

TOWN OF CLIFTON PARK WALL STREET PUMP STATION IMPROVEMENTS PROJECT CONTRACT NO. 1 - GENERAL CONSTRUCTION

TOWN BOARD

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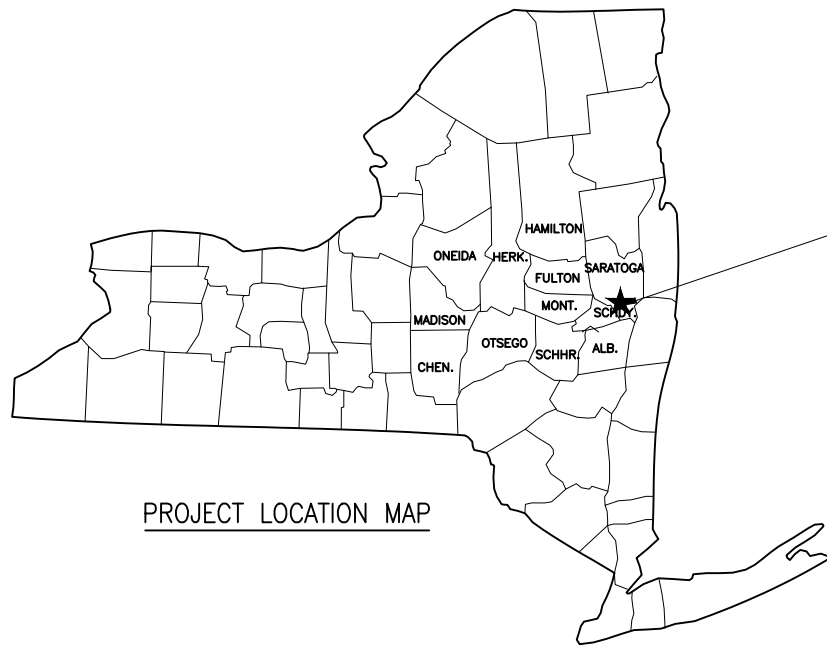
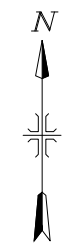
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BID ISSUE: OCTOBER 23, 2024



TOWN OF CLIFTON PARK
SARATOGA COUNTY



TOWN OF CLIFTON PARK WALL
STREET PUMP STATION MUFFIN
MONSTER PROJECT LOCATION

GENERAL CONTRACT DRAWING NOTES:

1. PROJECT SITE PLANS ARE BASED ON PREVIOUS PLANS PROVIDED BY PRIME AE GROUP OF NY.
2. CONTRACTOR MUST COORDINATE WORK WITH SEWER DEPARTMENT AND MINIMIZE INCONVENIENCES. CONTRACTOR IS TO TAKE MEASURES TO PROTECT SYSTEMS FROM DAMAGE DUE TO WORK OF THIS PROJECT.
3. CONTRACTOR SHALL LOCATE ALL MAINS, ETC. FOR SEWER SYSTEM AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO THE SYSTEM AND ITS APPURTENANCES RESULTING FROM THE CONTRACTORS WORK AT NO COST TO OWNER.
4. CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK PRIOR TO COMMENCING WORK TO DETERMINE LOCATIONS OF UNDERGROUND UTILITIES. EXISTING UTILITIES ARE SHOWN IN THEIR RELATIVE POSITIONS AND ARE FOR INFORMATION ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY DAMAGE TO FACILITIES RESULTING FROM THE CONTRACTORS WORK AT NO COST TO OWNER.
5. ALL PRECAUTIONS SHALL BE TAKEN TO PROTECT THE ENVIRONMENT IN ACCORDANCE WITH STATE, FEDERAL AND LOCAL REGULATIONS AND AS SPECIFIED IN THE CONTRACT DOCUMENTS.
6. CONTRACTOR SHALL RESTORE ALL LAWNS, DRIVEWAYS, ROADS, SHOULDERS, FENCES, ETC. TO A CONDITION AT LEAST AS GOOD AS THEY WERE PRIOR TO CONSTRUCTION. DAMAGE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
7. NO WORK, STORAGE OR TRESPASS SHALL BE PERMITTED BEYOND THE BOUNDARIES OF OWNER'S EASEMENTS OR PROPERTY.
8. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL, DUST CONTROL, AND PROTECTION OF PUBLIC FROM HAZARDS ASSOCIATED WITH THIS WORK DURING WORKING AND NON-WORKING HOURS.
9. CONTRACTOR SHALL SUPPORT ALL UTILITIES & STRUCTURES WHERE NECESSARY DUE TO WORK OF THIS CONTRACT.
10. EXTENT OF WORK IS INDICATED ON CONTRACT DRAWINGS AND SPECIFICATIONS. EACH CONTRACTOR IS RESPONSIBLE TO REVIEW EXTENT OF WORK BY OTHERS AND COORDINATE THEIR OWN WORK WITH WORK BY OTHER CONTRACTORS.
11. CONTRACTOR SHALL USE TRACK MATS OR RUBBER TIRES FOR CONSTRUCTION VEHICLES.

