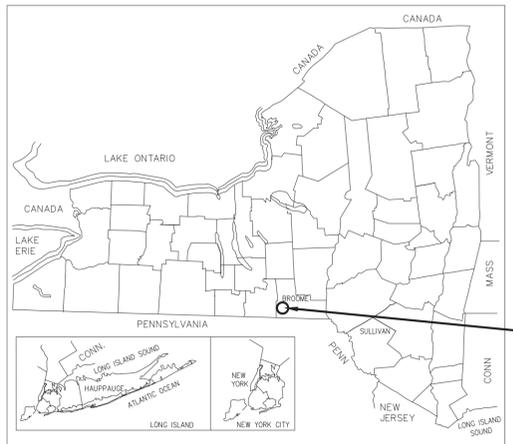


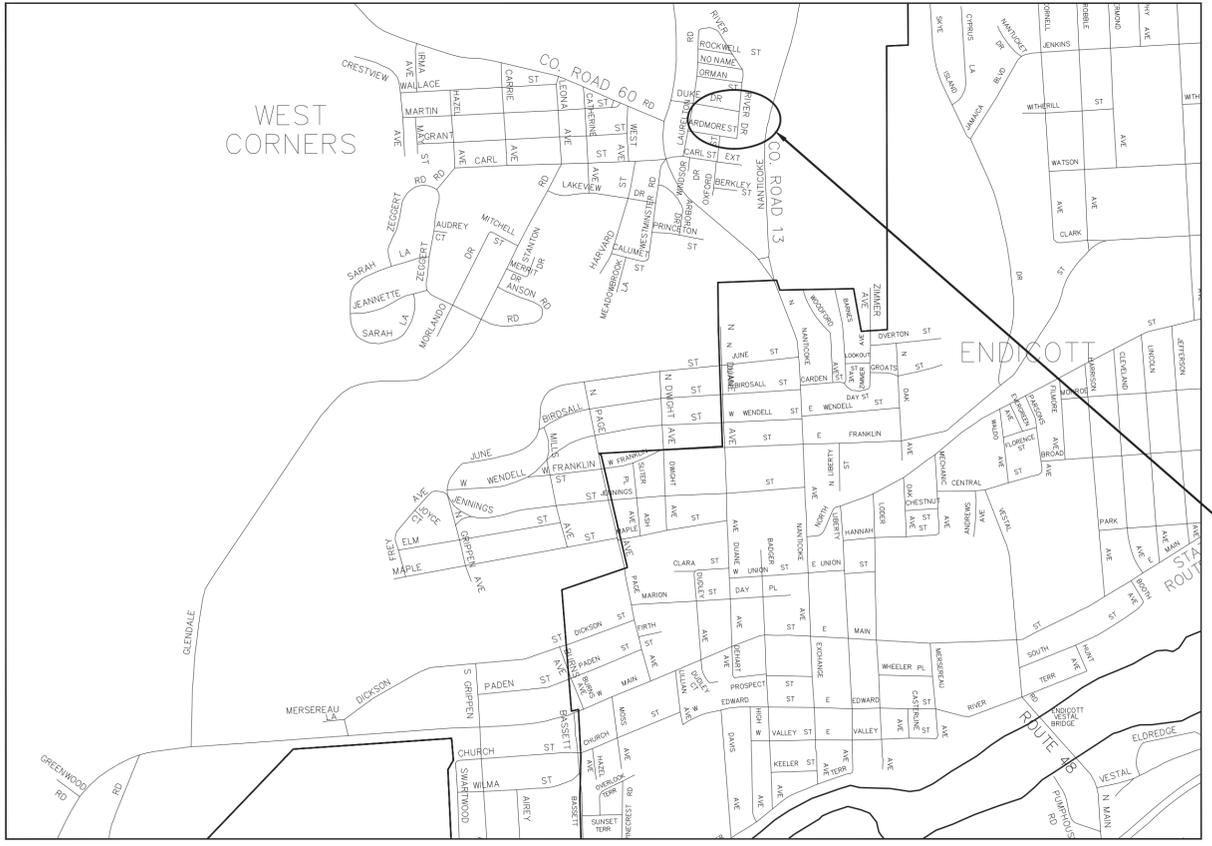
# TOWN OF UNION WEST CORNERS SANITARY PUMP STATION



PROJECT LOCATION

## PROJECT NO. 20044 FEBRUARY 2022

INDEX OF DRAWINGS		
SHEET NO.	TITLE	DRAWING NO.
1	COVER	G-001
2	GENERAL NOTES AND BENCHMARKS	G-002
3	WZTC DETOUR PLAN	G-003
4	DEMOLITION PLAN	D-100
5	GENERAL PLAN	C-100
6	UTILITY PROFILES	C-300
7	SITE AND EROSION AND SEDIMENT CONTROL DETAILS	C-500
8	SANITARY SEWER DETAILS	C-501
9	PUMP STATION DETAILS	C-502
10	CONTROL PANEL PLATFORM	S100
11	CONTROL PANEL PLATFORM	S200
12	CONTROL PANEL PLATFORM	S300
13	CONTROL PANEL PLATFORM	S400
14	CONTROL PANEL PLATFORM	S401
15	CONTROL PANEL PLATFORM	S600
16	ELECTRICAL NOTES AND DETAILS	E1.0



