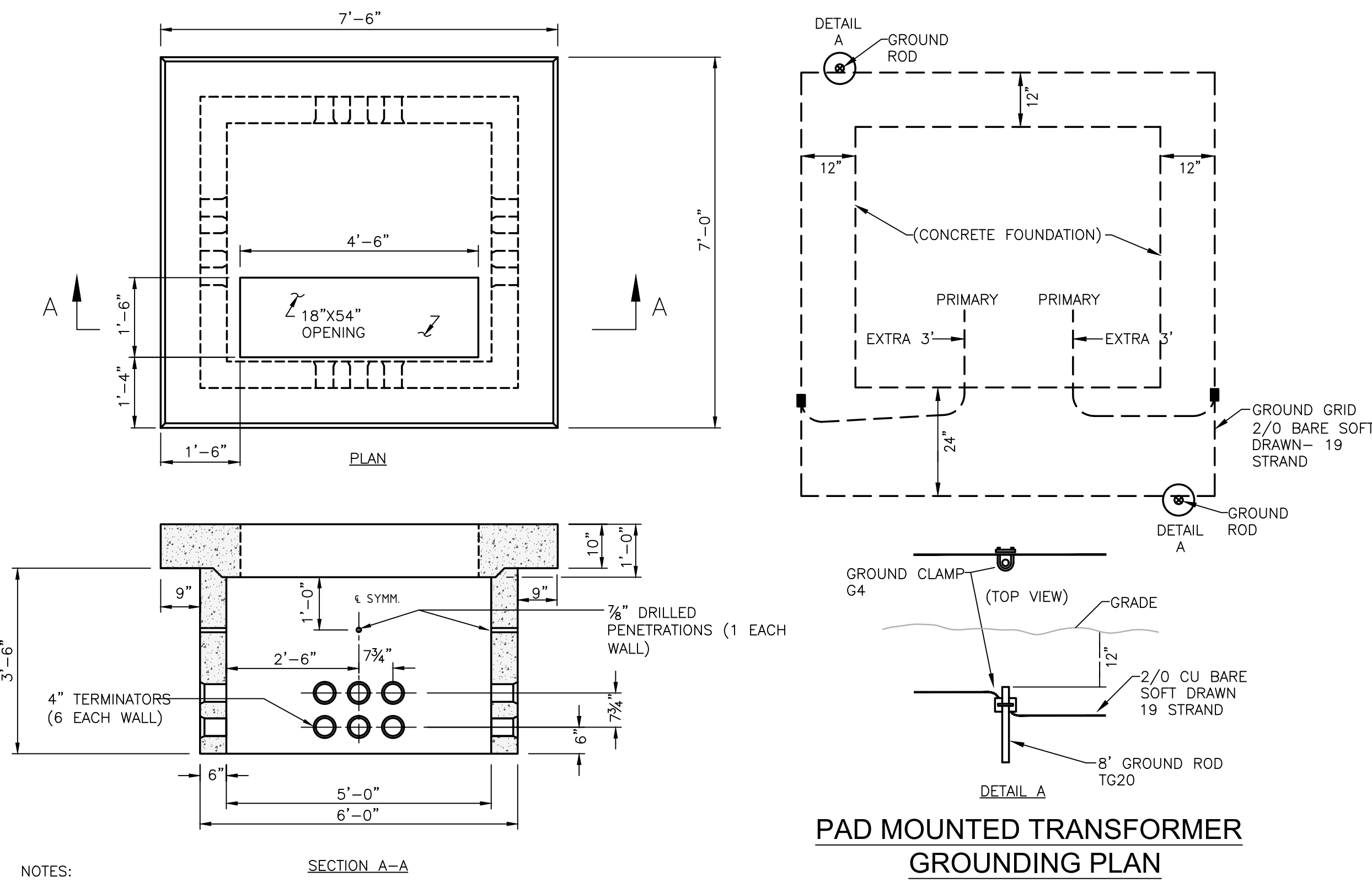
PROJECT

MAIN LIFT
PUMP STATION

TAUNTON, MA

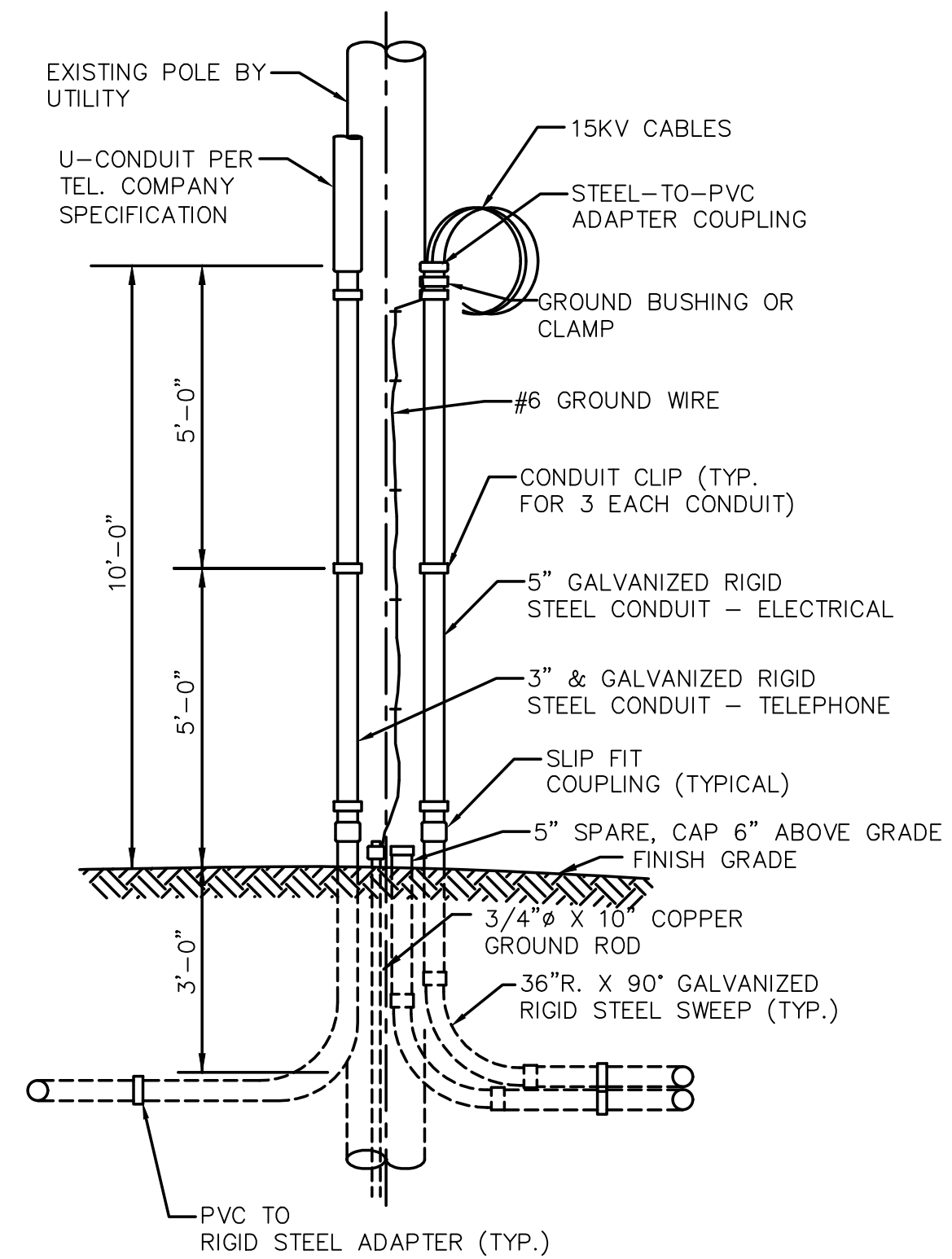
TITLE

ELECTRICAL
SITE
DETAILS



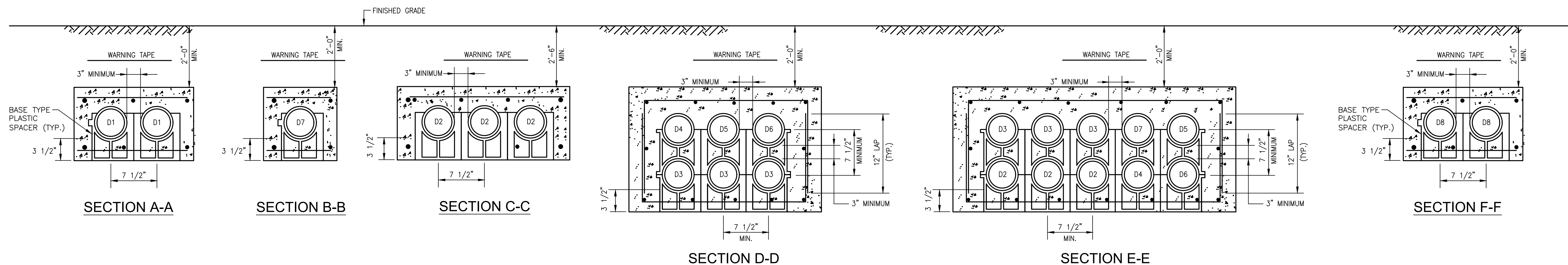
- NOTES:
1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
 2. DESIGN LOADING: AASHTO HS20-44, 0 TO 5 FEET COVER.
 3. DESIGN SPECIFICATIONS - ACI 318 & AASHTO LOAD FACTOR DESIGN METHOD.
 4. STEEL REINFORCEMENT CONFORMS TO ASTM A615, GRADE 60. MINIMUM STEEL COVER 1 1/2".
 5. ALL TERMINATORS SHALL HAVE BELL ENDS FLUSH WITH THE INSIDE WALL.

TRANSFORMER PAD
NO SCALE



UTILITY POLE SERVICE
RISER DETAIL
NOT TO SCALE

DUCT / CABLE SCHEDULE				
DUCT NO.	SIZE	CONDUCTORS	FROM	TO
D1	4"	(3) #1/0 AL 15KV CABLE	UTILITY POLE	UTILITY TRANSFORMER
D2	4"	(4) 500kcmil	UTILITY TRANSFORMER	MCB
D3	4"	(4) 500kcmil, #2/0 GND	GENERATOR	GENERATOR DISCONNECT SWITCH