DRAWING INDEX		
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C2	EROSION CONTROL DETAILS	23319-205
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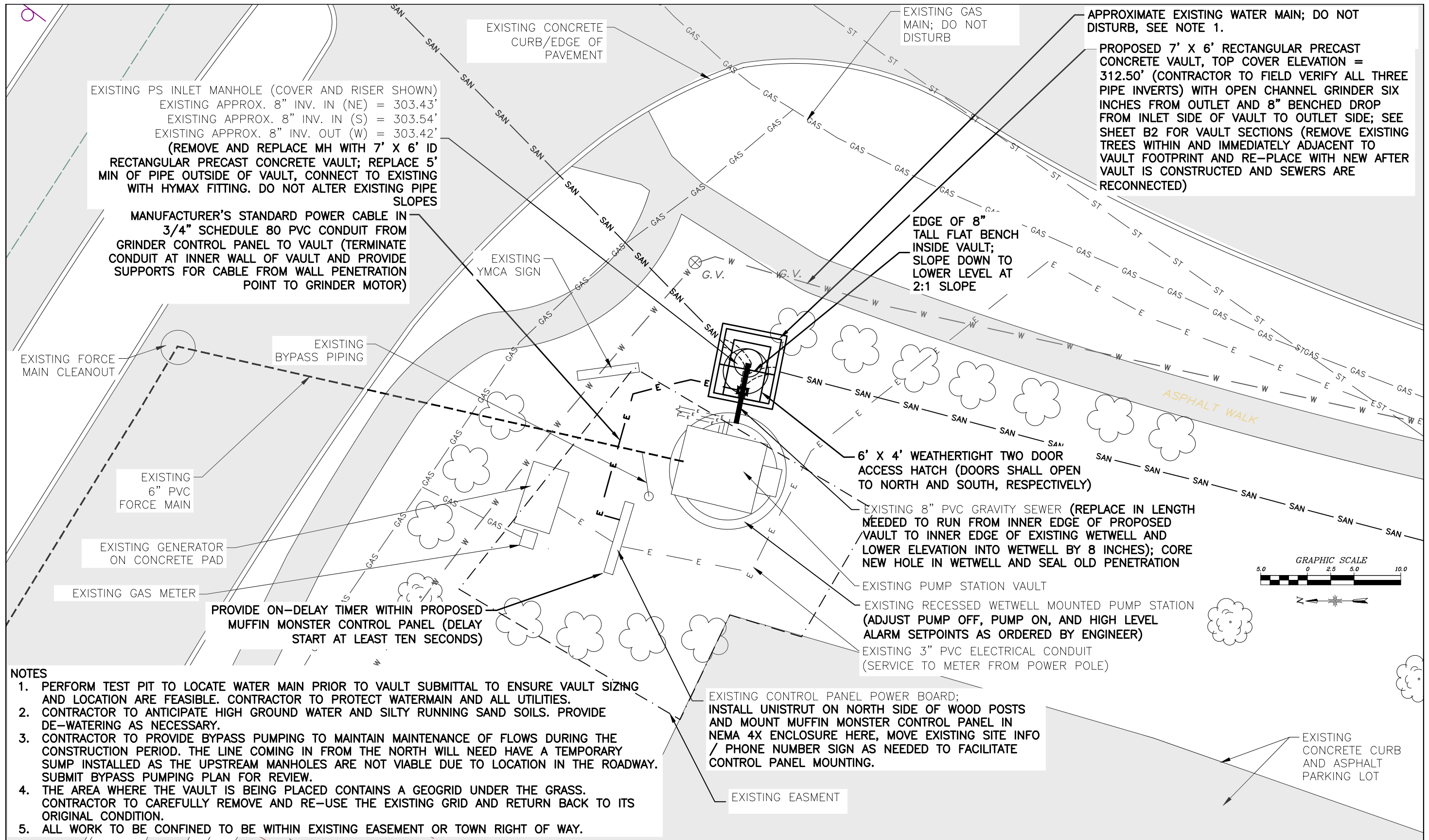
**WALL STREET PUMP STATION
IMPROVEMENTS PROJECT**

CONTRACT NO. 1 - GENERAL CONSTRUCTION

SHEET TITLE:

INDEX AND LOCATION

SCALE: AS SHOWN	A2
FILE NO.: 23319-010	
DATE: OCTOBER 2024	



- NOTES**
1. PERFORM TEST PIT TO LOCATE WATER MAIN PRIOR TO VAULT SUBMITTAL TO ENSURE VAULT SIZING AND LOCATION ARE FEASIBLE. CONTRACTOR TO PROTECT WATERMAIN AND ALL UTILITIES.
 2. CONTRACTOR TO ANTICIPATE HIGH GROUND WATER AND SILTY RUNNING SAND SOILS. PROVIDE DE-WATERING AS NECESSARY.
 3. CONTRACTOR TO PROVIDE BYPASS PUMPING TO MAINTAIN MAINTENANCE OF FLOWS DURING THE CONSTRUCTION PERIOD. THE LINE COMING IN FROM THE NORTH WILL NEED HAVE A TEMPORARY SUMP INSTALLED AS THE UPSTREAM MANHOLES ARE NOT VIABLE DUE TO LOCATION IN THE ROADWAY. SUBMIT BYPASS PUMPING PLAN FOR REVIEW.
 4. THE AREA WHERE THE VAULT IS BEING PLACED CONTAINS A GEOGRID UNDER THE GRASS. CONTRACTOR TO CAREFULLY REMOVE AND RE-USE THE EXISTING GRID AND RETURN BACK TO ITS ORIGINAL CONDITION.
 5. ALL WORK TO BE CONFINED TO BE WITHIN EXISTING EASEMENT OR TOWN RIGHT OF WAY.