PROJECT LOCATION

LOCATION MAP



143 COURT STREET  
BINGHAMTON, NY 13901  
(607) 798-8081  
www.shumakerengineering.com



**WARNING:**  
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS**  
**SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	WRL
DRAWN BY:	AWR
CHECKED BY:	JMC
DATE:	FEBRUARY 2022
SHEET TITLE:	

COVER

DRAWING NUMBER:  
**G-001**

**NOTES:**

- UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLACED ON THESE DRAWINGS FROM FIELD LOCATIONS, WHERE VISIBLE OR FROM RECORD DRAWINGS PROVIDED. THEREFORE, LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES OR UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN. FOR THIS REASON, "DIG SAFELY N.Y." SHALL BE CONTACTED A MINIMUM OF 48 HOURS PRIOR TO ANY UNDERGROUND EXCAVATION. ALL UTILITY LOCATIONS ARE QUALITY LEVEL C (QLC).
- EXISTING PAVEMENTS ARE BITUMINOUS SURFACE UNLESS OTHERWISE NOTED ON THE PLANS.
- EXCAVATION AND BACKFILL FOR UTILITY LOCATION INVESTIGATION, AS SHOWN ON THE PLANS OR AS ORDERED BY THE ENGINEER, IN ADVANCE OF ACTUAL PIPE LAYING WILL BE CONSIDERED INCIDENTAL TO THE OVERALL COST OF THE PROJECT.
- IN ORDER TO PREVENT UPLIFT, THE CONTRACTOR SHALL KEEP ALL TRENCHES AND STRUCTURE EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION UNTIL BACKFILL IS IN PLACE.
- THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH ANY LOCAL PERMITS.
- WORK ZONE TRAFFIC CONTROL PLAN SHALL BE COMPILED WITH THROUGHOUT THE DURATION OF THE CONTRACT. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- THROUGHOUT THE TERM OF THIS CONTRACT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO THE REQUIREMENTS OF THE U.S. DEPARTMENT OF LABOR'S SAFETY AND HEALTH REGULATIONS ISSUED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, INCLUDING ANY ADDENDA ISSUED FOR EACH. SPECIAL CARE SHALL BE EXERCISED TO MINIMIZE DAMAGE TO ANY TREES OR SHRUBS OR LANDSCAPING LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT.
- ANY DAMAGE THAT OCCURS FROM THE CONTRACTORS OPERATIONS SHALL BE REPAIRED/REPLACED TO THE APPROVAL OF THE OWNER AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED SURFACES TO ORIGINAL CONDITION.
- VERIFY THE EXISTENCE, SIZE, LOCATION AND ELEVATION OF EXISTING UTILITIES (INCLUDING BUT NOT LIMITED TO STORM DRAINS, SANITARY LINES, WATER LINES, GAS LINES, ELECTRIC LINES, TELEPHONE LINES, AND COMMUNICATION DUCTS, AND ALL MANHOLES, INLETS, CLEAN-OUTS, VALVES, HANDHOLES, ETC. WITHIN THE LIMIT OF CONTRACT IN ORDER TO (1) AVOID DAMAGING OR DISRUPTING SERVICE AND (2) TO COORDINATE AND FACILITATE CONSTRUCTION OF PROPOSED UTILITIES AND OTHER IMPROVEMENTS. UNDERGROUND FACILITIES SHALL BE VERIFIED AS TO LOCATION AND DEPTH PRIOR TO EXCAVATING. EXISTING UTILITY INVERTS SHALL BE FIELD VERIFIED PRIOR TO ORDERING STRUCTURES.
- UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MATERIALS AND LABOR FOR CONSTRUCTION, SURVEY AND STAKE OUT OF PROPOSED IMPROVEMENTS. UNLESS OTHERWISE NOTED, ITEMS TO BE REMOVED THAT ARE NOT STOCKPILED FOR LATER REUSE ON THE PROJECT OR DELIVERED TO THE OWNER AND ALL EXCESS EXCAVATED MATERIAL SHALL BECOME TO THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE IN A LAWFUL MANNER.
- LOCATION FOR CONTRACTORS STAGING AREA (TRAILER, STORAGE, OR STOCKPILE AREAS) SHALL BE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH THE ENGINEER. ALL AREAS USED FOR STAGING AND STOCKPILES SHALL BE ENCIRCLED WITH SILT FENCE AND SHALL BE RESTORED TO EXISTING CONDITIONS AT THE CONCLUSION OF CONSTRUCTION.
- ANY DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER FOR CLARIFICATION AND RESOLUTION PRIOR TO BIDDING.
- THRUST BLOCKS AND RETAINER GLANDS ARE REQUIRED AT ALL BENDS AND FITTINGS. REFER TO DWG NO. C-500 FOR MORE INFORMATION. COST FOR THRUST BLOCKS AND RETAINER GLANDS SHALL BE INCLUDED IN PRICE BID FOR PIPE ITEMS.
- CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAR OF ALL DEBRIS AND SEDIMENT AND SHALL CLEAN ROADWAYS AT THE END OF EACH WORK DAY IF NECESSARY. COST OF CLEANING SHALL BE INCLUDED IN PRICE BID FOR ITEM 619.01.
- ALL FIRE HYDRANTS, WATER VALVES, MANHOLES, AND CATCHBASINS SHALL BE KEPT ACCESSIBLE FOR USE.
- CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE FROM THE SITE.
- ALL TRENCHES SHALL EITHER BE BACK FILLED DAILY OR COVERED WITH METAL PLATES. NO TRENCHES SHALL BE LEFT OPEN DURING NON-WORKING HOURS.
- ALL STEEL SHALL BE HOT-DIP GALVANIZED.

