CITY OF TAUNTON, MASSACHUSETTS

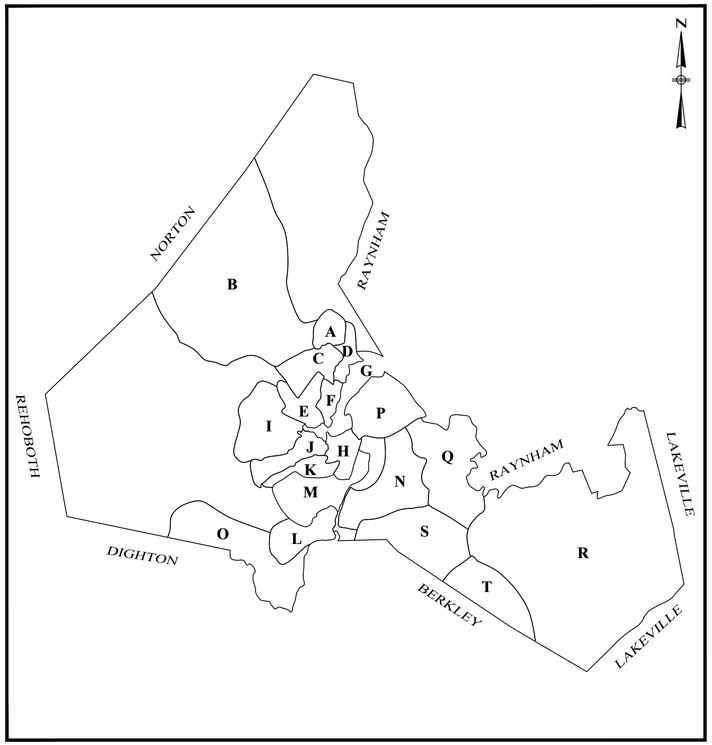
BRISTOL COUNTY, MA

2023 PUMP STATION IMPROVEMENTS

CONTRACT NO. S-2023-2

CWSRF-7210

JULY 2023



PROJECT LOCATION MAP

NOT TO SCALE

PREPARED BY:

BETA

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ISSUE DATE: JULY 2023

COMMONWEALTH OF MASSACHUSETTS
JOSEPH FEDERICO, JR.
No. 30803
REGISTERED PROFESSIONAL ENGINEER

JULY 2023

REGISTERED PROFESSIONAL DATE

PLAN INDEX

LEGEND

GENERAL SYMBOLS

EXISTING

CC / EOP	CURB OR BERM (TYPE AS NOTED)
EOP	EDGE OF PAVEMENT
	CATCH BASIN (OR GUTTER INLET)
D	DRAIN MANHOLE
D	BRADLEY HEAD CATCH BASIN
S	SEWER MANHOLE
WV	WATER VALVE
CS	CURB STOP
GS	GAS VALVE
	HYDRANT
UP	UTILITY POLE
E	ELECTRIC MANHOLE
	SIGN
	BOLLARD
	TREE
D — D	DRAIN PIPE (SIZE AS NOTED)
S	SEWER MAIN (SIZE AS NOTED)
SS	SEWER SERVICE
FM	SEWER FORCE MAIN (SIZE AS NOTED)
E — E	ELECTRIC DUCT
G	GAS MAIN (SIZE AS NOTED)
W	WATER MAIN
T — T	TELEPHONE DUCT
EOH	OVERHEAD WIRES
x — x	CHAIN LINKED FENCE
	GUARDRAIL
	PROPERTY LINE
	SHRUB
	CONSTRUCTION BASELINE
15	CONTOUR MAJOR
14	CONTOUR MINOR

PROPOSED

S	SEWER MANHOLE
S	SEWER MAIN (SIZE AS NOTED)
ECB — ECB	EROSION CONTROL BARRIER/ STRAW WATTLE
x — x	CHAIN LINK FENCE

ABBREVIATIONS

GENERAL

ABAN.	ABANDON
ADJ.	ADJUST
APPROX.	APPROXIMATE
℄	BASELINE
BM	BENCH MARK
BIT.	BITUMINOUS
B.B.	BITUMINOUS BERM
B.C.	BITUMINOUS CURB
B.O.B.	BOTTOM OF BORING
BOS	BOTTOM OF SLOPE
BOW	BOTTOM OF WALL
BD OR BND	BOUND
BLDG.	BUILDING
℄	CENTER LINE
CLF	CHAIN LINK FENCE
CONC.	CONCRETE
C.C.	CONCRETE CURB
DWY.	DRIVEWAY
E.P., E.O.P.	EDGE OF PAVEMENT
EL.	ELEVATION
EXIST. OR EX.	EXISTING
GAR.	GARAGE
GRAN.	GRANITE
G.C.	GRANITE CURB
G.E.	GRANITE EDGING
GRAV.	GRAVEL
GD	GROUND
HOR.	HORIZONTAL
HMA	HOT MIX ASPHALT
IP	IRON PIPE
LP	LOW POINT
MB	MAIL BOX
MHB	MASSACHUSETTS HIGHWAY BOUND
MAX.	MAXIMUM
MIN.	MINIMUM
N.T.S.	NOT TO SCALE
PVMT.	PAVEMENT
PEB	PERMANENT EASEMENT BOUNDARY
P OR PROP. LINE	PROPERTY LINE
PROP.	PROPOSED
R&D	REMOVE & DISPOSE
REM.	REMOVE
REMOD.	REMODEL
RET.	RETAINING
ROW	RIGHT–OF–WAY
S.H.L.	STATE HIGHWAY LAYOUT LINE
TBD	TO BE DETERMINED
TOS	TOP OF SLOPE
TOW	TOP OF WALL
TYP.	TYPICAL

UTILITIES

ACCMP	ASPHALT COATED CORRUGATED METAL PIPE
BH–#	BRADLEY HEAD STYLE DRAIN STRUCTURE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CIP	CAST IRON PIPE
CIT	CHANGE IN TYPE
CL.	CLASS (PIPE, CONCRETE, EXCAVATION, ETC.)
COND.	CONDUIT
CAP	CORRUGATED ALUMINUM PIPE
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
CSP	CORRUGATED STEEL PIPE
CULV.	CULVERT
CI	CURB INLET OR CAST IRON
DI	DUCTILE IRON
DMH	DRAIN MANHOLE
EL. (OR ELEV.)	ELEVATION
FM	FORCE MAIN
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
F&I	FURNISH AND INSTALL
GIP	GALVANIZED IRON PIPE
GG	GAS GATE
GI	GUTTER INLET
HDW	HEADWALL
HYD.	HYDRANT
INV.	INVERT ELEVATION
LP	LIGHT POLE
MH	MANHOLE
PVC	POLY–VINYL–CHLORIDE PIPE
PWW	PAVED WATER WAY
R&D	REMOVE & DISPOSE
RCP	REINFORCED CONCRETE PIPE
SMH	SEWER MANHOLE
SD	SUBDRAIN
TSV&B	TAPPING SLEEVE, VALVE AND BOX
TS	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
UP	UTILITY POLE
VCP, VC	VITRIFIED CLAY PIPE
WG	WATER GATE
WM	WATER METER/WATER MAIN
WIP	WROUGHT IRON PIPE

PREPARED BY

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REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
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No. 30853
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

LEGEND & INDEX

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

NONE

SHEET NO.

G-1

GENERAL CIVIL NOTES

GENERAL

1) THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE THE SPECIFICATIONS FOR THIS CONTRACT. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS IN ADDITION TO THE GENERAL NOTES.
2) 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 THESE LIMITS BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
3) ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION AND SHALL BE MAINTAINED UNTIL ALL DISTURBED AREAS ARE STABILIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND INSPECTION OF SUCH CONTROLS DURING CONSTRUCTION. UPON STABILIZATION, ALL EROSION CONTROL DEVICES AND ACCUMULATED ERODED MATERIAL SHALL BE REMOVED. SEE SOIL EROSION AND SEDIMENTATION CONTROL NOTES.
4) DUST CONTROL, USING CALCIUM CHLORIDE, SHALL BE PROVIDED FOR ALL SURFACES OF BACK FILLED AREAS, ALL EQUIPMENT ACCESS ROADWAYS AND/OR AS OTHERWISE DIRECTED BY THE OWNER/ENGINEER.

MAPPING

5) THE BASE PLANS PROVIDED ARE BASED ON AVAILABLE RECORD INFORMATION AND FIELD INSPECTIONS COMPLETED BY BETA.
6) HORIZONTAL DATUM - COORDINATE VALUES REFER TO NORTH AMERICAN DATUM OF 1983 (NAD 83), MASSACHUSETTS STATE PLAN, MAINLAND ZONE.
7) VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
8) 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 AVAILABLE SOURCES 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.
9) EXISTING UTILITIES HAVE BEEN PLOTTED FROM THE BEST AVAILABLE DATA AND 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(888)-DIG-SAFE 48 HOURS IN ADVANCE OF CONSTRUCTION.
10) THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN THE DESIGN PLANS PRIOR TO THE START OF CONSTRUCTION.
11) "AS-BUILT" DRAWINGS MAY BE EXAMINED AT THE **CITY OF TAUNTON** ENGINEERING OFFICE. THE OWNER DOES NOT GUARANTEE THE CORRECTNESS OF THE CONTENTS OF THESE PLANS. THE CONTRACTOR IS CAUTIONED AGAINST RELYING SOLELY ON THE "AS-BUILTS" WITHOUT VERIFYING THE SAME BY FIELD INVESTIGATIONS.
12) PROPERTY LINES AND CITY/TOWN LINES ARE SHOWN FOR INFORMATION ONLY.

TEST PITS

13) THE CONTRACTOR MUST NOTIFY DIG-SAFE 48 HOURS PRIOR TO ANY EXCAVATION OR DEMOLITION WORK IN PUBLIC OR PRIVATE WAYS OR UTILITY COMPANY RIGHT-OF-WAY OR EASEMENT.
14) PRIOR TO THE START OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT TEST PITS AS SHOWN, AND AT ALL LOCATIONS WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING OR STRUCTURES, AT LOCATIONS WHERE CONFLICTS BETWEEN EXISTING PIPING OR STRUCTURES AND PROPOSED PIPING MAY OCCUR, AND WHERE DIRECTED BY THE ENGINEER. CONDUCT TEST PITS TO FIELD VERIFY THE EXACT SIZE, MATERIAL, LOCATION, INVERT ELEVATION AND ALIGNMENT (VERTICAL AND HORIZONTAL) OF EXISTING UNDERGROUND PIPES AND STRUCTURES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN PROPOSED PIPING AND EXISTING PIPING PRIOR TO STARTING INSTALLATION OF THE PROPOSED PIPING.
15) TEST PITS SHOWN OR INDICATED ON DRAWINGS ARE TO BE CONDUCTED AT THE BEGINNING OF THE PROJECT. PROVIDE RECORD OF UTILITY ELEVATION TO ENGINEER UPON COMPLETION OF TEST PIT. OTHER TEST PITS MAY BE REQUIRED DURING THE COURSE OF WORK. CONTRACTOR SHALL CONDUCT TEST PITS WHERE CONFLICTS BETWEEN EXISTING PIPING AND PROPOSED PIPING MAY OCCUR OR WHERE DIRECTED BY ENGINEER.
16) 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.

EXISTING UTILITIES

17) EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE PROTECTED AND SUPPORTED AT ALL TIMES BY THE CONTRACTOR. ALL EXISTING SERVICES TO BE MAINTAINED AT ALL TIMES. 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 PIPE OR STRUCTURE 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.
18) WHERE AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR THE RESOLUTION OF THE CONFLICT.
19) THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION, RELOCATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, CABLE TV, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES WITH THE UTILITY COMPANIES AS REQUIRED. CONTRACTOR TO COORDINATE AND SCHEDULE ANY AND ALL UTILITY RELOCATIONS WITH AFFECTED UTILITY COMPANY PRIOR TO CONSTRUCTION.
20) CONTRACTOR IS RESPONSIBLE FOR REPAIR OF DAMAGED UTILITIES CAUSED BY THE CONTRACTORS OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.

REMOVAL AND DISPOSAL

21) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING (R&D) ALL MATERIALS INDICATED ON THE PLANS INCLUDING BUT NOT LIMITED TO, MANHOLES, CATCH BASINS, PIPING, CONCRETE AND BITUMINOUS PAVEMENT, COBBLES, ROCK, TREES AND STUMPS ETC. ALL GRIT AND DEBRIS FROM THE EXISTING STRUCTURES TO BE DEMOLISHED SHALL BE CONSIDERED 'SPECIAL WASTE' AND SHALL BE REMOVED AND DISPOSED OF AS INDICATED IN THE SPECIFICATIONS (SPEC. 02769). ALL DEMOLITION MATERIAL INCLUDING CONCRETE, 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.
22) NOTIFY APPROPRIATE UTILITY COMPANY TO TURN OFF AFFECTED SERVICES PRIOR TO REMOVAL AND DISPOSAL. SEAL WATER, SEWER, DRAINAGE AND GAS UTILITIES AND SERVICES AT EXCAVATION LIMITS OR AS REQUIRED, USING PLUGS, CAPS OR SEALS AS NEEDED.
23) UNDERGROUND PIPING TO BE ABANDONED AND REMAIN SHALL BE PROPERLY CAPPED UNLESS IT INTERFERES WITH NEW STRUCTURES OR AS INDICATED, SPECIFIED AND DIRECTED BY ENGINEER.
24) REMOVE AND DISPOSE OF ALL EXISTING BITUMINOUS CONCRETE, AS REQUIRED.

SEWER AND DRAIN

25) WHERE EXISTING MATERIALS ARE ENCOUNTERED WHICH, IN THE OPINION OF THE OWNER/ENGINEER ARE UNSUITABLE FOR BEDDING, BACKFILLING, OR OTHER INTENDED USE, SUCH MATERIALS SHALL BE REMOVED AS DIRECTED AND REPLACED WITH SUITABLE GRAVEL BORROW, CRUSHED STONE AND/OR SELECTED BORROW, AS DIRECTED BY THE OWNER/ENGINEER AND PAID FOR UNDER THE APPROPRIATE BID ITEMS.
26) INVERTS AND DIRECTIONS OF PIPES AND CONDUITS ARE SHOWN FOR THE PURPOSE OF INDICATING THE BASIC PARAMETERS USED DURING THE DESIGN. HOWEVER, MINOR CHANGES IN HORIZONTAL AND VERTICAL LOCATIONS MAY BE REQUIRED DURING CONSTRUCTION AS FIELD CONDITIONS WARRANT. FINAL LOCATIONS OF OTHER PIPES AND/OR CONDUITS SHALL BE DETERMINED IN THE FIELD. ANY CHANGES SHALL BE APPROVED BY THE ENGINEER.
27) 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.
28) EXISTING PIPES RETAINED, BUT WHICH MUST BE REMOVED IN ORDER TO INSTALL NEW PIPES, SHALL BE REINSTALLED OR REPLACED IN KIND.
29) SHOULD ANY SEWER OR SEWER SERVICE CONNECTION NEED TO BE RELAYED, THE SEWER SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN, SERVICES OR OTHER WATER FACILITIES. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT POSSIBLE TO ACHIEVE AND MAINTAIN A 10-FOOT MINIMUM HORIZONTAL SEPARATION AS DETERMINED BY THE OWNER/ENGINEER, THE SEWER SHALL BE LAID SUCH THAT THE CROWN OF THE SEWER IS AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER LINE. WHEN THE HORIZONTAL ALIGNMENT OR VERTICAL ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENT AS DETERMINED BY THE OWNER/ENGINEER, THE SEWER SHALL BE ENCASED IN CONCRETE (MIN. 6-INCH THICKNESS) FOR AT LEAST 10-FEET EITHER SIDE OF THE AREA NOT COMPLYING WITH THE MINIMUM HORIZONTAL AND VERTICAL SEPARATION AS DIRECTED BY THE OWNER/ENGINEER.
30) WHERE SEWERS CROSS ANY EXISTING OR PROPOSED WATER MAINS OR SERVICES, THE SEWER SHALL CROSS BENEATH THE WATER LINES AND LAID TO PROVIDE A MINIMUM VERTICAL SEPARATION OF 18-INCHES BETWEEN THE INVERT OF THE WATER LINE AND THE CROWN OF THE SEWER. WHEN THE ELEVATION OF THE SEWER CANNOT BE VARIED TO MEET THE ABOVE REQUIREMENT, THE SEWER AND/OR WATER LINE SHALL BE ENCASED IN CONCRETE (MIN. 6-INCH THICKNESS) FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER LINE, OR AS DETERMINED AND DIRECTED BY THE OWNER/ENGINEER. OR THE WATER LINE SHALL BE RELOCATED TO COMPLY WITH THE REQUIRED MINIMUM DIMENSIONS FOR AN ACCEPTABLE SEPARATION AS STIPULATED ABOVE. RELOCATED WATER LINES SHALL BE APPROVED BY OWNER/ENGINEER AND CONSTRUCTED OF AWWA APPROVED MATERIAL FOR POTABLE WATER CONVEYANCE AND DESIGNED FOR THE REQUIRED WATER SERVICE PRESSURE FOR A DISTANCE OF 10-FEET ON EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER LINE JOINTS.
31) WATER SERVICE CONNECTIONS SHALL BE PROTECTED THROUGHOUT THE WORK. REPLACEMENT OF ANY PORTION OF A WATER SERVICE, INCLUDING CORPORATION AND CURB STOP, SHALL BE CONSIDERED PART OF THE WORK AND SHALL NOT BE THE BASIS FOR ANY CLAIM AGAINST THE OWNER.

SITE RESTORATION

32) EXCEPT WHERE NOTED BY PROPOSED CONTOUR LINES, ALL FINAL CONTOUR LINE ELEVATIONS SHALL BE THE SAME AS EXISTING CONTOUR LINE ELEVATIONS.
33) JOINTS BETWEEN NEW BITUMINOUS CONCRETE ROADWAY PAVEMENT AND SAWCUT EXISTING PAVEMENT SHALL BE SEALED WITH BITUMEN TACK COAT AND BACKSANDED.
34) ALL CURBING DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE RESET, RESTORED OR REPLACED IN KIND, IF DAMAGED, INCLUDING CEMENT CONCRETE, REGARDLESS OF ITS PROXIMITY TO THE DRAIN OR SEWER, AS DIRECTED BY THE OWNER/ENGINEER. PAYMENT SHALL BE CONSIDERED PART OF AND PAID FOR UNDER THE APPROPRIATE PIPE ITEMS AS APPLICABLE UNLESS OTHERWISE INDICATED ON PLANS.
35) ALL SIDEWALK AND WHEELCHAIR RAMP AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IN CONFORMANCE TO THE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS AND THE ARCHITECTURAL ACCESS BOARD (AAB) REQUIREMENTS AT THE CONTRACTOR'S EXPENSE.
36) THE CONTRACTOR SHALL REMOVE AND RESET ALL SIGNS DISTURBED DURING CONSTRUCTION, IN CONFORMANCE WITH THE MASSACHUSETTS STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARDS.
37) ALL GRASSED OR WOODED 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. PAYMENT SHALL BE CONSIDERED PART OF AND PAID FOR UNDER THE APPROPRIATE BID ITEMS AS APPLICABLE UNLESS OTHERWISE INDICATED.

MAINTENANCE OF EXISTING FLOWS

38) FLOW IN ALL SANITARY SEWERS TO BE MAINTAINED BY THE CONTRACTOR UNTIL THE MODIFICATIONS AND CONSTRUCTION ARE COMPLETE.
39) CONTRACTOR SHALL PROVIDE ACCESS TO THE CITY AS NECESSARY TO MAINTAIN THE EXISTING PUMP STATIONS.

EXCAVATION SUPPORT & DEWATERING

40) ALL CONSTRUCTION WORK SHALL BE PERFORMED IN THE DRY. THE CONTRACTOR SHALL PROVIDE, OPERATE AND MAINTAIN ALL PUMPS, DRAINS, WELL POINTS, SCREENS, OR OTHER FACILITIES NECESSARY TO CONTROL, COLLECT AND DISPOSE SURFACE AND SUBSURFACE WATER ENCOUNTERED IN THE PERFORMANCE OF THE WORK.
41) DISCHARGE FROM DEWATERING OPERATIONS SHALL NOT BE DIRECTLY DISCHARGED INTO THE SEWER OR DRAIN. ALL CONSTRUCTION DEWATERING SHALL HAVE SILT AND SEDIMENT REMOVED PRIOR TO DISCHARGE (SEE SPECIFICATIONS).

SOIL EROSION AND SEDIMENTATION CONTROL

42) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL SOIL EROSION AND SEDIMENT CONTROLS ON THE PROJECT SITE FOR THE ENTIRE DURATION OF THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL FOLLOW THE DIRECTION OF THE RESIDENT ENGINEER WITH REGARD TO INSTALLATION, MAINTENANCE, AND REPAIR OF ALL SOIL EROSION AND SEDIMENTATION CONTROLS ON THE PROJECT SITE. TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROLS (STAW WATTLES, HAY BALES, SILT FENCE, CATCH BASIN SILT SACKS, ETC.) SHALL BE MAINTAINED UNTIL ALL EXPOSED SOILS ARE SATISFACTORILY STABILIZED.
43) ALL EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES SHALL BE INSTALLED BY THE CONTRACTOR AND INSPECTED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE E&S CONTROLS SHALL BE CLEANED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION OPERATIONS AND UNTIL ALL DISTURBED AREAS ARE STABILIZED AFTER CONSTRUCTION IS COMPLETE. E&S CONTROLS SHALL BE INSPECTED AND CLEANED AFTER ALL STORM EVENTS AND UPON THE REQUEST OF THE OWNER OR ENGINEER. CONTRACTOR SHALL MAINTAIN AN ADEQUATE SUPPLY OF HAY BALES ON SITE TO BE INSTALLED IN AREAS WHERE EXISTING E&S CONTROLS HAVE FAILED OR AS DETERMINED NECESSARY BY THE ENGINEER. NO WORK OR STORAGE OF CONSTRUCTION EQUIPMENT WILL BE PERMITTED OUTSIDE THE LIMIT OF DISTURBANCE.
44) PROVIDE SOIL EROSION AND SEDIMENT CONTROL MEASURES AT PERIMETERS OF ALL EXCAVATION AREAS, DISTURBED SURFACES AND AT ALL CATCH BASINS ADJACENT TO DISTURBED AREAS. PROVIDE SILT FENCING AND HAY BALES IN ACCORDANCE WITH DIVISION 2 SPECIFICATION REQUIREMENTS AND AS SHOWN ON THE CIVIL DETAIL DRAWINGS.

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

NOTES

NO.	REVISIONS	DATE

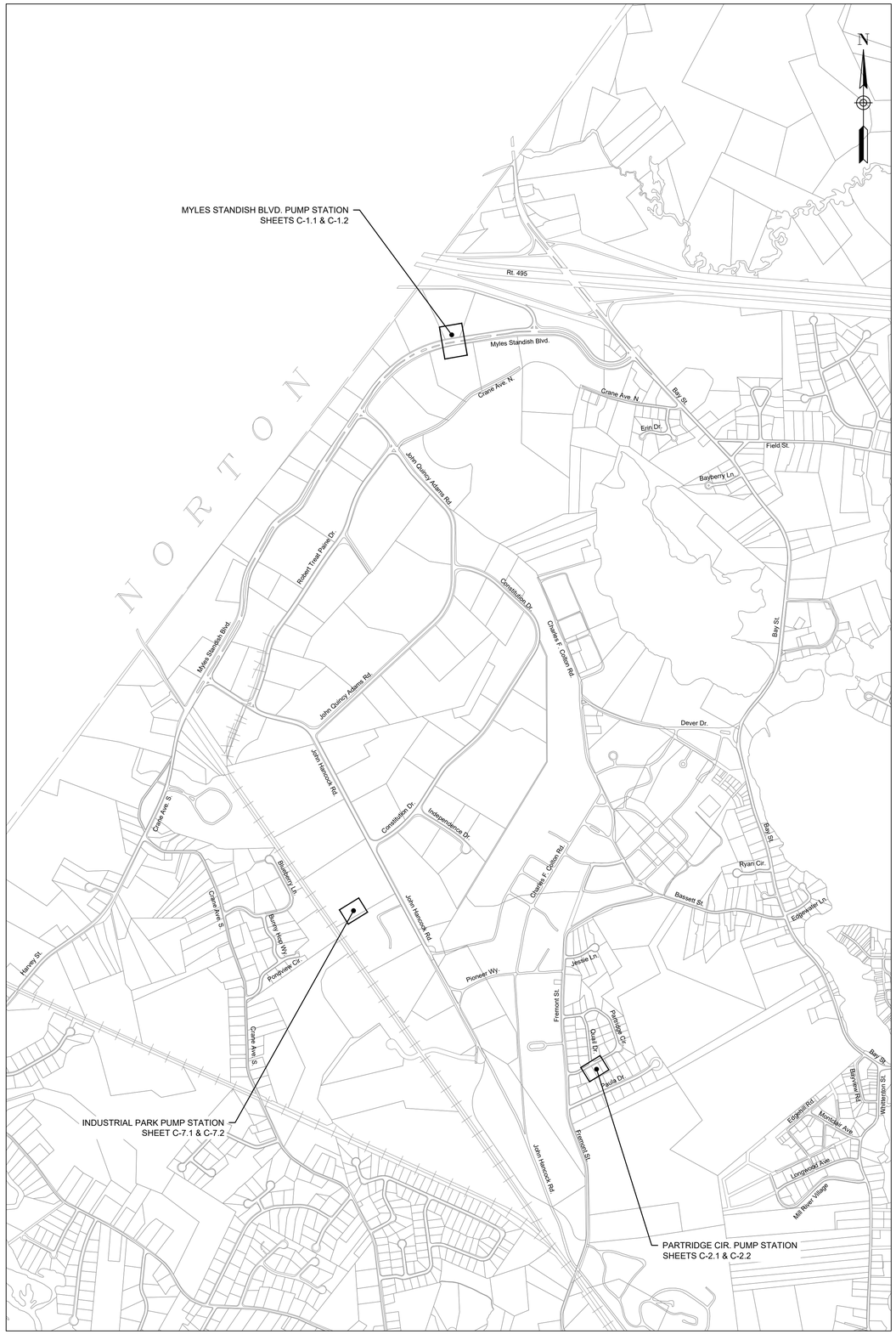
DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

NONE

SHEET NO.

G-2



PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

PROJECT LOCATION MAP I

NO.	REVISIONS	DATE

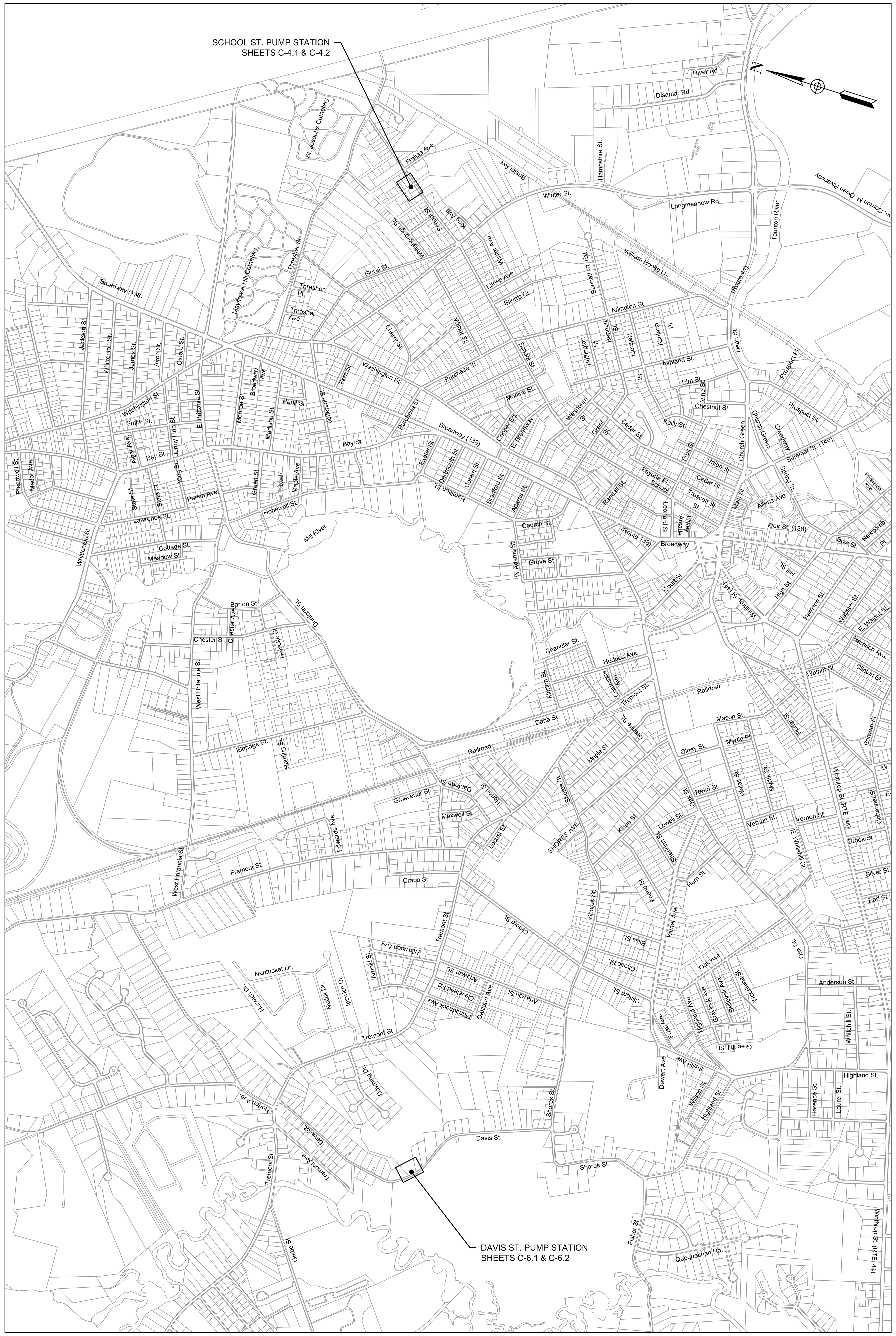
DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	####

SCALE

NONE

SHEET NO.

G-3



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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

PROJECT LOCATION MAP II

NO.	REVISIONS	DATE

DRAWN BY: PN
DESIGNED BY: AG
CHECKED BY: CC
ISSUE DATE: JULY 2023
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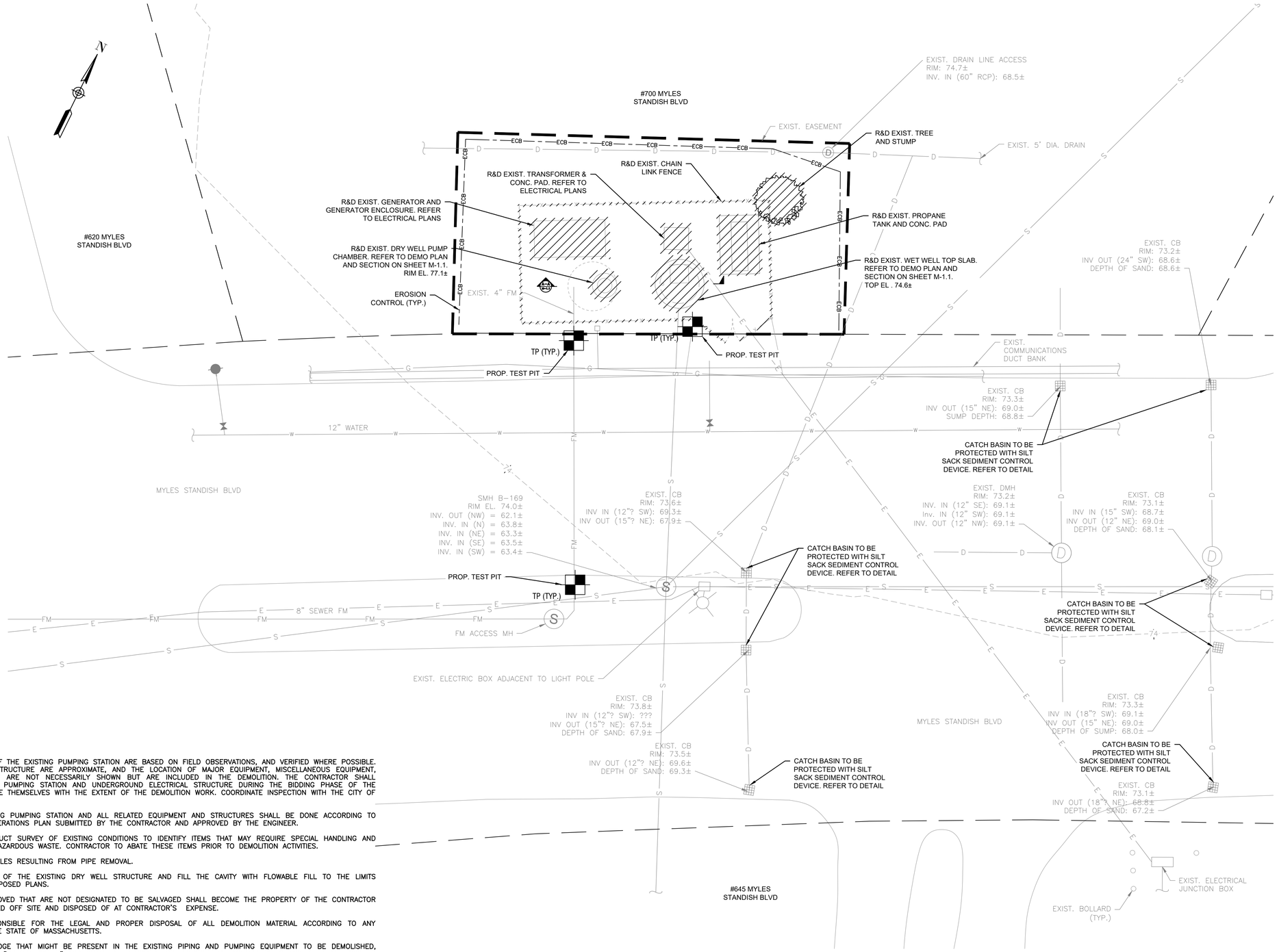
SCALE

NONE

UNLESS OTHERWISE NOTED OR CHANGED BY REPRODUCTION

SHEET NO.

G-4



DEMOLITION NOTES:

1. PLANS AND SECTION OF THE EXISTING PUMPING STATION ARE BASED ON FIELD OBSERVATIONS, AND VERIFIED WHERE POSSIBLE. DIMENSIONS OF THE STRUCTURE ARE APPROXIMATE, AND THE LOCATION OF MAJOR EQUIPMENT, MISCELLANEOUS EQUIPMENT, PIPING AND MATERIALS ARE NOT NECESSARILY SHOWN BUT ARE INCLUDED IN THE DEMOLITION. THE CONTRACTOR SHALL INSPECT THE EXISTING PUMPING STATION AND UNDERGROUND ELECTRICAL STRUCTURE DURING THE BIDDING PHASE OF THE PROJECT TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE DEMOLITION WORK. COORDINATE INSPECTION WITH THE CITY OF TAUNTON.
2. DEMOLITION OF EXISTING PUMPING STATION AND ALL RELATED EQUIPMENT AND STRUCTURES SHALL BE DONE ACCORDING TO THE SEQUENCE OF OPERATIONS PLAN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
3. CONTRACTOR TO CONDUCT SURVEY OF EXISTING CONDITIONS TO IDENTIFY ITEMS THAT MAY REQUIRE SPECIAL HANDLING AND DISPOSAL INCLUDING HAZARDOUS WASTE. CONTRACTOR TO ABATE THESE ITEMS PRIOR TO DEMOLITION ACTIVITIES.
4. PLUG AND CAP ALL HOLES RESULTING FROM PIPE REMOVAL.
5. REMOVE AND DISPOSE OF THE EXISTING DRY WELL STRUCTURE AND FILL THE CAVITY WITH FLOWABLE FILL TO THE LIMITS DEPICTED ON THE PROPOSED PLANS.
6. MATERIALS TO BE REMOVED THAT ARE NOT DESIGNATED TO BE SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED OFF SITE AND DISPOSED OF AT CONTRACTOR'S EXPENSE.
7. CONTRACTOR IS RESPONSIBLE FOR THE LEGAL AND PROPER DISPOSAL OF ALL DEMOLITION MATERIAL ACCORDING TO ANY RELEVANT LAWS OF THE STATE OF MASSACHUSETTS.
8. ALL SEWAGE AND SLUDGE THAT MIGHT BE PRESENT IN THE EXISTING PIPING AND PUMPING EQUIPMENT TO BE DEMOLISHED, SHALL BE CONSIDERED "SPECIAL WASTE" AND SHALL BE REMOVED AND DISPOSED OF ACCORDING TO ANY RELEVANT LAWS OF THE STATE OF MASSACHUSETTS. ALL DEMOLITION MATERIAL INCLUDING CONCRETE, PIPE, AND BRICK THAT WAS IN CONTACT WITH SEWAGE SHALL BE CLEANED IN ACCORDANCE WITH MASSDEP REQUIREMENTS AND DISPOSED OF ACCORDINGLY. ONCE CLEANED, DEMOLITION MATERIALS SHALL NOT BE CONSIDERED SPECIAL WASTE.
9. SITE SHALL BE GRADED TO MATCH EXISTING ELEVATIONS UNLESS SPECIFIED OTHERWISE.

GENERAL NOTES:

1. CONTRACTOR SHALL CONDUCT TEST PITS AS SHOWN WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, TO FIELD VERIFY THE EXACT SIZE, MATERIAL, LOCATION, INVERT ELEVATION AND ALIGNMENT (VERTICAL AND HORIZONTAL) OF EXISTING UNDERGROUND PIPING. TEST PITS ARE TO BE COMPLETED PRIOR TO PUMP SHOP DRAWING SUBMISSION. PUMPS ARE SIZED BASED ON WORST CASE SCENARIO AND MAY NEED TO BE MODIFIED..
2. THE CONTRACTOR SHALL MAKE TEST PITS AS REQUIRED IN ORDER TO ASCERTAIN THE EXACT LOCATION OF EXISTING UNDERGROUND UTILITIES.
3. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0134F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.