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WALL STREET PUMP STATION
 IMPROVEMENTS PROJECT

CONTRACT NO. 1 - GENERAL CONSTRUCTION

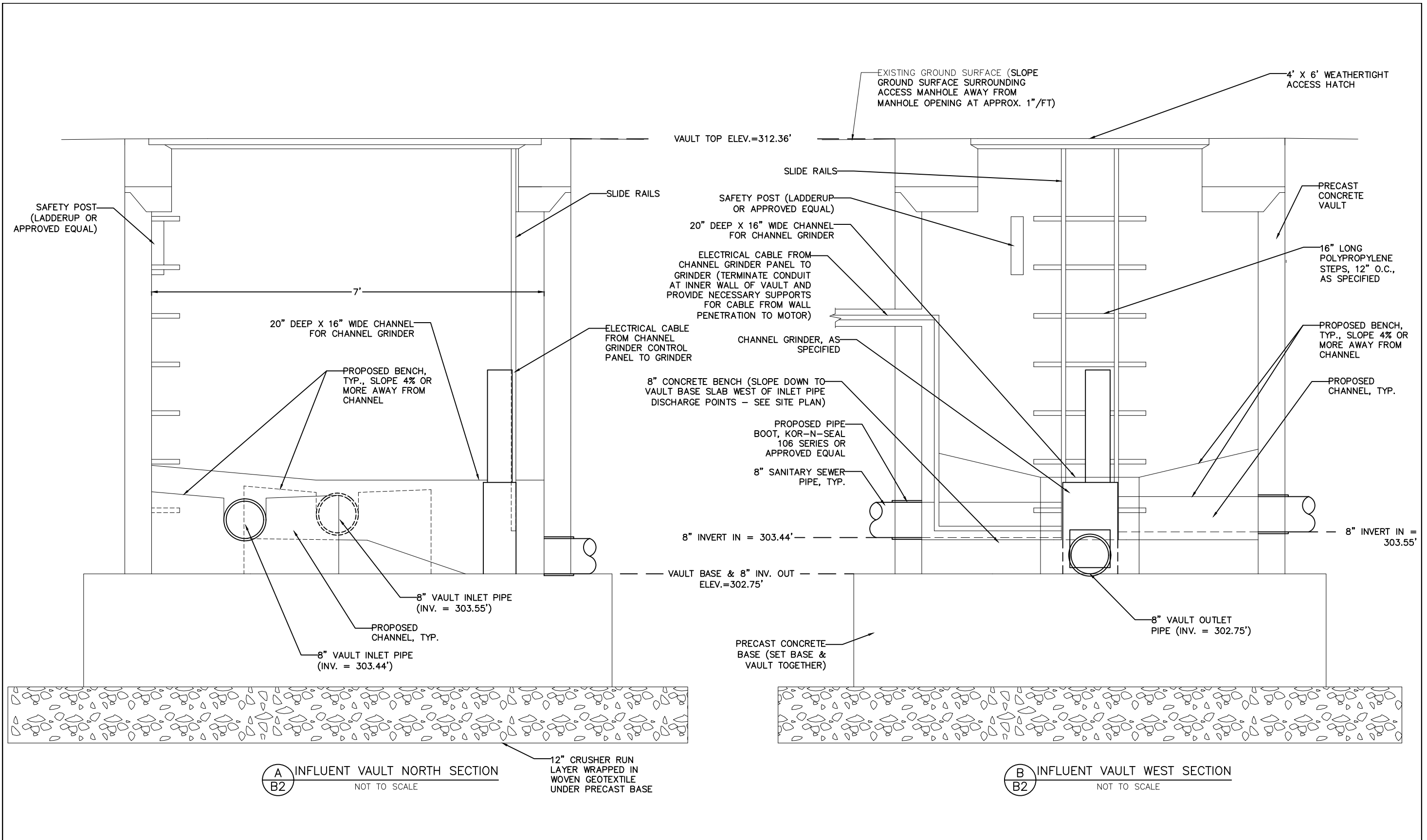
SHEET TITLE:
PUMP STATION SITE PLAN

SCALE:
 AS SHOWN

FILE NO.:
 23319-100

DATE:
 OCTOBER 2024

SHEET NO.:
B1



A INFLUENT VAULT NORTH SECTION
B2 NOT TO SCALE

B INFLUENT VAULT WEST SECTION
B2 NOT TO SCALE

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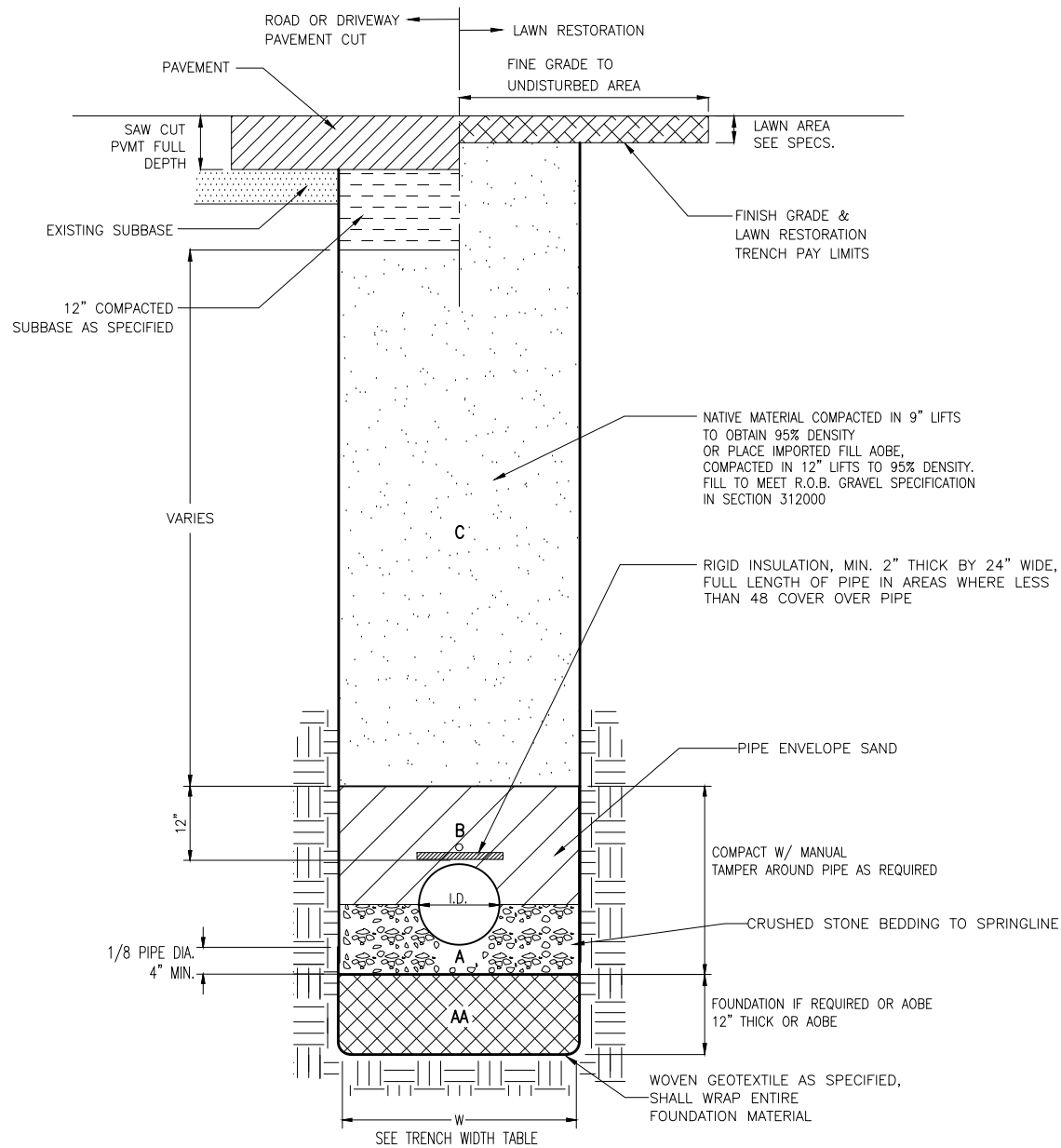
PUMP STATION
 INFLUENT VAULT SECTIONS

SCALE:
 AS SHOWN

FILE NO.:
 23319-105

DATE:
 OCTOBER 2024

SHEET NO.:
B2



AA PIPE FOUNDATION MATERIAL AS REQUIRED OR AOB.

A CRUSHED STONE BEDDING (SIZE 1 & 2 MIX) WILL BE USED 4" MIN. OR AOB BELOW PIPE TO SPRINGLINE.

B BEDDING SAND: SELECT COMPACTED BACKFILL, AS REQUIRED BY SPECIFICATIONS.

C NATIVE SOIL BACKFILLED IN AREAS TO TOP OF SUBGRADE. IF ENGINEER DETERMINES MATERIAL IS NOT SUITABLE, INSTALL IMPORTED R.O.B. AS PER SPECIFICATIONS.