**GENERAL SOIL AND SEDIMENT CONTROL NOTES:**

- THE CONTRACTOR WILL BE REQUIRED TO PERFORM ALL CONSTRUCTION OPERATIONS IN A MANNER SO AS TO MINIMIZE SOIL EROSION AND ENSURE SEDIMENT CONTROL. EROSION MEASURES ARE ITEMS WHICH MINIMIZE THE EROSION OF SOIL. SEDIMENT CONTROL MEASURES ARE ITEMS WHICH KEEP SEDIMENT FROM LEAVING THE PROJECT SITE. EFFECTIVE SOIL EROSION AND SEDIMENT CONTROL CAN BE ACCOMPLISHED BY LIMITING THE AREA OF UNPROTECTED SOIL. PROTECTED IS DEFINED AS HAVING TEMPORARY OR PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES IN PLACE. PERIMETER CONTROL MEASURES ALONE ARE NOT CONSIDERED ADEQUATE PROTECTION.
- ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT DIRECT OR INDIRECT CONTAMINATION OF ALL WATER BODIES (INCLUDING WETLANDS) BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, CONCRETE LEACHATE, OR ANY OTHER POLLUTANT ASSOCIATED WITH CONSTRUCTION AND CONSTRUCTION PROCEDURES. DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE DIRECTLY OR INDIRECTLY INTO ANY WATER BODIES (INCLUDING WETLANDS).
- TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AS PER DETAILS AND SPECIFICATIONS. THE COST OF MAINTAINING AND REMOVING TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INCLUDED IN THE BID PRICE. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AFTER EACH STORM EVENT. AT LEAST DAILY DURING PROLONGED RAINFALL. IF NO RAINFALL OCCURS, INSPECTION SHALL BE DONE ONCE EVERY SEVEN CALENDAR DAYS.
- PERIMETER SEDIMENT CONTROL MEASURES AND VEGETATION PROTECTION FENCES SHALL BE PLACED PRIOR TO STARTING CLEARING AND GRUBBING OPERATIONS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE PERMANENTLY PROTECTED WITH EROSION CONTROL MEASURES.
- TEMPORARY STOCKPILES OF SOIL SHALL BE PROTECTED. AT A MINIMUM TEMPORARY STOCKPILES SHALL BE RINGED WITH SILT FENCE. STOCKPILES AND AREA OF STOCKPILES LEFT INACTIVE FOR LONGER THAN 14 DAYS SHALL HAVE TEMPORARY SEED AND MULCH APPLIED OR BE COVERED IN A MANNER THAT WILL PREVENT EROSION. ANY MEASURES USED TO COVER STOCKPILES SHALL BE SECURED TO MAINTAIN THEIR EFFECTIVENESS.
- A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE OR STAGING AREA TO OR FROM A MAINTAINED ROADWAY.
- ANY ADDITIONAL SOIL EROSION AND SEDIMENT CONTROL MEASURES USED TO SUPPLEMENT THE PLANS SHALL BE PREPARED IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS IN THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL", LATEST EDITION. ADDITIONAL MEASURES MAY BE REQUIRED AS ORDERED BY THE ENGINEER OR AS SITE CONDITIONS CHANGE.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES, OR WATERCOURSES.

**GENERAL NOTES FOR MAINTENANCE AND PROTECTION OF TRAFFIC:**

THE CONTRACTOR SHALL BE AWARE THAT MAINTENANCE AND PROTECTION OF TRAFFIC IS A VERY CRITICAL ITEM OF THE CONTRACT AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619, WORK ZONE TRAFFIC CONTROL OF THE NYS DOT STANDARD SPECIFICATIONS, THE NEW FEDERAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, NYS SUPPLEMENT, AND ALL OTHER APPLICABLE PROVISIONS CONTAINED IN THIS CONTRACT.

THE CONTRACTOR WILL NOT BE ALLOWED TO OCCUPY OR WORK ON OPPOSITE SIDES OF THE ROADWAY IN ONE LOCATION WHILE TRAFFIC IS MAINTAINED ON THE ROADWAY.

ALL CONSTRUCTION VEHICLES AND EQUIPMENT OPERATING WITHIN THE TRAVEL LANES, SHOULDERS, AND CLEAR ZONE AREA SHALL BE EQUIPPED WITH A MINIMUM OF ONE HIGH INTENSITY FLASHING AMBER BEACON MOUNTED ON THE VEHICLE SO THAT IT IS VISIBLE TO APPROACHING TRAFFIC FROM ALL DIRECTIONS, AS APPROVED BY THE EIC.

CONSTRUCTION EQUIPMENT AND MATERIAL SHALL BE REMOVED FROM THE ROADSIDE AREA DURING NON-WORKING HOURS. THIS EQUIPMENT AND MATERIAL SHALL NOT BE STORED WITHIN 30 FEET OF THE EDGE OF TRAVEL LANE, OR A DISTANCE AS ORDERED BY THE ENGINEER.