D4	1"	(4) #12, #12GND, (2) #10, #10GND	LP-1	GENERATOR AUXILIARY SYSTEMS
D5	1"	(20) #14	GENERATOR	SCADA RTU CONTROL PANEL & SECURITY CONTROL PANEL
D6	1"	(6) #14	GENERATOR	ATS & EMERGENCY STOP
D7	3"	12 STRAND FIBER OPTIC CABLE	UTILITY POLE	SCADA RTU CONTROL PANEL
D8	4"	(4) 600kcmil	EXISTING UTILITY TRANSFORMER	MCC-1A MCB



- NOTES:
1. BACKFILL DUCT BANK IN LAYERS AND MANUALLY TAMP OR "PUDDLE" CONCRETE FILL. PROVIDE RED DUCT BANK MARKER TAPES, READING "CAUTION - ELECTRICAL LINES BELOW", OVER ENTIRE LENGTH OF DUCTLINE. LOCATE TAPES 12 INCHES BELOW GRADE. PROVIDE A TAPE FOR EVERY 12 INCHES OF WIDTH OF DUCTLINE.
 2. A MINIMUM OF 12" SEPARATION SHALL BE KEPT BETWEEN DUCT BANK SECTIONS WITHIN SAME TRENCH.
 3. A MINIMUM 3" OF CONCRETE SHALL KEPT BETWEEN CONDUITS AND THE PERIMETER OF ALL DUCTBANKS.