PREPARED BY

BETA
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REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
JOSEPH FEDERICO, JR.
No. 30663
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	----

SCALE

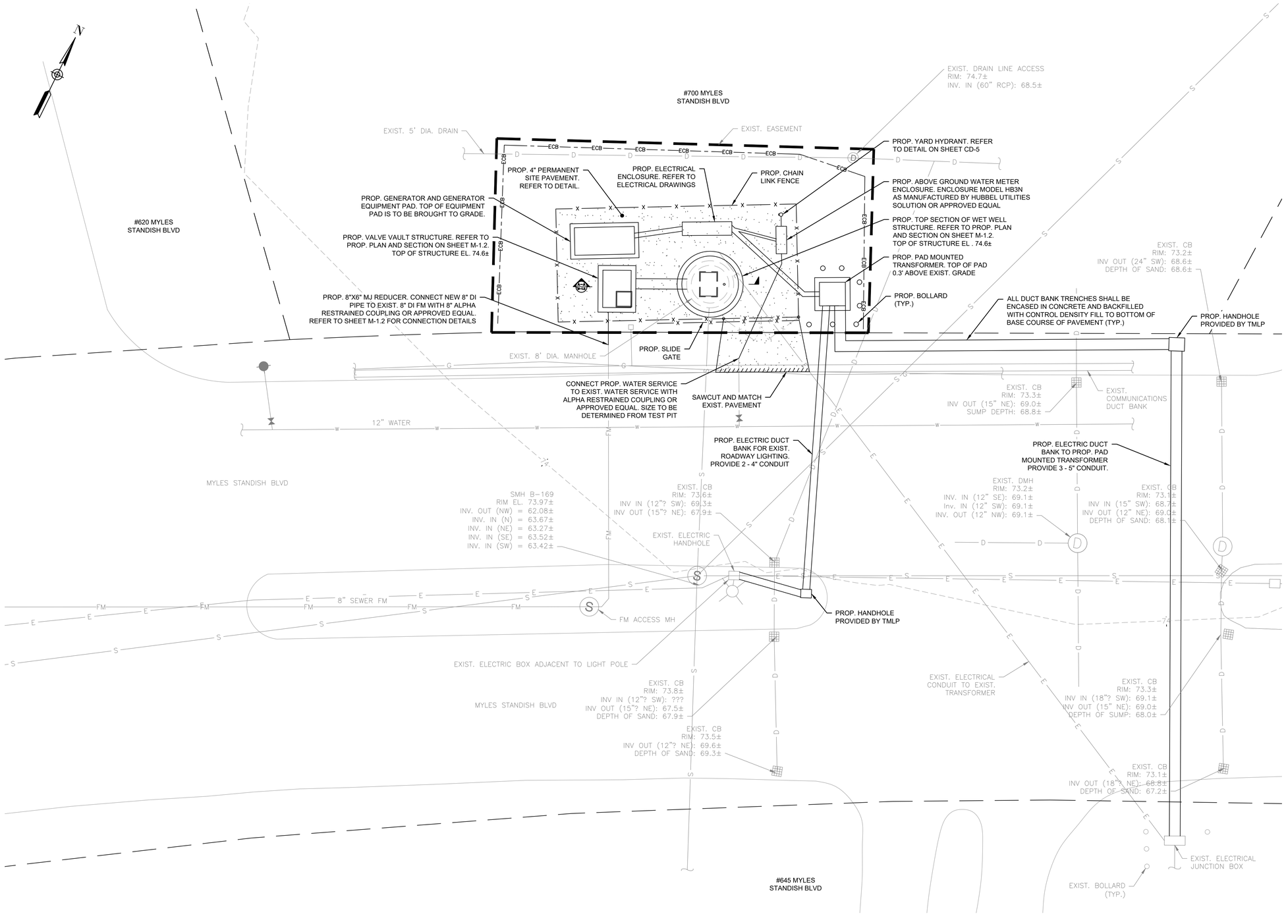
10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-1.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0134F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



PREPARED BY

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JOSEPH FEDERICO, JR.
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REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

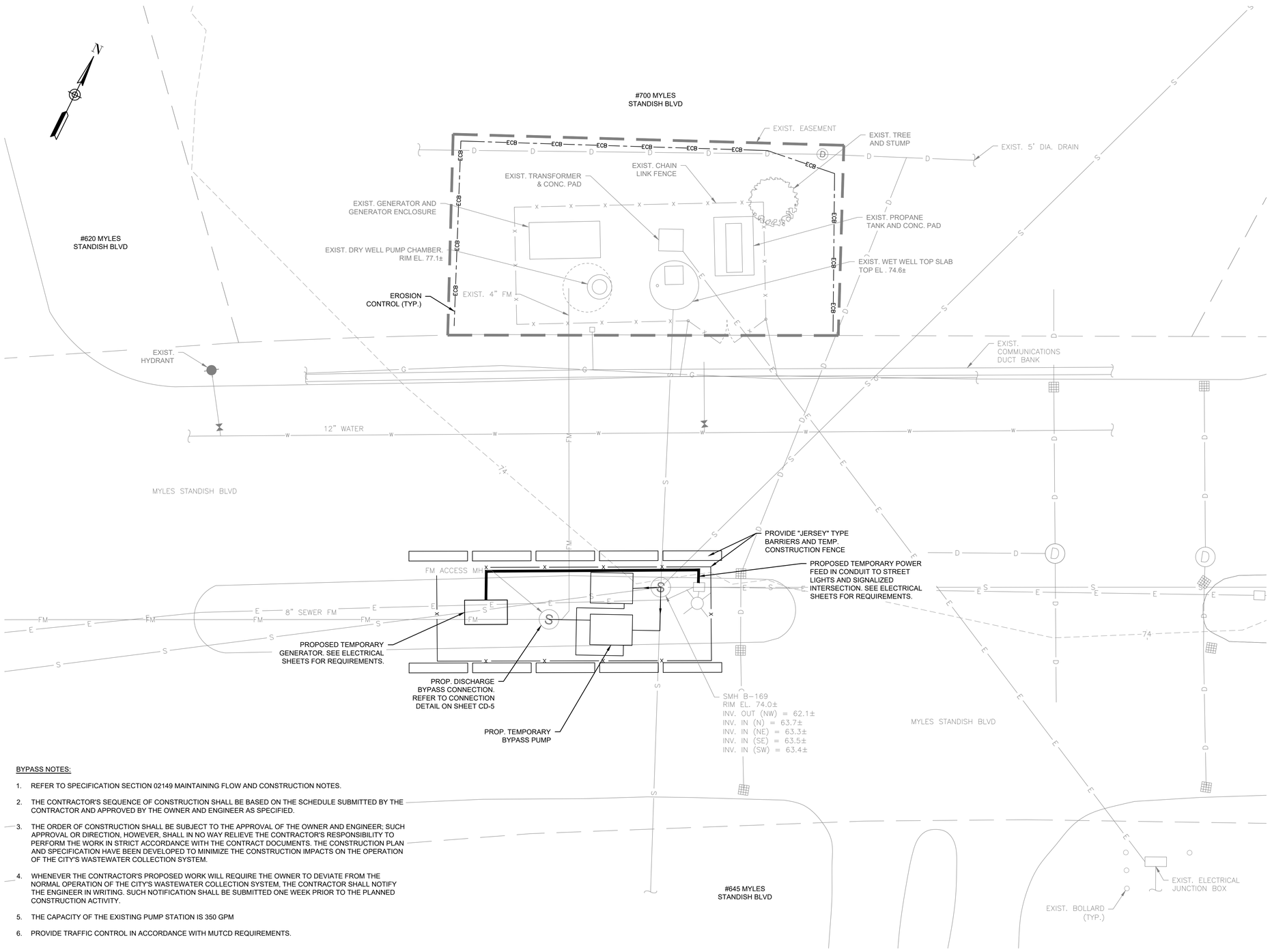
DRAWN BY:	
DESIGNED BY:	PN
CHECKED BY:	AG
ISSUE DATE:	CC
BETA JOB NO.:	10685

SCALE

10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-1.2



BYPASS NOTES:

1. REFER TO SPECIFICATION SECTION 02149 MAINTAINING FLOW AND CONSTRUCTION NOTES.
2. THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE BASED ON THE SCHEDULE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER AND ENGINEER AS SPECIFIED.
3. THE ORDER OF CONSTRUCTION SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER AND 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 PLAN AND SPECIFICATION HAVE BEEN DEVELOPED TO MINIMIZE THE CONSTRUCTION IMPACTS ON THE OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM.
4. WHENEVER THE CONTRACTOR'S PROPOSED WORK WILL REQUIRE THE OWNER TO DEVIATE FROM THE NORMAL OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. SUCH NOTIFICATION SHALL BE SUBMITTED ONE WEEK PRIOR TO THE PLANNED CONSTRUCTION ACTIVITY.
5. THE CAPACITY OF THE EXISTING PUMP STATION IS 350 GPM
6. PROVIDE TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD REQUIREMENTS.

PREPARED BY

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SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Bypass Plan

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

10 0 10 20

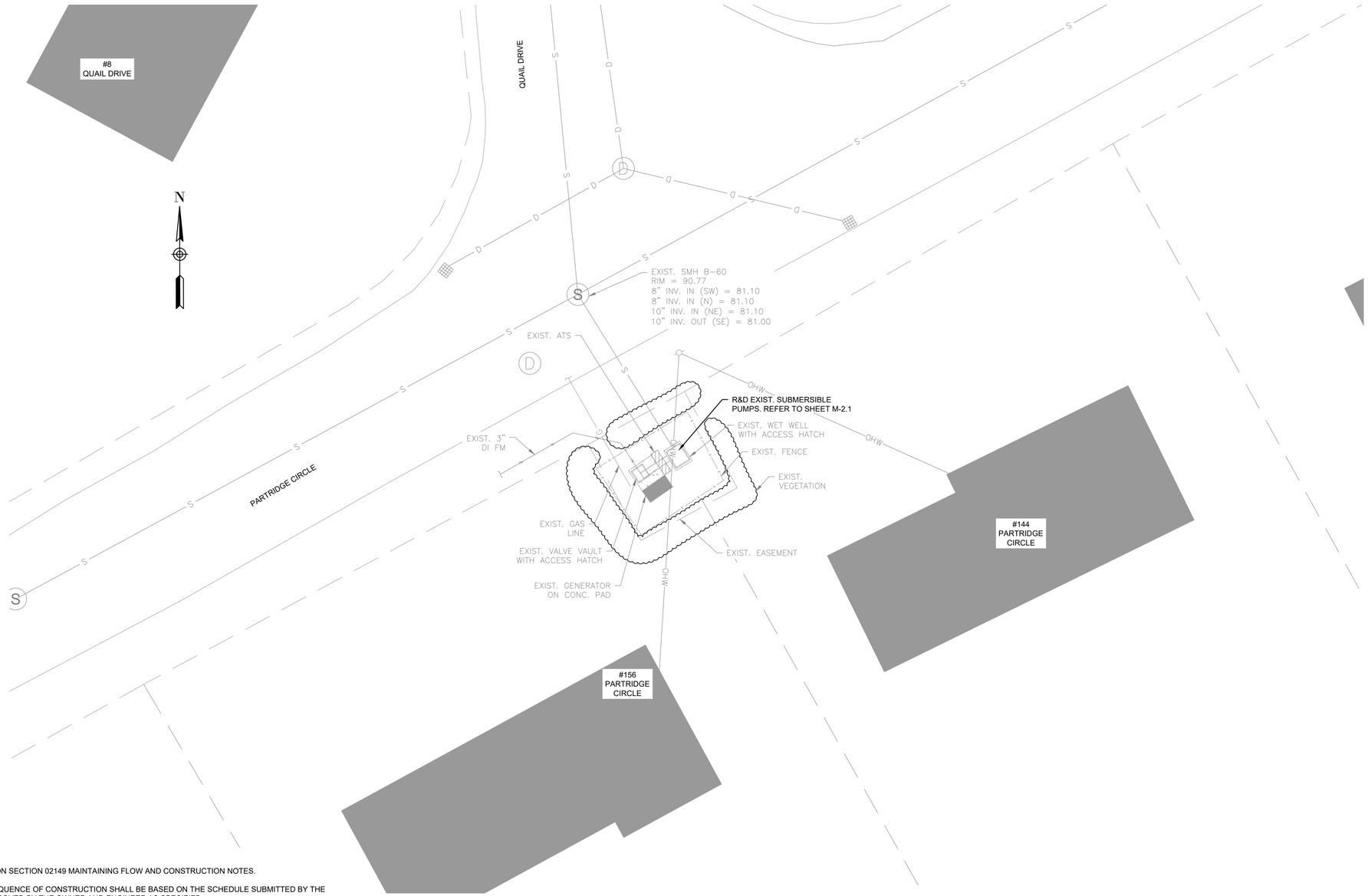
SCALE IN FEET: 1"=10'

SHEET NO.

C-1.3

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0161F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR PLAIN.



BYPASS NOTES:

1. REFER TO SPECIFICATION SECTION 02149 MAINTAINING FLOW AND CONSTRUCTION NOTES.
2. THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE BASED ON THE SCHEDULE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER AND ENGINEER AS SPECIFIED.
3. THE ORDER OF CONSTRUCTION SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER AND 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 PLAN AND SPECIFICATION HAVE BEEN DEVELOPED TO MINIMIZE THE CONSTRUCTION IMPACTS ON THE OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM.
4. WHENEVER THE CONTRACTOR'S PROPOSED WORK WILL REQUIRE THE OWNER TO DEVIATE FROM THE NORMAL OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. SUCH NOTIFICATION SHALL BE SUBMITTED ONE WEEK PRIOR TO THE PLANNED CONSTRUCTION ACTIVITY.
5. THE CAPACITY OF THE EXISTING PUMP STATION IS 50 GPM

PREPARED BY

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SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

PARTRIDGE CIRCLE PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

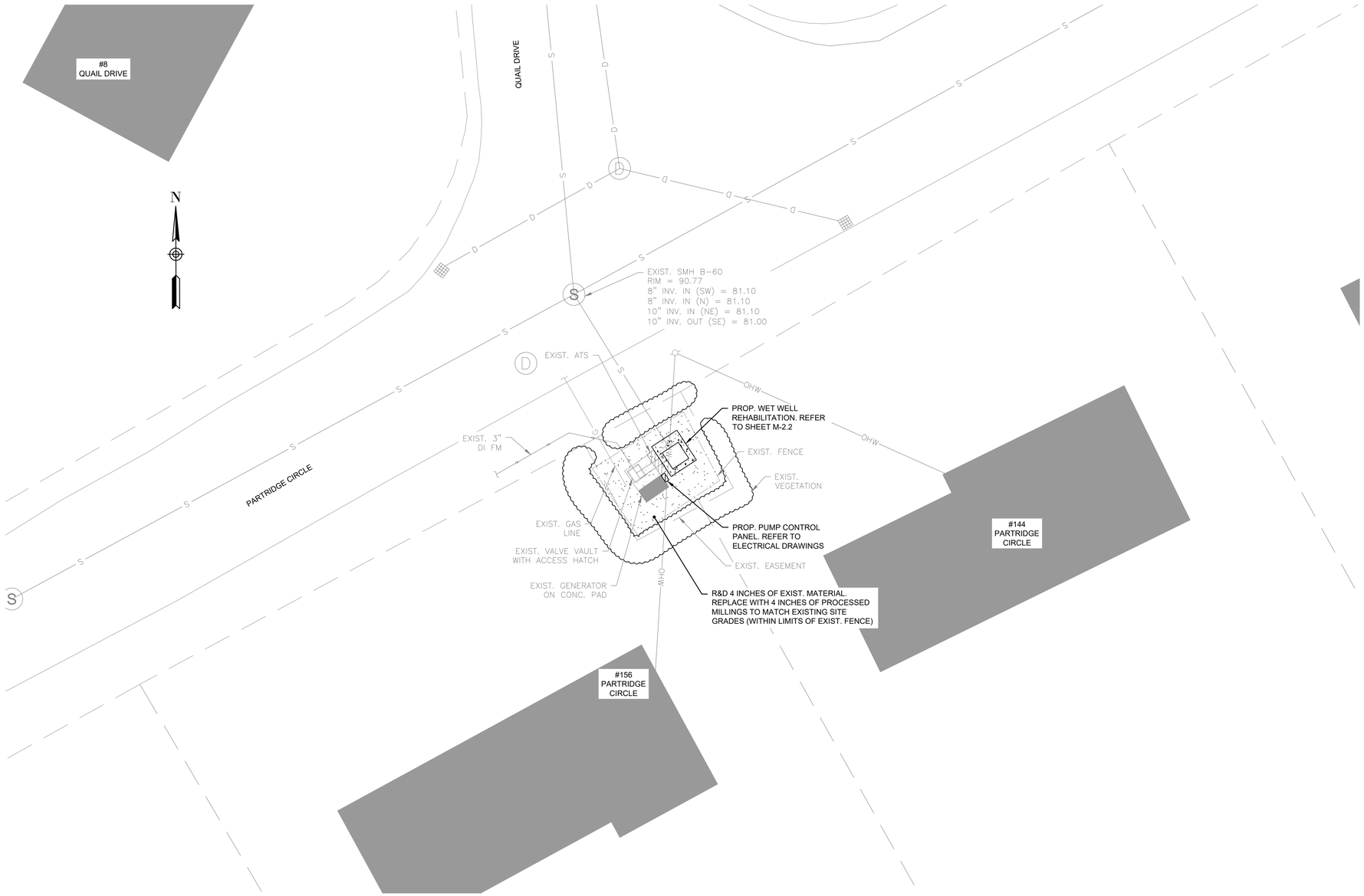
10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-2.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0161F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



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No. 30663
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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

PARTRIDGE CIRCLE
PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

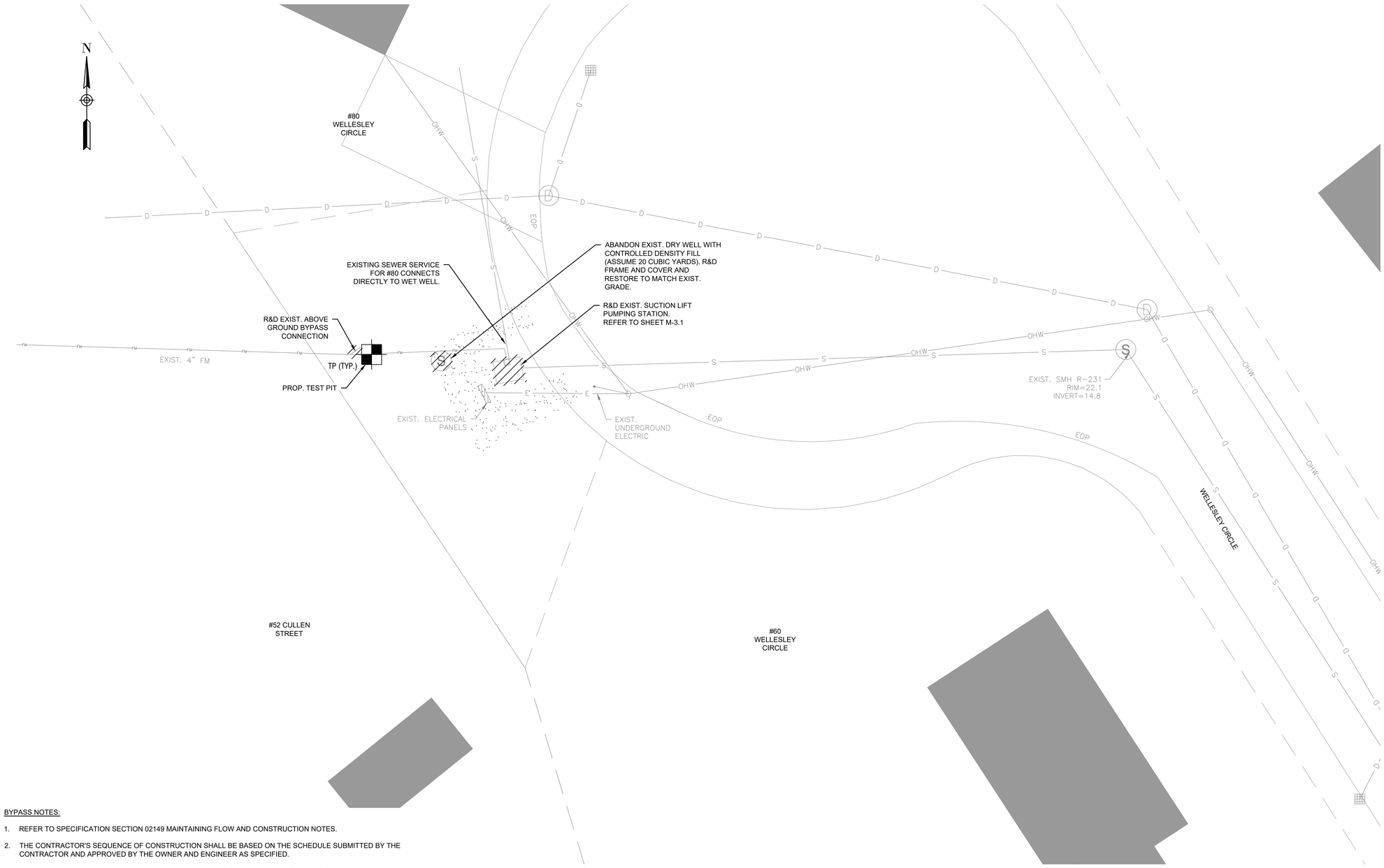
10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-2.2

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0164G PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



BYPASS NOTES:

1. REFER TO SPECIFICATION SECTION 02149 MAINTAINING FLOW AND CONSTRUCTION NOTES.
2. THE CONTRACTOR'S SEQUENCE OF CONSTRUCTION SHALL BE BASED ON THE SCHEDULE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE OWNER AND ENGINEER AS SPECIFIED.
3. THE ORDER OF CONSTRUCTION SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER AND 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 PLAN AND SPECIFICATION HAVE BEEN DEVELOPED TO MINIMIZE THE CONSTRUCTION IMPACTS ON THE OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM.
4. WHENEVER THE CONTRACTOR'S PROPOSED WORK WILL REQUIRE THE OWNER TO DEVIATE FROM THE NORMAL OPERATION OF THE CITY'S WASTEWATER COLLECTION SYSTEM, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING. SUCH NOTIFICATION SHALL BE SUBMITTED ONE WEEK PRIOR TO THE PLANNED CONSTRUCTION ACTIVITY.
5. THE CAPACITY OF THE EXISTING PUMP STATION IS 125 GPM

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SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

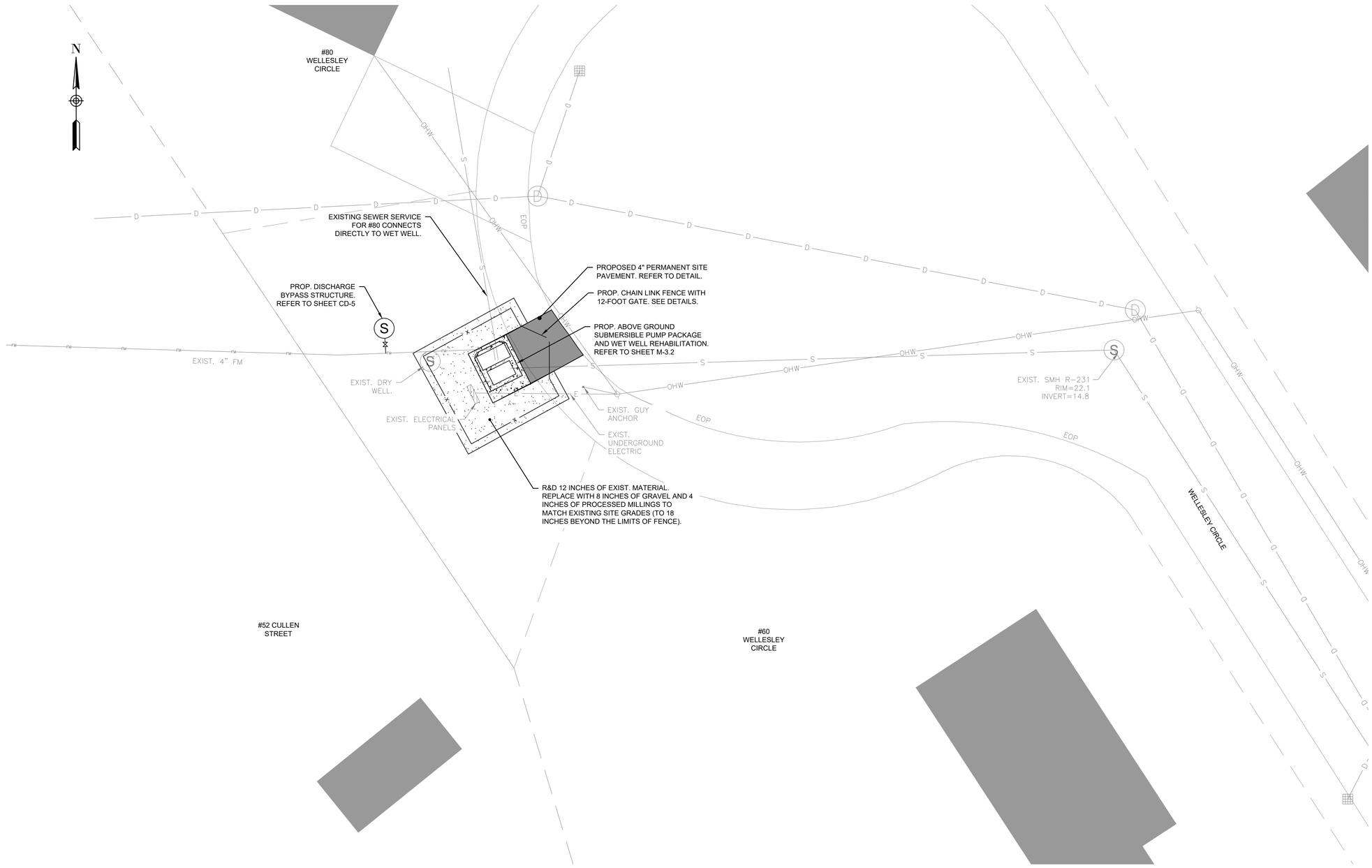
10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-3.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0164G PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500–YEAR FLOOD PLAIN.



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SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE
PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

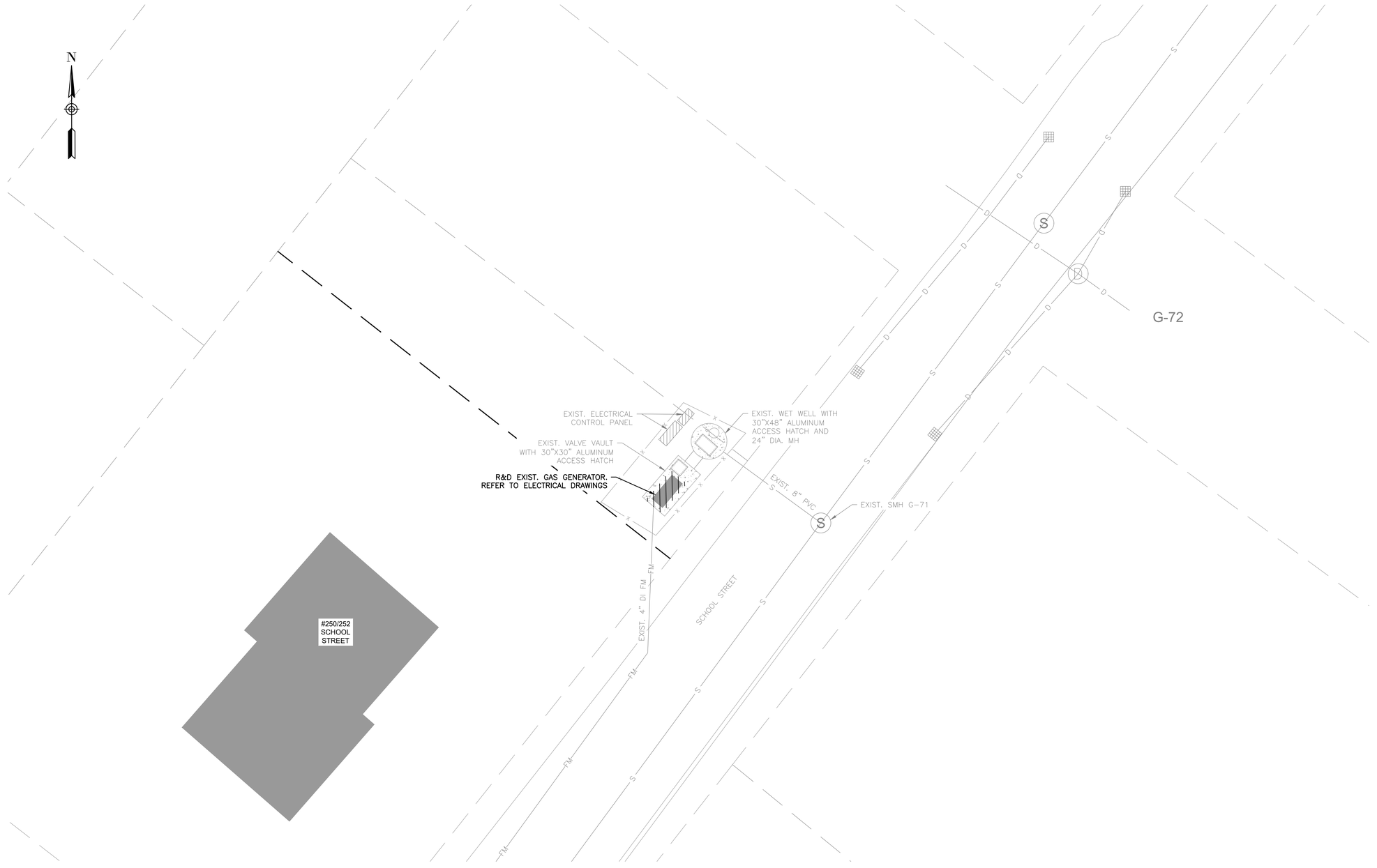
10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-3.2

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBERS 25005C0162G (SCHOOL ST) AND 25005C0256F (STEVENS ST) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500–YEAR FLOOD PLAIN.



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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

SCHOOL STREET PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

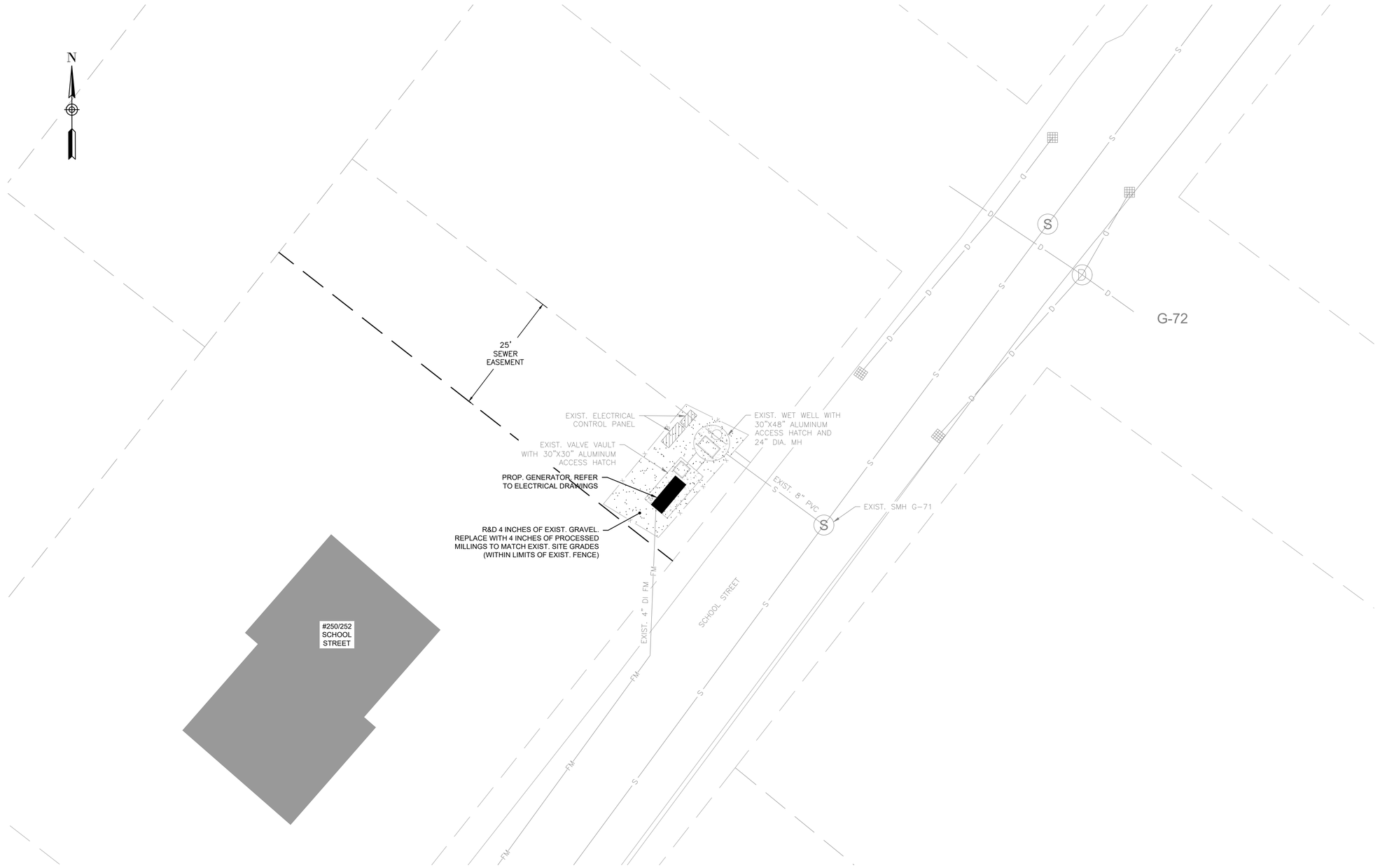
10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-4.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBERS 25005C0162G (SCHOOL ST) AND 25005C0256F (STEVENS ST) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

SCHOOL STREET
PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-4.2

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBERS 25005C0162G (SCHOOL ST) AND 25005C0256F (STEVENS ST) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.

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SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

STEVENS STREET PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

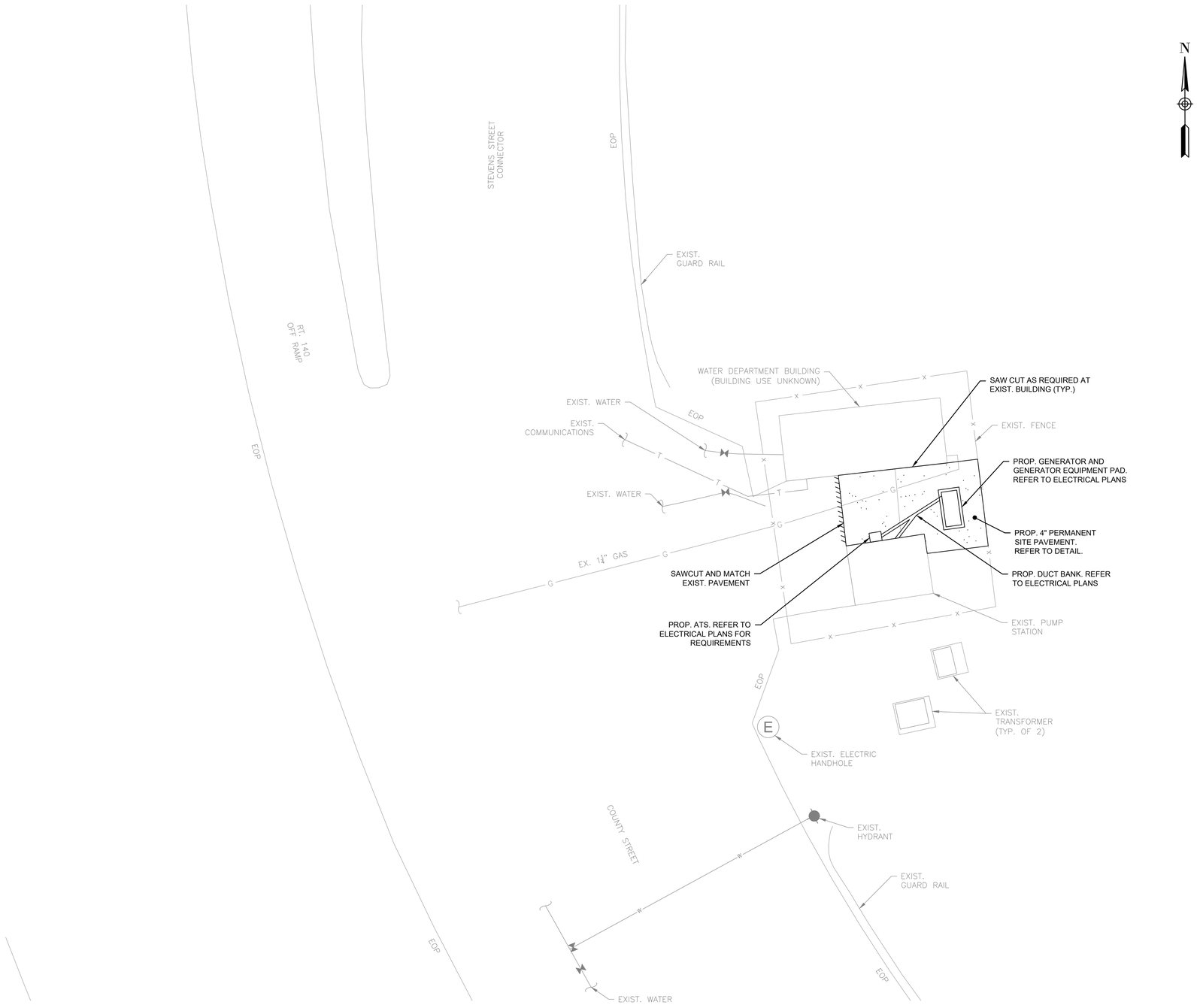
10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-5.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBERS 25005C0162G (SCHOOL ST) AND 25005C0256F (STEVENS ST) PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



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REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

STEVENS STREET PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

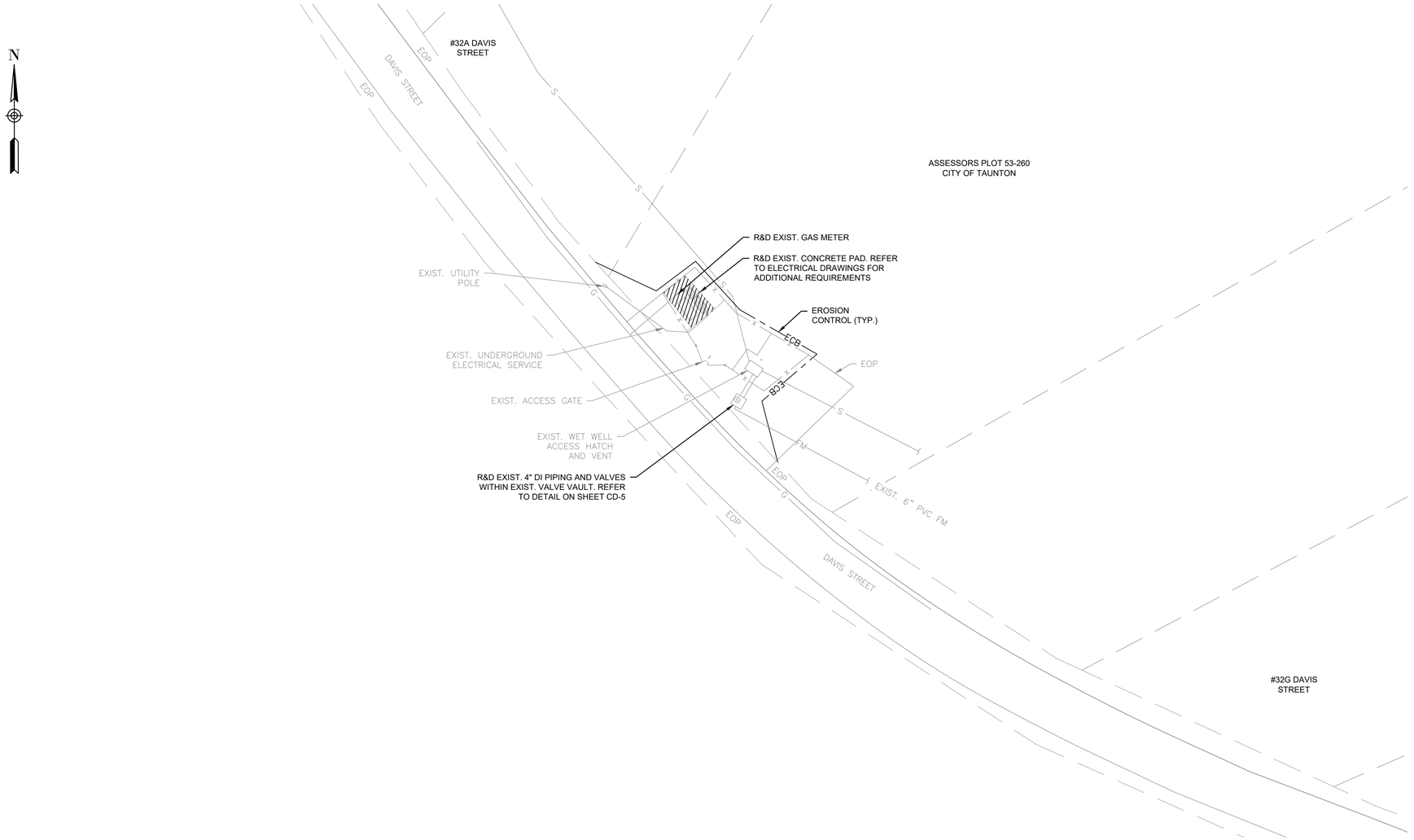
DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-5.2



GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0144F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.