DURING WORKING HOURS, NO CONSTRUCTION MATERIAL MAY BE STORED ON THE ROADWAY OR ROADBED EXCEPT IN A PROTECTED WORK ZONE.

NO WORK ZONE SHALL BE LEFT IN PLACE DURING NON-WORKING HOURS WITHOUT THE CONSENT OF THE TOWN OF UNION.

**WORK ZONE SIGNING**

WORK ZONE TRAFFIC CONTROL SIGNS AND SIZES ARE SHOWN ON NYS DOT STANDARD SHEET 619-12.

ALL SIGN NUMBERS REFER TO THE NATIONAL MUTCD TOGETHER WITH THE NEW YORK STATE SUPPLEMENT.

SIGNING INSTALLED BY THE CONTRACTOR PRIOR TO THE ACTUAL START OF WORK SHALL BE COVERED UNTIL THE CONDITIONS WARRANTING THE SIGNS ARE PRESENT. WHEN NO EVIDENCE OF WORK IS PRESENT OUTSIDE OF WORKING HOURS, SIGNING SHALL BE TAKEN DOWN OR COVERED.

WORK ZONES LEFT OVERNIGHT SHALL BE PROTECTED WITH THE WARNING LIGHTS. APPROPRIATE WARNING SIGNS SUPPLEMENTED WITH ACTUAL FIELD CONDITIONS MAY REQUIRE OTHER SIGNS AND OTHER ARRANGEMENTS OF SIGNS.

DISTANCES SHALL BE ADAPTED TO PREVAILING CONDITIONS. SIGNS SHALL BE LOCATED TO PROVIDE OPTIMUM VISIBILITY.

SIGNS THAT ARE NOT APPLICABLE SHALL BE COVERED OR OBSCURED FROM SIGHT. RIGID SIGN PANELS MUST BE MOUNTED AT A HEIGHT OF AT LEAST 5 FEET ABOVE THE EDGE OF PAVEMENT ELEVATION.

WORK ZONE WARNING SIGNS SHALL BE BLACK ON ORANGE.

**GENERAL SAFETY NOTES**

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A SAFE WORK PLACE.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO ALL APPLICABLE SECTIONS OF THE MOST CURRENT EDITION OF CFR 29 PART 1926, CONSTRUCTION SAFETY AND HEALTH REGULATIONS.

**DELINEATION DEVICES**

ALL DEVICES SUCH AS CONES, DRUMS, TUBULAR MARKERS, OR BARRICADES SHALL BE IN ACCEPTABLE CONDITION WHEN BROUGHT TO THE PROJECT SITE. IF THE CONTRACTOR IS NOTIFIED BY THE TOWN OF ANY DEVICES BEING IN UNACCEPTABLE CONDITION, HE WILL BE RESPONSIBLE FOR REPLACING THE DEVICE AT NO ADDITIONAL COST TO THE TOWN.

FIELD CONDITIONS MAY WARRANT OTHER ARRANGEMENTS OF DEVICES. THE CONTRACTOR SHALL BE PREPARED TO SUPPLY ADDITIONAL DEVICES (CONES, DRUMS, ETC.) AT NO ADDITIONAL COST TO THE TOWN.

DEVICES LEFT OVERNIGHT WITHIN THE ROADWAY SHALL BE REFLECTORIZED IN ACCORDANCE WITH THE REQUIREMENTS IN THE FEDERAL MUTCD. DRUMS SHALL BE USED FOR DELINEATION OF LANE AND SHOULDER CLOSURES LEFT IN PLACE OVERNIGHT.

DEVICE SPACING SHALL NOT EXCEED 10 FEET WHERE WORKERS ARE EXPOSED TO TRAFFIC. THIS REDUCED SPACING SHALL BE CARRIED A REASONABLE DISTANCE UPSTREAM OF WORKERS TO DISCOURAGE ACCIDENTAL WORK ZONE INTRUSIONS.

**MINIMUM TRAVEL LANE WIDTH**

A MINIMUM TRAVEL LANE WIDTH OF 10 FEET SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE SHOWN ON THE PLANS.

**FLAGGING OPERATIONS**

FOR FLAGGING OPERATIONS, UTILIZE NYS DOT STANDARD SHEETS 619-60 AND 619-61.

**RESIDENTIAL AND COMMERCIAL DRIVEWAY ACCESS**

RESIDENTIAL DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES WITH THE FOLLOWING ALLOWANCES:

ACCESS TO RESIDENTIAL DRIVEWAYS WILL BE MAINTAINED WHEREVER PRACTICAL, ABOVE. RESIDENTS WHOSE DRIVEWAYS WILL BE INACCESSIBLE SHALL BE NOTIFIED NO LATER THAN 24 HOURS IN ADVANCE. ACCESS SHALL BE RESTORED WITHIN 24 HOURS UNLESS OTHER SUITABLE ARRANGEMENTS HAVE BEEN MADE WITH THE RESIDENT.