DUCTBANK SECTIONS
NO SCALE

NO.	REVISIONS	DATE

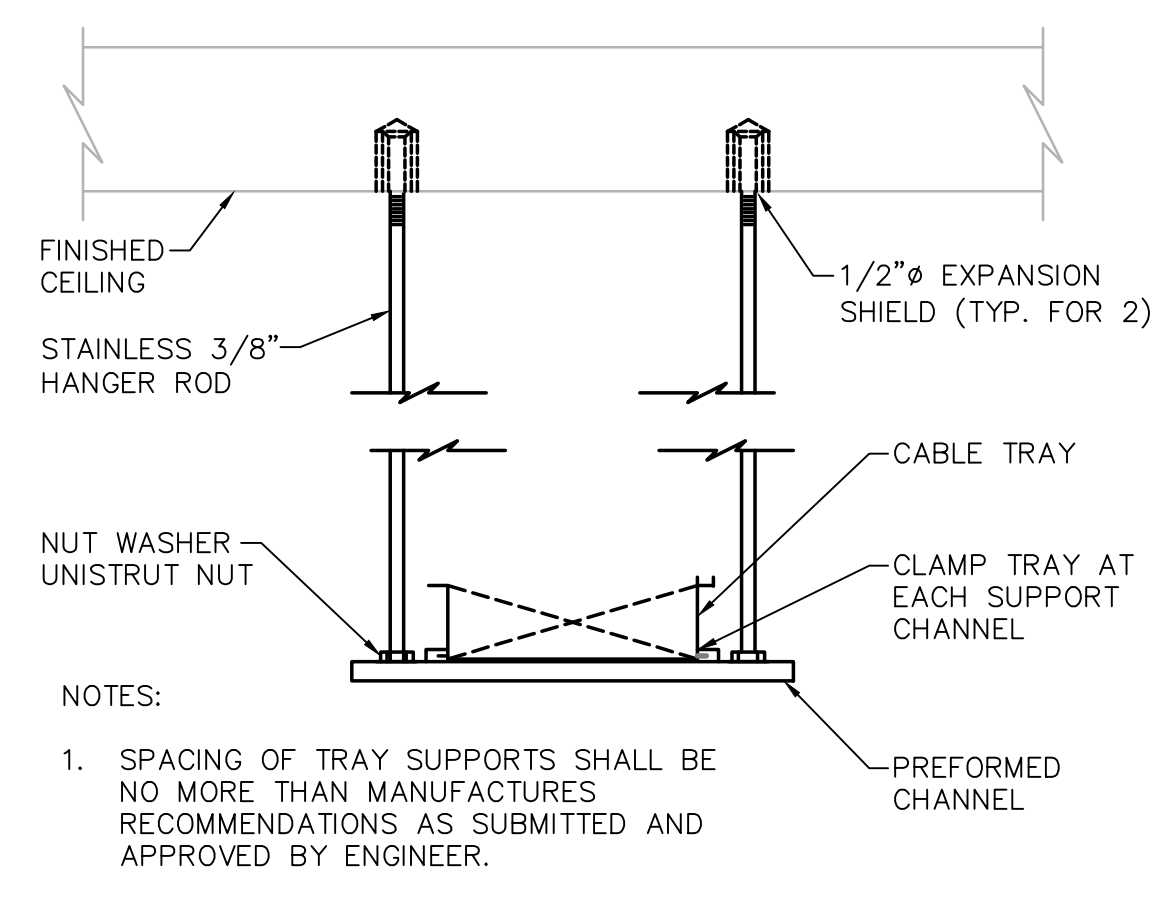
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CHECKED BY: MC
ISSUE DATE: 01/24/22
BETA JOB NO.: 5530-000