TRENCH WIDTH TABLE	
PIPE SIZE I.D. - IN	MAX. TRENCH WIDTH ALLOWED MAX. PAY LIMITS = I.D. + 24"
4	28
6	30
8	32
10	34
12	36
16	40
18	42
20	44
24	48
36	60

NOTES:

1. MAXIMUM PAYMENT LIMIT FOR TOPSOIL, FERTILIZER & SEEDING IN EASEMENT AREAS IS EASEMENT BOUNDARY. ALL OTHER AREAS LIMIT IS 24" WIDER THAN TRENCH.
2. ALL EXCAVATION, INCLUDING REMOVAL OF PAVEMENT TO BE PAID UNDER, UNCLASSIFIED EXCAVATION.
3. ALL EXCAVATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH ALL OSHA SAFETY STANDARDS. SHORE, SHIELD, OR SLOPE TRENCHES DEEPER THAN FIVE FEET TO PREVENT CAVE-INS.
4. OVER EXCAVATION & PLACEMENT OF STONE SUMPS FOR DEWATERING PURPOSES ARE TO BE INCLUDED IN THE BASE BID FOR THE PIPE & WILL NOT BE PAID FOR UNDER ANY OTHER BID ITEMS.
5. ALL TRENCH EXCAVATION & BACKFILL WILL BE PAID FOR NEAT PAY LIMITS ONLY FOR THE ENTIRE PROJECT.