THE COST OF PROVIDING AND MAINTAINING SAFE AND ADEQUATE INGRESS AND EGRESS FOR INTERSECTING VILLAGE, HOMES AND COMMERCIAL ESTABLISHMENTS, AT ALL TIMES TO THE SATISFACTION OF THE VILLAGE, SHALL BE BORNE BY THE CONTRACTOR.

**PAVEMENT EDGE DROPOFFS**

PAVEMENT EDGE DROPOFFS SHALL BE DELINEATED IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS.

DROP-OFFS WITHIN 10 FEET OF THE EDGE OF THE TRAVEL LANE, SHALL BE TREATED AS A PAVEMENT EDGE DROP-OFF AND ADDRESSED IN ACCORDANCE WITH TABLE 619-3 OF THE STANDARD SPECIFICATIONS.

**EMERGENCY ACCESS AND AGENCY NOTIFICATION**

AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR MUST PROVIDE SAFE AND CONVENIENT EMERGENCY ACCESS. LOCAL FIRE AND POLICE AUTHORITIES AND AMBULANCE SERVICES SHALL BE NOTIFIED BY THE CONTRACTOR THREE (3) WEEKS ADVANCE OF THE BEGINNING OF THE PROGRESS OF WORK IN ORDER TO COORDINATE AND MAINTAIN SUFFICIENT EMERGENCY SERVICES.

THE CONTRACTOR IS REQUIRED TO MAKE PERSONAL CONTACT WITH APPROPRIATE SCHOOL OFFICIALS IN RESPECT TO THE EFFECT OF ROAD CLOSINGS OR DETOURS ON SCHOOL BUS OPERATION AND PEDESTRIAN (SCHOOL CHILDREN) ROUTES. THIS SHOULD BE DONE THREE (3) WEEKS IN ADVANCE OF ANY CLOSINGS OR IMPLEMENTATION OF DETOURS SO THAT THERE WILL BE ADEQUATE TIME FOR THE SCHOOL DISTRICT(S) TO MAKE ANY NECESSARY ADJUSTMENTS TO THEIR SCHEDULES AND ROUTES.

**PAVEMENT DRAINAGE**

EXISTING DRAINAGE INLET FRAMES MUST DRAIN THE ADJACENT PAVEMENT/SHOULDER COURSE. THIS MAY BE THE EXISTING PAVEMENT, NEWLY CONSTRUCTED PAVEMENT OR SHOULDER.

**SUGGESTED CONSTRUCTION SEQUENCE**

THIS PROPOSED SEQUENCE OF CONSTRUCTION IS INTENDED TO SERVE AS A GUIDE TO BOTH THE CONTRACTOR AND ENGINEER-IN-CHARGE. CHANGES PROPOSED TO THIS SEQUENCE BY THE CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE TOWN. THIS IS INTENDED AS AN OUTLINE AND THEREFORE INCLUDES MAJOR STEPS IN THE CONSTRUCTION SEQUENCE ONLY. THE SEQUENCE IS NOT ALL INCLUSIVE.

**SEQUENCE OF WORK**

SET UP WZTC MEASURES.  
INSTALL NEW PUMP STATION, MANHOLES AND GRAVITY SEWER PIPING.  
PROVIDE TEMPORARY PIPE PLUGS IN MANHOLE(S) TO DIVERT FLOW TO NEW WET WELL AS REQUIRED TO FACILITATE THE WORK.  
CONNECT NEW FORCE MAIN TO EXISTING.  
STARTUP AND TEST NEW PUMP STATION AND FORCE MAIN.  
REMOVE TOP PORTIONS OF EXISTING MANHOLES TO BE ABANDONED. FILL REMAINDER OF STRUCTURES WITH FLOWABLE FILL.  
PROVIDE SUITABLE FILL AS NECESSARY ABOVE ABANDONED MANHOLES TO RESTORE EXISTING GRADE.  
RESTORE SITE.

**NOTE:**

SHORT OR INTERMEDIATE TERM LANE CLOSURES ARE DEPICTED ON THE NYS DOT STANDARD SHEETS.  
GENERAL WORK ZONE TRAFFIC CONTROL MEASURES INCLUDING BUT NOT LIMITED TO:

619-10, 619-11, 619-12, 619-20, 619-50, 619-51, 619-60, 619-61

WHERE COMMERCIAL DRIVEWAYS OR INTERSECTING ROADWAYS ADJOIN A CONSTRUCTION AREA, DEVICES SHALL BE PLACED TO DELINEATE THE RADIUS OF THE ENTRANCE POINT, SPACED NO MORE THAN 6 FEET APART. IF LEFT IN PLACE OVERNIGHT, THE DEVICES USED TO DELINEATE THE ACCESS POINT SHOULD BE A DIFFERENT DEVICE TYPE THAN WHAT IS USED ALONG THE WORK ZONE, FOR EXAMPLE IF DRUMS ARE USED ALONG THE WORK ZONE, REFLECTORIZED CONES SHALL BE USED TO DELINEATE THE DRIVEWAY OR INTERSECTING ROADWAY.

SUPPLEMENTAL WARNING LIGHTS SHALL BE SUPPLIED BY THE CONTRACTOR IN SITUATIONS WHERE REQUIRED BY SECTION 619 OF THE STANDARD SPECIFICATIONS SUCH AS FOR DELINEATION OF DROPOFFS.