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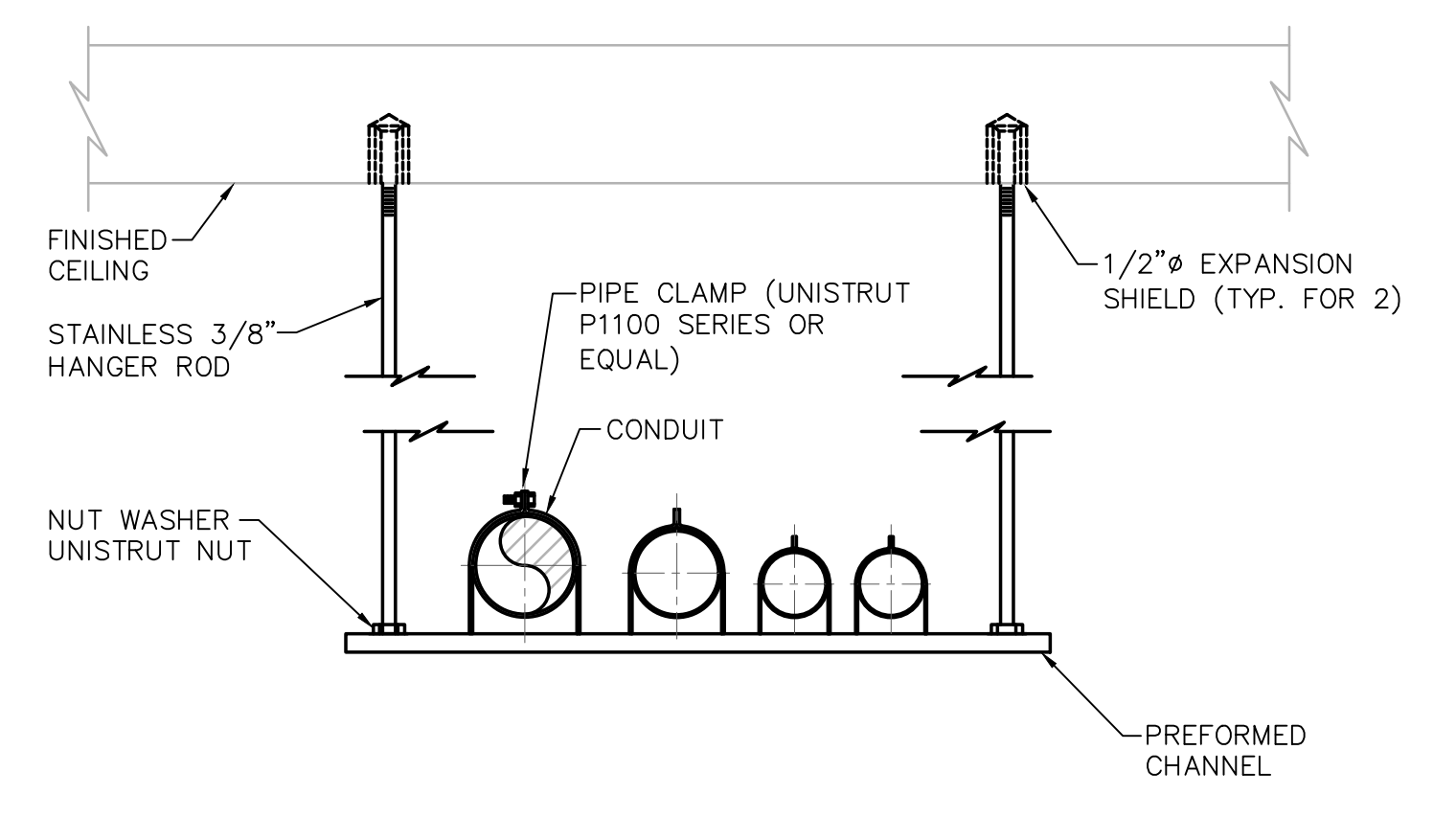
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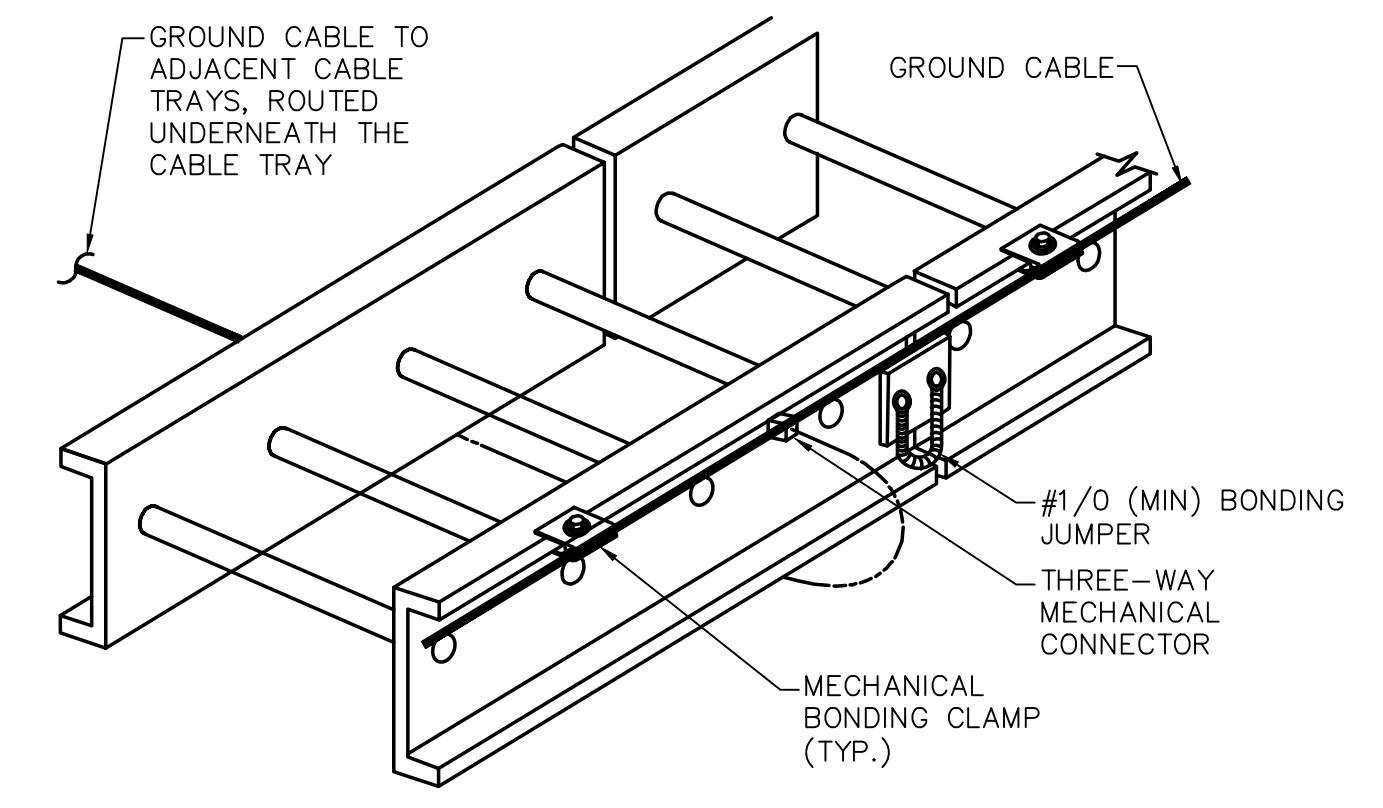
1/10/2022 1:38 PM W:\YEAR-2017\7003.00 - TAUNTON MAIN LIFT PUMP STATION ELECTRICAL DEPARTMENT\7003.00 ELEC.DWG