PREPARED BY

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No. 30603
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

DAVIS STREET
PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

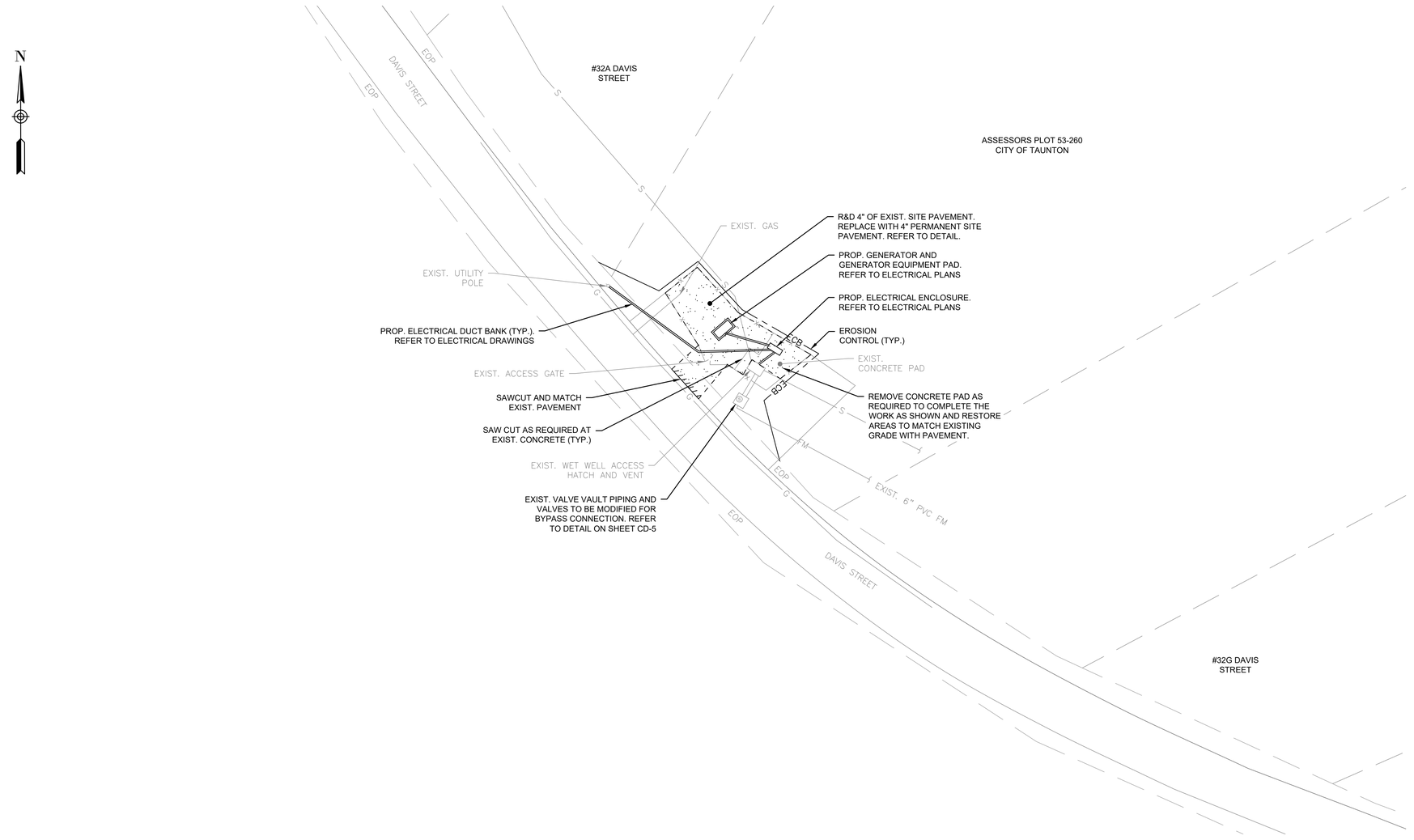
DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

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

SHEET NO.

C-6.1



GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0144F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500–YEAR FLOOD PLAIN.

PREPARED BY

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REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

DAVIS STREET
PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

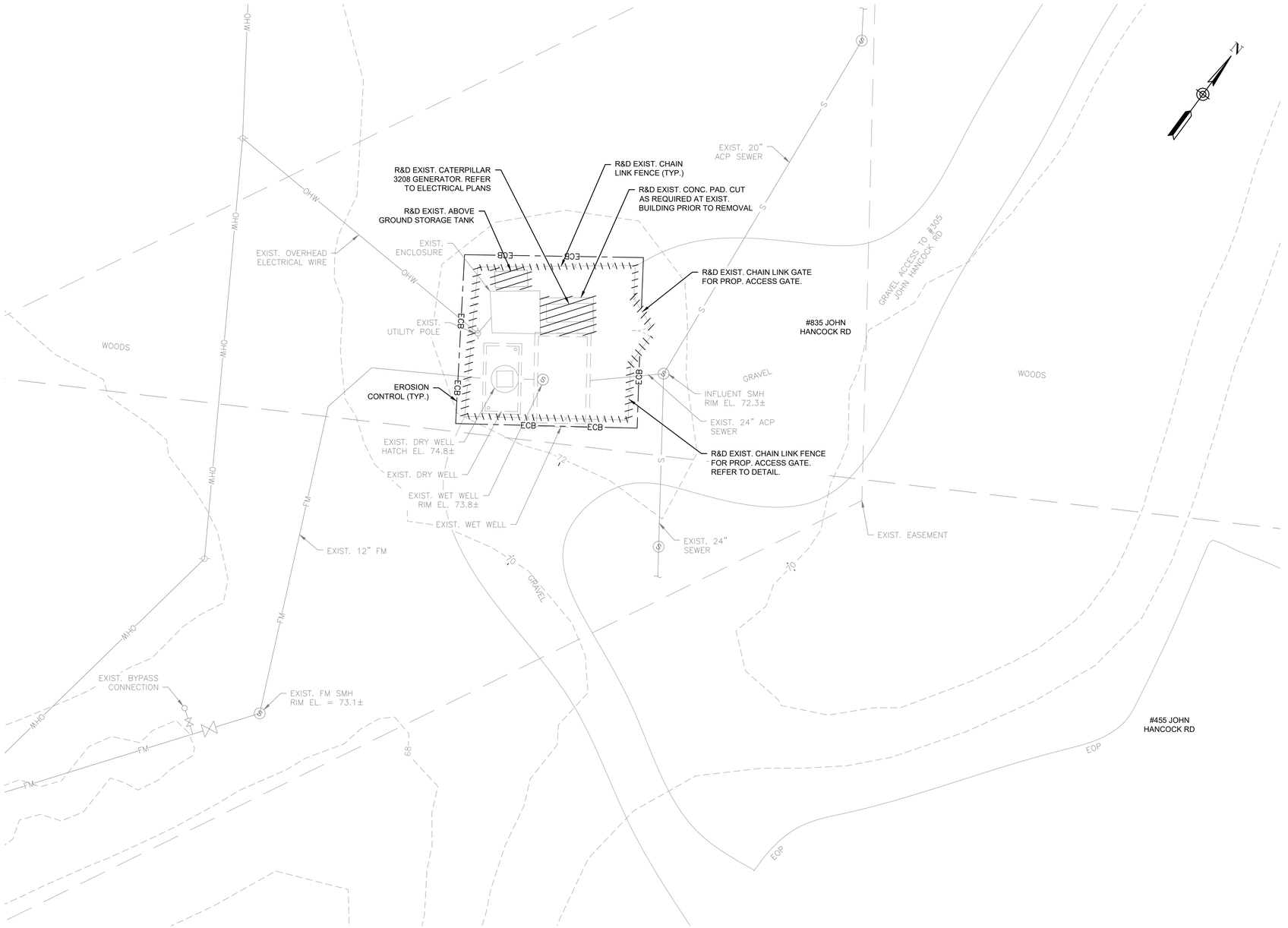
20 0 20 40
SCALE IN FEET: 1"=20'

SHEET NO.

C-6.2

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0134F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500-YEAR FLOOD PLAIN.



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JOSEPH FEDERICO, JR.
No. 30603
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

INDUSTRIAL PARK PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	PN
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

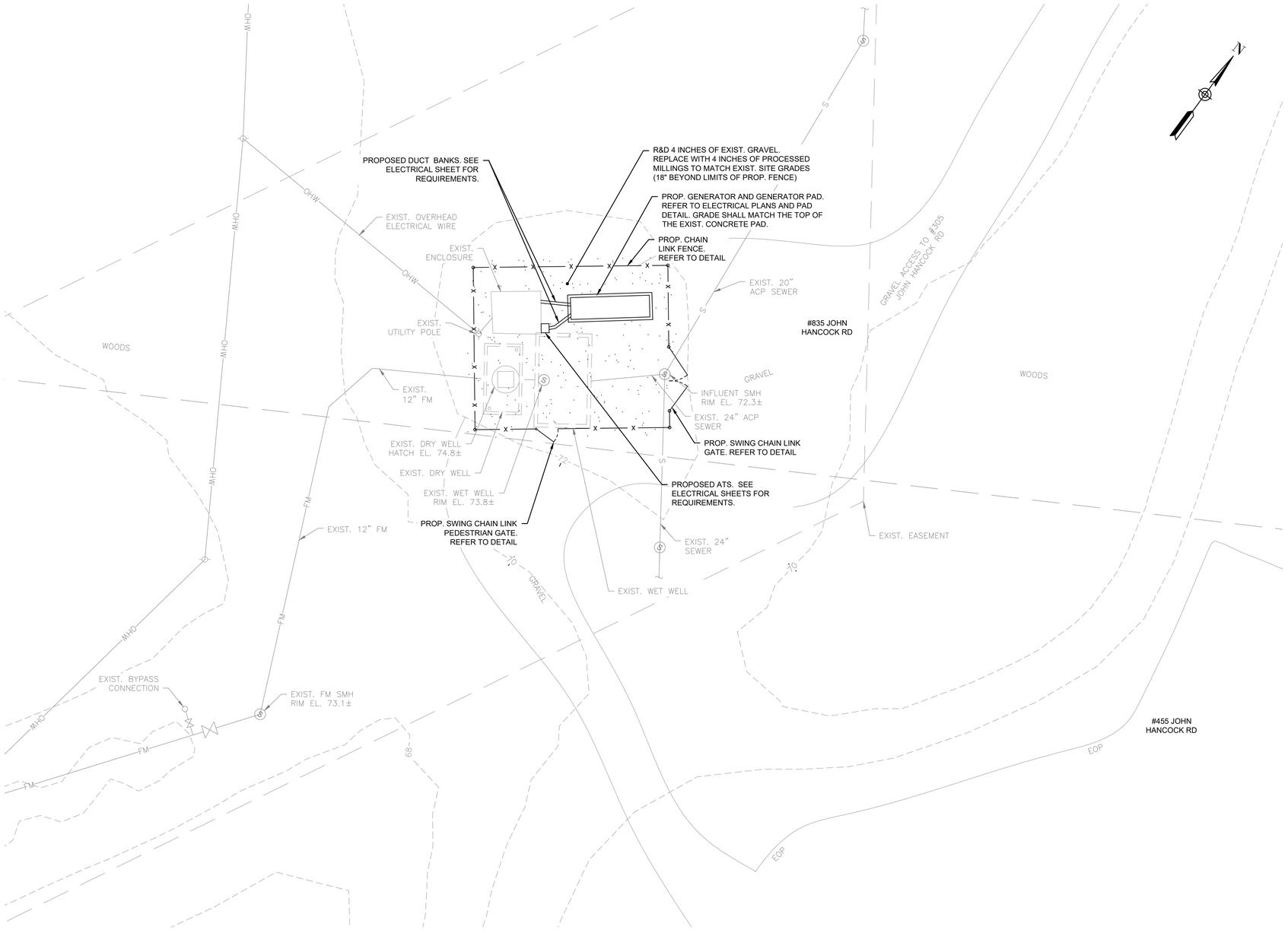
10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-7.1

GENERAL NOTES:

1. FIRM FLOOD INSURANCE RATE MAP NUMBER 25005C0134F PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY FOR BRISTOL COUNTY, MASSACHUSETTS, INDICATES THE PROJECT SITE IS LOCATED WITHIN "ZONE X," WHICH IS LOCATED OUTSIDE THE 500–YEAR FLOOD PLAIN.



PREPARED BY

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www.BETA-Inc.com

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COMMONWEALTH OF MASSACHUSETTS
JOSEPH FEDERICO, JR.
No. 30663
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

INDUSTRIAL PARK PUMP STATION

Proposed Site Work

NO.	REVISIONS	DATE

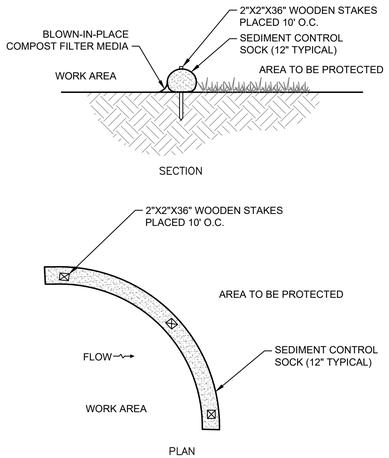
DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

10 0 10 20
SCALE IN FEET: 1"=10'

SHEET NO.

C-7.2

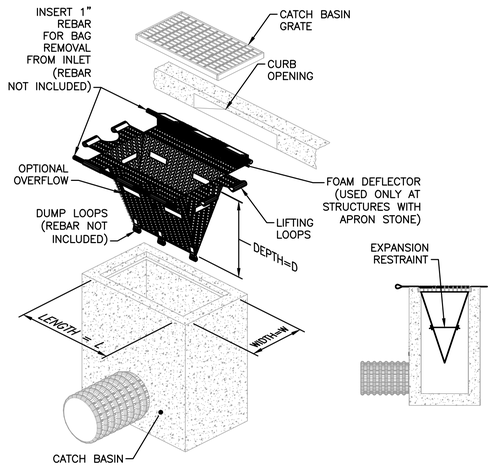


CONSTRUCTION SPECIFICATIONS

1. SOCKS SHALL BE PLACED IN A ROW WITH ENDS OVERLAPPING THE ADJACENT SOCK.
2. SOCKS SHALL BE SECURELY ANCHORED IN PLACE BY STAKES DRIVEN THOUGH THE SOCKS.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
4. SOCKS SHALL BE REMOVED WHEN WORK IS COMPLETE AN THE AREA HAS STABILIZED.

SEDIMENT CONTROL "COMPOST SOCK"

NOT TO SCALE

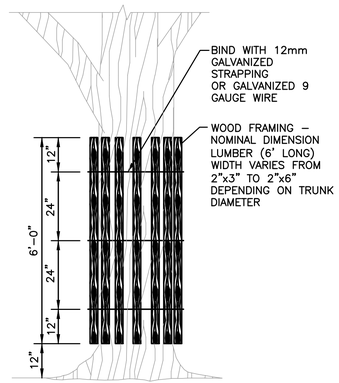


NOTES:

1. CONTRACTOR SHALL MAINTAIN ALL SILT SACK SEDIMENT CONTROL DEVICE INSTALLATIONS AND REPLACE WHEN SATURATED WITH SEDIMENT BASED ON MANUFACTURER RECOMMENDATIONS. SILT SACK SHALL BE INSPECTED AFTER EVERY RAIN EVENT BUT NO LONGER THAN EVERY TWO WEEKS.
2. SILT SACK SHALL BE DOUBLE NEEDLE SEWN POLYPROPYLENE GEOTEXTILE FABRIC AND RATED FOR HIGH FLOW UNLESS OTHERWISE DIRECTED.
3. CONTRACTOR SHALL PROVIDE CURB OPENING DEFLECTOR AT ALL CATCH BASINS AS NECESSARY.

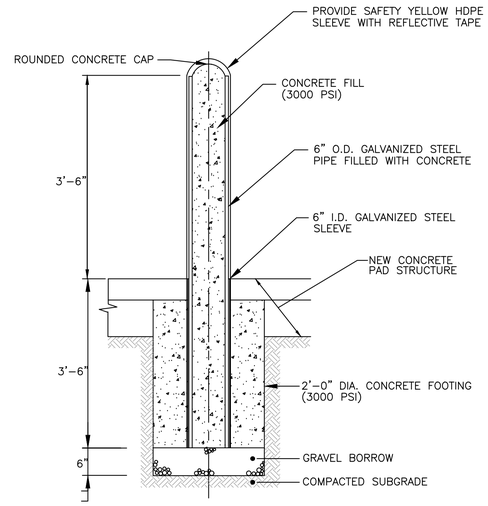
TYPICAL CATCH BASIN EROSION CONTROL PROTECTION

SCALE: NONE



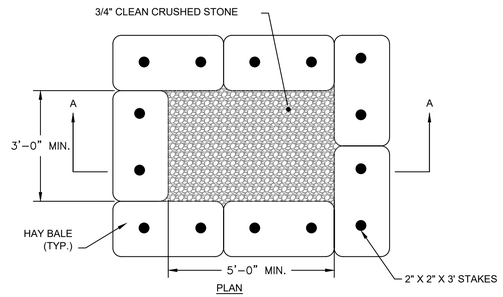
TREE PROTECTION

SCALE: NONE

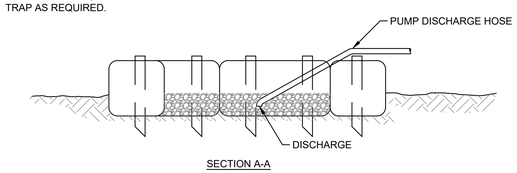


CONCRETE-FILLED STEEL BOLLARD

SCALE: NONE

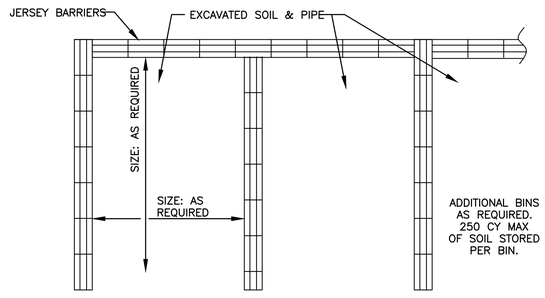


NOTES
ALL DEWATERING DISCHARGES SHALL BE THROUGH SEDIMENT CONTROL TRAPS, CONTRACTOR SHALL MAINTAIN AND CLEAN TRAP AS REQUIRED.

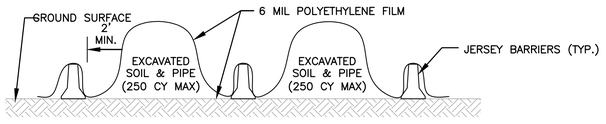


SEDIMENT CONTROL TRAP

NOT TO SCALE



PLAN



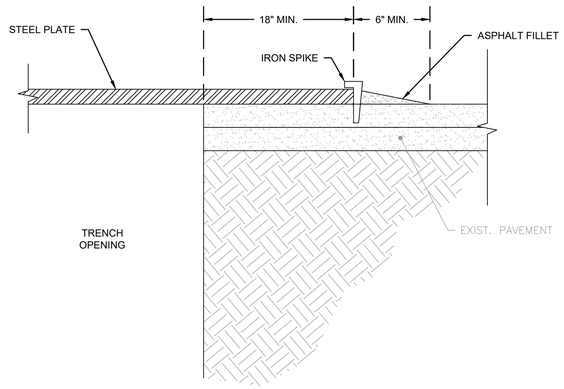
ELEVATION

NOTES:

1. PERIODICALLY (AT LEAST WEEKLY) INSPECT THE STOCKPILES TO INSURE THAT THE LINER AND COVER ARE INTACT AND SECURELY ANCHORED.
2. CONTROL FUGITIVE DUST AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. SWEEP AND DISPOSE OF ALL RESIDUAL DIRT, DUST AND DEBRIS FROM THE STAGING AREA AFTER COMPLETION OF THE WORK.
4. JERSEY BARRIERS SHALL BE PLACED AS SHOWN ON PLANS OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE UNTIL IT IS NO LONGER NEEDED FOR THE PURPOSE INTENDED.
5. JERSEY BARRIERS SHALL BE MAINTAINED OR REPLACED UNTIL THEY ARE NO LONGER NECESSARY FOR THE PURPOSE INTENDED. AT THE COMPLETION OF WORK, ALL POLYETHYLENE AND JERSEY BARRIERS SHALL BE REMOVED AND PROPERLY DISPOSED OF.
6. PRIOR TO CONSTRUCTION, COORDINATE WITH OWNER/ENGINEER IN REGARDS TO SIZE AND LOCATION.

SURPLUS SOIL STOCKPILE AREA

SCALE: NONE



NOTES:

1. MUTCD COMPLIANT RETROREFLECTIVE ORANGE CONSTRUCTION WARNING SIGNS (48"X48") WITH WORDING "STEEL PLATE AHEAD" SHALL BE INSTALLED IN ADVANCE OF STEEL PLATE INSTALLATION.
2. THE CONTRACTOR SHALL DESIGN AND UTILIZE STEEL PLATES OF ADEQUATE DIMENSIONS AND THICKNESS FOR INTENDED USE AND VEHICLE LOADING . MAXIMUM ALLOWABLE DEFLECTION SHALL BE 0.025". IRON SPIKE FASTENERS SHALL BE INSTALLED AROUND THE PERIMETER OF THE STEEL PLATE.

STEEL PLATES SHALL NOT BE USED BETWEEN NOVEMBER 15 AND APRIL 1 WITHOUT DPW APPROVAL, OR AT ANY TIME WHEN SNOW OR FREEZING IS FORECASTED.

STEEL PLATE INSTALLATION

SCALE: NONE

PREPARED BY

BETA
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REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
JOSEPH FEDERICO, JR.
No. 30853
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

CIVIL DETAILS I

NO.	REVISIONS	DATE
1	ADDENDUM #1	6/17/22

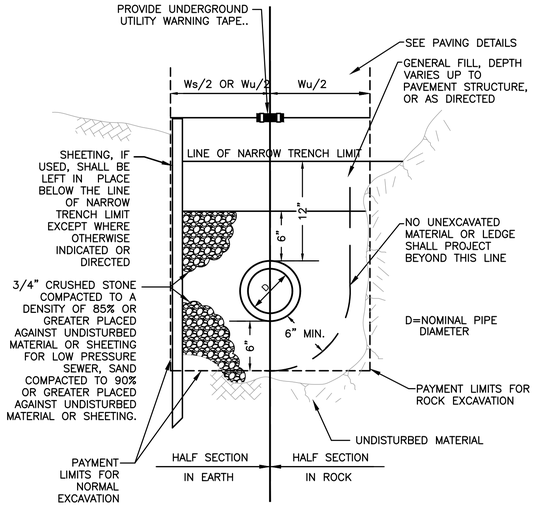
DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	

SCALE

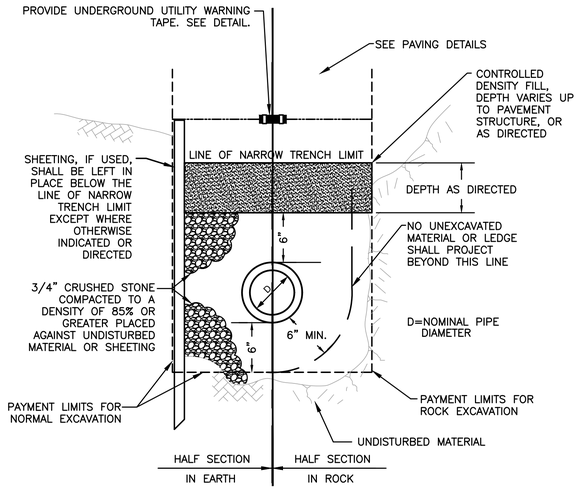
NONE

SHEET NO.

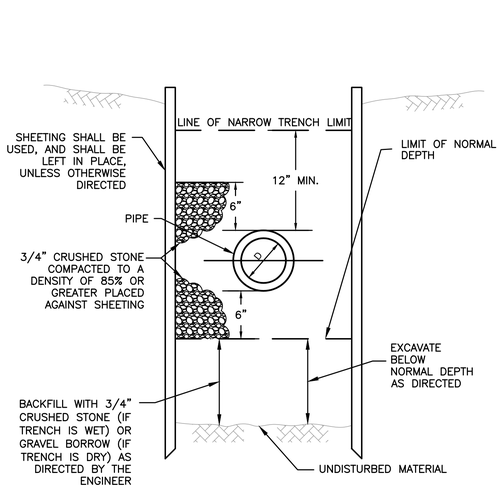
CD-1



STANDARD TRENCH SECTION
SCALE: NONE

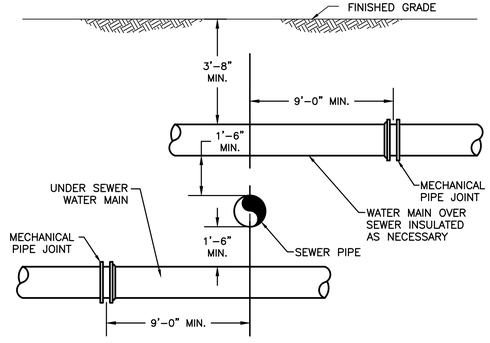


STANDARD TRENCH SECTION FOR CROSS TRENCHES AND WHERE CDF IS REQUIRED
SCALE: NONE



DETAILS NOT SHOWN ARE SAME AS FOR TRENCH SECTIONS SHOWN ELSEWHERE.

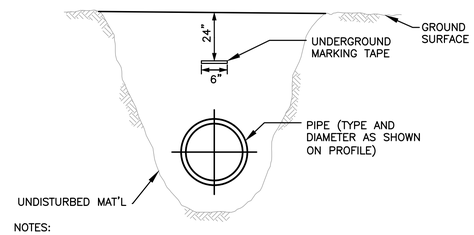
STANDARD TRENCH SECTION (WHERE UNSUITABLE MATERIAL EXISTS BELOW NORMAL DEPTH)
SCALE: NONE



NOTES:

1. SEWERS SHALL BE KEPT REMOTE FROM WATER SUPPLY PIPING AND STRUCTURES. WHEREVER FEASIBLE, SEWERS SHOULD BE LAID AT A MINIMUM HORIZONTAL DISTANCE OF 10 FEET FROM WATER MAINS. IF LOCAL CONDITIONS PREVENT THIS, THE WATER MAIN SHOULD BE LAID IN A SEPARATE TRENCH, AND THE ELEVATIONS OF THE CROWN OF THE SEWER PLACED AT LEAST 18 INCHES BELOW THE INVERT OF THE WATER MAIN.
2. WHENEVER SEWERS MUST CROSS WATER MAINS, THE CROWN OF THE SEWER SHOULD BE PLACED A MINIMUM OF 18 INCHES BELOW THE INVERT OF THE WATER MAIN. IN ADDITION, THE WATER MAIN MUST BE CONSTRUCTED WITH ONE FULL LENGTH OF PIPE CENTERED ABOUT THE SEWER CROSSING. THE WATER PIPE SHALL HAVE MECHANICAL JOINTS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE SEWER CROSSING.
3. WHEN IT IS IMPOSSIBLE TO OBTAIN HORIZONTAL OR VERTICAL SEPARATION AS STIPULATED ABOVE, BOTH THE WATER AND THE SEWER SHOULD BE ENCASED IN CONTROL DENSITY FILL FOR A DISTANCE OF 10 FEET ON EITHER SIDE OF THE CROSSING.

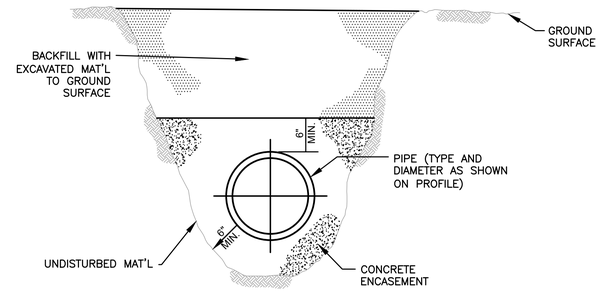
SEWER LINE / WATER LINE CROSSING
SCALE: NONE



NOTES:

1. MARKING TAPE TO BE INSTALLED OVER ALL PIPELINES AND CONDUITS INSTALLED UNDER THIS CONTRACT.
2. MARKING TAPE FOR NON–FERROUS PIPE OR CONDUITS TO BE DETECTABLE, MAGNETIC TYPE.
3. MARKING TAPE FOR FERROUS PIPE OF CONDUITS TO BE NON–DETECTABLE, NON–MAGNETIC TYPE.
4. MARKING TAPE IS TO BE 6–INCHES WIDE AND INSTALLED DIRECTLY ABOVE THE PIPE OR CONDUIT APPROXIMATELY 24–INCHES BELOW THE PROPOSED FINISHED GRADE.

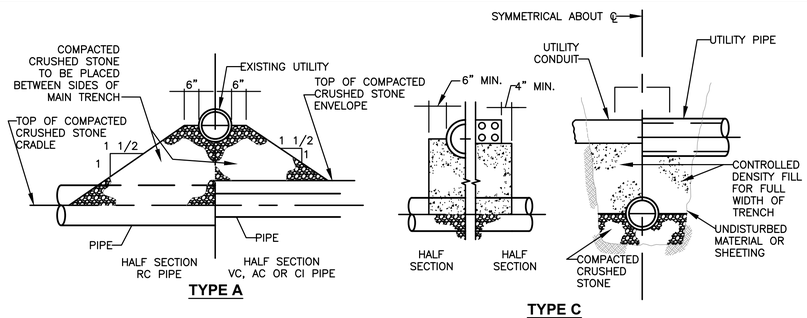
UNDERGROUND UTILITY MARKING TAPE DETAIL
SCALE: NONE

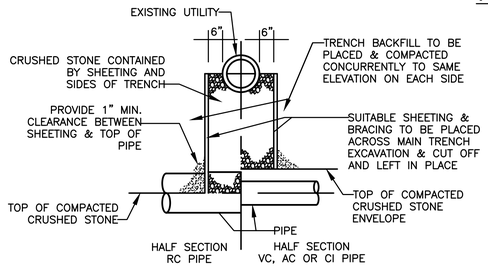


NOTES:

1. DETAIL FOR LOCATIONS WHERE INSUFFICIENT SEPARATION BETWEEN SEWER AND WATER EXISTS (<10' HORIZONTAL OR <18" VERTICAL).
2. THE PIPE SHALL BE PROPERLY SECURED TO PREVENT DISPLACEMENT DURING THE POURING OF CONCRETE ENCASEMENT.
3. LIMIT OF CONCRETE ENCASEMENT SHALL BE SHOWN ON THE PROFILE OR AS DIRECTED.

CONCRETE ENCASEMENT DETAIL
SCALE: NONE





TYPE B

NOTE: TYPE C SUPPORT TO BE PROVIDED UNLESS OTHERWISE DIRECTED

TYPICAL SUPPORTS FOR UTILITIES
SCALE: NONE

PREPARED BY

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REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
JOSEPH FEDERICO, JR.
No. 30803
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

CIVIL DETAILS II

NO.	REVISIONS	DATE
1	ADDENDUM #1	6/17/22

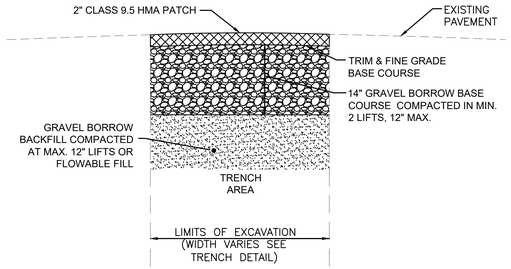
DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

NONE

SHEET NO.

CD-2

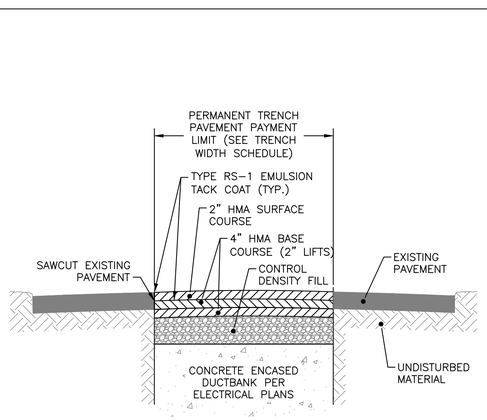


NOTE:

TEMPORARY PATCH SHALL REMAIN IN PLACE THROUGH A WINTER SEASON SETTLEMENT PERIOD BEFORE PERMANENT PATCH AND/OR OVERLAY IS INSTALLED.

BITUMINOUS CONCRETE TEMPORARY TRENCH WIDTH PAVEMENT PATCH

SCALE: NONE

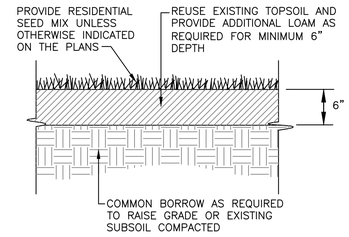


NOTES:

1. MINIMUM TOTAL PAVEMENT THICKNESS TO BE 6–INCHES AND SHALL BE APPLIED TO PAVEMENT RESTORATION LOCATED WITHIN THE ROADWAY LIMITS. CONTRACTOR TO VARY PAVEMENT THICKNESS TO MAINTAIN A MINIMUM CROSS SECTIONAL SLOPE EQUALING 0.02 FT/FT.
2. CUT BACK DISTANCES SHALL BE AS DIRECTED BY THE ENGINEER, HOWEVER UNDER NO CIRCUMSTANCES LESS THAN THE MINIMUM INDICATED.

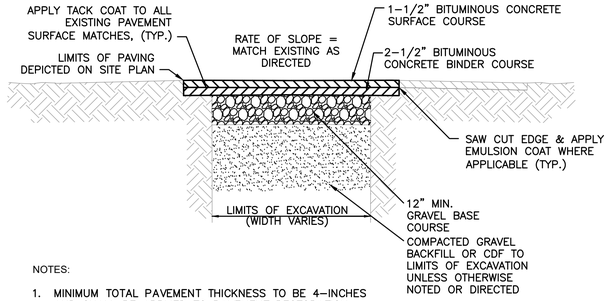
MYLES STANDISH PERMANENT TRENCH-WIDTH ROADWAY PAVEMENT RESTORATION

SCALE: NONE



LOAM AND SEED DETAIL

SCALE: NONE

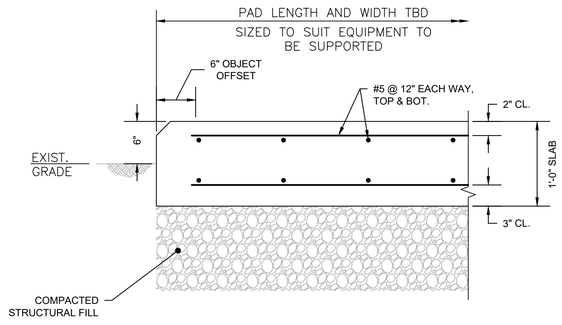


NOTES:

1. MINIMUM TOTAL PAVEMENT THICKNESS TO BE 4–INCHES AND SHALL BE APPLIED TO PAVEMENT RESTORATION LOCATED WITHIN SITE LIMITS AS INDICATED ON THE CONTRACT DRAWINGS.
2. CUT BACK DISTANCES SHALL BE AS DIRECTED BY THE ENGINEER, HOWEVER UNDER NO CIRCUMSTANCES LESS THAN THE MINIMUM INDICATED.