143 COURT STREET  
BINGHAMTON, NY 13901  
(607) 798-8081  
www.shumakerengineering.com



**WARNING:**

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	WRL
DRAWN BY:	AWR
CHECKED BY:	JMC
DATE:	FEBRUARY 2022
SHEET TITLE:	

**GENERAL NOTES  
AND BENCHMARKS**

DRAWING NUMBER:  
**G-002**  
SHEET 2 OF 16

TABLE OF BENCHMARKS		
VERTICAL DATUM: NAVD88		
BM	DESCRIPTION	ELEV.
1	B.M. 1 IS A CHISELED X IN THE N. BONNET BOLT OF FIRE HYD. LOCATED 10' S. OF ARDMORE ST. AND ± 25' W. OF THE END OF ARDMORE ST.	826.004'
2	BM 2 IS A RR SPIKE 5' IN UP # TOWN OF UNION POLE #471 LOCATED 250' W. OF THE END OF ARDMORE ST.	827.123'



**SHUMAKER**  
 Consulting Engineering & Land Surveying, D.P.C.  
 143 COURT STREET  
 BINGHAMTON, NY 13901  
 (607) 798-8081  
 www.shumakerengineering.com



**WARNING:**  
 THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
 SANITARY PUMP STATION**  
 ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	WRL
DRAWN BY:	AWR
CHECKED BY:	JMC
DATE:	FEBRUARY 2022
SHEET TITLE:	

WZTC DETOUR PLAN

DRAWING NUMBER:  
**G-003**



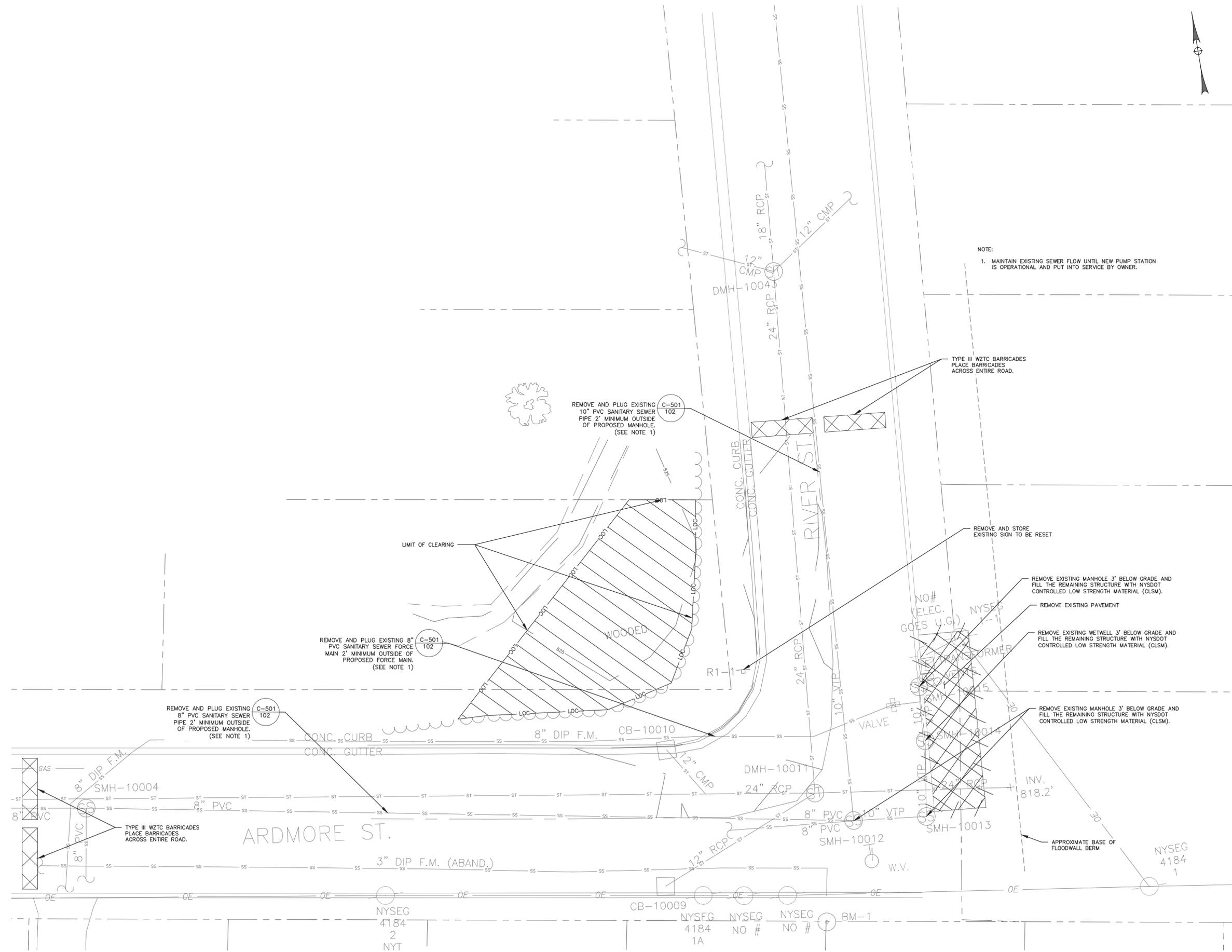
**WARNING:**  
 THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
 SANITARY PUMP STATION**  
 ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	WRL
DRAWN BY:	AWR
CHECKED BY:	JMC
DATE:	FEBRUARY 2022
SHEET TITLE:	

**DEMOLITION PLAN**

DRAWING NUMBER:  
**D-100**



**NOTE:**  
 1. MAINTAIN EXISTING SEWER FLOW UNTIL NEW PUMP STATION IS OPERATIONAL AND PUT INTO SERVICE BY OWNER.

TYPE III WZTC BARRICADES  
 PLACE BARRICADES  
 ACROSS ENTIRE ROAD.