TYPICAL CABLE TRAY HANGER
NOT TO SCALE

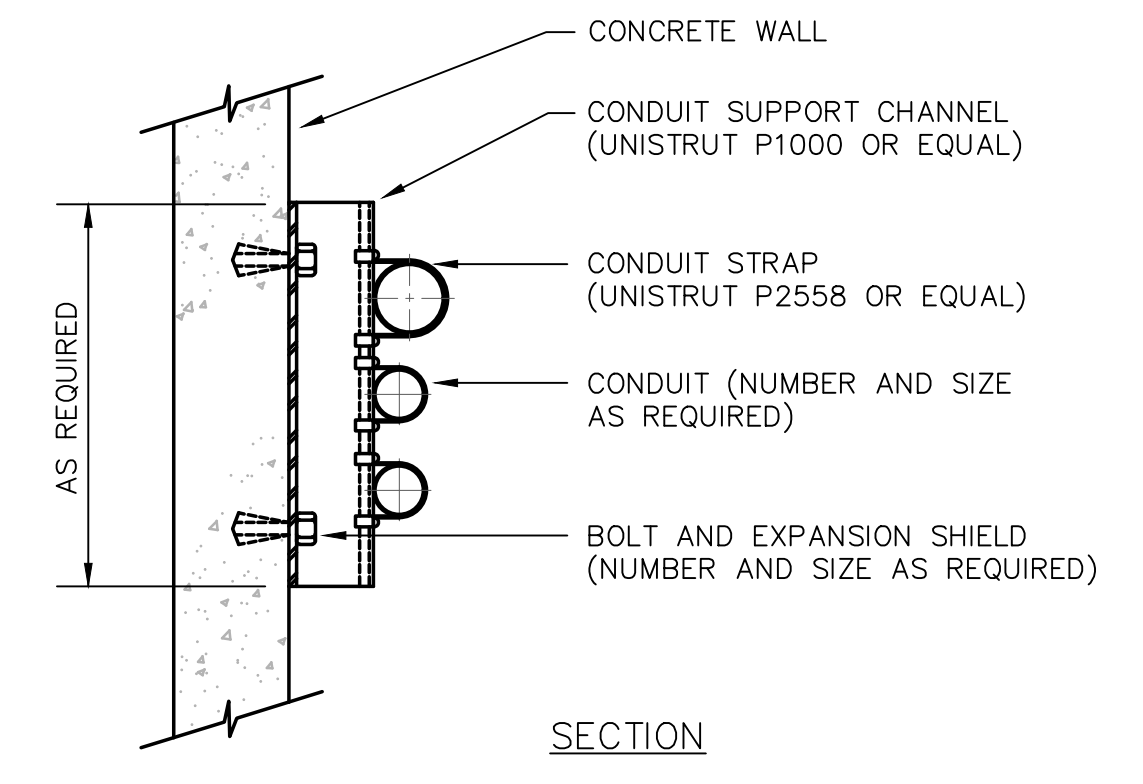
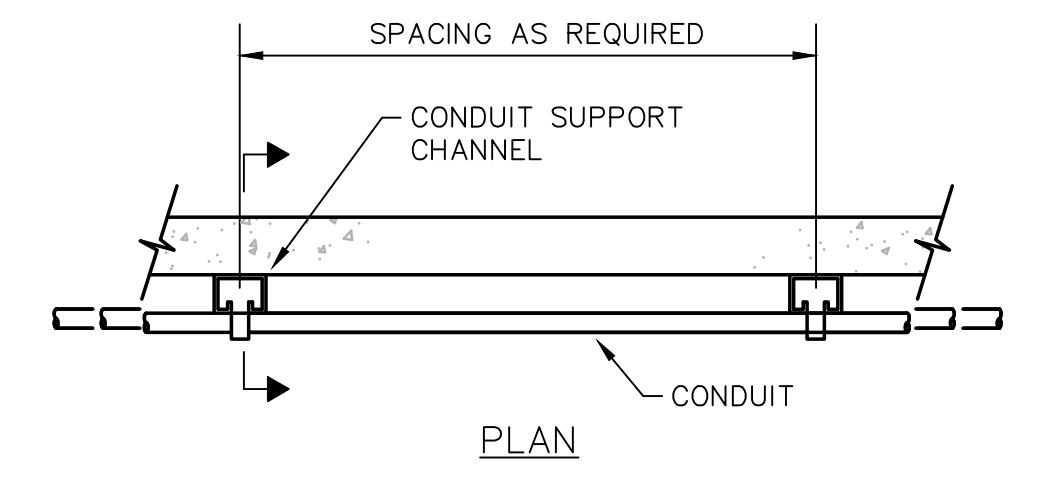


TYPICAL CABLE TRAY HANGER
NOT TO SCALE

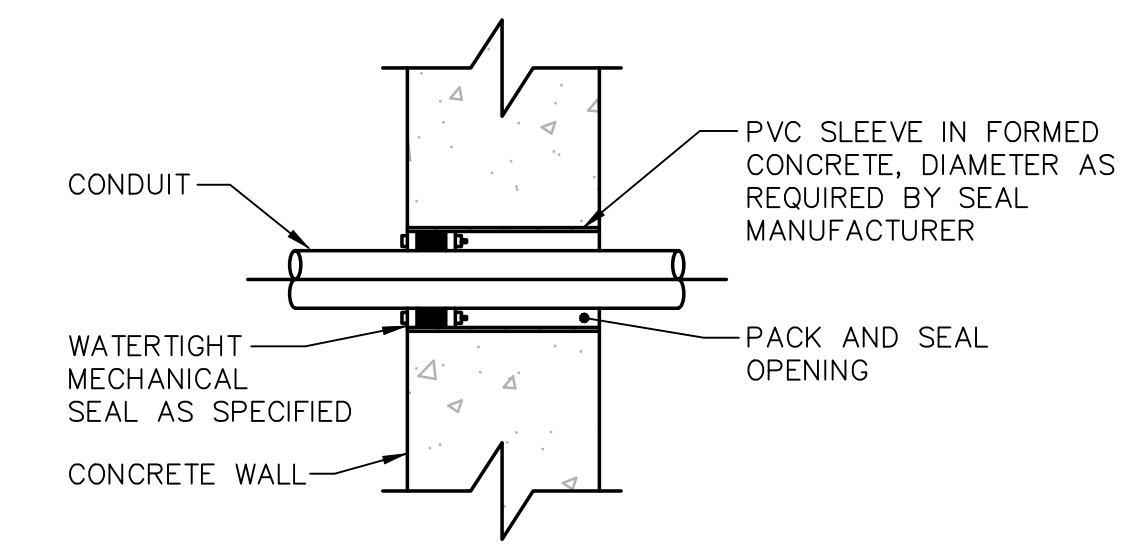


GROUNDING EACH CABLE TRAY SECTION
NOT TO SCALE

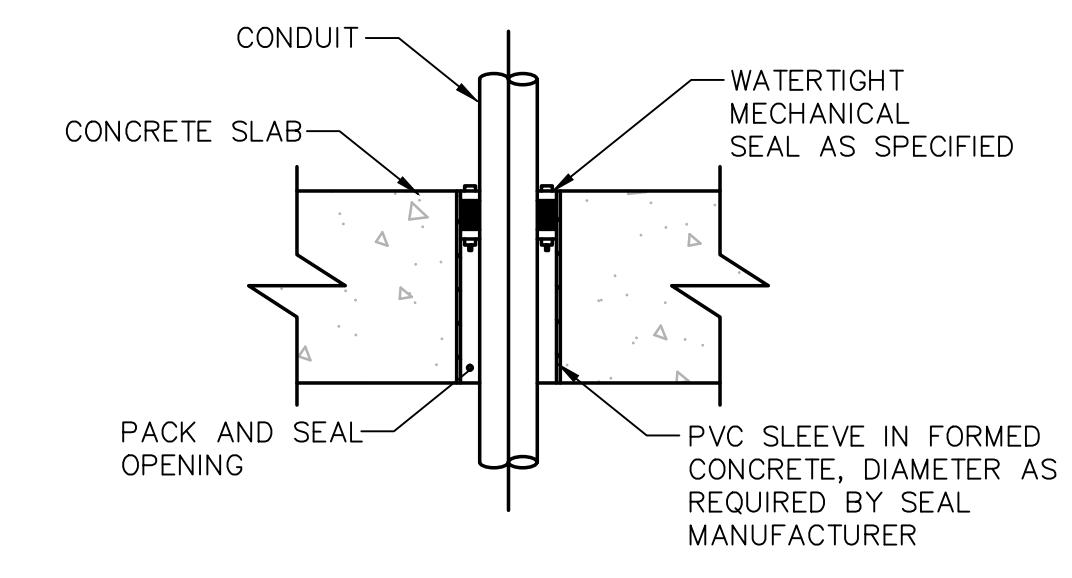
GENERAL NOTES:
1. ALL MOUNTING BRACKETS, SUPPORTS, FASTENERS, AND ECT. WITHIN THE WET WELL SHALL BE STAINLESS STEEL.