TYPICAL PERMANENT SITE PAVEMENT RESTORATION

SCALE: NONE



TYPICAL SUPPORT PAD

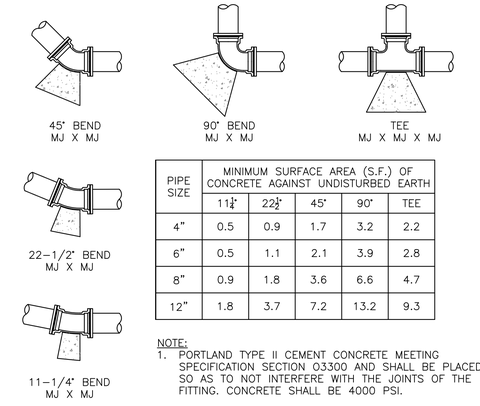
SCALE: NONE

MAXIMUM PAYMENT LIMITS						
DIAMETER OF PIPE D IN INCHES	TRENCH WIDTH IN FEET		TEMPORARY TRENCH PAVEMENT WIDTH IN FEET		PERMANENT TRENCH PAVEMENT WIDTH IN FEET*	
	TRENCH DEPTH		TRENCH DEPTH		TRENCH DEPTH	
	< OR = 10'	> 10' TO 20'	< OR = 10'	> 10' TO 20'	< OR = 10'	> 10' TO 20'
12 AND SMALLER	5.00	6.00	6.00	7.00	8.00	9.00
15	5.25	6.25	6.25	7.25	8.25	9.25
18	5.50	6.50	6.50	7.50	8.50	9.50
21	5.75	6.75	6.75	7.75	8.75	9.75
24	6.00	7.00	7.00	8.00	9.00	10.00
27	6.25	7.25	7.25	8.25	9.25	10.25
30	6.50	7.50	7.50	8.50	9.50	10.50
36	7.00	8.00	8.00	9.00	10.00	11.00
42	7.50	8.50	8.50	9.50	10.50	11.50
48	8.00	9.00	9.00	10.00	11.00	12.00
54	8.50	9.50	9.50	10.50	11.50	12.50
60	9.00	10.00	10.00	11.00	12.00	13.00
66	9.50	10.50	10.50	11.50	12.50	13.50
72	10.00	11.00	11.00	12.00	13.00	14.00

NOTES:

1. PERMANENT TRENCH PAVEMENT INCLUDES 1' CUT BACK OF TEMPORARY PAVEMENT ALONG EACH SIDE OF THE TRENCH.
2. TRENCH DEPTH MEASURED FROM THE EXISTING GROUND SURFACE TO 6" BELOW THE BOTTOM OF THE CONSTRUCTED PIPE.
3. QUANTITIES FOR PAYMENT SHALL BE IN ACCORDANCE WITH THE ABOVE LIMITS OR THE ACTUAL WIDTHS, WHICHEVER IS LESS.

TRENCH WIDTH TABLE



PIPE SIZE	MINIMUM SURFACE AREA (S.F.) OF CONCRETE AGAINST UNDISTURBED EARTH				
	11¼°	22½°	45°	90°	TEE
4"	0.5	0.9	1.7	3.2	2.2
6"	0.5	1.1	2.1	3.9	2.8
8"	0.9	1.8	3.6	6.6	4.7
12"	1.8	3.7	7.2	13.2	9.3

NOTE:
1. PORTLAND TYPE II CEMENT CONCRETE MEETING SPECIFICATION SECTION 03300 AND SHALL BE PLACED SO AS TO NOT INTERFERE WITH THE JOINTS OF THE FITTING. CONCRETE SHALL BE 4000 PSI.

THRUST BLOCK BEARING AREA TABLE FOR WATER AND SEWER MAIN

SCALE: NONE

8–INCH					
END	90° BEND	45° BEND	22.5° BEND	11.25° BEND	8X6 RED.
49 FT	19 FT	13 FT	7 FT	3 FT	34 FT

4–INCH				
END	90° BEND	45° BEND	22.5° BEND	11.25° BEND
18 FT	9 FT	4 FT	1.5 FT	1 FT

RESTRAINED JOINT LENGTHS FOR DUCTILE IRON PIPE

SCALE: NONE

PREPARED BY

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REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
JOSEPH FEDERICO, JR.
No. 30853
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

CIVIL DETAILS III

NO.	REVISIONS	DATE
	ADDENDUM #1	6/17/22

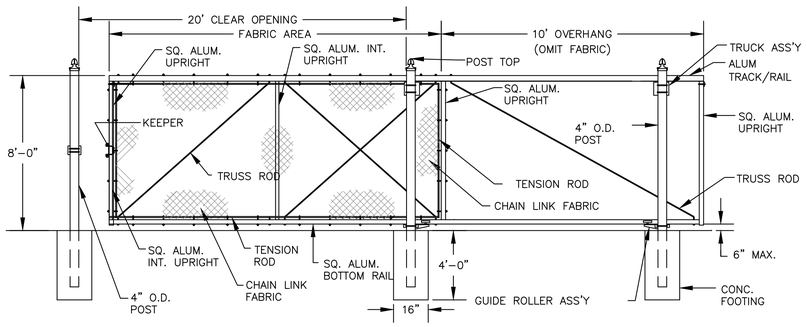
DRAWN BY: PN
DESIGNED BY: AG
CHECKED BY: CC
ISSUE DATE: JULY 2023
BETA JOB NO.: 10685

SCALE

NONE

SHEET NO.

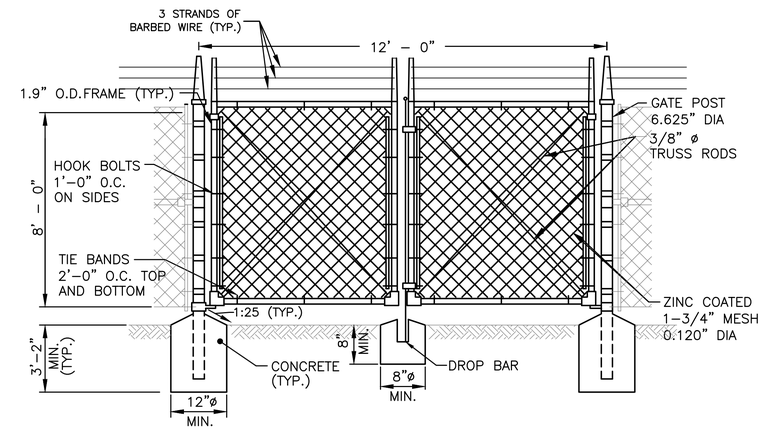
CD-3



SINGLE CANTILEVERED SLIDE GATE DETAIL

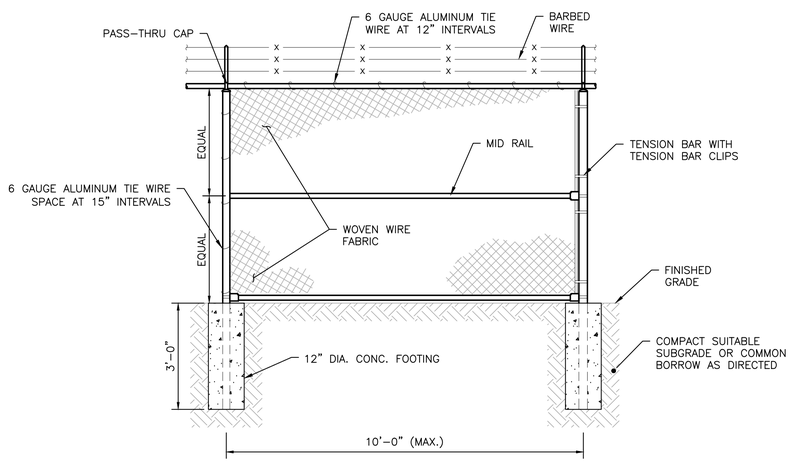
SCALE: NONE

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



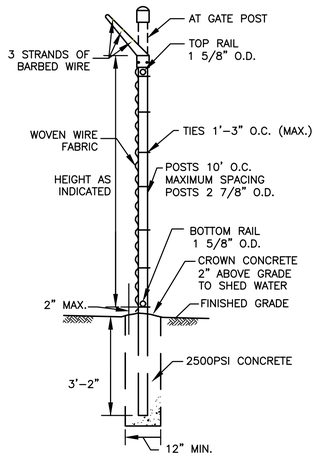
SWING GATE DETAIL

SCALE: NONE



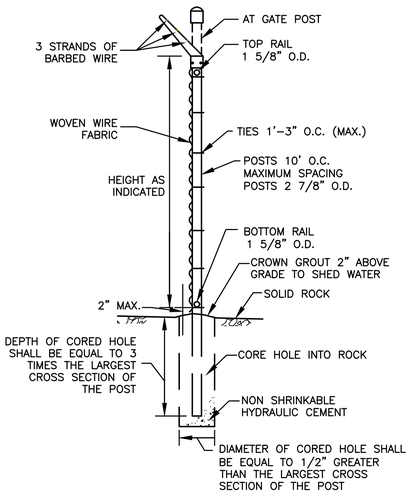
CHAIN LINK FENCE DETAIL

SCALE: NONE



TYPICAL CHAIN-LINK FENCE SECTION DETAIL

SCALE: NONE

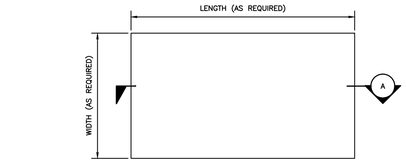


NOTES:

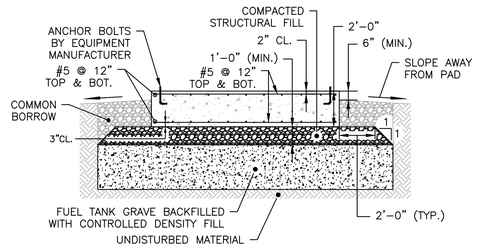
1. IF OVERBURDEN IS ENCOUNTERED CORE DRILLING MAY BE REQUIRED TO ACHIEVE PROPER DEPTH.

CHAIN-LINK FENCE SECTION INSTALLED IN ROCK DETAIL

SCALE: NONE



PLAN



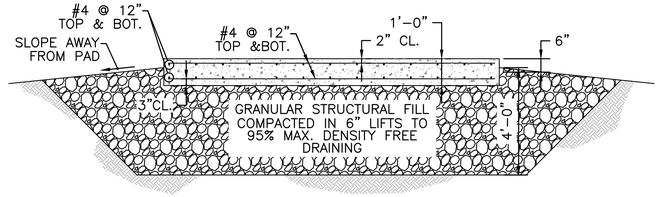
SECTION A

NOTES:

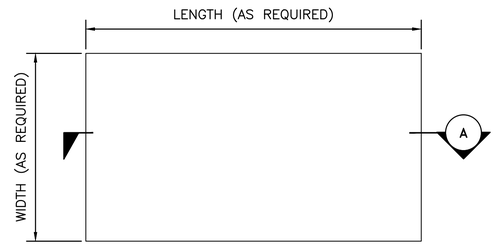
1. LENGTH AND WIDTH OF GENERATOR PAD TO BE COORDINATED WITH GENERATOR SUPPLIER.
2. CONCRETE TO BE 3500 PSI WITH A MAX 4" SLUMP.
3. TOP SURFACE OF PAD TO BE STEEL TROWELED TO LEVEL SMOOTH FINISH.
4. REFER TO MANUFACTURER'S DRAWINGS FOR GENERATOR ANCHOR REQUIREMENTS AND LOCATIONS.
5. COORDINATE REQUIRED PENETRATIONS WITH ELECTRIC AND PLUMBING CONTRACTOR.

GENERATOR PAD WITH CONTROL DENSITY BACKFILL DETAIL

SCALE: NONE



SECTION A



PLAN

NOTES:

1. LENGTH AND WIDTH OF GENERATOR PAD TO BE COORDINATED WITH GENERATOR SUPPLIER.
2. CONCRETE TO BE 3500 PSI WITH A MAX 4" SLUMP.
3. TOP SURFACE OF PAD TO BE STEEL TROWELED TO LEVEL SMOOTH FINISH.
4. REFER TO MANUFACTURERS DRAWINGS FOR GENERATOR ANCHOR REQUIREMENTS AND LOCATIONS.

GENERATOR PAD DETAIL

SCALE: NONE

PREPARED BY

BETA
www.BETA-Inc.com

REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
JOSEPH FEDERICO, JR.
No. 30803
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

CIVIL DETAILS IV

NO.	REVISIONS	DATE
1	ADDENDUM #1	6/17/22

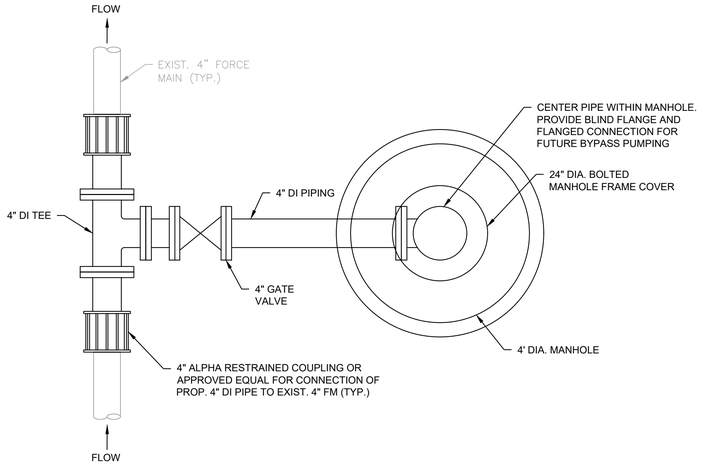
DRAWN BY: PN
DESIGNED BY: AG
CHECKED BY: CC
ISSUE DATE: JULY 2023
BETA JOB NO.:

SCALE

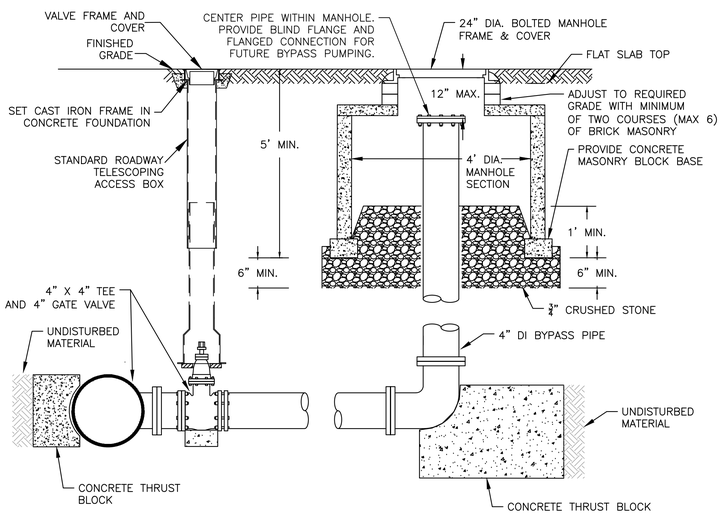
NONE

SHEET NO.

CD-4



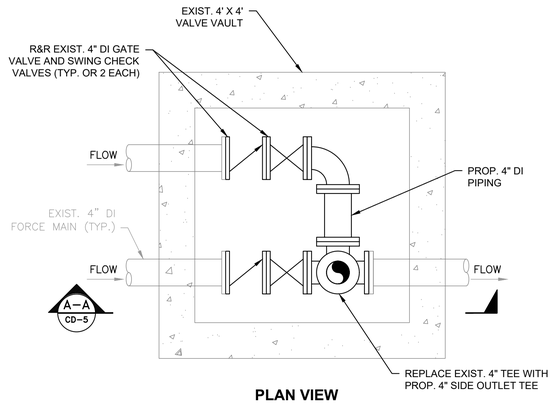
PLAN VIEW
NOT TO SCALE



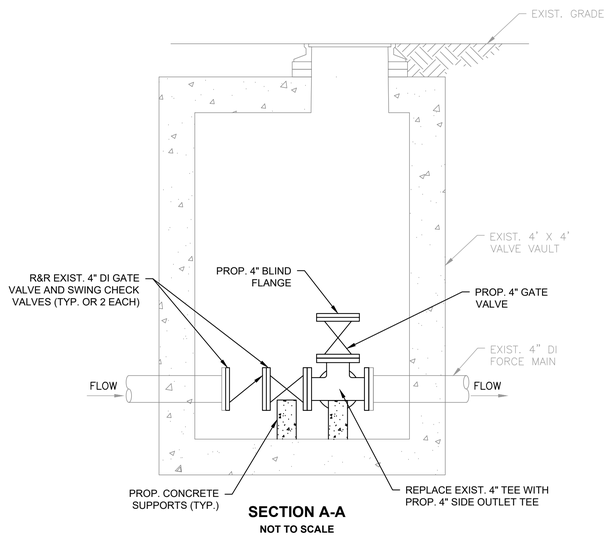
SECTION A-A
NOT TO SCALE

NOTES:
1. THE CITY OF TAUNTON MAINTAINS AND OPERATES ALL VALVES, PIPING, AND APPURTENANCES UNLESS OTHERWISE NOTED.
2. DISCHARGE BYPASS CONNECTION WILL BE A 4"X4" TEE AND A 4" GATE VALVE. THE 4"X4" TEE WILL CONNECT TO THE EXISTING 4" DISCHARGE USING 4" DI PIPING AND A 4" ALPHA RESTRAINED COUPLING, OR APPROVED EQUAL, ON BOTH SIDES OF THE PROPOSED 4"X4" TEE .
3. THRUST BLOCKS SHALL BE 4000 PSI CONCRETE BETWEEN THE PIPE AND UNDISTURBED MATERIAL IN ACCORDANCE WITH DUCTILE IRON PIPE RESEARCH ASSOCIATION THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE.
4. POLYPROPYLENE SHEETING SHALL BE PLACED AROUND FITTINGS PRIOR TO POURING CONCRETE IN ACCORDANCE WITH AWWA C105.

DISCHARGE BYPASS CONNECTION (WELLESLEY CIRCLE PS)
SCALE: NONE

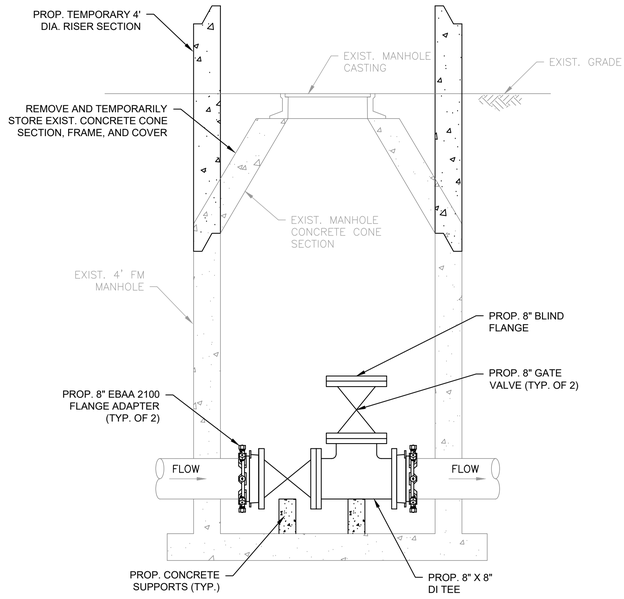


PLAN VIEW
NOT TO SCALE



SECTION A-A
NOT TO SCALE

DISCHARGE BYPASS CONNECTION (DAVIS STREET PS)
SCALE: NONE



NOTES:
1. THE EXISTING MANHOLE CONCRETE CONE SECTION, FRAME, AND COVER ARE TO BE REMOVED AND TEMPORARILY STORED FOR INSTALLATION OF THE PROPOSED FITTINGS, VALVES, APPURTENANCES, AND TEMPORARY BYPASS. CONTRACTOR SHALL COORDINATE TEMPORARY STORAGE OF THE EXISTING MANHOLE COMPONENTS WITH THE OWNER AND ENGINEER.
2. THE EXISTING MANHOLE CONCRETE CONE SECTION, FRAME, AND COVER ARE TO BE REINSTALLED ON THE EXISTING FORCE MAIN MANHOLE AFTER THE TEMPORARY BYPASS HAS BEEN FULLY DECONSTRUCTED.

DISCHARGE BYPASS CONNECTION (MYLES STANDISH PS)
SCALE: NONE

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

CIVIL DETAILS V

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
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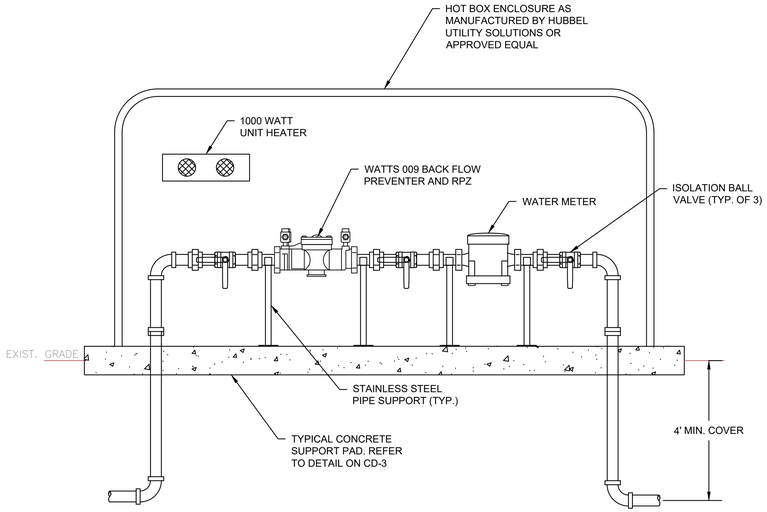
BETA JOB NO.:	10685

SCALE

NONE

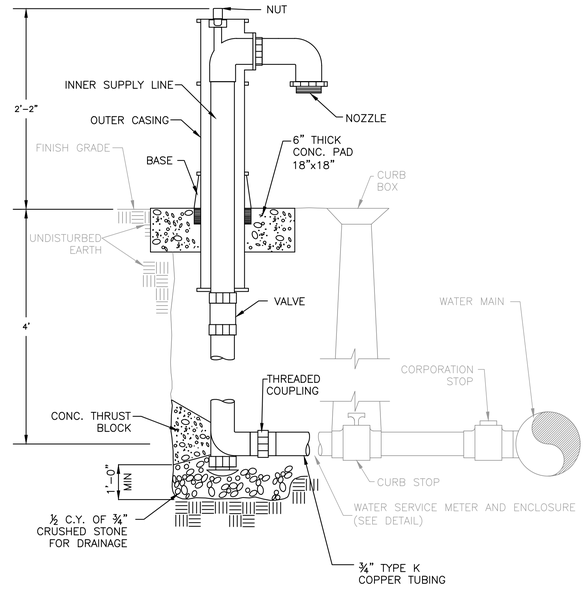
SHEET NO.

CD-5



NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, COORDINATION, AND APPROVALS IN ACCORDANCE WITH THE LOCAL AND STATE REQUIREMENTS.
2. ALL COMPONENTS IN CONTACT WITH WATER SHALL BE NSF 61 COMPLIANT.

WATER SERVICE ENCLOSURE
SCALE: NONE



YARD HYDRANT
SCALE: NONE

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

CIVIL DETAILS VI

NO.	REVISIONS	DATE

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BETA JOB NO.:	10685

SCALE

NONE

SHEET NO.

CD-6

NOTES

1. ALL WARNING SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND. ALL REGULATORY SIGNS SHALL HAVE A BLACK LEGEND AND BORDER ON A WHITE BACKGROUND. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL TRAFFIC CONTROL DEVICES SHOWN ON THE PLAN VIEW SHALL BE IN PLACE PRIOR TO WORK COMMENCING.
3. ALL EXISTING PERMANENT APPROACH SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SETUP SHALL BE APPROPRIATELY COVERED OR REMOVED UNTIL ALL WORK IS COMPLETED AND ALL TEMPORARY CONSTRUCTION SIGNS HAVE BEEN REMOVED.
4. EXACT LOCATION OF SIGNS SHOWN SHALL BE APPROVED BY THE ENGINEER.
5. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ABUTTING PROPERTIES WITHIN THE WORK ZONE, AS NECESSARY
6. ALL TRAVEL LANES SHALL BE OPEN TO TRAFFIC AT THE COMPLETION OF THE WORK DAY.
7. ALL SIGNS SHALL BE SELF–STANDING AND SHALL NOT BE TIED TO AN EXISTING STRUCTURE (SIGN, UTILITY POLE. ETC.)
8. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SEQUENCING WORK ZONES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. WORK ZONE PHASE SEQUENCES ARE SUGGESTED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL POLICE DETAILS.

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

	Arrow board		Shadow vehicle
	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or support trailer		Surveyor
	Channelizing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour		Traffic or pedestrian signal
	Direction of traffic		Truck-mounted attenuator
	Flagger		Type 3 barricade
	High-level warning device (Flag tree)		Warning light
	Longitudinal channelizing device		Work space
	Luminaire		Work vehicle
	Pavement markings that should be removed for a long-term project		

Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet
W = width of offset in feet
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

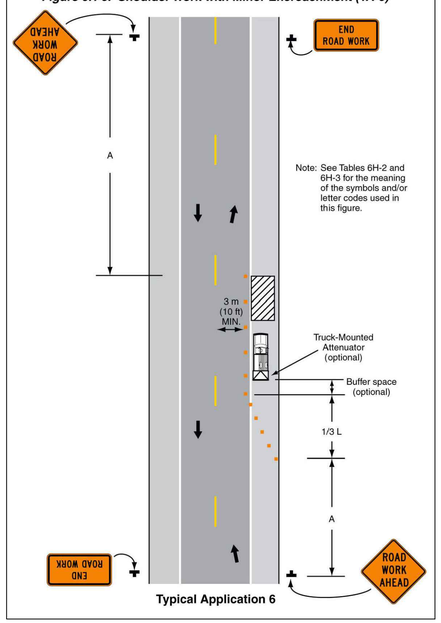
Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

* Speed category to be determined by highway agency

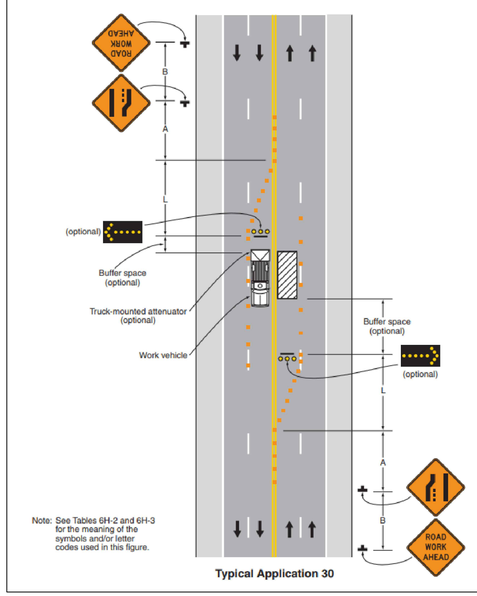
** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

Figure 6H-6. Shoulder Work with Minor Encroachment (TA-6)



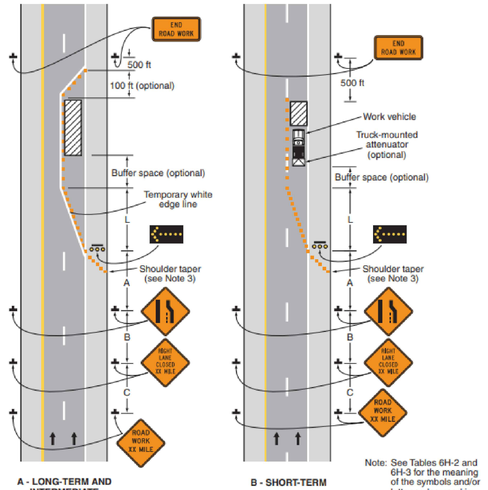
Typical Application 6

Figure 6H-30. Interior Lane Closure on a Multi-Lane Street (TA-30)



Typical Application 30

Figure 6H-33. Stationary Lane Closure on a Divided Highway (TA-33)



Typical Application 33

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

TRAFFIC MANAGEMENT PLAN -1

NO.	REVISIONS	DATE

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DESIGNED BY: AG
CHECKED BY: CC
ISSUE DATE: JULY 2023
BETA JOB NO.: 10685

SCALE

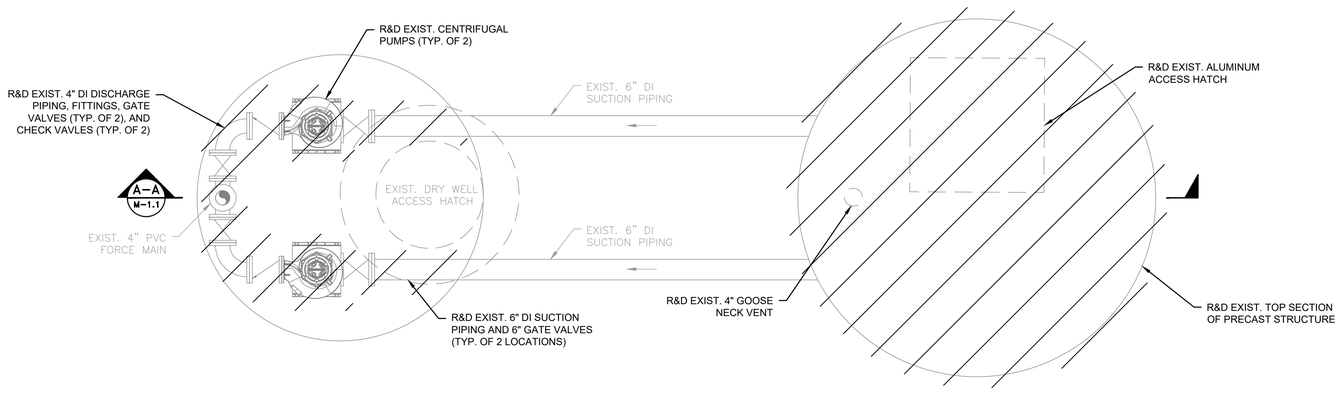
NONE

SHEET NO.

TMP-1

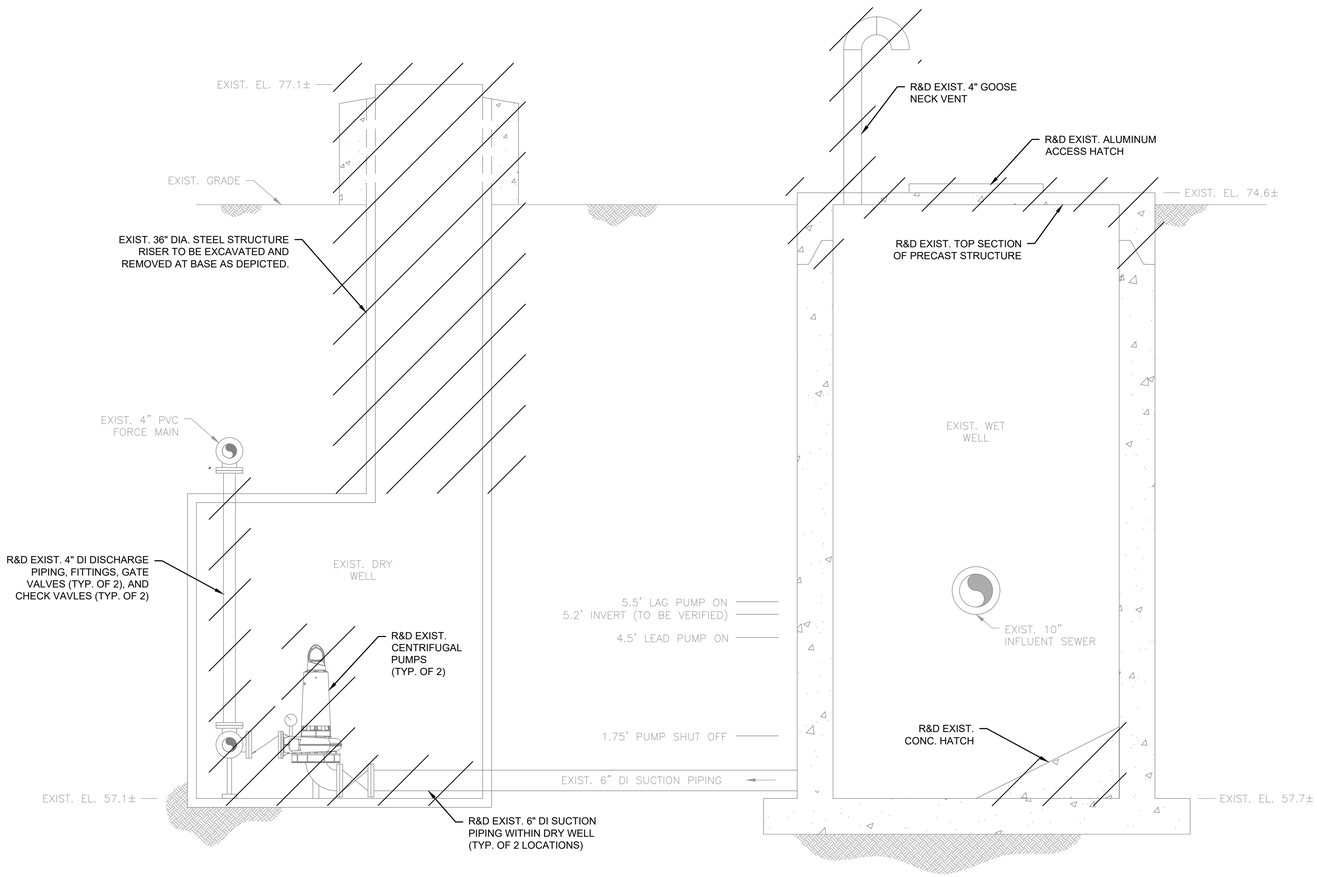
DEMOLITION NOTES:

1. PLANS AND SECTION OF THE EXISTING PUMPING STATION ARE BASED ON FIELD OBSERVATIONS, AND VERIFIED WHERE POSSIBLE. DIMENSIONS OF THE STRUCTURE ARE APPROXIMATE, AND THE LOCATION OF MAJOR EQUIPMENT, MISCELLANEOUS EQUIPMENT, PIPING AND MATERIALS ARE NOT NECESSARILY SHOWN BUT ARE INCLUDED IN THE DEMOLITION. THE CONTRACTOR SHALL INSPECT THE EXISTING PUMPING STATION AND UNDERGROUND ELECTRICAL STRUCTURE DURING THE BIDDING PHASE OF THE PROJECT TO FAMILIARIZE THEMSELVES WITH THE EXTENT OF THE DEMOLITION WORK. COORDINATE INSPECTION WITH THE CITY OF TAUNTON.
2. DEMOLITION OF EXISTING PUMPING STATION AND ALL RELATED EQUIPMENT AND STRUCTURES SHALL BE DONE ACCORDING TO THE SEQUENCE OF OPERATIONS PLAN SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
3. CONTRACTOR TO CONDUCT SURVEY OF EXISTING CONDITIONS TO IDENTIFY ITEMS THAT MAY REQUIRE SPECIAL HANDLING AND DISPOSAL INCLUDING HAZARDOUS WASTE. CONTRACTOR TO ABATE THESE ITEMS PRIOR TO DEMOLITION ACTIVITIES.
4. PLUG AND CAP ALL HOLES RESULTING FROM PIPE REMOVAL.
5. REMOVE AND DISPOSE OF THE EXISTING DRY WELL STRUCTURE AND FILL THE CAVITY WITH FLOWABLE FILL TO THE LIMITS DEPICTED ON THE PROPOSED PLANS.
6. MATERIALS TO BE REMOVED THAT ARE NOT DESIGNATED TO BE SALVAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED OFF SITE AND DISPOSED OF AT CONTRACTOR'S EXPENSE.
7. CONTRACTOR IS RESPONSIBLE FOR THE LEGAL AND PROPER DISPOSAL OF ALL DEMOLITION MATERIAL ACCORDING TO ANY RELEVANT LAWS OF THE STATE OF MASSACHUSETTS.
8. ALL SEWAGE AND SLUDGE THAT MIGHT BE PRESENT IN THE EXISTING PIPING AND PUMPING EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED AND DISPOSED OF ACCORDING TO ANY RELEVANT LAWS OF THE STATE OF MASSACHUSETTS. ALL DEMOLITION MATERIAL INCLUDING CONCRETE, PIPE, AND BRICK THAT WAS IN CONTACT WITH SEWAGE SHALL BE CLEANED IN ACCORDANCE WITH MASSDEP REQUIREMENTS AND DISPOSED OF ACCORDINGLY.