A
C1 TYPICAL TRENCH DETAIL
NOT TO SCALE

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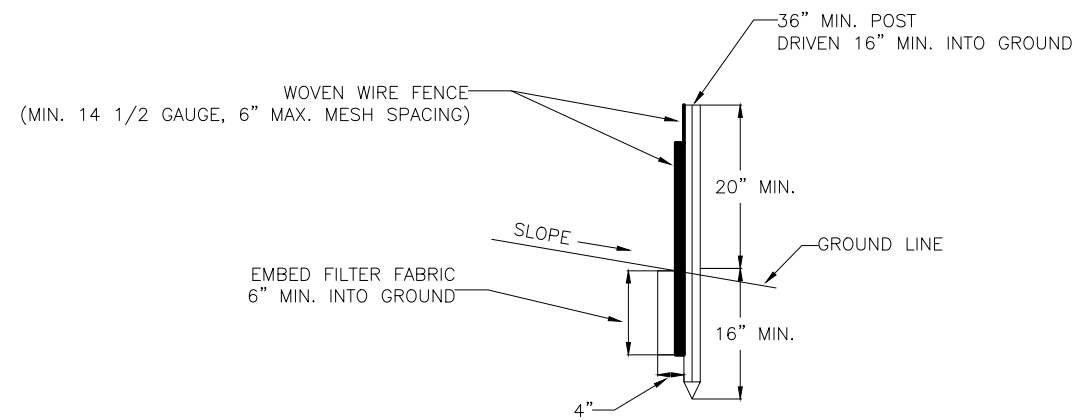
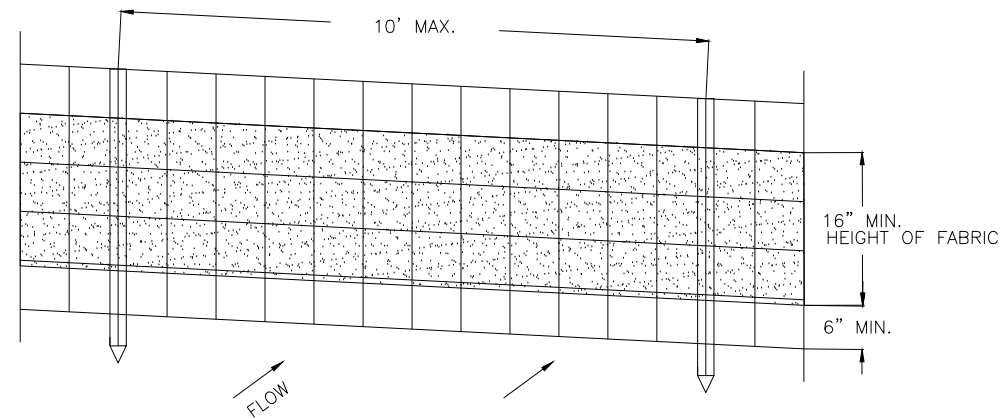
**WALL STREET PUMP STATION
IMPROVEMENTS PROJECT**

CONTRACT NO. 1 - GENERAL CONSTRUCTION

SHEET TITLE:

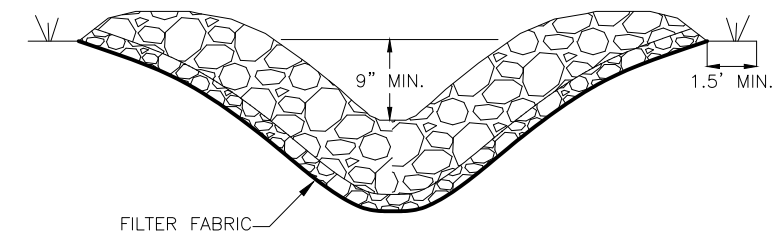
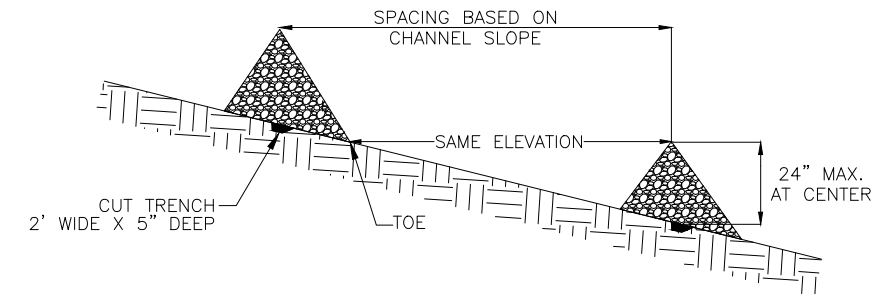
TYPICAL TRENCH DETAIL

SCALE: AS SHOWN	C1
FILE NO.: 23319-200	
DATE: OCTOBER 2024	



NOTE: USE SILT FENCES WHERE INDICATED ON PLANS AND STREAM CROSSING DETAIL.

A
C2 **SILT FENCE DETAILS**
NOT TO SCALE



NOTE: USE TEMPORARY CHECK DAMS IN ALL CONSTRUCTED CHANNELS/SWALES IN WHICH PLANTED VEGETATION HAS NOT YET GROWN IN.