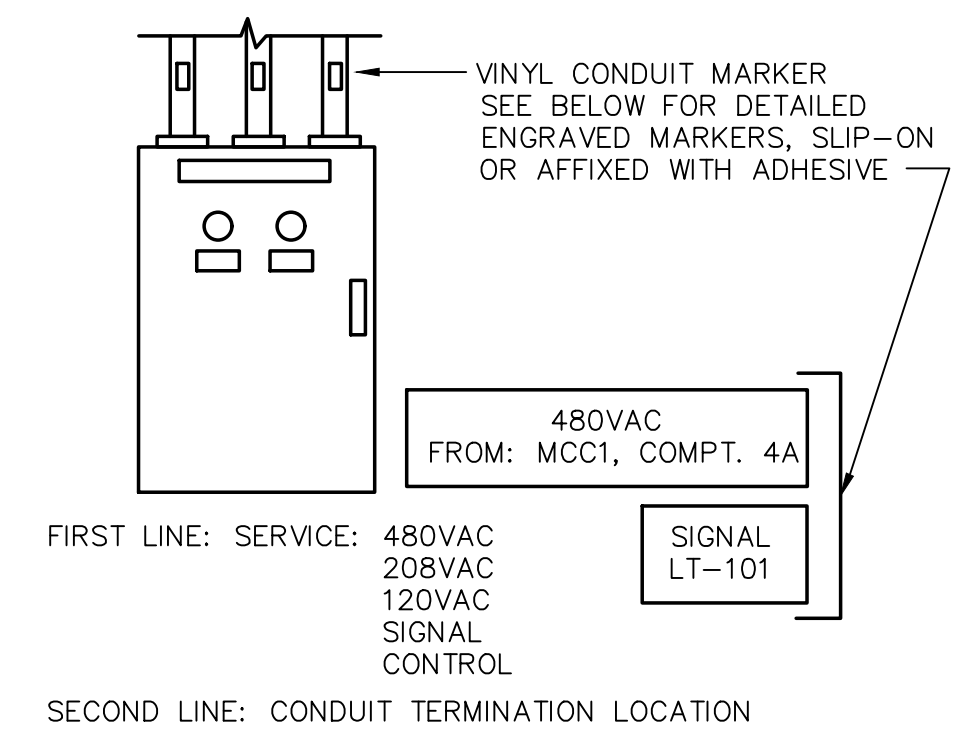
TYPICAL CONDUIT WALL SUPPORT
NOT TO SCALE



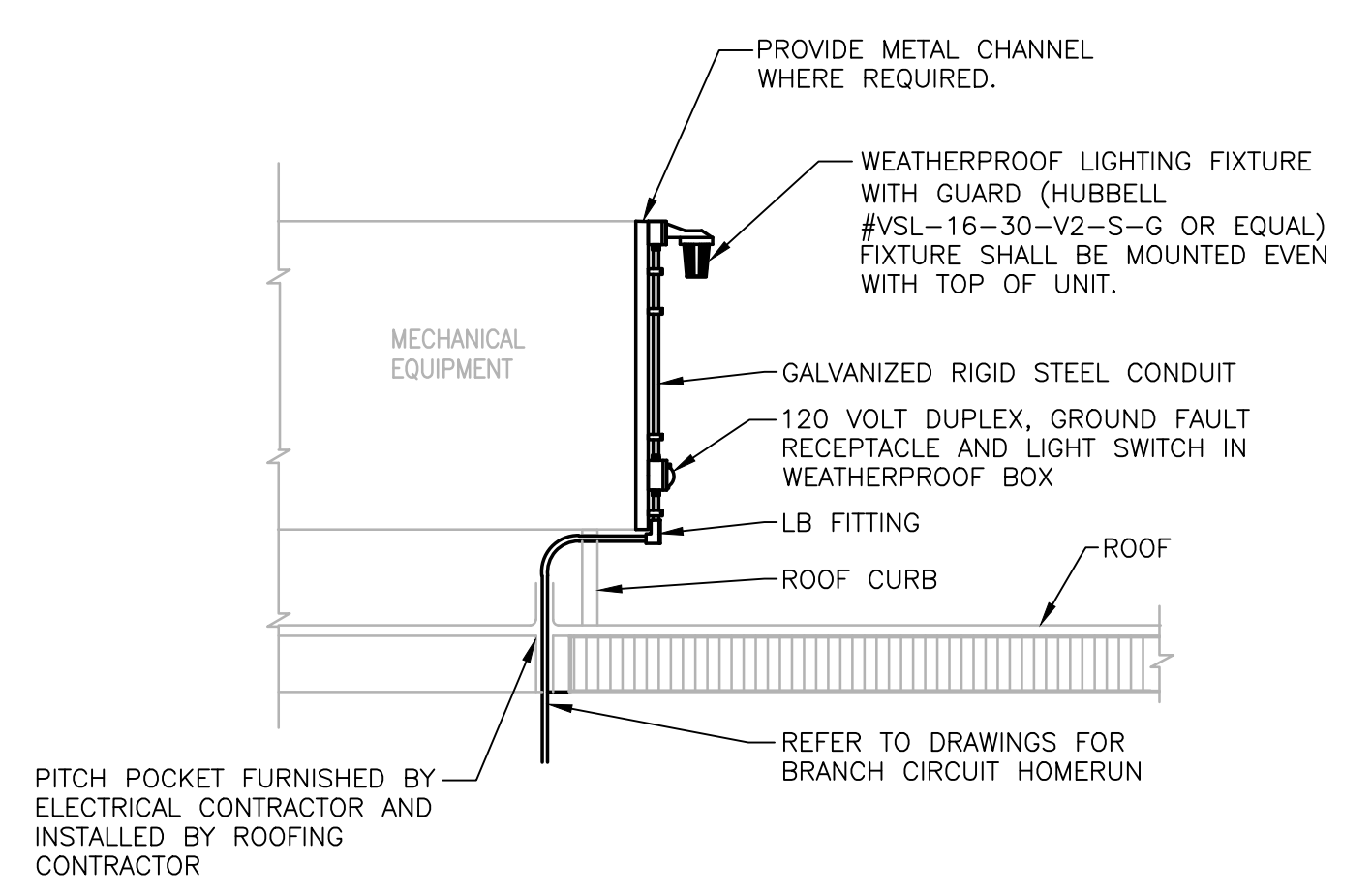
CONDUIT PENETRATION THROUGH CONCRETE WALL
NOT TO SCALE