DRY WELL AND WET WELL DEMOLITION PLAN

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



DEMOLITION SECTION A-A

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

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

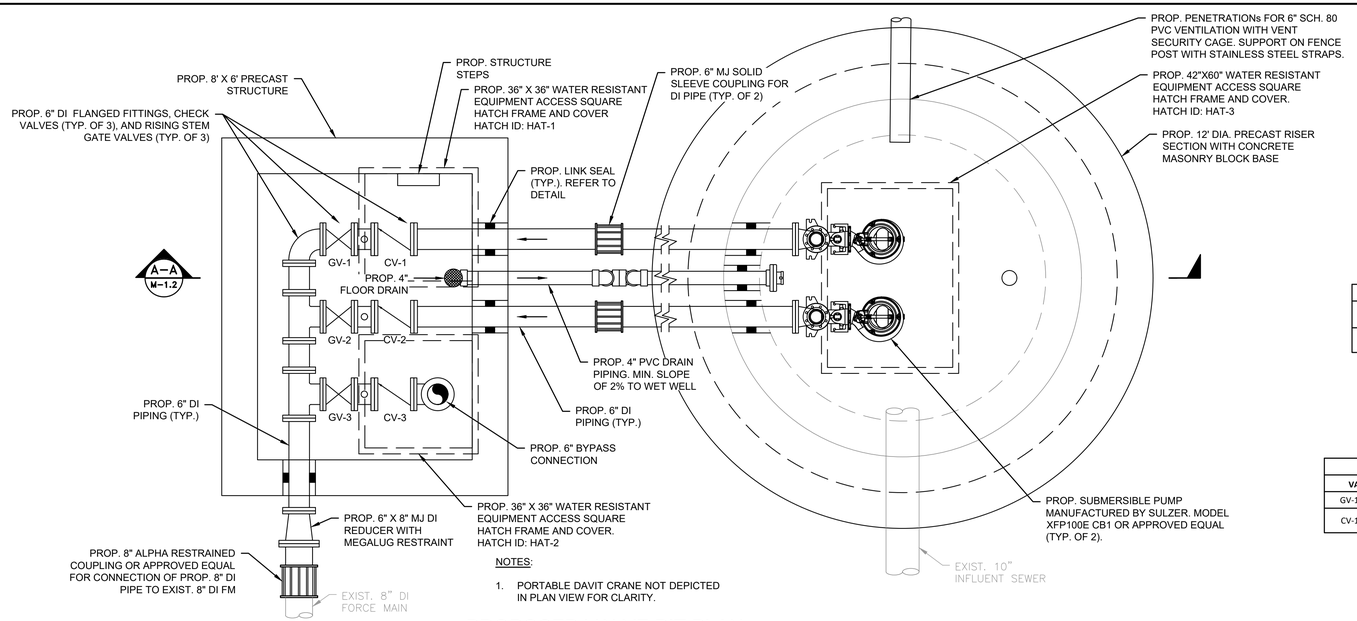
DRAWN BY:	PN
DESIGNED BY:	AG
CHECKED BY:	CC
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

SCALE

AS SHOWN

SHEET NO.

M-1.1



NOTES:

1. PORTABLE DAVIT CRANE NOT DEPICTED IN PLAN VIEW FOR CLARITY.

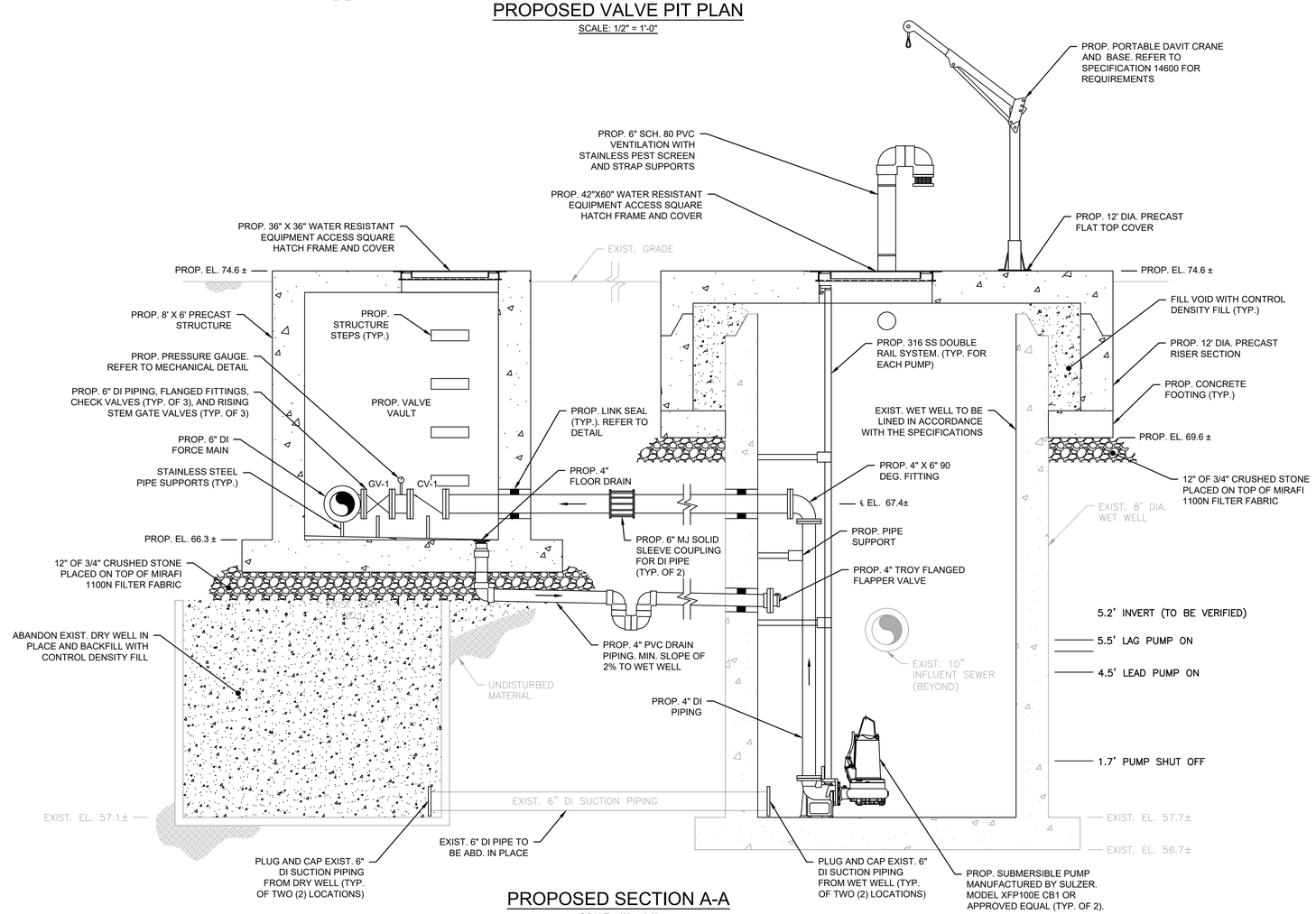
PROPOSED VALVE PIT PLAN

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

MYLES STANDISH PUMP STANDISH - HATCH SCHEDULE (THIS SHEET)				
HATCH ID	NO. REQUIRED	HATCH TYPE	SIZE	MATERIAL
HAT-1 TO HAT-2	2	ACCESS W/ FALL PROTECTION	36" X 36"	ALUMINUM
HAT-3	1	ACCESS W/ FALL PROTECTION	42" X 60"	ALUMINUM

MYLES STANDISH PUMP STATION - PUMP SCHEDULE (THIS SHEET)				
TYPE	RATING POINTS	DISCHARGE (INCHES)	MAX PUMP RPM	MAX HP
SUBMERSIBLE PUMP	525 GPM 42 FT. TDH	4	1771	12.1

MYLES STANDISH PUMP STANDISH - VALVE SCHEDULE (THIS SHEET)						
VALVE ID	NO. REQUIRED	VALVE TYPE	SIZE (INCH)	MATERIAL	ACTUATOR	CONNECTION
GV-1 TO GV-3	3	GATE VALVE	6	DUCTILE IRON	MANUAL	FL X FL
CV-1 TO CV-3	3	CHECK VALVE	6	DUCTILE IRON	WEIGHTED LEVER	FL X FL



PROPOSED SECTION A-A

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

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Proposed Improvements

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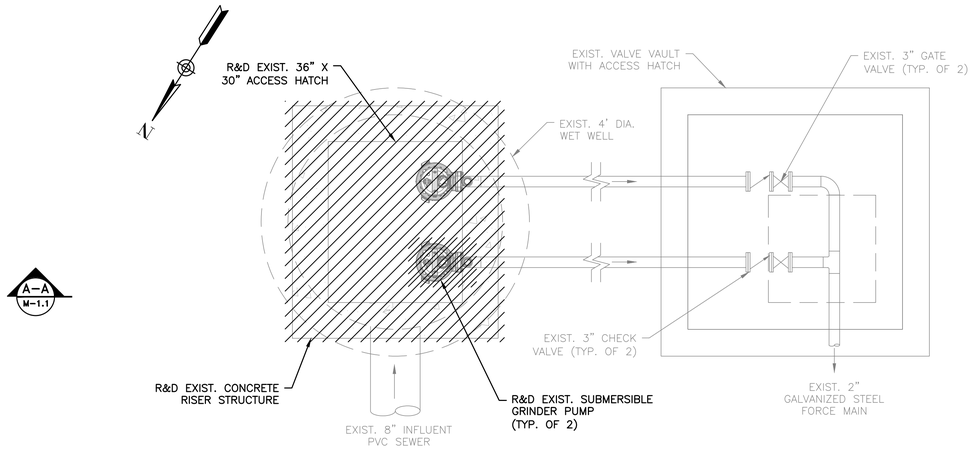
AS SHOWN

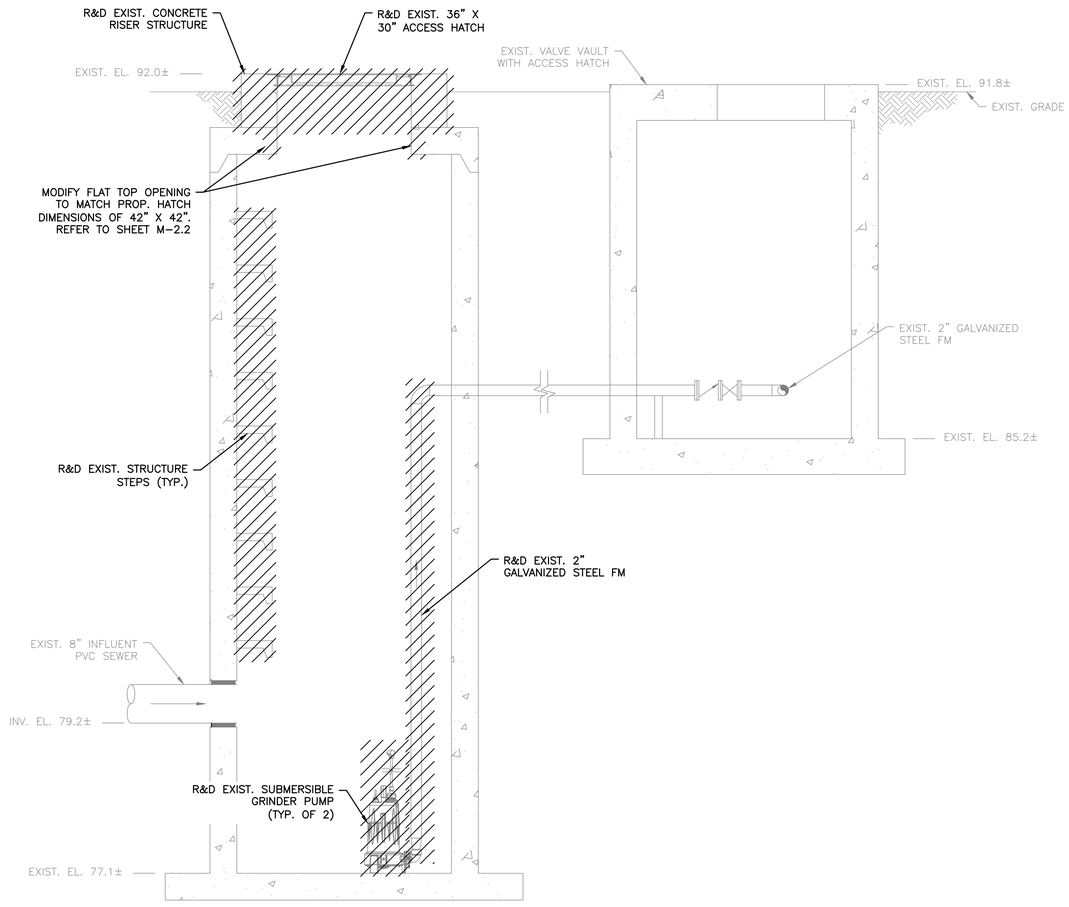
SHEET NO.

M-1.2



EXISTING PARTRIDGE CIRCLE PUMP STATION PLAN

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



EXISTING PARTRIDGE CIRCLE PUMP STATION SECTION

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

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2023 Pump Station Improvements

Taunton, MA

TITLE

PARTRIDGE CIRCLE PUMP STATION

Existing Conditions

NO.	REVISIONS	DATE

DRAWN BY:	PN
DESIGNED BY:	AG
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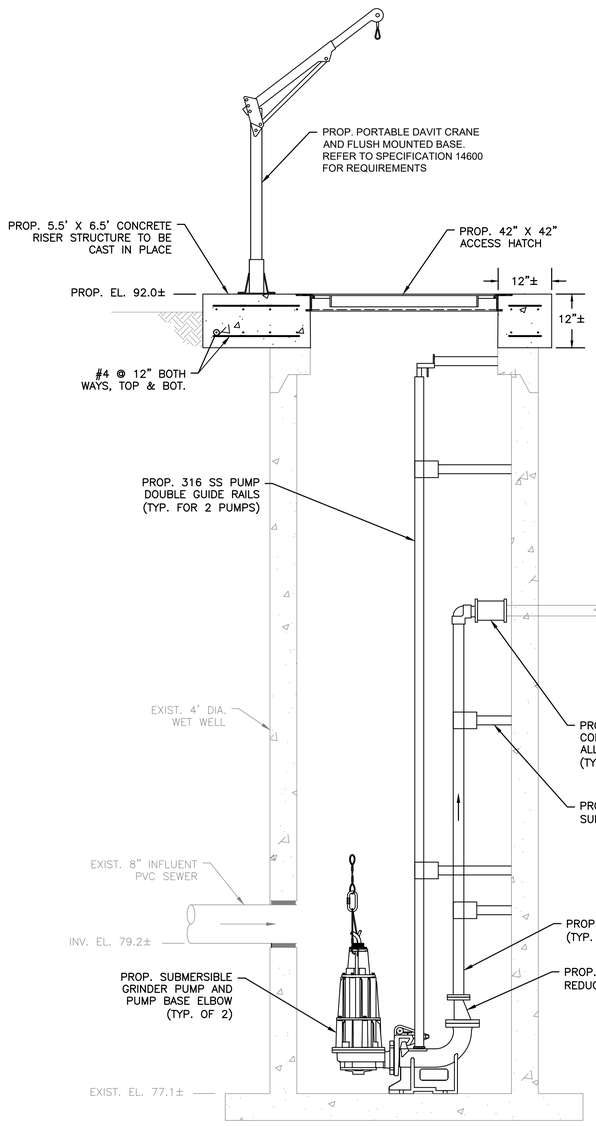
ISSUE DATE:	JULY 2023
BETA JOB NO.:	10685

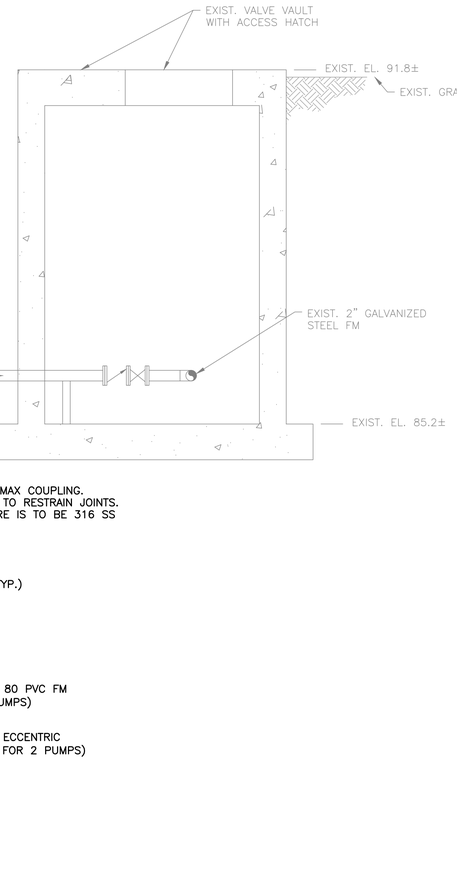
SCALE

AS SHOWN

SHEET NO.

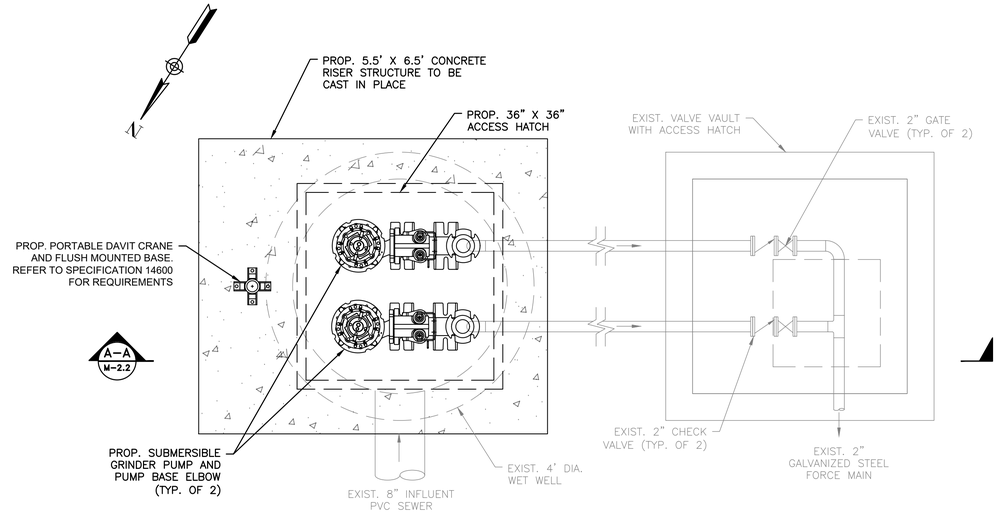
M-2.1





PROPOSED PARTRIDGE CIRCLE PUMP STATION SECTION

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



PROPOSED PARTRIDGE CIRCLE PUMP STATION PLAN

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

PARTRIDGE CIRCLE PUMP STATION - PUMP SCHEDULE (THIS SHEET)

TYPE	RATING POINTS	DISCHARGE (INCHES)	MAX PUMP RPM	MAX HP
SUBMERSIBLE GRINDER PUMP	47 GPM 52 FT. TDH	3	3600	5.0

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2023 Pump Station Improvements

Taunton, MA

TITLE

PARTRIDGE CIRCLE PUMP STATION

Proposed Improvements

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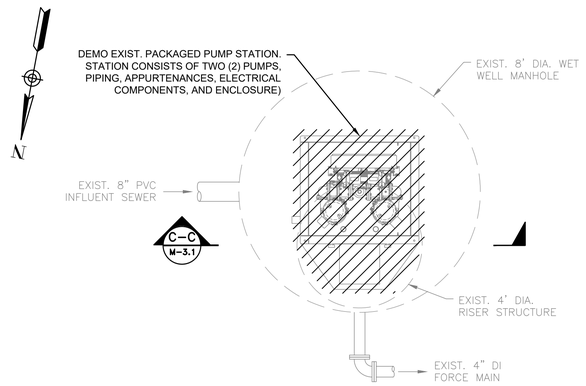
SCALE

AS SHOWN

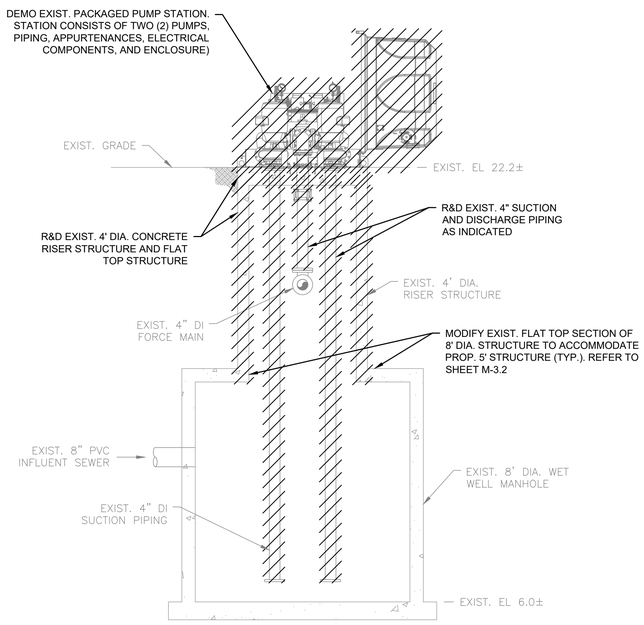
SHEET NO.

M-2.2



WELLESLEY CIRCLE PUMP STATION
DEMOLITION PLAN

SCALE: 3/8" = 1"



WELLESLEY CIRCLE PUMP STATION
DEMOLITION SECTION C-C

SCALE: 3/8" = 1"

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2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE PUMP STATION

Existing Conditions

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ISSUE DATE:	JULY 2023
BETA JOB NO.:	####

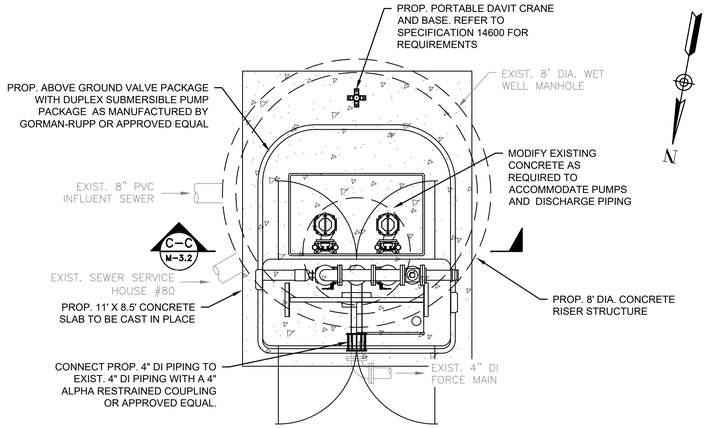
SCALE

AS SHOWN

SHEET NO.

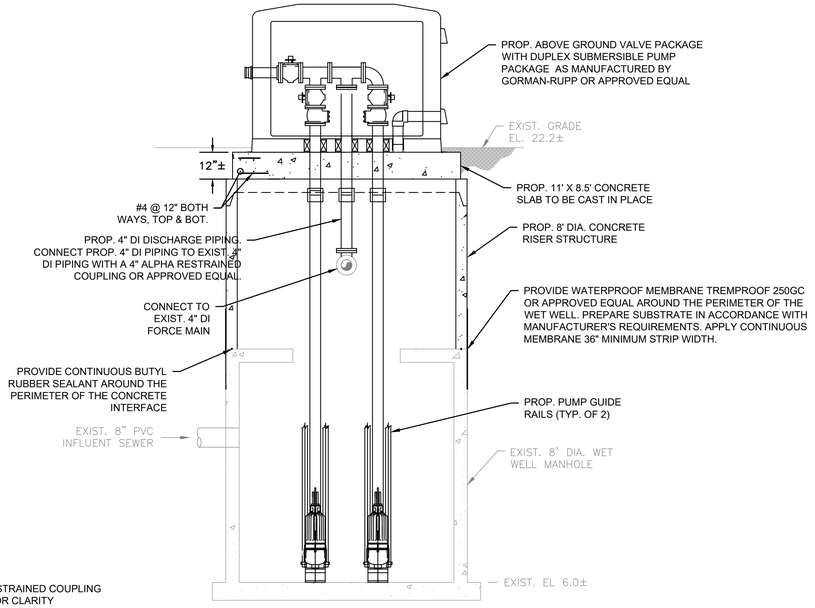
M-3.1

WELLESLEY CIRCLE PUMP STATION - PUMP SCHEDULE (THIS SHEET)				
TYPE	RATING POINTS	DISCHARGE (INCHES)	MAX PUMP RPM	MAX HP
SUBMERSIBLE PUMP	125 GPM 19 FT. TDH	3	1750	3.0



WELLESLEY CIRCLE PUMP STATION
DEMOLITION PLAN

SCALE: 3/8" = 1"



NOTE:

1. PROPOSED 4" RESTRAINED COUPLING NOT DEPICTED FOR CLARITY

WELLESLEY CIRCLE PUMP STATION
DEMOLITION SECTION C-C

SCALE: 3/8" = 1"

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REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE PUMP STATION

Proposed Improvements

NO.	REVISIONS	DATE

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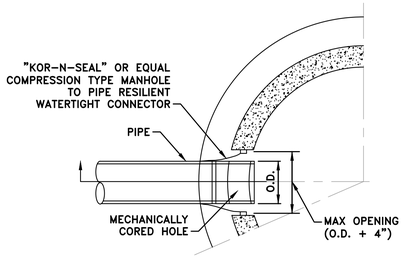
BETA JOB NO.:	####

SCALE

AS SHOWN

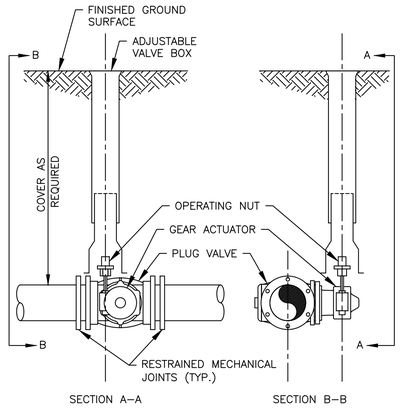
SHEET NO.

M-3.2



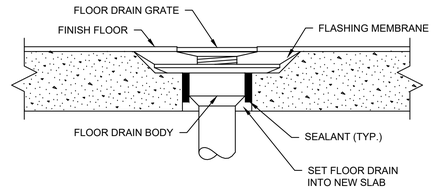
CORED HOLE AND RESILIENT SEAL FOR CONNECTING PIPES TO EXISTING MANHOLES

NOT TO SCALE



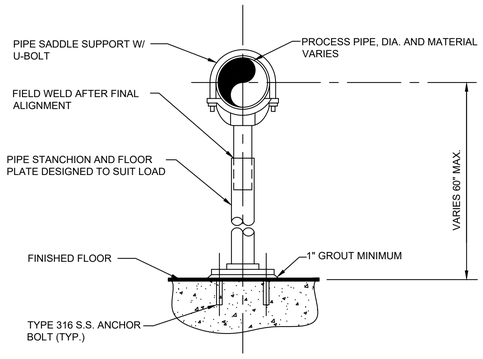
TYPICAL BURIED PLUG VALVE

NOT TO SCALE



FLOOR DRAIN INSTALLATION (NEW SLAB)

NOT TO SCALE



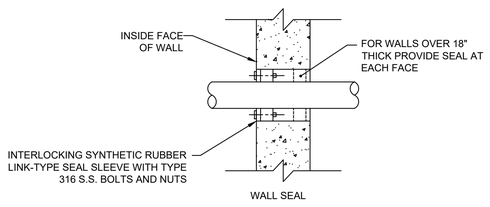
NOTES: 1. PROVIDE HALF-ROUND RIGID INSULATION WAND INSULATION SHIELD FOR INSULATED PIPING.

2. PROVIDE NEOPRENE ISOLATION PAD UNDER SUPPORT FOOT FOR ISOLATED PIPING OR WHEN SUPPORT IS ADJACENT TO MECHANICAL EQUIPMENT.

GRINNELL FIGURE 259 OR EQUAL

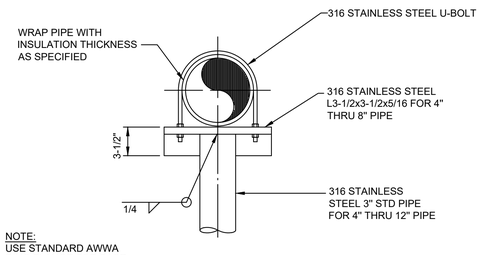
FLOOR PIPE SUPPORT

NOT TO SCALE



PENETRATION FOR CORED HOLES IN EXISTING WALLS OR FLOOR PENETRATIONS IN DRY AREAS

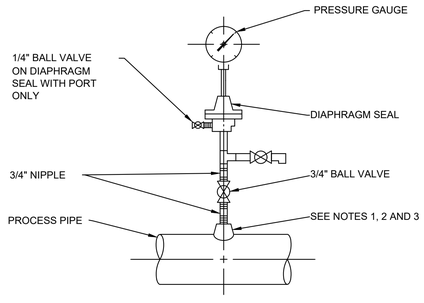
NOT TO SCALE



NOTE:
USE STANDARD AWWA RING FLANGE FOR BASE.

PIPE SUPPORT

NOT TO SCALE



DIAPHRAGM PRESSURE GAUGE

NOTES:

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

PRESSURE GAUGE MOUNTING DETAILS

NOT TO SCALE

PREPARED BY

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SUBCONSULTANT

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MECHANICAL DETAILS I

NO.	REVISIONS	DATE
1	ADDENDUM #1	6/17/22

DRAWN BY: PN

DESIGNED BY: CC

CHECKED BY: CC

ISSUE DATE: JULY 2023

BETA JOB NO.:

SCALE

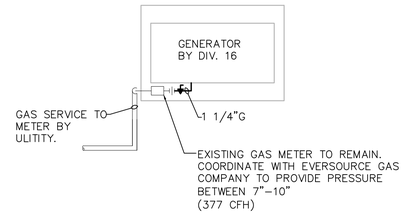
NONE

SHEET NO.

MD-1

PLUMBING NOTES:

1. 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.
2. 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.
3. ANY AND ALL PERMITS REQUIRED FOR INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK IF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURED.
4. MISCELLANEOUS DISCREPANCIES OR OMMISSIONS WHICH MIGHT APPEAR ON THE PLANS OR SPECIFICATIONS WILL NOT RELIEVE THE PLUMBING SUB-CONTRACTOR OF CODE COMPLIANCE.
5. GAS FIRED EQUIPMENT - PROVIDE FULL SIZE SOV AND DRIP LEG IN ACCESSIBLE LOCATION. MAKE FINAL CONNECTION TO EQUIPMENT WITH NECESSARY REDUCER AND UNION CONNECTION. PC TO COORDINATE EXACT CONNECTION SIZE, LOAD, LOCATION, AND EQUIPMENT ACCESS NEEDS PRIOR TO GAS INSTALLATION.

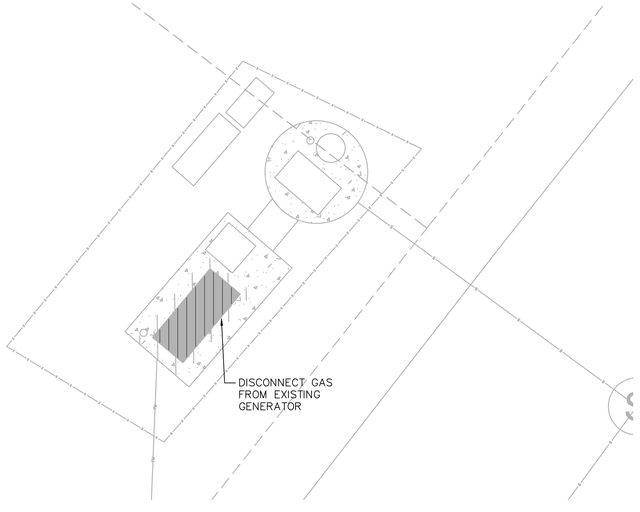


GENERATOR CONNECTION DETAIL

NO SCALE

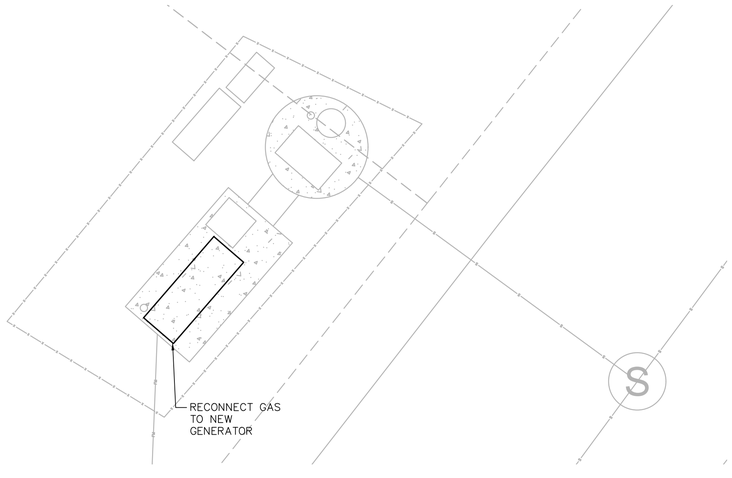
PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
G	G	GAS (NATURAL)
	UP	UP (PENETRATES LEVEL ABOVE)
		RISE (BUT DOES NOT PENETRATE LEVEL ABOVE)
	DN	DOWN (PENETRATES LEVEL BELOW)
	DP	DROP (BUT DOES NOT PENETRATE LEVEL BELOW)
		DIRECTION OF FLOW
		GAS SHUTOFF VALVE
	PG	PRESSURE GAUGE
	NIPC	NOT IN PLUMBING CONTRACT
	PC	PLUMBING CONTRACTOR
	NO	NORMALLY OPEN
	NC	NORMALLY CLOSED
	INV	INVERT ELEVATION
	CFH	CUBIC FEET PER HOUR
	FFE	FINISHED FLOOR ELEVATION
	LPC	LIMIT PLUMBING CONTRACT
	TDL	TOTAL DEVELOPED LENGTH



SCHOOL STREET PUMP STATION DEMOLITION PLAN

SCALE: 1" = 5'-0"



SCHOOL STREET PUMP STATION NEW WORK PLAN

SCALE: 1" = 5'-0"

PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

SCHOOL STREET PUMP STATION

Plumbing Plan

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

SCALE

AS SHOWN

Issued For Bid

SHEET NO.