REMOVE AND PLUG EXISTING  
 10" PVC SANITARY SEWER  
 PIPE 2' MINIMUM OUTSIDE  
 OF PROPOSED MANHOLE.  
 (SEE NOTE 1)

REMOVE AND PLUG EXISTING 8"  
 PVC SANITARY SEWER FORCE  
 MAIN 2' MINIMUM OUTSIDE  
 OF PROPOSED FORCE MAIN.  
 (SEE NOTE 1)

REMOVE AND PLUG EXISTING 8"  
 PVC SANITARY SEWER  
 PIPE 2' MINIMUM OUTSIDE  
 OF PROPOSED MANHOLE.  
 (SEE NOTE 1)

REMOVE AND STORE  
 EXISTING SIGN TO BE RESET

REMOVE EXISTING MANHOLE 3' BELOW GRADE AND  
 FILL THE REMAINING STRUCTURE WITH NYSOT  
 CONTROLLED LOW STRENGTH MATERIAL (CLSM).

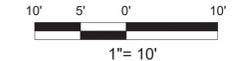
REMOVE EXISTING PAVEMENT

REMOVE EXISTING WETWELL 3' BELOW GRADE AND  
 FILL THE REMAINING STRUCTURE WITH NYSOT  
 CONTROLLED LOW STRENGTH MATERIAL (CLSM).

REMOVE EXISTING MANHOLE 3' BELOW GRADE AND  
 FILL THE REMAINING STRUCTURE WITH NYSOT  
 CONTROLLED LOW STRENGTH MATERIAL (CLSM).

APPROXIMATE BASE OF  
 FLOODWALL BERM

**DEMOLITION PLAN**





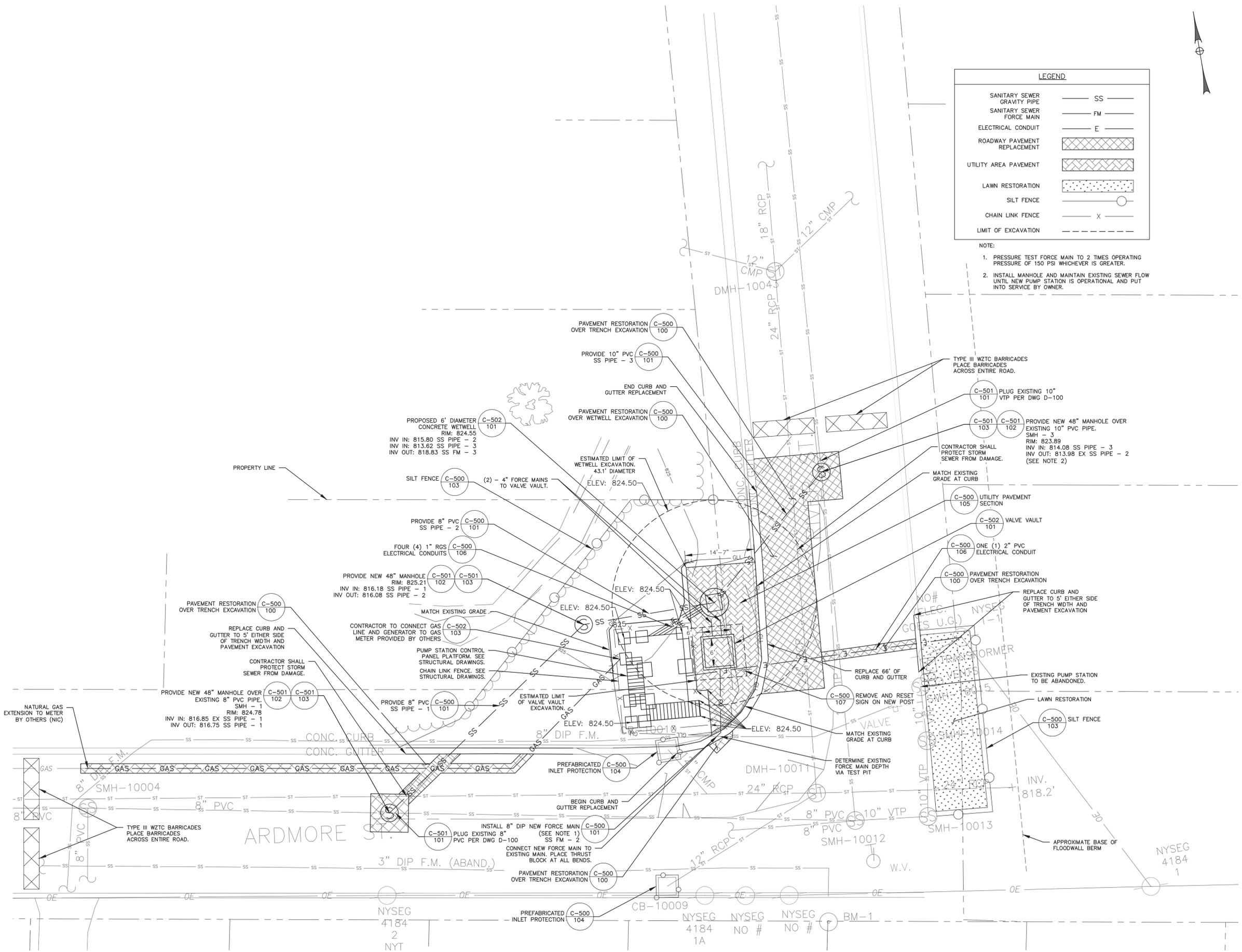
**WARNING:**  
 THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS**  
**SANITARY PUMP STATION**  
 ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	WRL
DRAWN BY:	AWR
CHECKED BY:	JMC
DATE:	FEBRUARY 2022
SHEET TITLE:	