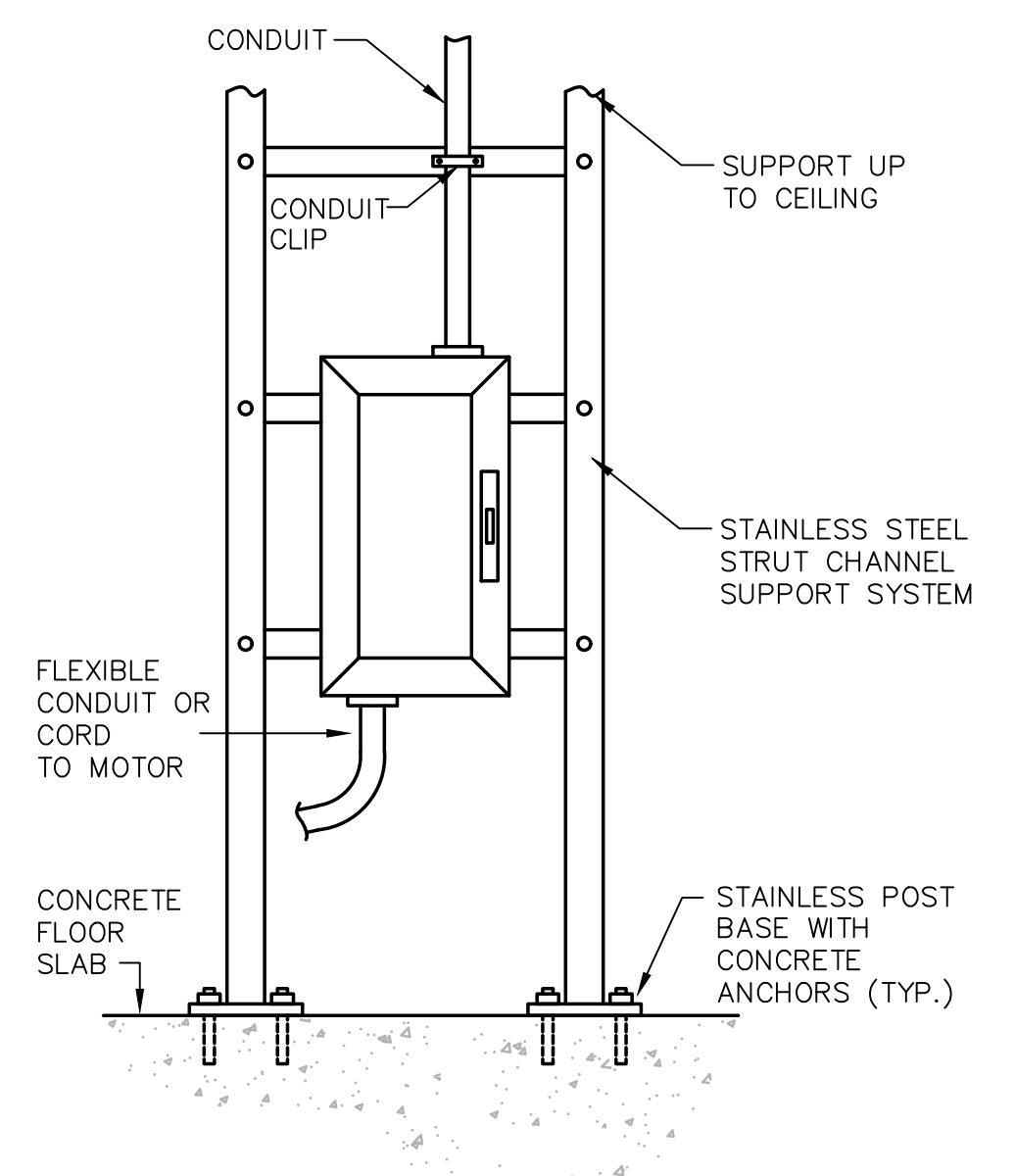
CONDUIT PENETRATION PASSING THROUGH CONCRETE SLAB
NOT TO SCALE