P-4.0

ELECTRICAL SYMBOLS

F1 / 1 a	LINEAR LIGHTING FIXTURES "F1" INDICATES FIXTURE TYPE – TYPICAL FOR ALL FIXTURES "1" INDICATES CIRCUIT NUMBER – TYPICAL FOR ALL FIXTURE "a" INDICATES THE SWITCH CONTROL – TYPICAL FOR ALL FIXTURES
	WALL MOUNTED LIGHTING FIXTURE.
	POLE MOUNTED SITE LIGHT FIXTURE
	SURFACE OR PENDANT MOUNTED FIXTURE.
	EMERGENCY EXIT SIGN
	EMERGENCY LIGHTING BATTERY UNIT WITH TWO LIGHT HEADS
	REMOTE EMERGENCY LIGHTING UNIT WITH TWO LIGHTING HEADS PROVIDE 3/4", 2#10, 1#10GND TO NEAREST THE EMEGENCY LIGHTING BATTERY UNIT
S_a	SINGLE POLE SWITCH 120V, 20A "a" INDICATES THE SWITCH CONTROL
S_2	2–POLE SWITCH 120V, 20A 1 POLE FOR ROOM LIGHT FIXTURES, 1–POLE FOR EXHAUST FAN CONTROL
S_{3a}	3–WAY SWITCH 120V, 20A "a" INDICATES THE SWITCH CONTROL
S_{4a}	4–WAY SWITCH 120V, 20A "a" INDICATES THE SWITCH CONTROL
TC	DIGITAL TIME CLOCK SWITCH
TM	MECHANICAL TIMER SWITCH
OC	WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR/SWITCH
S	LOW VOLTAGE SWITCH
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
GFI 1	DUPLEX RECEPTACLE, WEATHER–RESISTANT 120V, 20A WITH WEATHERPROOF COVER, "GFI" INDICATES GROUND FAULT TYPE "1" INDICATES CIRCUIT NUMBER – TYPICAL FOR ALL RECEPTACLES
	DUPLEX RECEPTACLE 120V, 20A
WP	(2) DUPLEX (QUAD) RECEPTACLES, 120V, 20A "WP" INDICATES WITH WEATHERPROOF COVER
WP	SIMPLEX RECEPTACLE, WP INDICATES WEATHER RESISTANT 120V, 20A "WP" INDICATES WITH WEATHERPROOF COVER
30	UNFUSED DISCONNECT SWITCH, "30" INDICATES 30 AMP RATING, PROVIDE 3–POLE UNLESS OTHERWISE INDICATED.
F 20	FUSED DISCONNECT SWITCH, "20" INDICATES 20 AMP FUSE RATING, PROVIDE 3–POLE UNLESS OTHERWISE INDICATED.
	3–PHASE RECEPTACLE
MCP FVNR SX	WALL MOUNTED COMBINATION MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR, "FVNR" INDICATES TYPE OF MOTOR STARTER, "SX INDICATES THE MOTOR STARTER NEMA SIZE"
MCP FVNR SX	MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR, "FVNR" INDICATES TYPE OF MOTOR STARTER, "SX INDICATES THE MOTOR STARER NEMA SIZE"
VFD	ENCLOSED VARIABLE FREQUENCY DRIVE
Sm	MANUAL MOTOR STARTER 120V, 20A
J	JUNCTION BOX OR PULL BOX
HH	ELECTRIC HAND HOLE
AR1	ALARM RELAY, "AR1" REFERS TO RELAY NAME DESIGNATION
CR1	CONTROL RELAY, "CR1" REFERS TO RELAY NAME DESIGNATION
M	MOTOR START RELAY
TR1	TIMING RELAY, "TR1" REFERS TO RELAY NAME DESIGNATION
	NORMALY OPEN RELAY CONTACT
	NORMALLY CLOSED RELAY CONTACT
	OPERATOR PUSH BUTTON NORMALLY OPEN CONTACT
	OPERATOR PUSH BUTTON NORMALLY CLOSED CONTACT
	PRESSURE SWITCH – CLOSES ON HIGH PRESSURE
	PRESSURE SWITCH – CLOSES ON LOW PRESSURE

ELECTRICAL SYMBOLS

	UNDERGROUND CONDUIT DUCT BANK
PP1(1)	HOMERUN DESIGNATION TO PANEL PP1 CIRCUIT #1, WITH THE FOLOWING CONDUIT/WIRES UNLESS OTHERWISE NOTED: • 3/4"C WITH 2#12, 1#12GND FOR 20AMP SINGLE PHASE CIRCUITS. • 3/4"C WITH 3#12, 1#12GND FOR 20AMP THREE PHASE CIRCUITS. • 3/4"C WITH 2#10, 1#10GND FOR 30AMP SINGLE PHASE CIRCUITS. • 3/4"C WITH 3#10, 1#10GND FOR 30AMP THREE PHASE CIRCUITS. • 3/4"C WITH 2#8, 1#10GND FOR 40AMP & 50AMP SINGLE PHASE CIRCUITS. • 3/4"C WITH 3#8, 1#10GND FOR 40AMP & 50AMP THREE PHASE CIRCUITS.
EX	EYS TYPE CONDUIT SEAL, "EX" REPRESENTS PROVIDING UL LISTED EXPLOSION PROOF SEALANT IN CONDUIT SEAL, "NEX" REPRENTS PROVIDE ELECTRICAL SEALANT PUTTY IN CONDUIT SEAL.
SPD	SURGE PROTECTION DEVICE
GFM	GROUND FAULT MONITOR AND INDICATION LIGHT
	UTILITY POLE
20 100 LSIG	MOLDED CASE CIRCUIT BREAKER, UNO 3–POLE FOR 3–PHASE AND 2–POLE FOR SINGLE PHASE, "20" INDICATES TRIP AMPERE RATING, "100" INDCATES FRAME SIZE, "LSIG" LONG, SHORT, INSTANTANEOUS AND GROUND FAULT PROTECTION RESPECTIVELY
	DRY TYPE TRANSFORMER
	3/4"ø X 10'–0" COPPER CLAD GROUND ROD
	ELECTRICAL ENCLOSURE/MAIN SERVICE GROUNDING SYSTEM OR GROUND ROD
10	MOTOR, "10" INDICATES HORSEPOWER RATING
XX T	CABLE/CONDUIT DESIGNATION, "XX" REFERS CABLE CONDUIT REFERENCE, REFER TO CABLE/CONDUIT AND DUCT/CABLE SCHEDULES. "T" REFERS TO TEMPORARY WIRING
XX–XXXX	UNLESS OTHERWISE NOTED INSTRUMENATION OR PROCESS EQUIPMENT (SUPPLIED BY OTHER DIVISIONS) "XX–XXXX" REFERS TO TAGNAME ID
ISBP	INTRINSICALLY SAFE BARRIER PANEL (SUPPLIED BY DIV. 13)
E	GENERATOR EMERGENCY STOP
DS	MAGNETIC DOOR SWITCH
A	GAS DETECTION SYSTEM – AMBER ALARM BEACON (SUPPLIED BY DIV. 17)
H	GAS DETECTION SYSTEM – ALARM HORN (SUPPLIED BY DIV.17)
O	OCCUPIED/UNOCCUPIED SELECTOR SWITCH. (SUPPLIED BY DIV. 16)
T	THERMOSTAT (SUPPLIED BY DIV. 15)
M	MOTOR OPERATED DAMPER (SUPPLIED BY DIV. 15)
F XKW	ELECTRIC UNIT HEATER, "X" INDICATES UNIT ELECTRIC COIL RATING (SUPPLIED BY DIV. 15)
CUH 1 P11–LP (21)	EQUIPMENT CIRCUIT NUMBER DESIGNATION TO PANEL PP1–LP CIRCUIT #21,

GENERAL NOTES

1. PROVIDE CONCRETE HOUSEKEEPING PADS ON ALL FLOOR OR GRADE MOUNTED ELECTRICAL EQUIPMENT, THE FOLLOWING EQUIPMENT IS THE MINIMUM REQUIREMENT FOR HOUSEKEEPING PADS. ADDITIONAL PADS MAYBE REQUIRED BASED ON THE MOUNTING METHODS.
   1.1. GENERATOR
   1.2. JUNCTION BOXES AT WET WELLS
2. ALL CONDUIT AND EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES.
3. BONDING JUMPERS, CONDUIT CLAMPS AND POINTS OF ATTACHMENT ARE NOT SHOWN ON DRAWINGS. SIZE BONDING JUMPERS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE. THE POINTS OF ATTACHMENT OF THE GROUND CLAMPS SHALL BE ACCESSIBLE LOCATIONS.
4. EQUIPMENT & CONDUIT INSTALLATIONS ARE SHOWN DIAGRAMMATICALLY ONLY AND SHALL BE INSTALLED IN A MANNER TO PREVENT CONFLICTS WITH EQUIPMENT AND STRUCTURAL CONDITIONS. EXPOSED CONDUITS SHALL BE INSTALLED PARALLEL TO BEAMS AND WALLS.
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 UNLESS OTHERWISE NOTED.
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 BASED UPON SELECTED STANDARD COMPONENTS OF ELECTRICAL AND PROCESS EQUIPMENT. MODIFICATIONS ACCEPTABLE TO THE ENGINEER MAY BE MADE BY THE CONTRACTOR TO ACCOMMODATE EQUIPMENT ACTUALLY PURCHASED. THE BASIC SEQUENCE AND METHOD OF CONTROL MUST BE MAINTAINED AS INDICATED ON THE DRAWINGS AND/OR SPECIFICATIONS.

DEMOLITION NOTES

1. UNLESS OTHERWISE NOTED AS SALVAGE, ALL EXISTING ELECTRICAL SYSTEMS WITHIN HATCH MARKS (POWER, LIGHTING, LOW VOLTAGE, CONTROLS, ETC) AND ASSOCIATED EQUIPMENT IS TO BE DEMOLISHED. DISCONNECT AND DE–ENERGIZE THE EQUIPMENT. REMOVE THE EQUIPMENT TO BE DEMOLISHED OR SALVAGED PER SECTION 02050. ALL CONTROL DEVICES, CONDUIT, CABLING, BOXES, SUPPORTS, ETC, ASSOCIATED WITH THE DEMOLISHED EQUIPMENT SHALL BE REMOVED. THE CONDUIT AND 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.

ABBREVIATIONS

(2)1"C, 3#8, #10GND	2, 1–INCH CONDUITS EACH CONDUIT CONTAINING 3–#8 AWG WIRES AND 1–#10 GROUND CONDUCTOR
3/4" CE	EMPTY CONDUIT. NUMERAL DENOTES SIZE
ABL	ALARM BEACON LIGHT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AR	ALARM RELAY
ATS	AUTOMATIC TRANSFER SWITCH
CR	CONTROL RELAY
CP	CONTROL PANEL
DRG. DWG.	DRAWING
EAN	EXCEPT AS NOTED
EC	ELECTRICAL CONTRACTOR
ETM	ELAPSED TIME METER
FE	FLOW ELEMENT
FIT	FLOW INDICATOR TRANSMITTER
FS	FLOW SWITCH
FT	FLOW TRANSMITTER
FVNR	FULL VOLTAGE NON–REVERSING
GND, GRD	GROUNDING CONDUCTOR (EQUIPMENT)
HO	HAND–OFF SELECTOR SWITCH
HOA	HAND–OFF–AUTOMATIC SELECTOR SWITCH
HH	HANDHOLE
ISP	INTRINSICALLY SAFE PANEL
J OR JB	JUNCTION BOX
JPB	JOG PUSHBUTTON
LE	LEVEL ELEMENT
LIT	LEVEL INDICATOR TRANSMITTER
LL	LOW LEVEL
LSX	LEVEL SWITCH, X = "H" FOR HIGH, "L" FOR LOW
LT	LEVEL TRANSMITTER
MC	MOTOR CONTROLLER (STARTER)
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MFR	MANUFACTURER
MS	MOTION SENSOR
NTS	NOT TO SCALE
OEM	ORIGINAL EQUIOPMENT MANUFACTURE SUPPLIED
OH	OVERHEAD
OL	MOTOR OVERLOAD HEATER
OS	OPERATOR STATION
PB	PUSHBUTTON CONTROL STATION MOMENTARY CONTACT TYPE, STOP–START
PBE	PUSHBUTTON CONTROL STATION MAINTAINED EMERGENCY STOP TYPE, TWIST TO RELEASE
PBL	PUSHBUTTON CONTROL STATION MOMENTARY TYPE WITH LOCK–OUT DEVICE, STOP–START
PBM	SELECTOR SWITCH CONTROL STATION, CONTACT TYPE, HAND–OFF
PIT	PRESSURE INDICATOR TRANSMITTER
PL	PUSHBUTTON CONTROL STATION MOMENTARY TYPE WITH LOCK–OUT DEVICE, STOP
PSH	PRESSURE SWITCH HIGH
PSL	PRESSURE SWITCH LOW
PT	PRESSURE TRANSMITTER
RGS	RIGID GALVANIZED STEEL
RVNR	REDUCED VOLTAGE NON–REVERSING
SPD	SURGE SUPPRESSOR DEVICE
SOV	SOLENOID VALVE
S/S	SOFT STARTER
TB	TERMINAL BOX
TD	MOTOR TEMPERATURE DETECTOR
TR	TIMING RELAY
TS	TEMPERATURE SWITCH
TSP	TWISTED SHEILDED PAIR
TSTW	TWO SPEED TWO WINDING
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
WP	WATER PROOF
WSH	TORQUE SWITCH HIGH
XFMR	TRANSFORMER
XS	LIMIT SWITCH

PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

Electrical Legend and General Notes

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

SCALE

AS SHOWN

Issued For Bid

SHEET NO.

E-0.1

POWER CABLE/CONDUIT SCHEDULE

SYMBOL	CONDUIT SIZE*	CONDUCTORS*	GND*
P22	3/4"	(2)#12	(1)#12
P23	3/4"	(3)#12	(1)#12
P24	3/4"	(4)#12	(1)#12
P32	3/4"	(2)#10	(1)#10
P33	3/4"	(3)#10	(1)#10
P52	3/4"	(2)#8	(1)#10
P53	3/4"	(3)#8	(1)#10
P54	3/4"	(4)#8	(1)#10
P62	1"	(2)#6	(1)#8
P63	1"	(3)#6	(1)#8
P64	1"	(4)#6	(1)#8
P83	1 1/4"	(3)#4	(1)#8
P84	1 1/4"	(4)#4	(1)#8
P103	1 1/2"	(3)#3	(1)#6
P104	1 1/2"	(4)#3	(1)#6
P113	1 1/2"	(3)#2	(1)#6
P114	1 1/2"	(4)#2	(1)#6
P133	2"	(3)#1	(1)#6
P134	2"	(4)#1	(1)#6
P153	2"	(3)#1/0	(1)#6
P154	2"	(4)#1/0	(1)#6
P173	2 1/2"	(3)#2/0	(1)#6
P174	2 1/2"	(4)#2/0	(1)#6
P203	2 1/2"	(3)#3/0	(1)#4
P204	2 1/2"	(4)#3/0	(1)#4
P404	4"	(4)500KCMIL	(1)#3

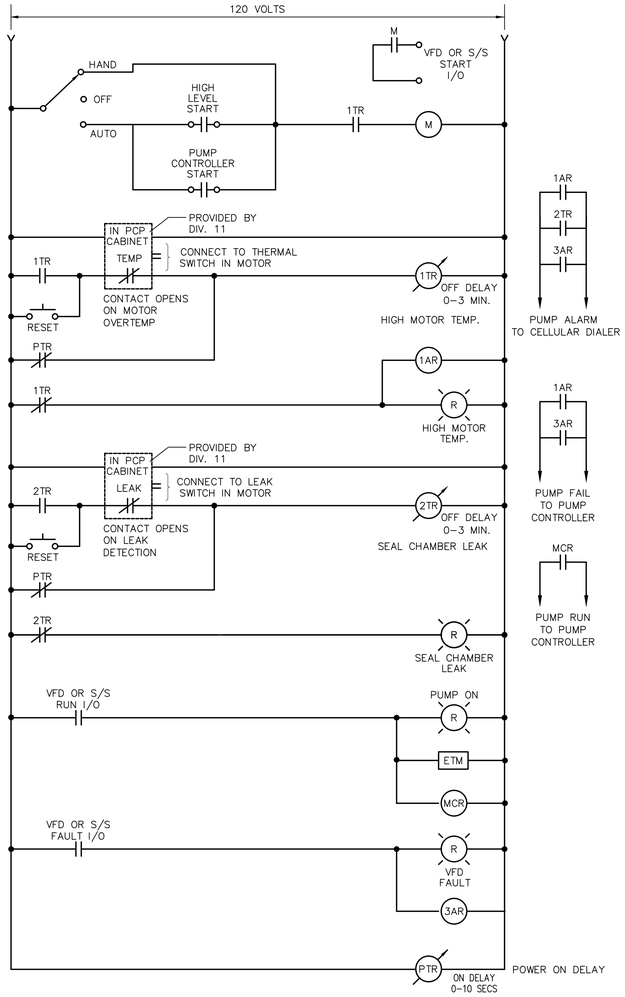
SIGNAL CABLE/CONDUIT SCHEDULE

SYMBOL	CONDUIT SIZE	CONDUCTORS
S	1"	VENDER PROVIDED
S1	3/4"	1-2/C#16 TSP
S13	3/4"	1-3/C#16 TSP
S2	3/4"	2-2/C#16 TSP
S23	3/4"	2-3/C#16 TSP
S3	1"	3-2/C#16 TSP
S33	1"	3-3/C#16 TSP
S4	1"	4-2/C#16 TSP
S5	1"	5-2/C#16 TSP
S6	1 1/2"	6-2/C#16 TSP
S7	1 1/2"	7-2/C#16 TSP
S8	1 1/2"	8-2/C#16 TSP
S9	1 1/2"	9-2/C#16 TSP
S10	2"	10-2/C#16 TSP
TC1	3/4"	8/C#18

CONTROL CABLE/CONDUIT SCHEDULE

SYMBOL	CONDUIT SIZE	CONDUCTORS
C2	3/4"	2#14
C4	3/4"	4#14
C5	3/4"	5#14
C6	3/4"	6#14
C7	3/4"	7#14
C8	3/4"	8#14
C9	3/4"	9#14
C10	3/4"	10#14
C12	3/4"	12#14
C16	1"	16#14
C20	1"	20#14

NOTE: CONDUIT AND CONDUCTOR SIZES ARE TO BE PER THE ABOVE SCHEDULES UNLESS OTHERWISE NOTED.



CONTROL WIRING DIAGRAM
SEWAGE PUMPS
NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER & CATALOG SERIES	LAMPS		VOLTS	WATTS	MOUNTING		REMARKS
			TYPE	LUMENS			TYPE	HEIGHT	
F1	24" LED OPEN STRIP LIGHT FIXTURE	HUBBELL LCS2-35LW-EU	LED 3500K	2753lm	120	19	SURFACE	-	-

LIGHTING FIXTURE SCHEDULES NOTES:

1. THE CATALOG NUMBERS LISTED ARE GIVEN AS A GUIDE TO THE DESIGN AND QUALITY OF FIXTURE DESIRED. EQUIVALENT DESIGNS, MATERIALS, DIMENSIONS, COEFFICIENT OF UTILIZATIONS AND EQUAL QUALITY FIXTURES OF OTHER MANUFACTURERS WILL BE ACCEPTABLE.

PREPARED BY
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REGISTERED PROFESSIONAL
COMMONWEALTH OF MASSACHUSETTS
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617 221-9220
web: www.sar.com

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

Electrical Schedules and Sewage Pump Control Wiring Diagram

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

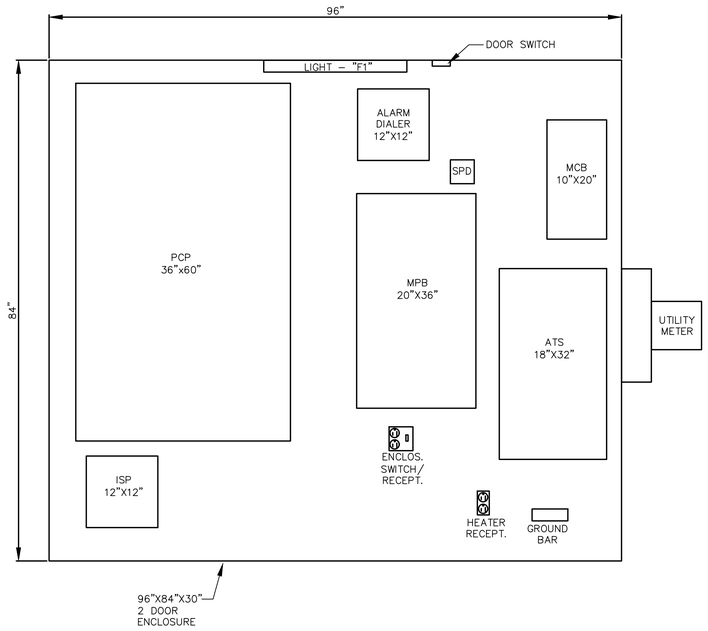
SCALE

AS SHOWN

Issued For Bid

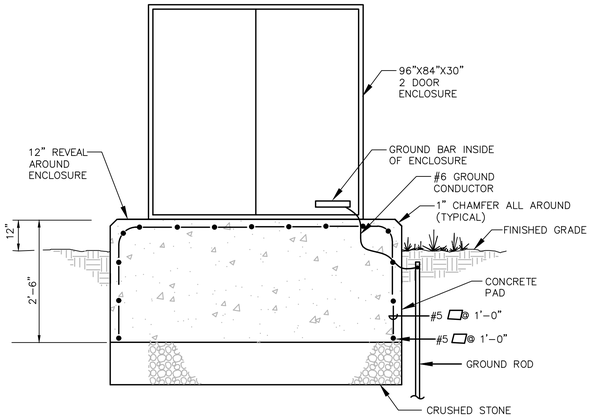
SHEET NO.

E-0.2



ELECTRICAL ENCLOSURE - EQUIPMENT LAYOUT

SCALE: 1" = 1'-0"

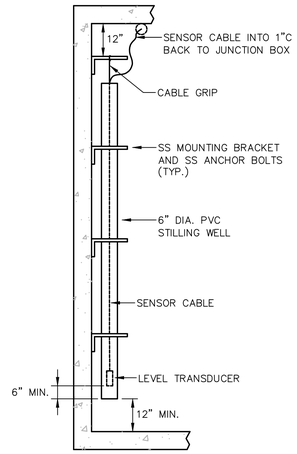


NOTES:

1. FOR REINFORCING REQUIREMENTS SEE STRUCTURAL SPECIFICATIONS.

ELECTRICAL ENCLOSURE BASE DETAIL

NOT TO SCALE

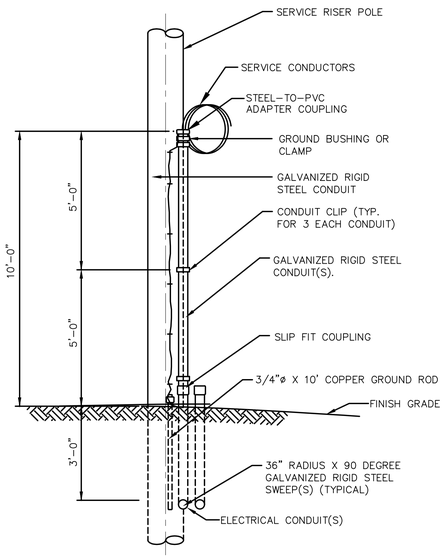


NOTES:

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

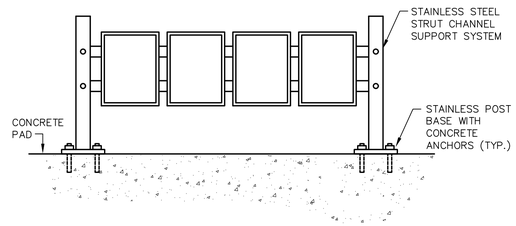
SUBMERSIBLE LEVEL TRANSDUCER IN WET WELL

NOT TO SCALE



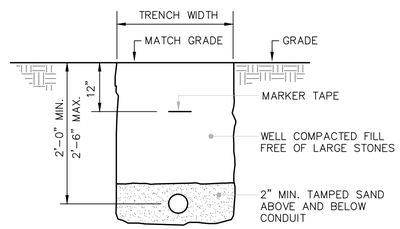
UTILITY POLE SERVICE RISER DETAIL

NOT TO SCALE



JUNCTION BOXES AT WET WELL MOUNTING DETAIL

NOT TO SCALE

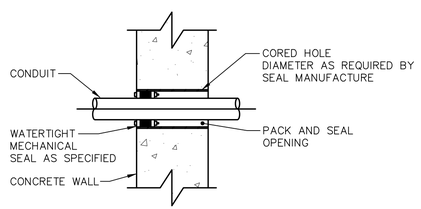


NOTES:

1. BACKFILL IN LAYERS AND MANUALLY TAMP. PROVIDE RED DUCT BANK MARKER TAPE, READING "CAUTION – ELECTRICAL LINES BELOW", OVER ENTIRE LENGTH OF DUCTLINE. LOCATE TAPE 12 INCHES BELOW GRADE. PROVIDE A TAPE FOR EVERY 12 INCHES OF WIDTH OF DUCTLINE.
2. TRENCHING AND BACKFILLING SHALL BE PERFORMED UNDER DIVISION 2 OF THIS CONTRACT.

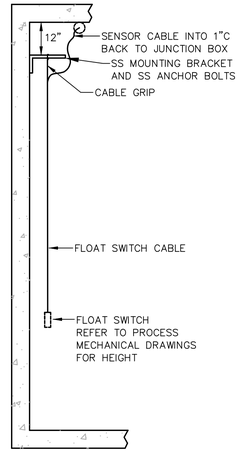
TYPICAL UNDERGROUND CONDUIT SECTION

NOT TO SCALE



CONDUIT PENETRATION THROUGH CONCRETE WALL

NOT TO SCALE



NOTES:

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

FLOAT LEVEL SWITCH IN WET WELL

NOT TO SCALE

PREPARED BY

BETA
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REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. COTTER
ELECTRICAL
No. 40999
REGISTERED PROFESSIONAL ENGINEER

SUBCONSULTANT

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Mechanical/Electrical Engineers
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Braintree, Massachusetts 02184
617 221-9220
web: www.sar.com

PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

Electrical Details

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

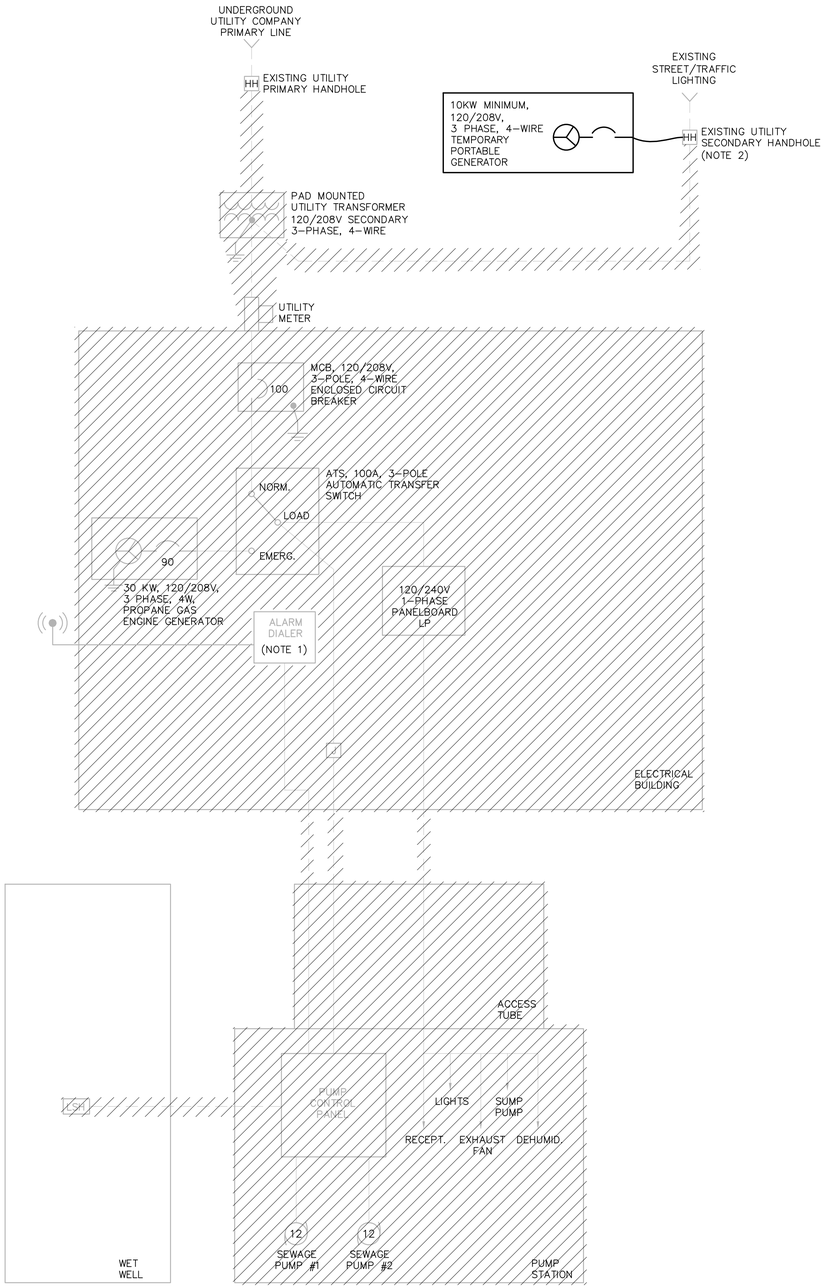
SCALE

AS SHOWN

Issued For Bid

SHEET NO.

E-0.3

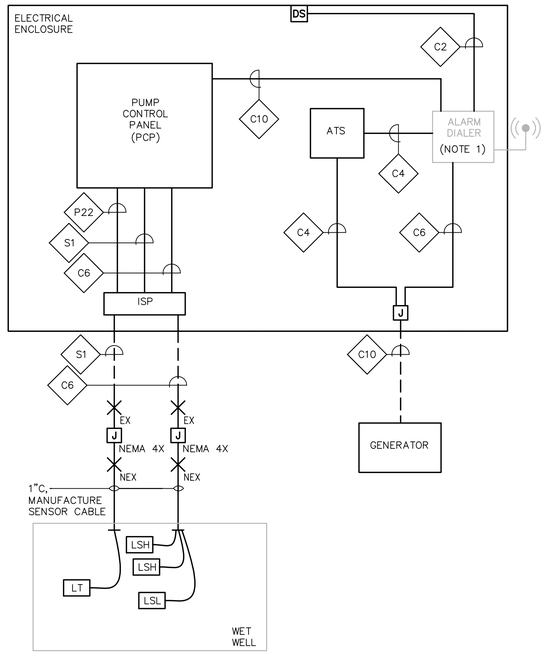


MYLES STANDISH DEMOLITION ONE LINE DIAGRAM

NOT TO SCALE

NOTES:

1. ALARM DIALER, ANTENNA, ANTENNA MOUNT, AND ANTENNA CABLE TO BE SALVAGED AND REINSTALLED IN NEW ELECTRICAL ENCLOSURE. REFER TO SPECIFICATION 13300 FOR DIALER INPUT SIGNALS.
2. PROVIDE A 50 AMP, 3-PHASE, 4-WIRE TEMPORARY POWER FEEDER FROM THE TEMPORARY GENERATOR AND CONNECT INTO THE EXISTING STREET/TRAFFIC LIGHTING SERVICE WITHIN THE HANDHOLE. REFER TO SPECIFICATION SECTION 16000 FOR ADDITIONAL REQUIREMENTS.



MYLES STANDISH CONTROL BLOCK DIAGRAM

NOT TO SCALE

PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Electrical Demolition One Line Diagram

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

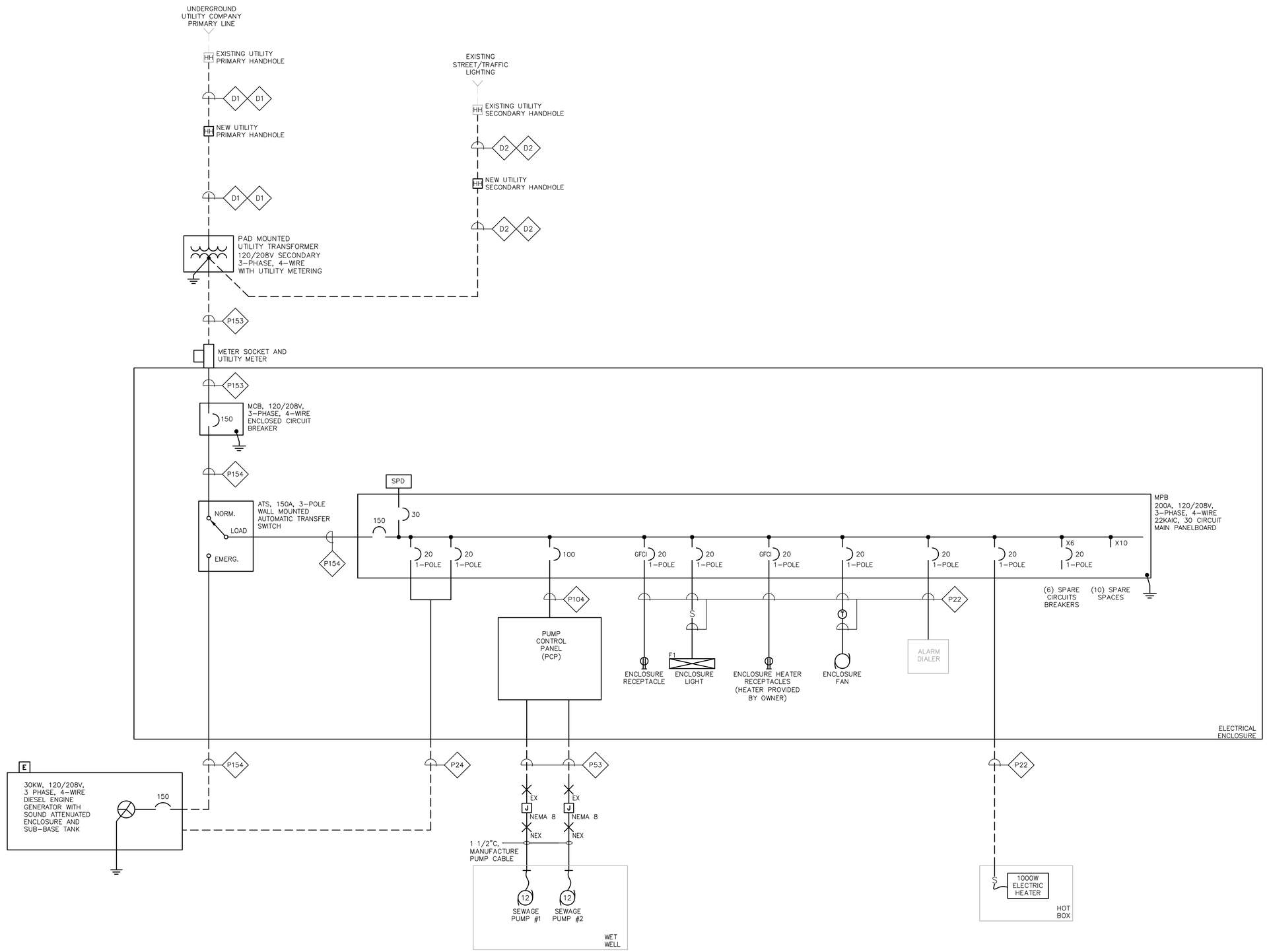
SCALE

AS SHOWN

Issued For Bid

SHEET NO.

E-1.0



MYLES STANDISH ONE LINE DIAGRAM

NOT TO SCALE

PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Electrical
One Line Diagram

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

SCALE

AS SHOWN

Issued For Bid

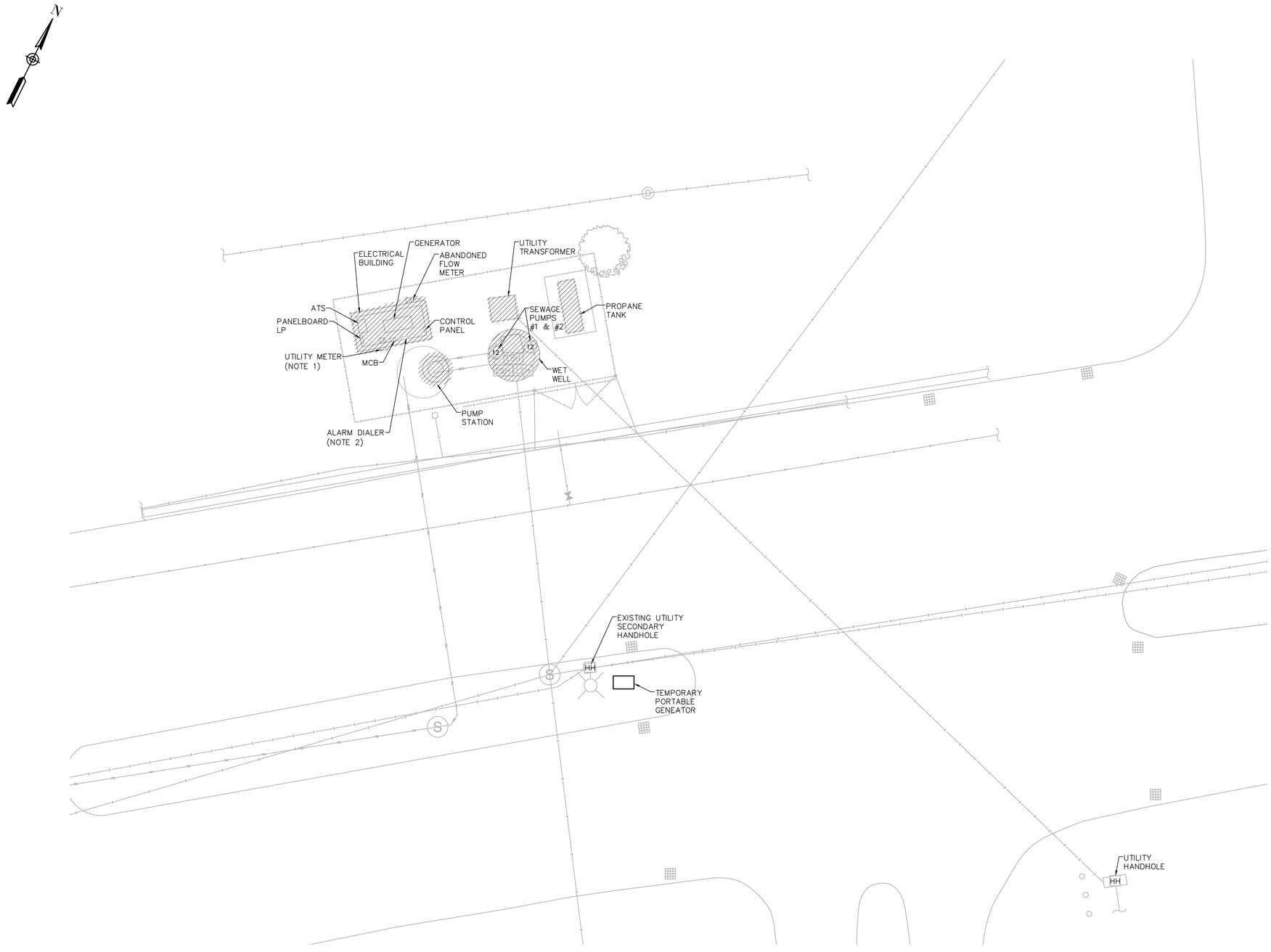
SHEET NO.

E-1.1

NOTES:

1. DISCONNECT POWER TO THE PUMP STATION AND MAKE SAFE FOR COMPLETE DEMOLITION. COORDINATE WITH TMLP FOR DISCONNECTION OF POWER TO THE METER.

2. ALARM DIALER, ANTENNA, ANTENNA MOUNT, AND ANTENNA CABLE TO BE SALVAGED AND REINSTALLED IN NEW ELECTRICAL ENCLOSURE.



MYLES STANDISH PUMP STATION
DEMOLITION PLAN
SCALE: 1" = 5'-0"

PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Electrical Demolition Plan

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
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BETA JOB NO.:	10685

SCALE

AS SHOWN

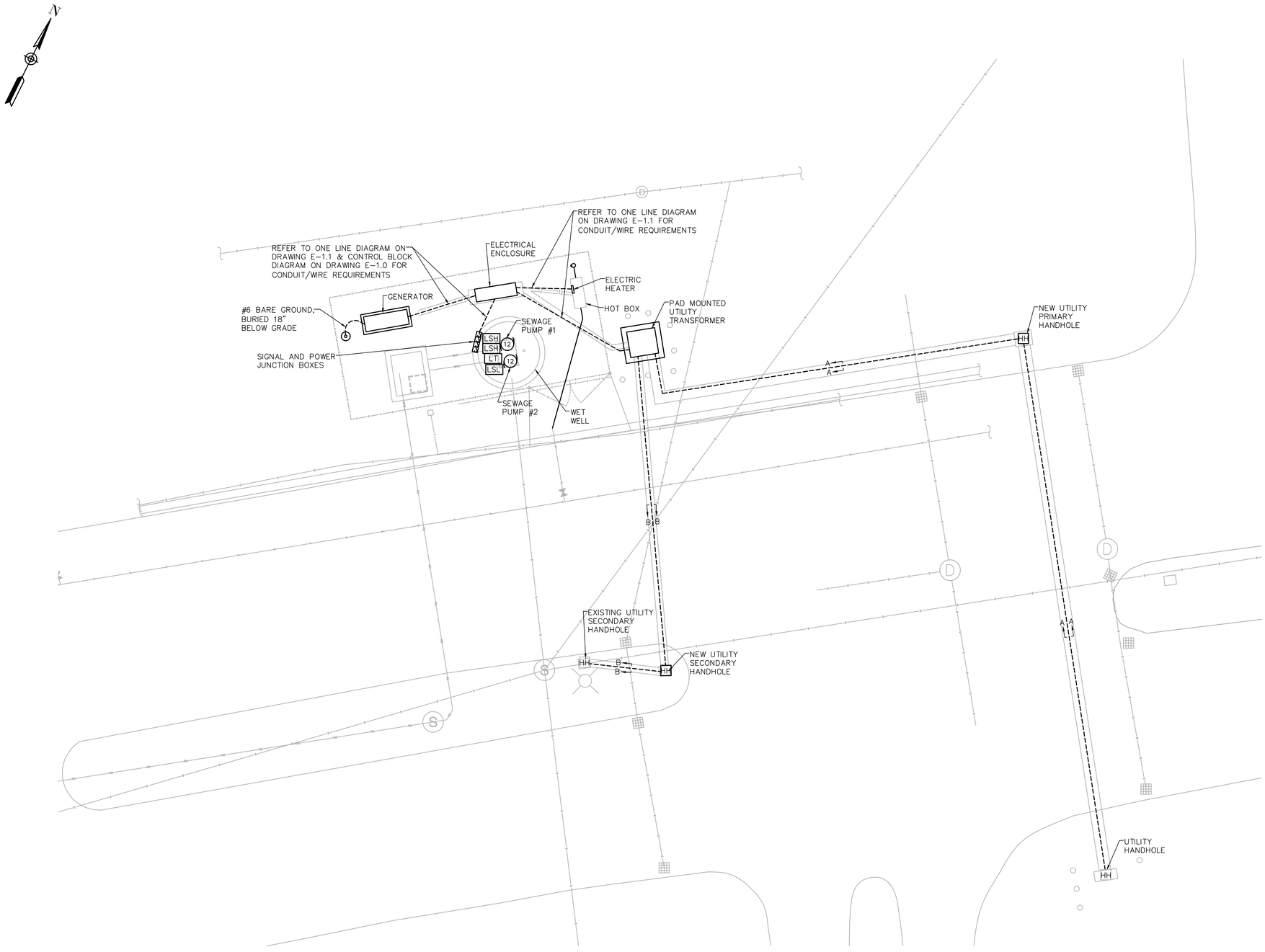
Issued For Bid

SHEET NO.