B
C2 **CHECK DAM DETAILS**
NOT TO SCALE

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**WALL STREET PUMP STATION
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CONTRACT NO. 1 - GENERAL CONSTRUCTION

SHEET TITLE:

EROSION CONTROL DETAILS

SCALE: AS SHOWN

FILE NO.: 23319-205

DATE: OCTOBER 2024

SHEET NO.: **C2**

EXISTING POWER POLE & POLE MOUNTED TRANSFORMER, BY UTILITY COMPANY, 120/208V, THREE PHASE, 4-WIRE

EXISTING UNDERGROUND FEED

EXISTING ELECTRIC METER

METER

EXISTING MAIN DISCONNECT SWITCH

EXISTING MAIN SERVICE PANEL

100A MAIN BREAKER, 120/208V, 60 HZ, 3-PHASE, 4-WIRE, 30 SPACE PANEL

CIRC. NO.	BREAKER AMPS	LOAD SERVED
1		
3	30	EXISTING TVSS (3-PHASE CIRCUIT)
5		
2	30	EXISTING GEN POWER
4	20	EXISTING PANEL GFCI
6	20	EXISTING LIGHT
7	30	EXISTING SPARE
8	20	EXISTING SPARE
9		
11	30	PROPOSED CHANNEL GRINDER
13		
10		EXISTING SPACE (TO REMAIN)
12		EXISTING SPACE (TO REMAIN)
14-30		EXISTING SPACES (TO REMAIN)

EXISTING MISSION CONTROLS PANEL INPUTS
 PUMP 1 RUN
 PUMP 2 RUN
 GENERATOR RUN
 GENERATOR FAULT
 PUMP 1 FAULT
 PUMP 2 FAULT
 WET WET LEVEL HIGH
 STATION FLOOD **REPLACE WITH CHANNEL GRINDER FAULT ALARM**

B PANEL SCHEDULE
 C3 NOT TO SCALE

EXISTING TVSS

EXISTING PUMP STATION PANEL
 100 AMP MAIN BREAKER
 120/208 VAC
 3 PHASE, 4-WIRE

EXISTING CIRCUITS

EXISTING ATS

35 KW

EXISTING GENERATOR POWER CIRCUIT

EXISTING EMERGENCY-RATED 35 KW DIESEL GENERATOR

EXISTING MISSION COMMUNICATIONS PANEL

PROPOSED CIRCUIT TO CHANNEL GRINDER CONTROL PANEL
 (3/C#10, #10 G IN 3/4" GRC CONDUIT)

MANUFACTURER'S STANDARD POWER CABLE IN 3/4" GRC CONDUIT

PROPOSED CHANNEL GRINDER MOTOR

5HP

VENTED, WEATHERPROOF WIREWAY
 (PLACE SEAL-OFF IN BETWEEN WIREWAY AND CONTROL PANEL)

PROPOSED CONTROL SIGNAL FROM CHANNEL GRINDER PANEL TO MISSION PANEL (1/C#14 IN 3/4" GRC CONDUIT)

PROPOSED CHANNEL GRINDER CONTROL PANEL

PROPOSED CIRCUIT TO CHANNEL GRINDER MOTOR
 (3/C#10, #10 G IN 3/4" GRC CONDUIT)

A PUMP STATION ONE LINE DIAGRAM
 C3 NOT TO SCALE

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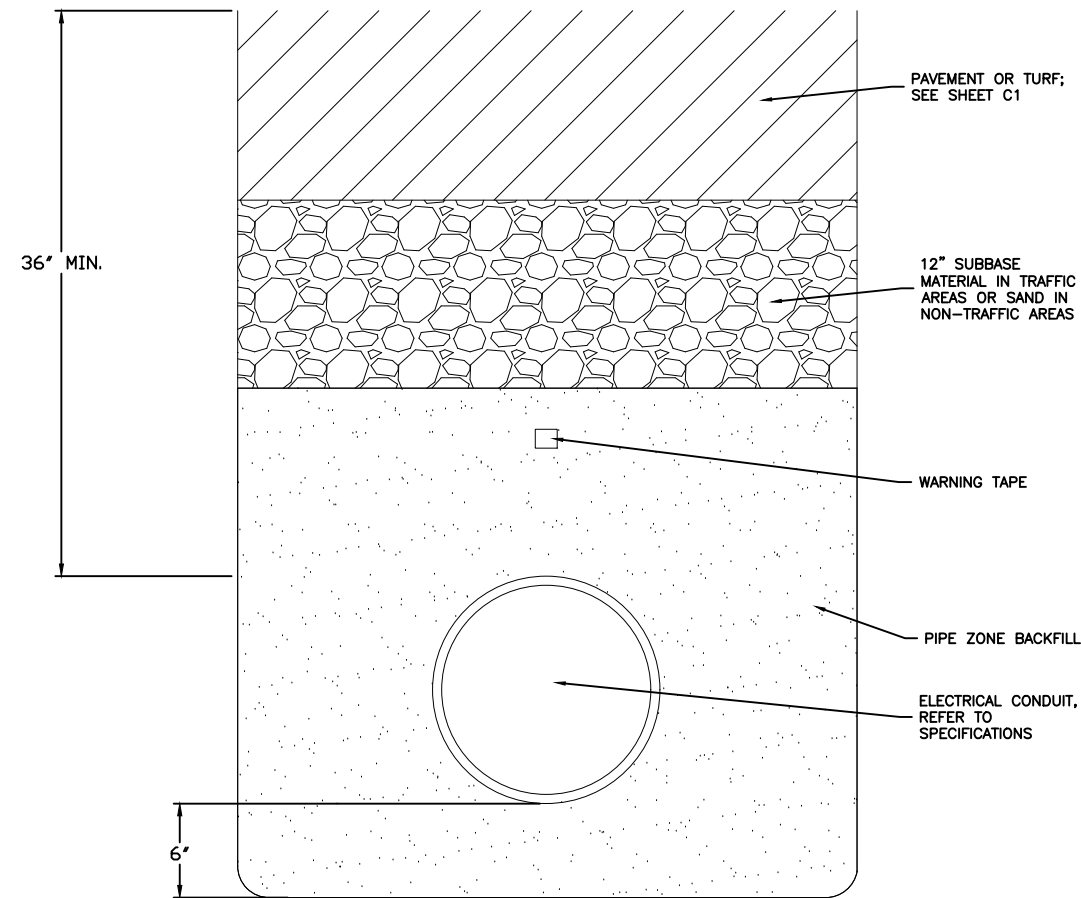
SHEET TITLE:
 ONE-LINE & PANEL SCHEDULE