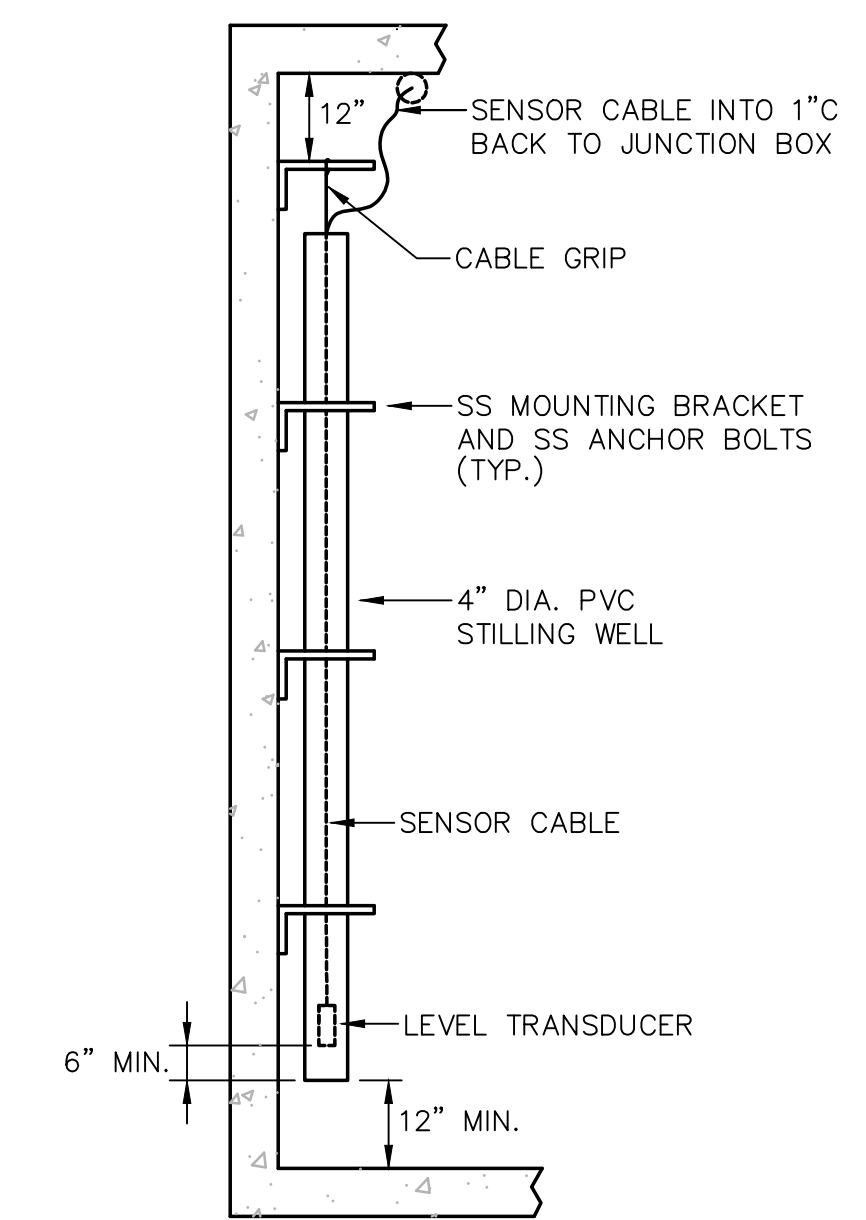
CONDUIT MARKER DETAIL
NOT TO SCALE



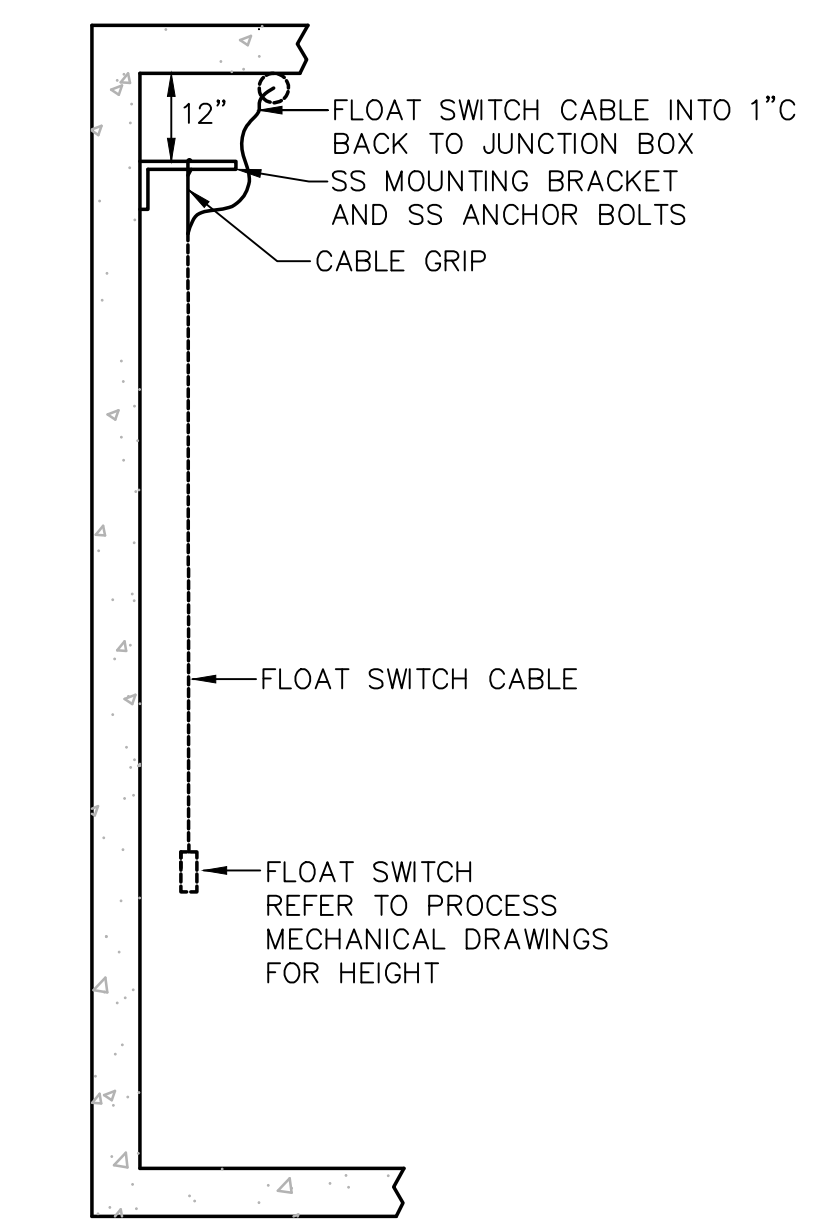
ROOFTOP LIGHT AND RECEPTACLE DETAIL
NOT TO SCALE



ELECTRICAL EQUIPMENT STANCHION MOUNTING DETAIL
NOT TO SCALE



SUBMERSIBLE LEVEL TRANSDUCER IN WET WELL
NOT TO SCALE



FLOAT LEVEL SWITCH IN WET WELL
NOT TO SCALE

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web: www.sar.com

PROJECT

MAIN LIFT PUMP STATION

TAUNTON, MA

TITLE

ELECTRICAL DETAILS

NO.	REVISIONS	DATE

DRAWN BY: RB

DESIGNED BY: MC

CHECKED BY: MC

ISSUE DATE: 01/24/22

BETA JOB NO.: 5530-000

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