E-1.2

NOTES:

1. REFER TO DRAWING E-1.4 FOR DUCTBANK SECTIONS.



MYLES STANDISH PUMP STATION
PLAN

SCALE: 1" = 5'-0"

PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Electrical Plan

NO.	REVISIONS	DATE

DRAWN BY:	RLB
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CHECKED BY:	MC
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BETA JOB NO.:	10685

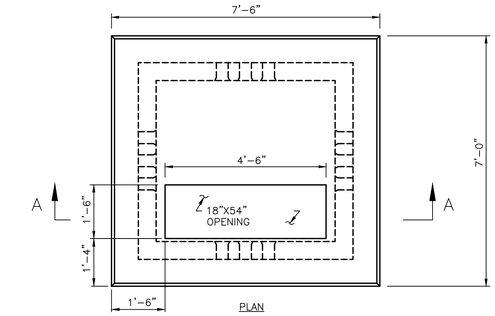
SCALE

AS SHOWN

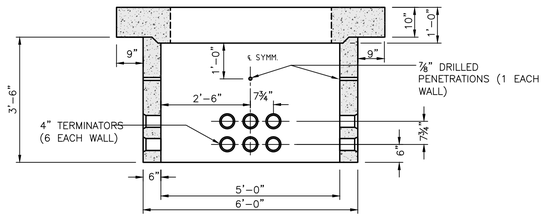
Issued For Bid

SHEET NO.

E-1.3



PLAN



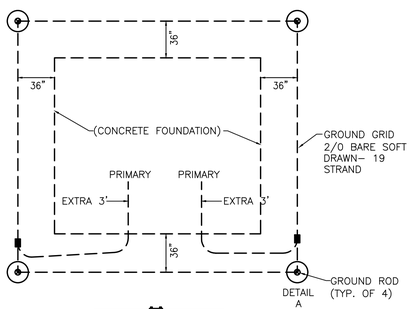
SECTION A–A

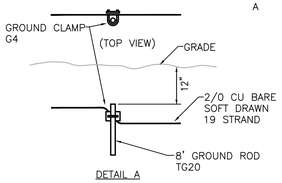
NOTES:

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 1½".
5. ALL TERMINATORS SHALL HAVE BELL ENDS FLUSH WITH THE INSIDE WALL.

TRANSFORMER PAD

NO SCALE





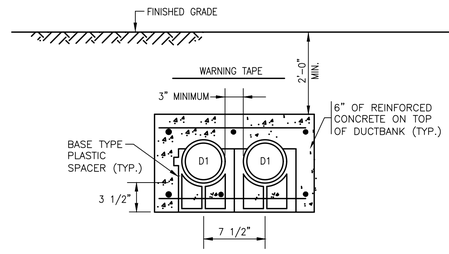
DETAIL A

PAD MOUNTED TRANSFORMER GROUNDING PLAN

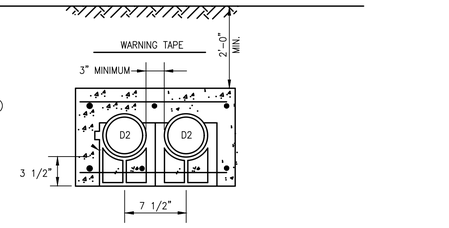
NO SCALE

DUCT / CABLE SCHEDULE

DUCT NO.	SIZE	CONDUCTORS	FROM	TO
D1	4"	PULL STRING	UTILITY PRIMARY HANDHOLE	UTILITY TRANSFORMER
D2	4"	PULL STRING	UTILITY TRANSFOMER	UTILITY LIGHTING HANDHOLE



SECTION A-A



SECTION B-B

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

PREPARED BY

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REGISTERED PROFESSIONAL

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MICHAEL J. COTTER
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No. 40999
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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

MYLES STANDISH PUMP STATION

Electrical Site Details

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

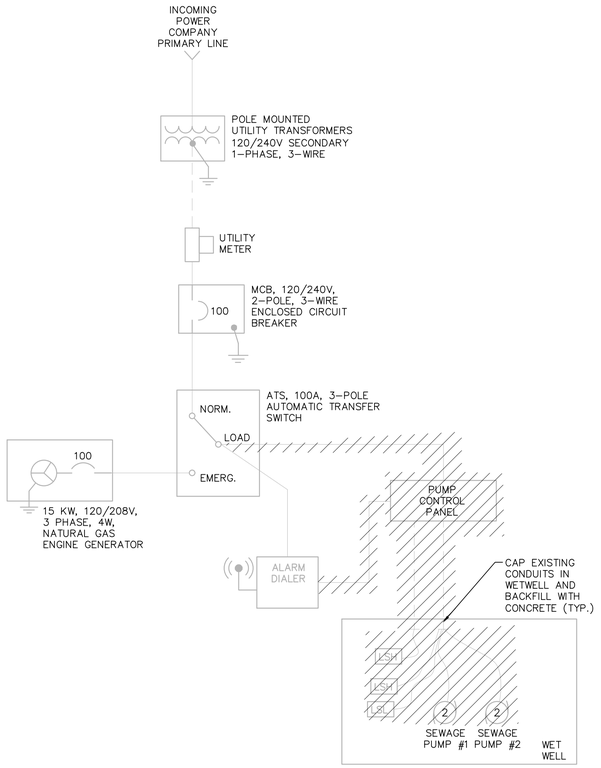
SCALE

AS SHOWN

Issued For Bid

SHEET NO.

E-1.4

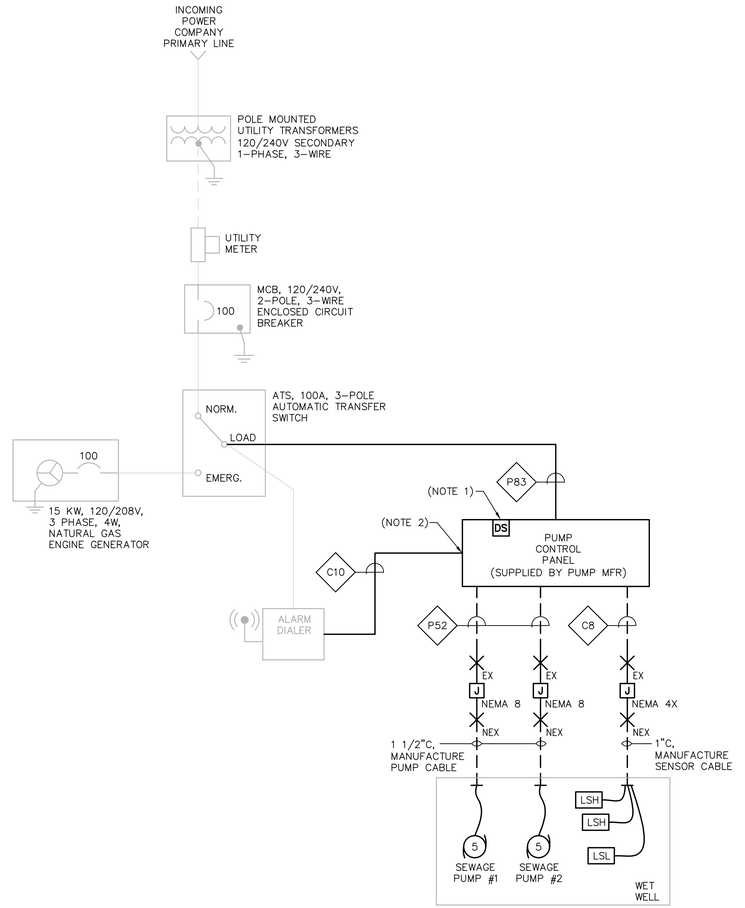


PARTRIDGE CIRCLE DEMOLITION ONE LINE DIAGRAM

NOT TO SCALE

NOTES:

1. INSTALL DOOR SWITCH ON PUMP CONTROL PANEL DOOR.
2. CONNECT TO DOOR SWITCH AND PUMP CONTROL PANEL DRY CONTACT FOR WET WELL LEVEL.



PARTRIDGE CIRCLE ONE LINE DIAGRAM

NOT TO SCALE

PREPARED BY

BETA
www.BETA-Inc.com

REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. COTTER
ELECTRICAL
No. 40999
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SUBCONSULTANT

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

PARTRIDGE CIRCLE
PUMP STATION

Electrical
One Line Diagrams

NO.	REVISIONS	DATE

DRAWN BY:	RLB
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SCALE

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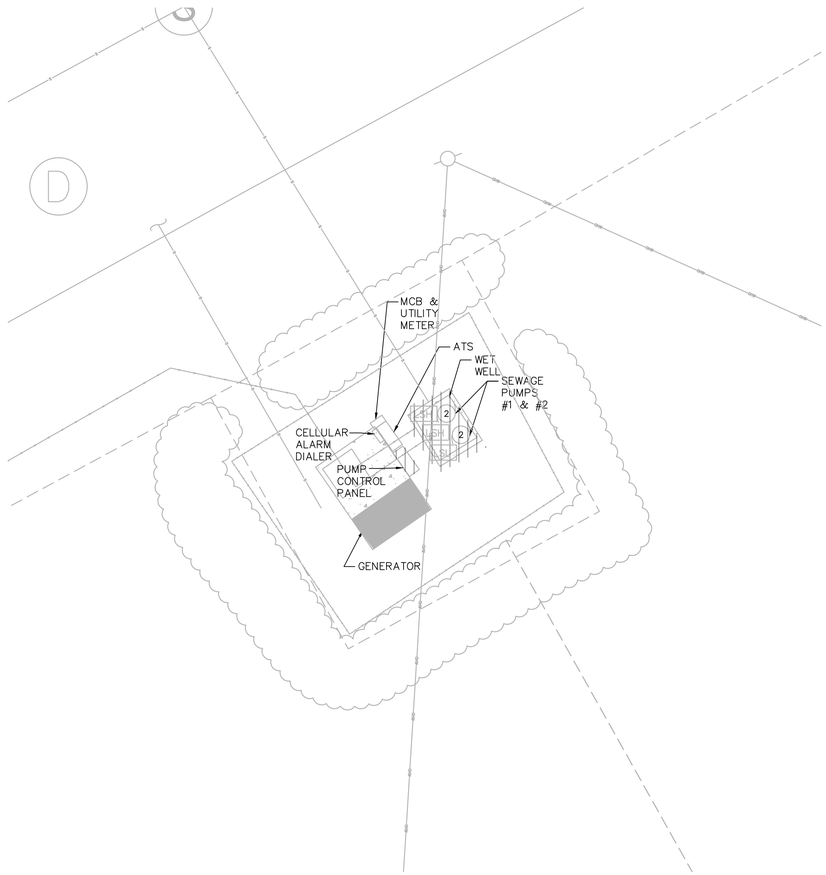
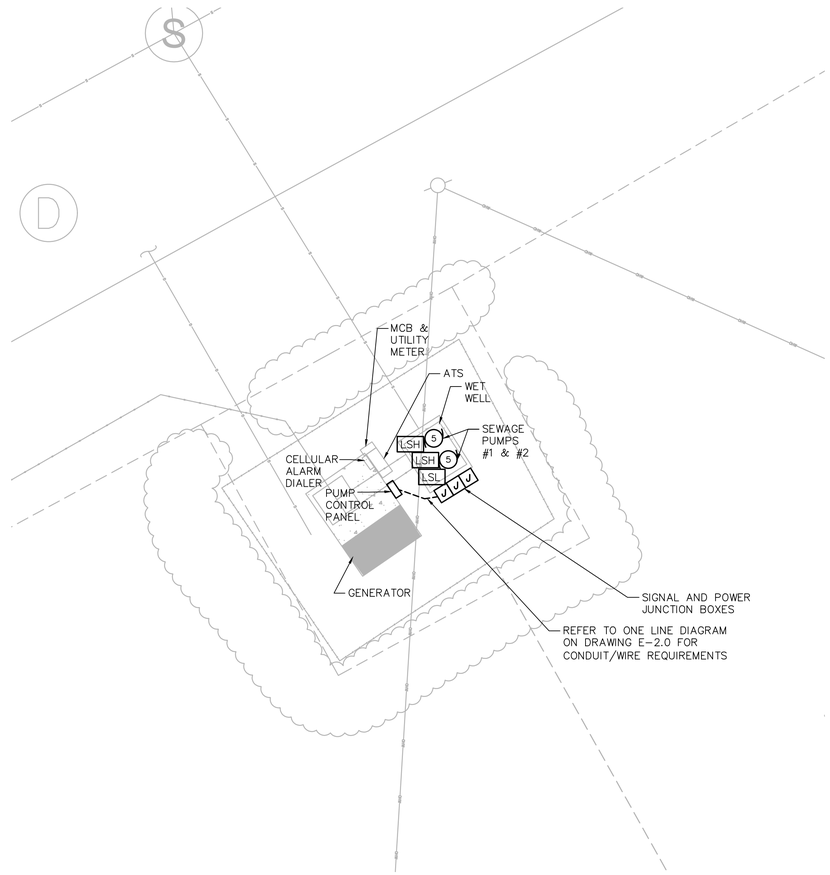
SHEET NO.

E-2.0



PARTRIDGE CIRCLE PUMP STATION
DEMOLITION PLAN
SCALE: 1" = 5'-0"



PARTRIDGE CIRCLE PUMP STATION
NEW WORK PLAN
SCALE: 1" = 5'-0"

PREPARED BY

BETA
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COMMONWEALTH OF MASSACHUSETTS
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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

PARTRIDGE CIRCLE
PUMP STATION

Electrical
Plan

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

SCALE

AS SHOWN

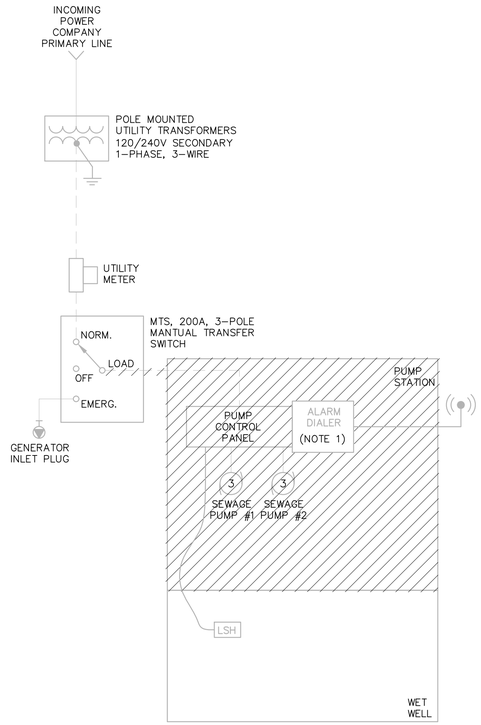
Issued For Bid

SHEET NO.

E-2.1

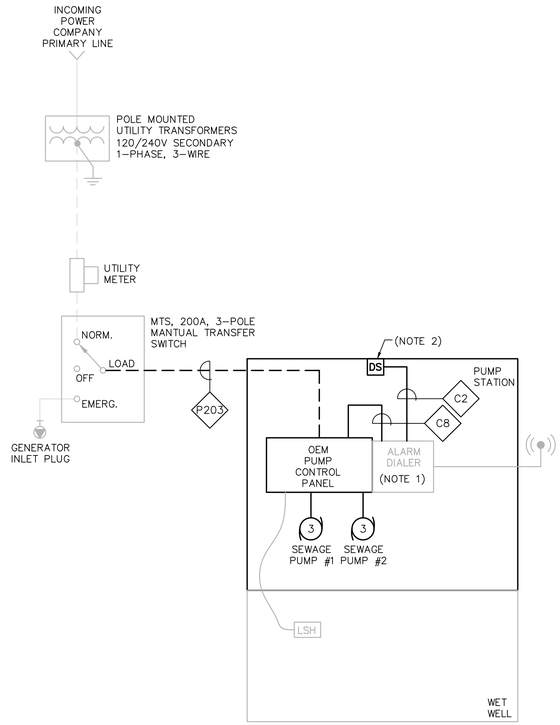
NOTES:

1. ALARM DIALER, ANTENNA, ANTENNA MOUNT, AND ANTENNA CABLE TO BE SALVAGED AND REINSTALLED INTO NEW PUMP STATION ENCLOSURE. CONNECT TO DOOR SWITCH AND PUMP CONTROL PANEL DRY CONTACTS FOR WET WELL LEVEL HIGH, PUMP #1
2. INSTALL DOOR SWITCH ON PUMP STATION ENCLOSURE DOOR.



WELLESLEY CIRCLE DEMOLITION ONE LINE DIAGRAM

NOT TO SCALE



WELLESLEY CIRCLE ONE LINE DIAGRAM

NOT TO SCALE

PREPARED BY

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REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
MICHAEL J. COTTER
ELECTRICAL
No. 40999
REGISTERED
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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE PUMP STATION

Electrical
One Line Diagrams

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

SCALE

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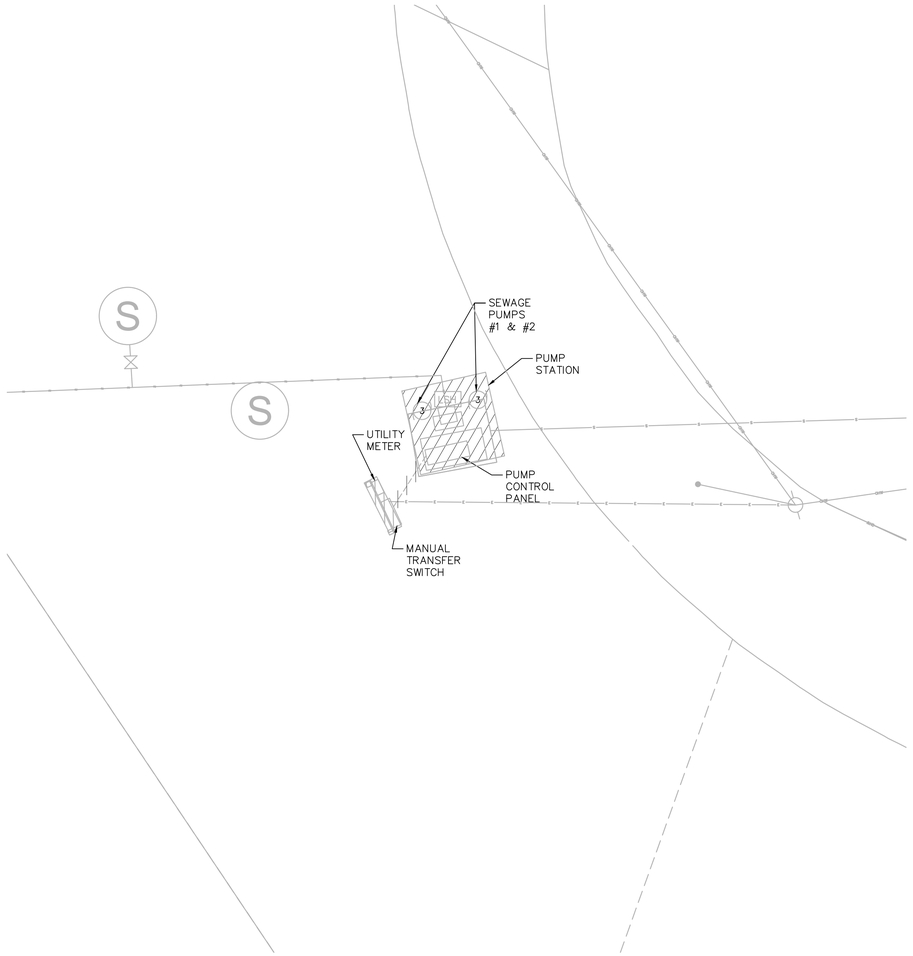
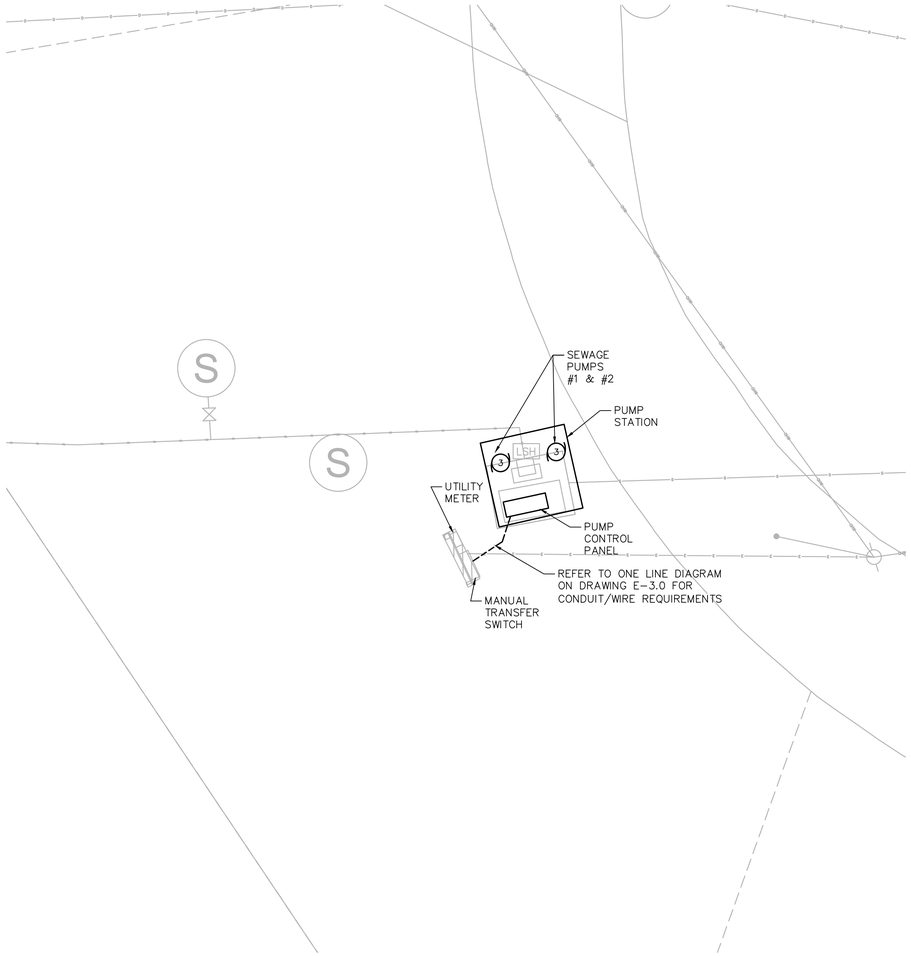
SHEET NO.

E-3.0



WELLESLEY CIRCLE PUMP STATION
DEMOLITION PLAN
SCALE: 1" = 5'-0"



WELLESLEY CIRCLE PUMP STATION
NEW WORK PLAN
SCALE: 1" = 5'-0"

PREPARED BY

BETA
www.BETA-Inc.com

REGISTERED PROFESSIONAL

COMMONWEALTH OF MASSACHUSETTS
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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

WELLESLEY CIRCLE PUMP STATION

Electrical Plan

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
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BETA JOB NO.:	10685

SCALE

AS SHOWN

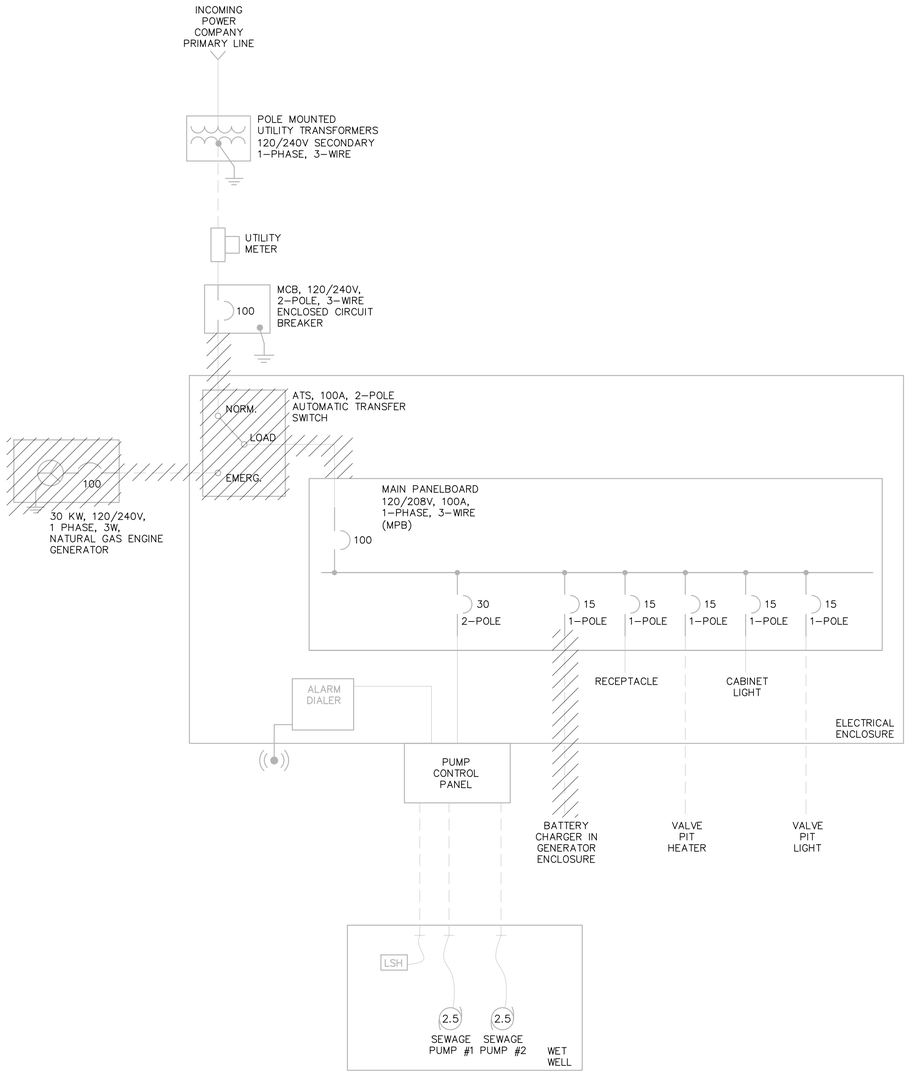
Issued For Bid

SHEET NO.

E-3.1

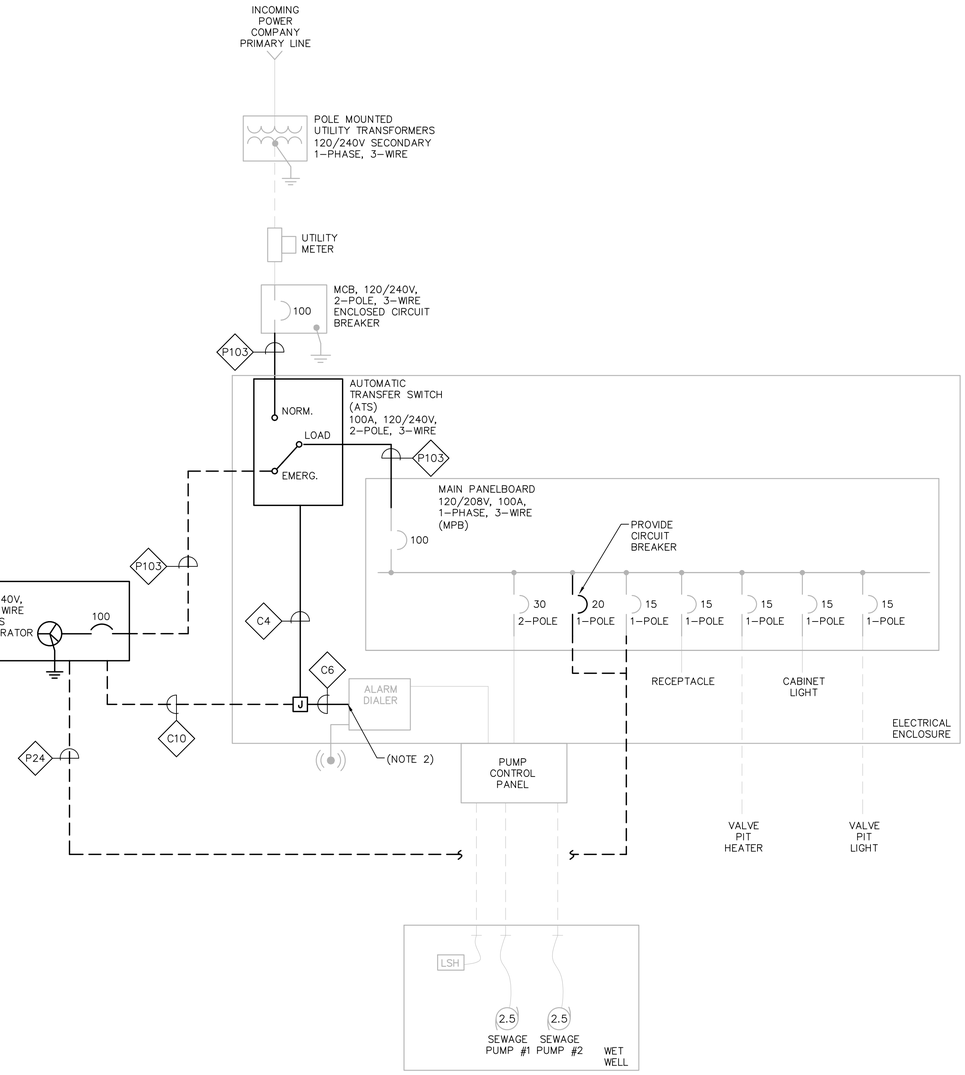
NOTES:

1. CONNECT GENERATOR GENERAL ALARM INTO SPARE INPUTS OF THE ALARM DIALER.



SCHOOL STREET DEMOLITION ONE LINE DIAGRAM

NOT TO SCALE



SCHOOL STREET ONE LINE DIAGRAM

NOT TO SCALE

PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

SCHOOL STREET PUMP STATION

Electrical
One Line Diagrams

NO.	REVISIONS	DATE

DRAWN BY:	RLB
DESIGNED BY:	MC
CHECKED BY:	MC
ISSUE DATE:	7/13/2023
BETA JOB NO.:	10685

SCALE

AS SHOWN

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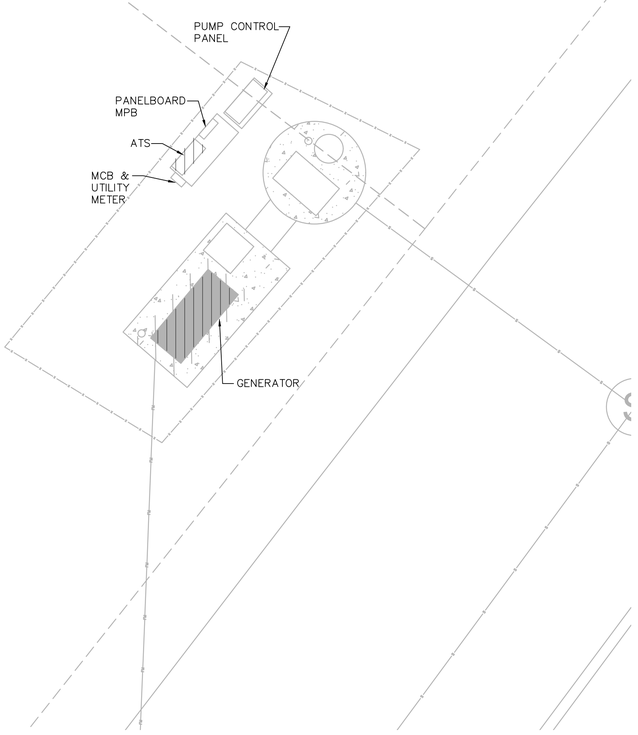
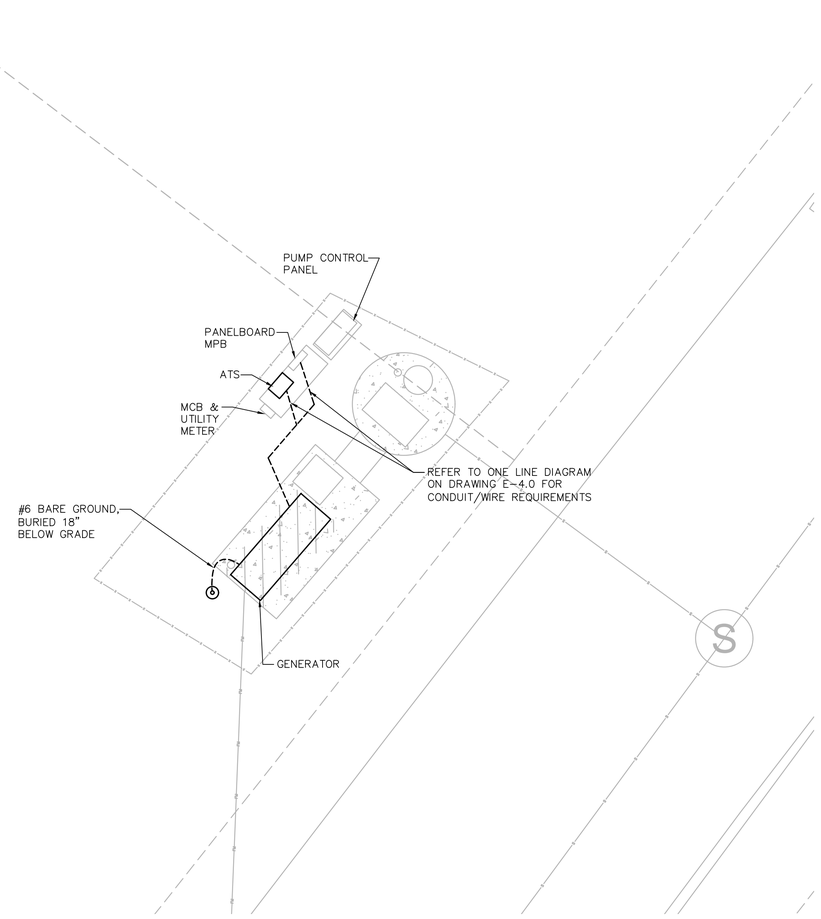
SHEET NO.