SCALE: AS SHOWN

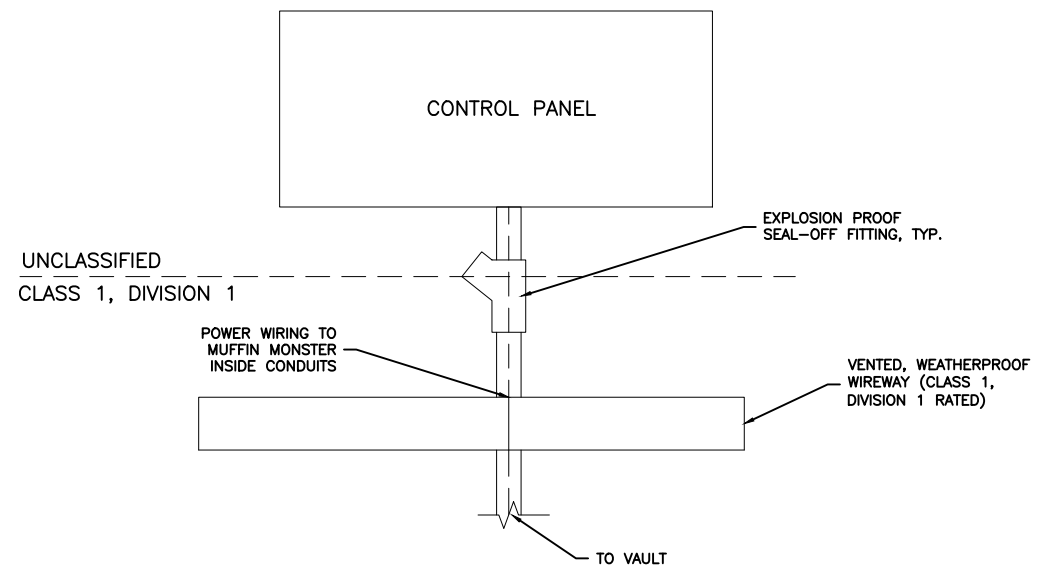
FILE NO.: 23319-210

DATE: OCTOBER 2024

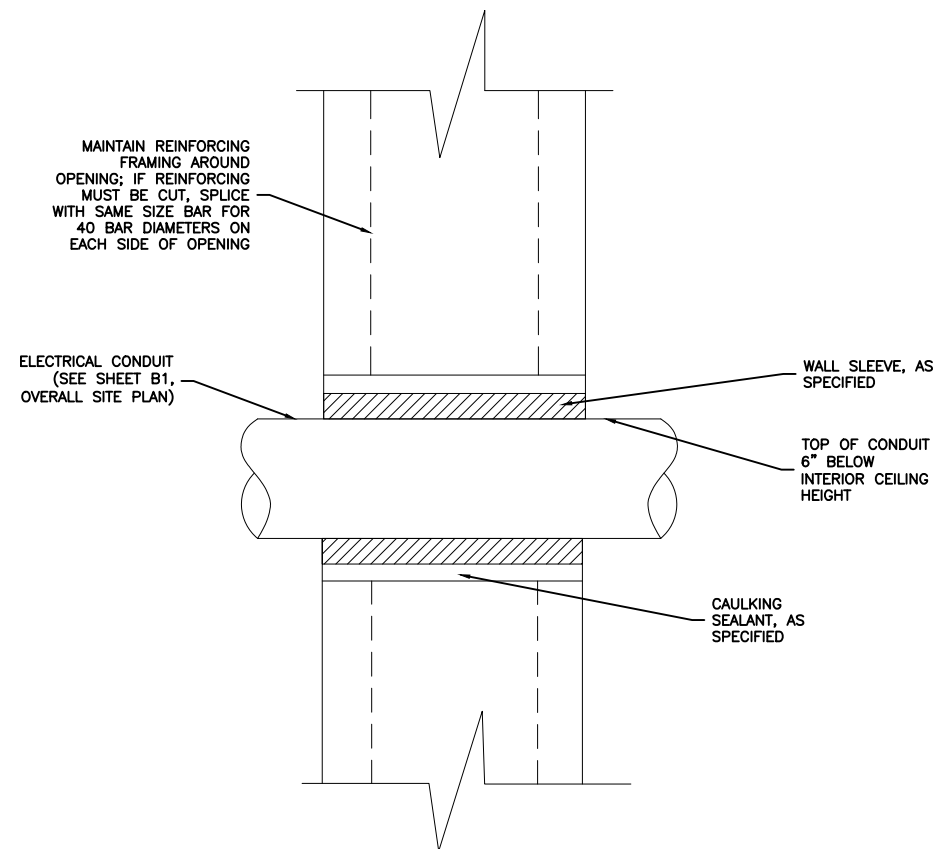
SHEET NO.: **C3**



A BURIED ELECTRICAL CONDUIT DETAIL
C4 NOT TO SCALE



B CONTROL PANEL CONNECTION DETAIL
C4 NOT TO SCALE



C ELECTRICAL SLEEVE WALL PENETRATION DETAIL
C4 NOT TO SCALE

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SHEET TITLE:

ELECTRICAL DETAILS

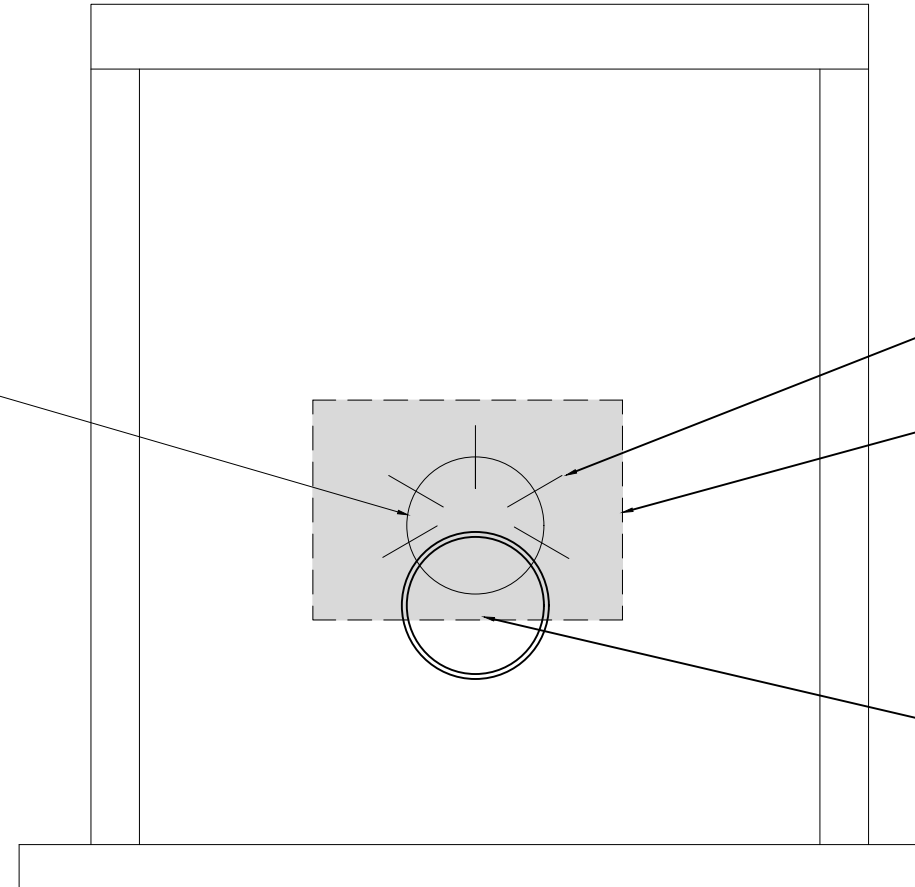
SCALE: AS SHOWN

FILE NO.: 23319-215

DATE: OCTOBER 2024

SHEET NO.: **C4**

EXISTING OPENING FOR PUMP STATION INLET PIPE,
INVERT = 303.28' (REMOVE EXISTING PIPE AND FILL
REMAINING OPENING WITH NON-SHRINK GROUT AND
SEAL WITH EPOXY SEALANT AFTER INSTALLATION OF
NEW PIPE AND BOOT)



EMBED 8" LONG #4 REBAR DOWELS INTO EXISTING
HOLE PRIOR TO NON-SHRINK GROUT

SEAL OUTSIDE OF REPAIR WITH LIQUID BUTYL
RUBBER SEALANT

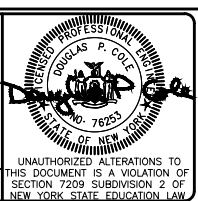
CORE NEW 12" OPENING FOR PUMP STATION INLET
PIPE, LINE OPENING WITH EPOXY SEALANT, INSTALL
NEW 8" PIPE (INVERT = 302.75') AND PIPE BOOT,
AND USE NON-SHRINK GROUT TO FILL SPACE
BETWEEN BOOT AND EDGE OF CORED HOLE

A PUMP STATION VAULT CORING/REPAIR DETAIL
C5 NOT TO SCALE

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SHEET TITLE:

PUMP STATION VAULT
CORING/REPAIR DETAIL

SCALE: AS SHOWN

FILE NO.: 23319-220

DATE: OCTOBER 2024

SHEET NO.: **C5**