E-4.0



SCHOOL STREET PUMP STATION
DEMOLITION PLAN
SCALE: 1" = 5'-0"



SCHOOL STREET PUMP STATION
NEW WORK PLAN
SCALE: 1" = 5'-0"

PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

SCHOOL STREET
PUMP STATION

Electrical
Plan

NO.	REVISIONS	DATE

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SCALE

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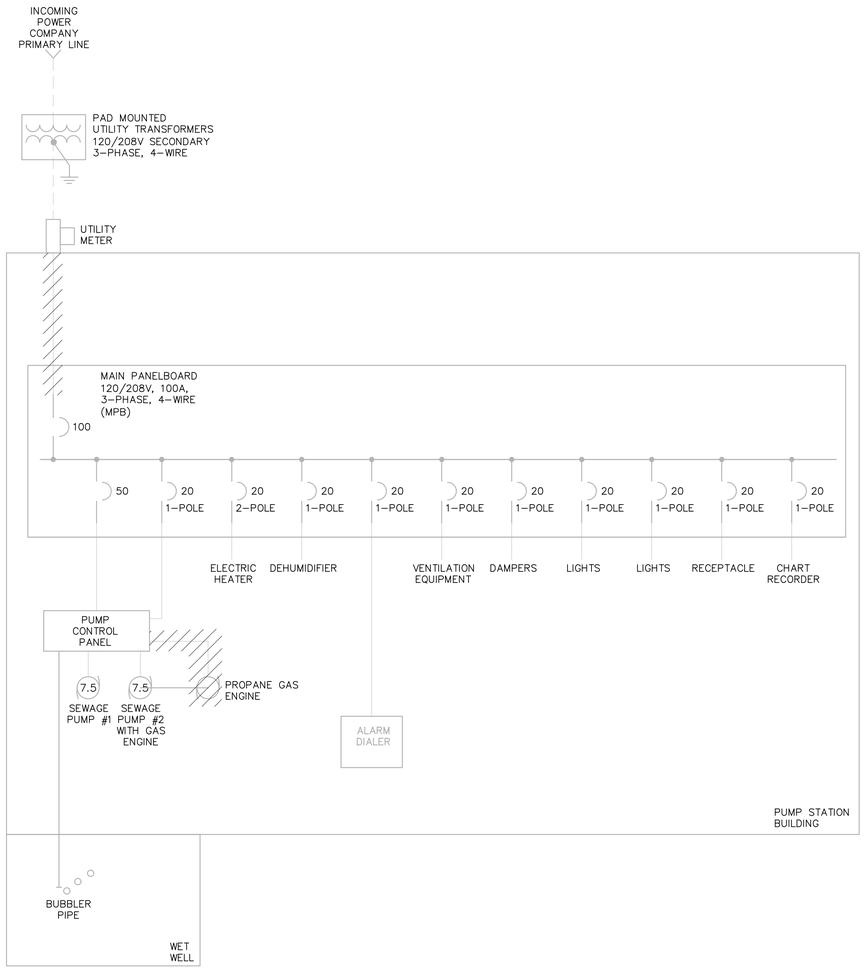

STEVENSON DEMOLITION ONE LINE DIAGRAM

NOT TO SCALE

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

STEVENS STREET PUMP STATION

Electrical Demolition One Line Diagram

NO.	REVISIONS	DATE

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SCALE

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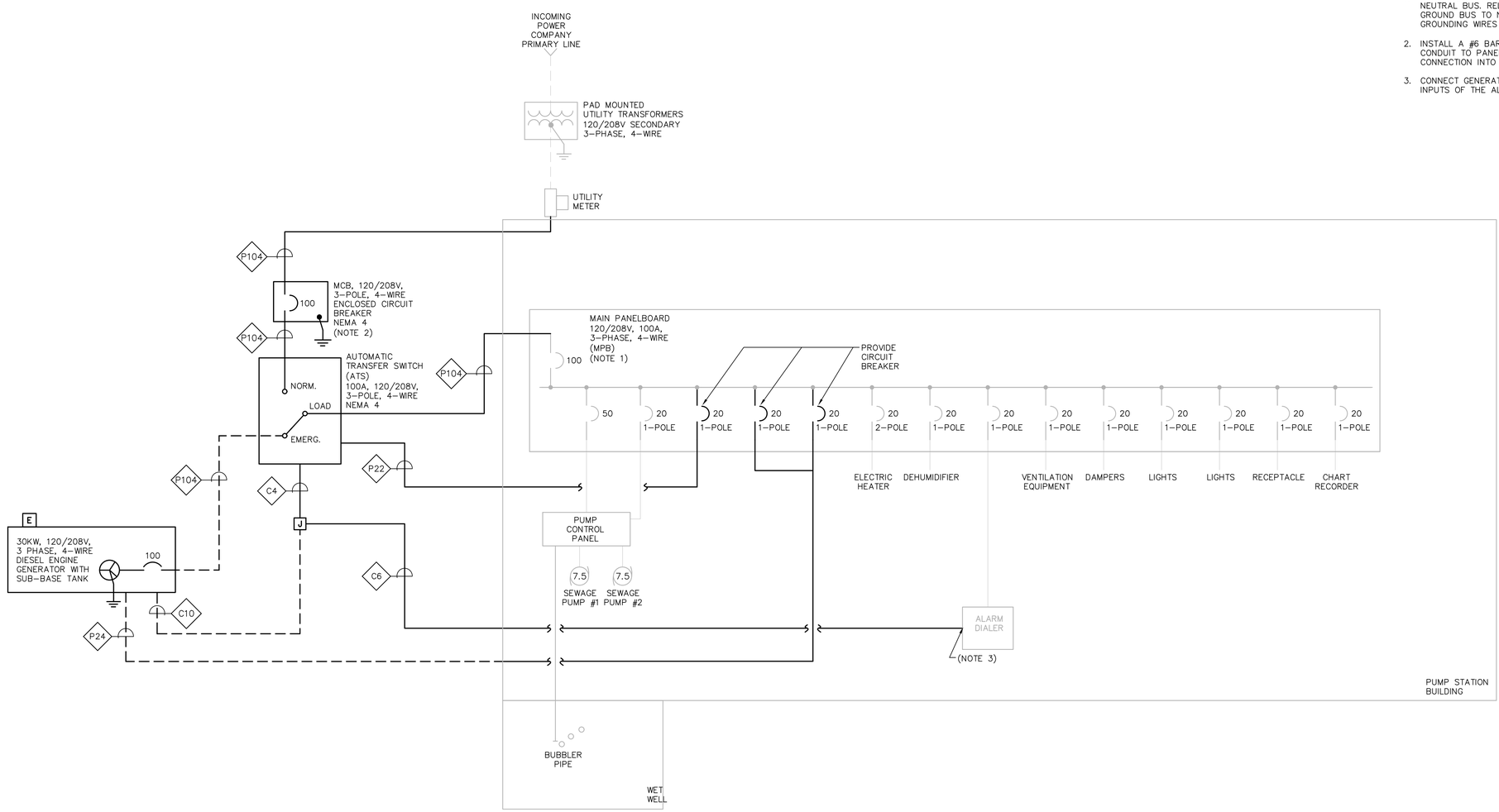
SHEET NO.

E-5.0

NOTES:

1. DISCONNECT PANELBOARD GROUNDING BUS FROM NEUTRAL BUS. RELOCATE ANY NEUTRAL WIRES FROM GROUND BUS TO NEUTRAL BUS. RELOCATE ANY GROUNDING WIRES FROM NEUTRAL BUS TO GROUND BUS.
2. INSTALL A #6 BARE COPPER GROUNDING WIRE IN 1" CONDUIT TO PANELBOARD MPB GROUNDING BUS FOR CONNECTION INTO BUILDING EXISTING GROUNDING SYSTEM.
3. CONNECT GENERATOR GENERAL ALARM INTO SPARE INPUTS OF THE ALARM DIALER.



STEVENSON ONE LINE DIAGRAM

NOT TO SCALE

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2023 Pump Station Improvements

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STEVENS STREET PUMP STATION

Electrical
One Line Diagram

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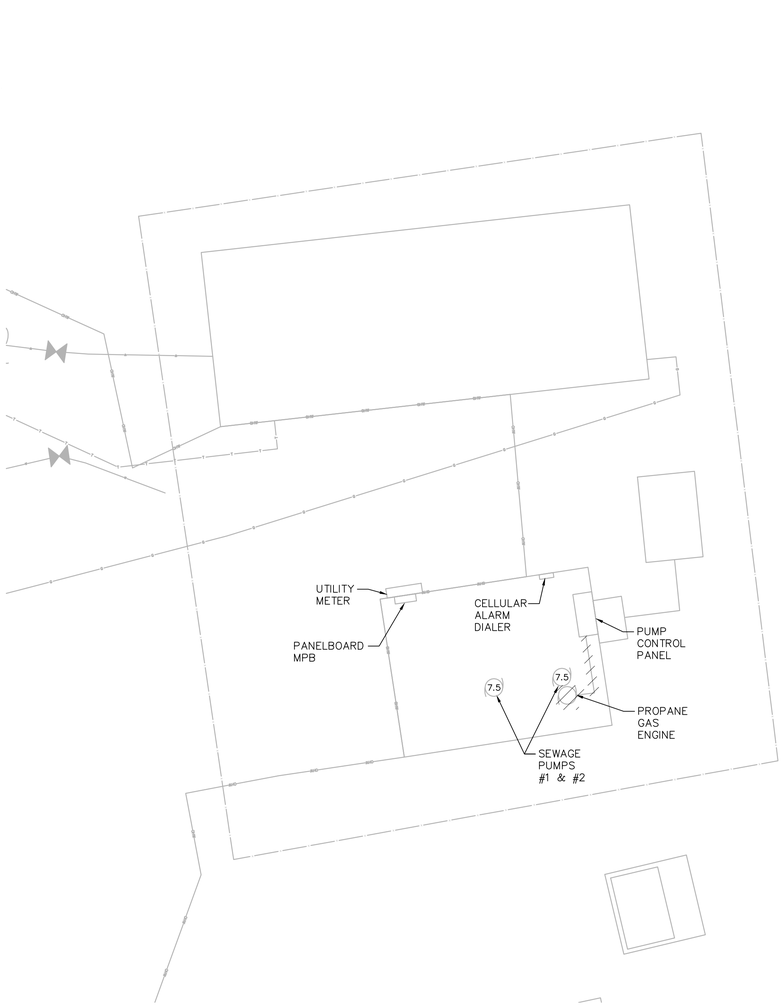
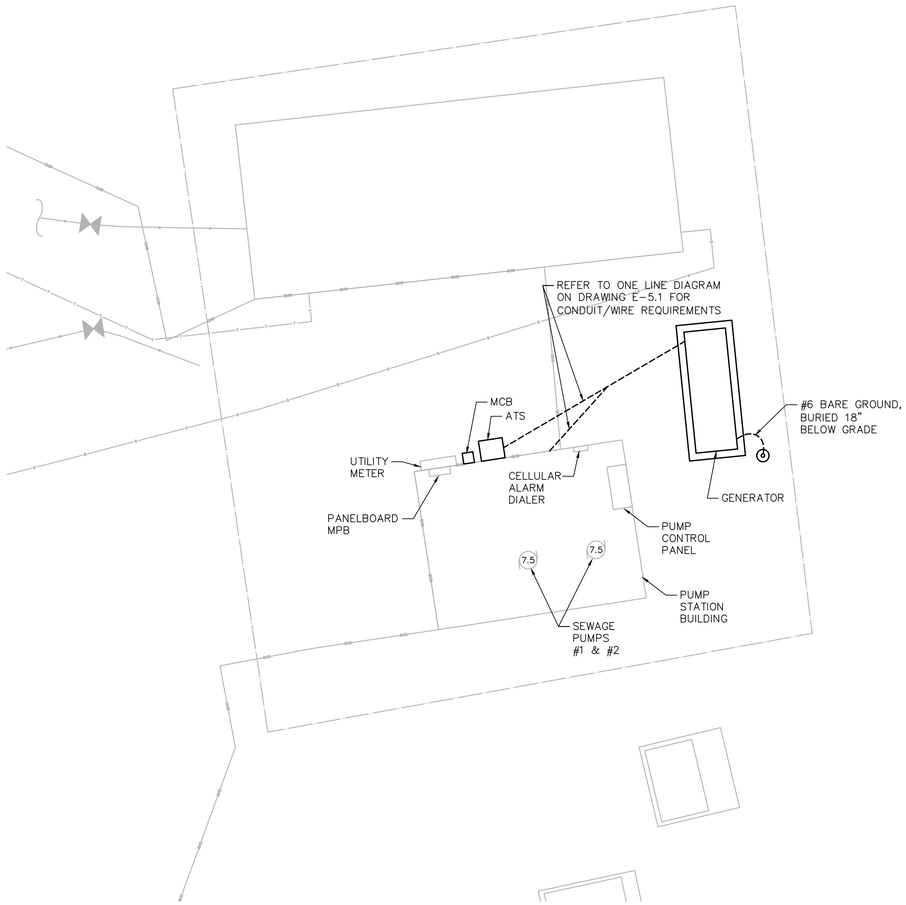


STEVENS STREET PUMP STATION
DEMOLITION PLAN
SCALE: 1" = 5'-0"



STEVENS STREET PUMP STATION
NEW WORK PLAN
SCALE: 1" = 5'-0"

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

STEVENS STREET PUMP STATION

Electrical Plan

NO.	REVISIONS	DATE

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SCALE

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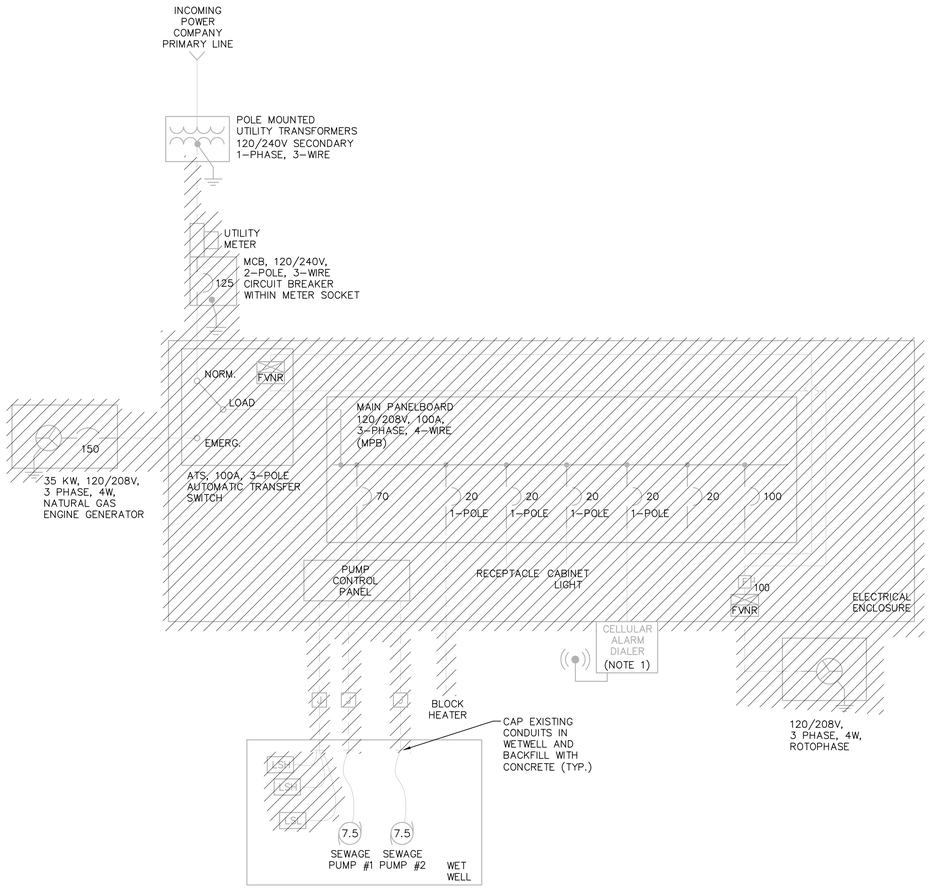
E-5.2

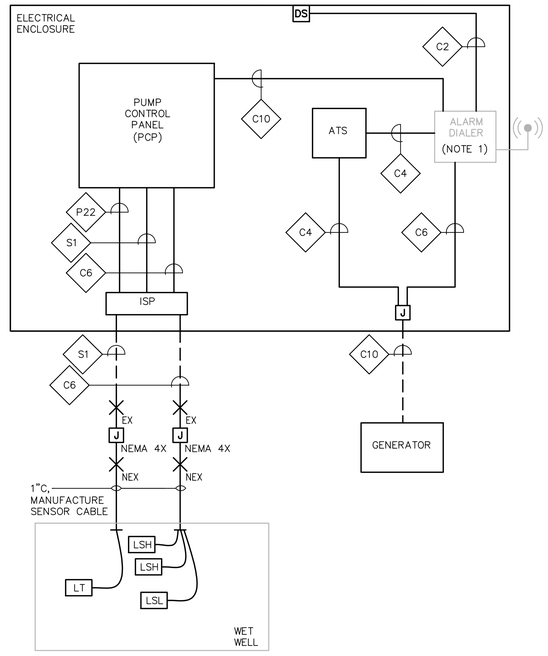
NOTES:

1. ALARM DIALER, ANTENNA, ANTENNA MOUNT, AND ANTENNA CABLE TO BE SALVAGED AND REINSTALLED IN NEW ELECTRICAL ENCLOSURE. REFER TO SPECIFICATION 13300 FOR DIALER INPUT SIGNALS.



DAVIS STREET DEMOLITION ONE LINE DIAGRAM

NOT TO SCALE



DAVIS STREET
CONTROL BLOCK DIAGRAM

NOT TO SCALE

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2023 Pump Station Improvements

Taunton, MA

TITLE

DAVIS STREET
PUMP STATION

Electrical
Demolition
One Line Diagram

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SCALE

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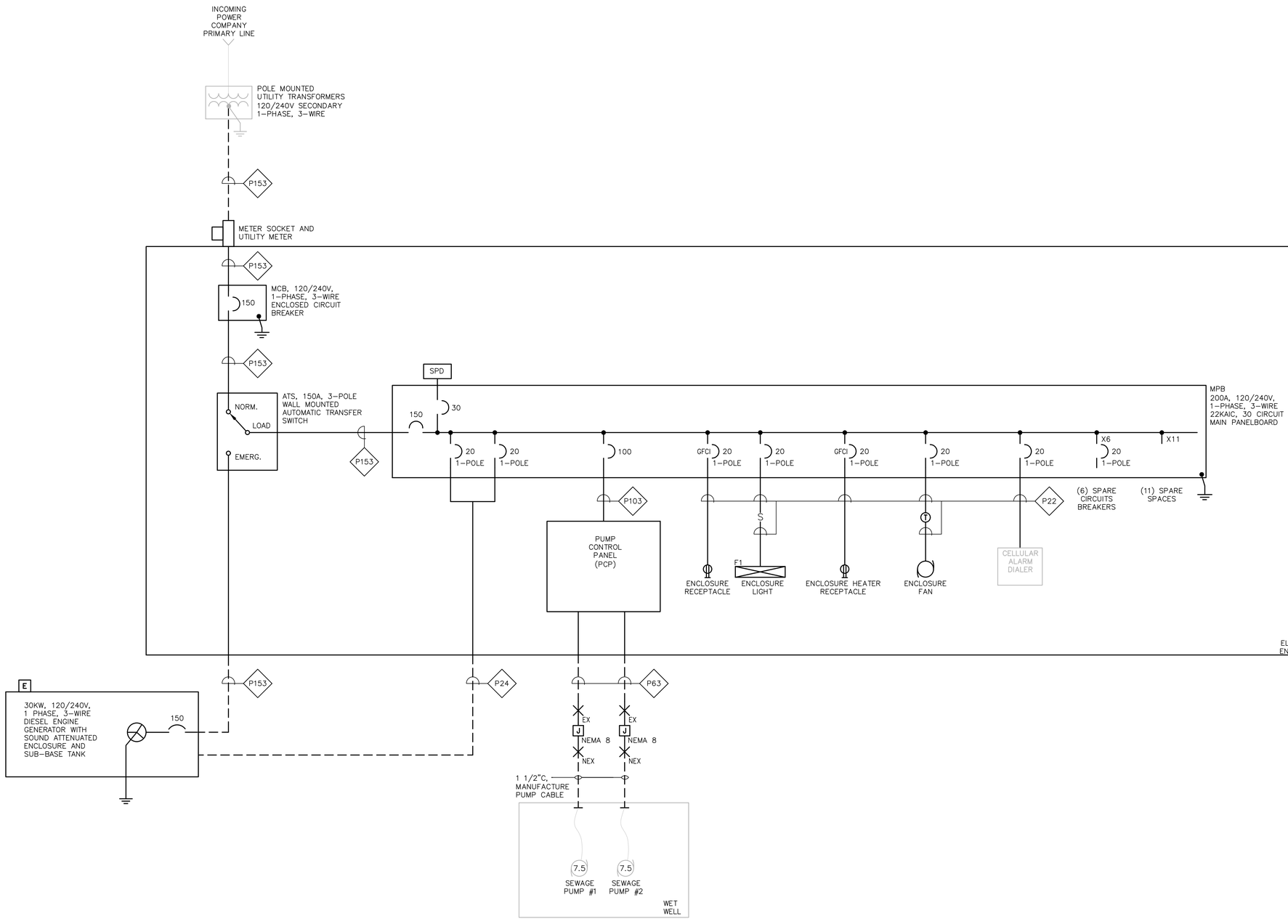
SHEET NO.

E-6.0



DAVIS STREET ONE LINE DIAGRAM

NOT TO SCALE

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2023 Pump Station Improvements

Taunton, MA

TITLE

DAVIS STREET
PUMP STATION

Electrical
One Line Diagram

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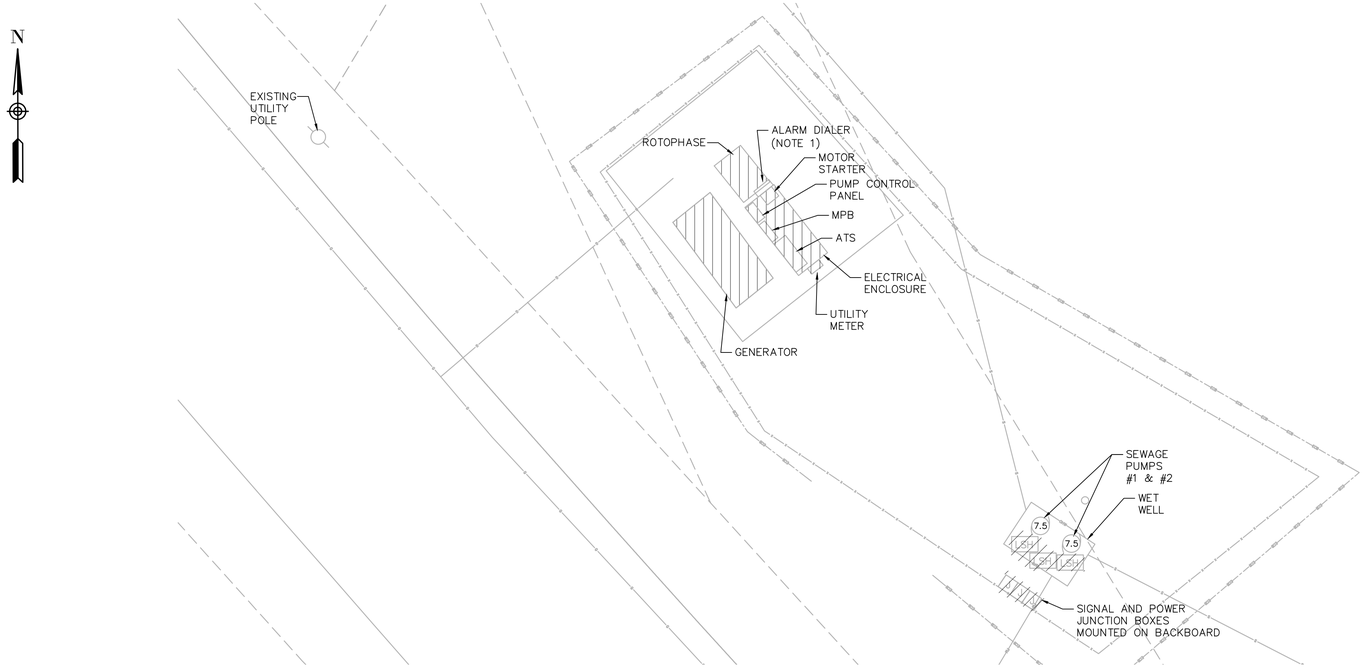
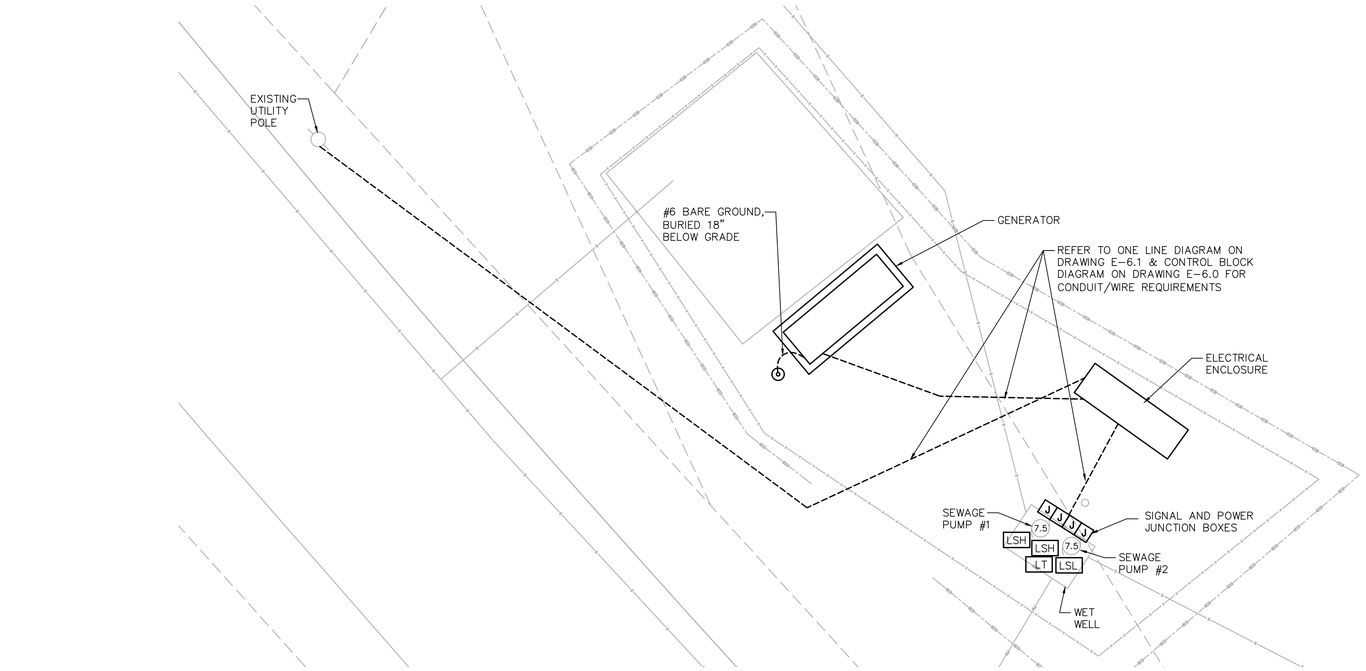


DAVIS STREET PUMP STATION
DEMOLITION PLAN
SCALE: 1" = 5'-0"

NOTES:

1. ALARM DIALER, ANTENNA, ANTENNA MOUNT, AND ANTENNA CABLE TO BE SALVAGED AND REINSTALLED IN NEW ELECTRICAL ENCLOSURE.



DAVIS STREET PUMP STATION
NEW WORK PLAN
SCALE: 1" = 5'-0"

PREPARED BY

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

DAVIS STREET
PUMP STATION

Electrical
Plan

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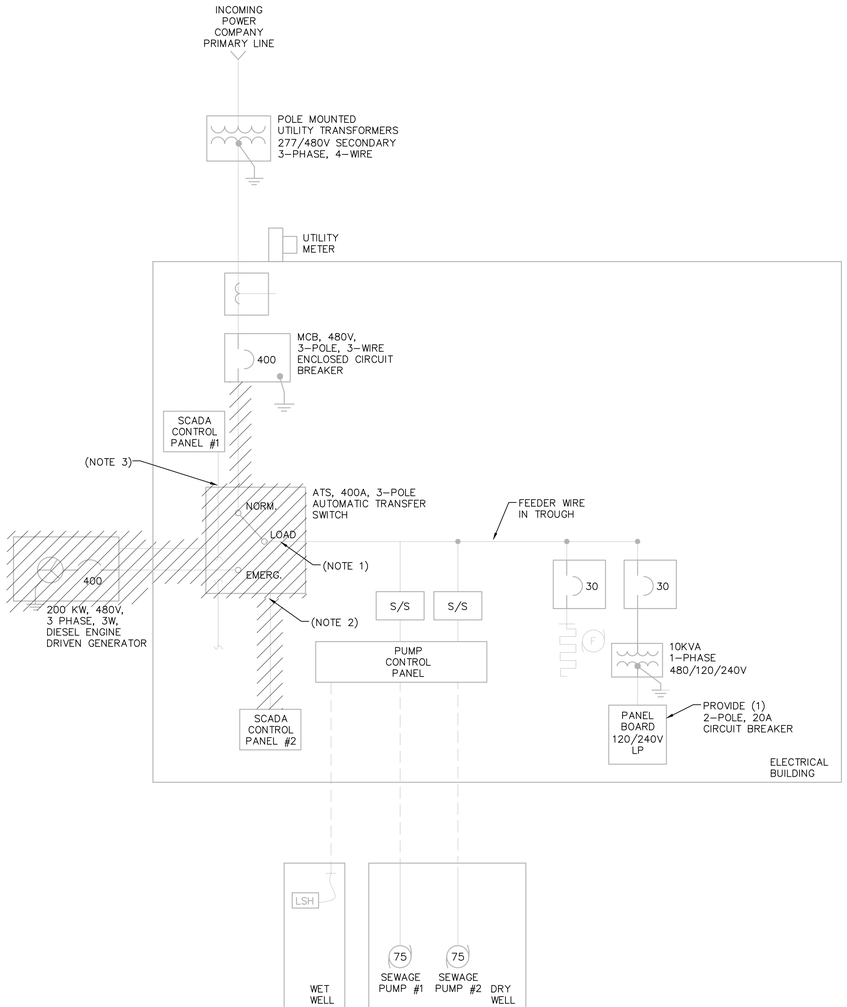
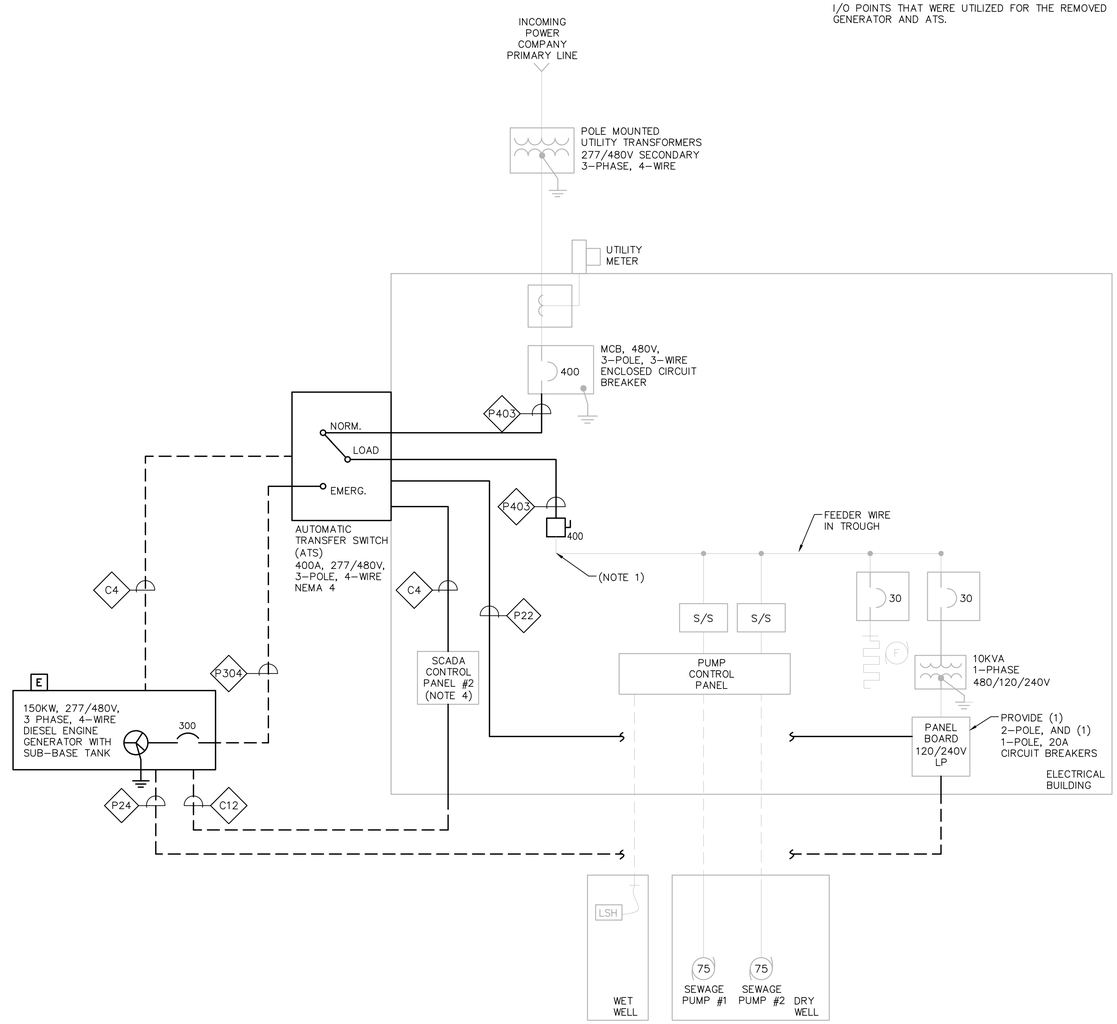


INDUSTRIAL PARK DEMOLITION ONE LINE DIAGRAM

NOT TO SCALE



INDUSTRIAL PARK ONE LINE DIAGRAM

NOT TO SCALE

NOTES:

1. DISCONNECT 400 AMP LOAD SIDE FEEDER WIRES AND RE-CONNECT INTO NEW DISCONNECT SWITCH WITH 4" NIPPLE.
2. REMOVE CONTROL WIRING TO SCADA PANEL #2.
3. DISCONNECT THE (2) TSP CABLES FROM SCADA PANEL #1 PULL BACK TO ELECTRICAL TROUGH BELOW ATS AND REMOVE FROM EXISTING ATS ENCLOSURE. RE-INSTALLED THE (2) TSP CABLES IN 3/4" FROM SCADA PANEL #1 TO ELECTRICAL TROUGH.
4. CONNECT GENERATOR AND ATS SIGNALS INTO EXISTING I/O POINTS THAT WERE UTILIZED FOR THE REMOVED GENERATOR AND ATS.

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PROJECT

2023 Pump Station Improvements

Taunton, MA

TITLE

INDUSTRIAL PARK PUMP STATION

Electrical
One Line Diagrams

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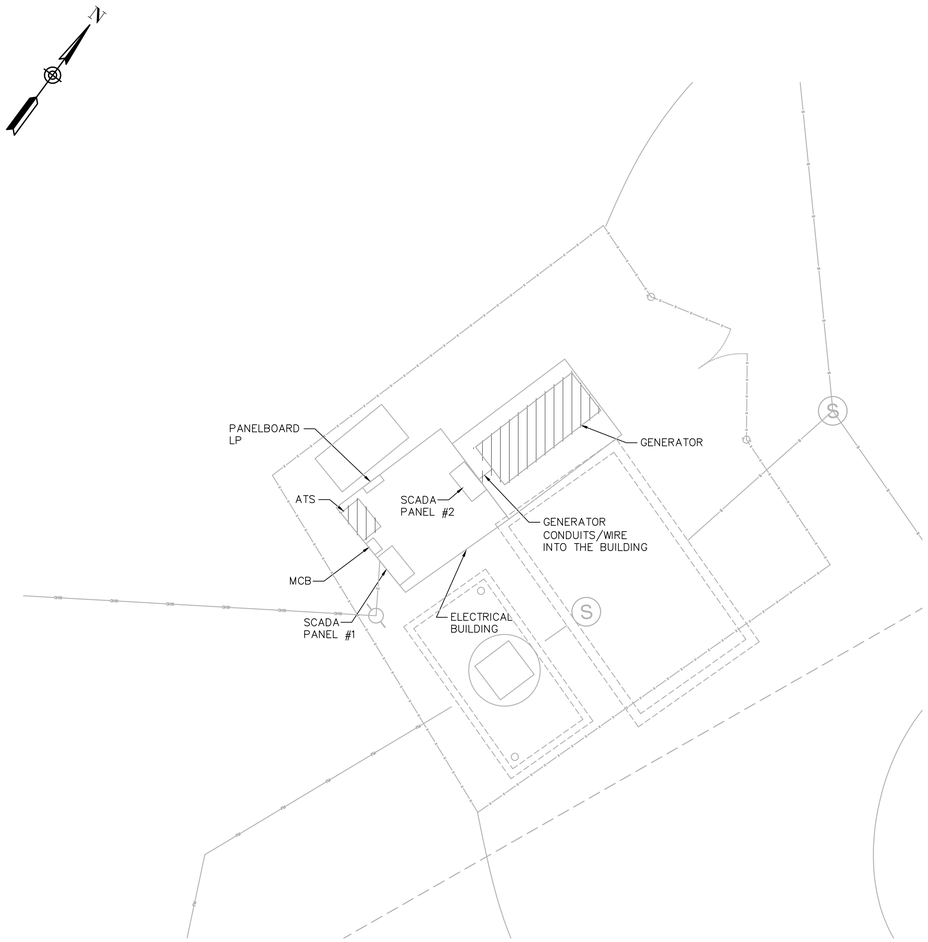
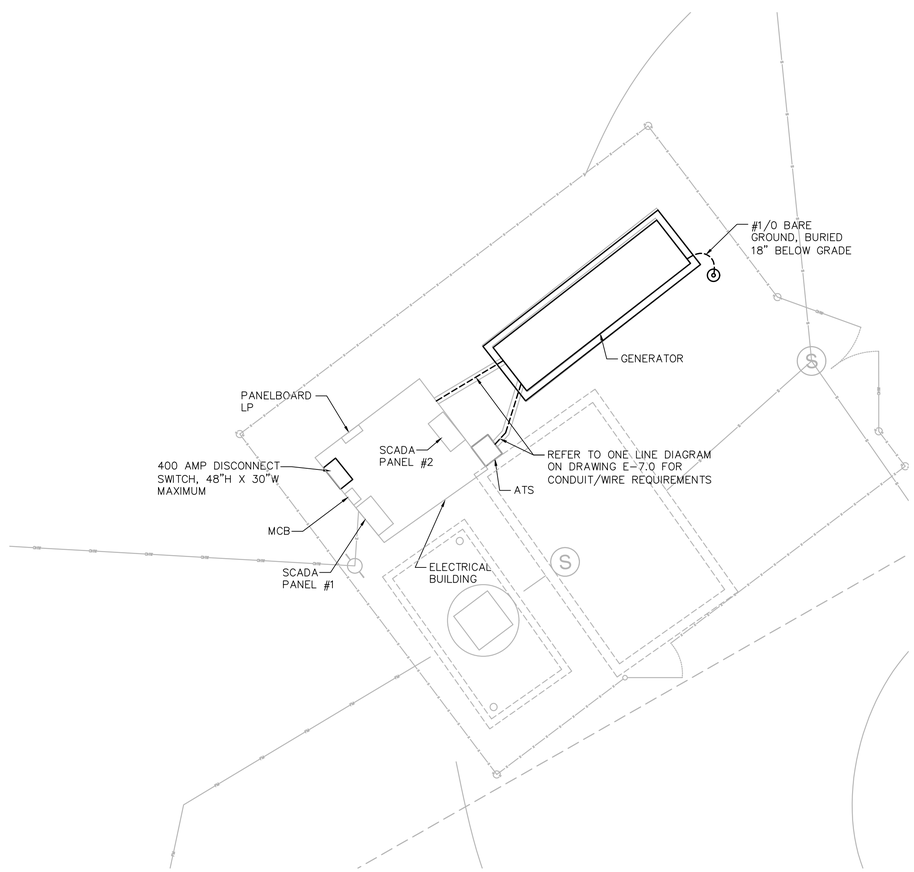
E-7.0



INDUSTRIAL PARK PUMP STATION
DEMOLITION PLAN
SCALE: 1" = 5'-0"



INDUSTRIAL PARK PUMP STATION
NEW WORK PLAN
SCALE: 1" = 5'-0"

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