GENERAL PLAN

**C-100**

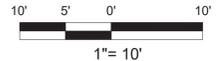


**LEGEND**

SANITARY SEWER GRAVITY PIPE	SS
SANITARY SEWER FORCE MAIN	FM
ELECTRICAL CONDUIT	E
ROADWAY PAVEMENT REPLACEMENT	[Hatched Pattern]
UTILITY AREA PAVEMENT	[Cross-hatched Pattern]
LAWN RESTORATION	[Dotted Pattern]
SILT FENCE	[Circle with X]
CHAIN LINK FENCE	[X]
LIMIT OF EXCAVATION	[Dashed Line]

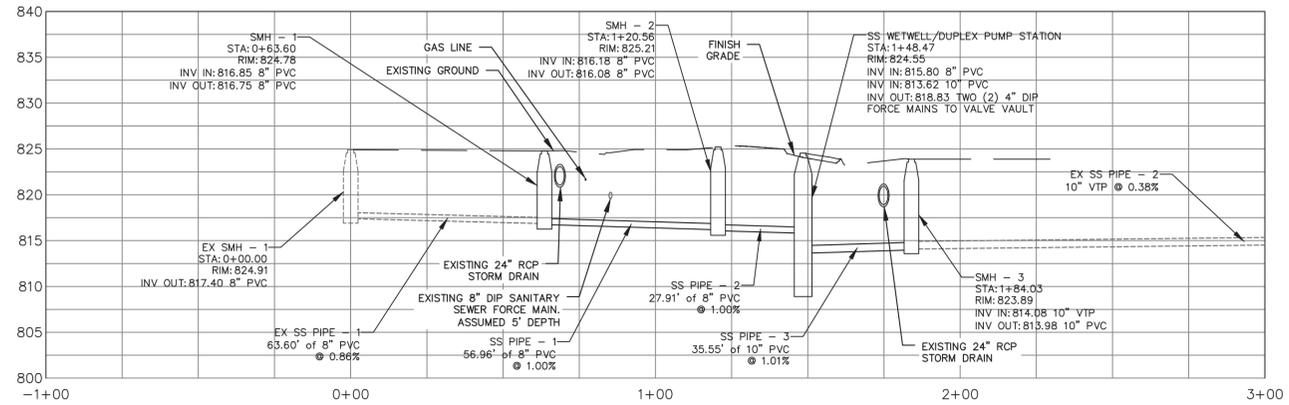
- NOTE:**
- PRESSURE TEST FORCE MAIN TO 2 TIMES OPERATING PRESSURE OF 150 PSI WHICHEVER IS GREATER.
  - INSTALL MANHOLE AND MAINTAIN EXISTING SEWER FLOW UNTIL NEW PUMP STATION IS OPERATIONAL AND PUT INTO SERVICE BY OWNER.

PROPOSED WORK PLAN

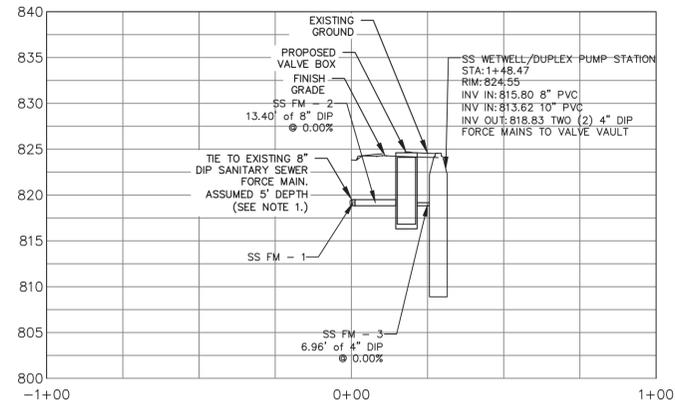




**WARNING:**  
 THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

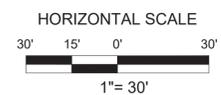
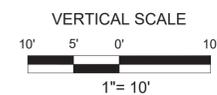


**PROPOSED SANITARY SEWER PROFILE**



**PROPOSED SANITARY SEWER FORCE MAIN PROFILE**

**NOTE:**  
 1. THE EXACT LOCATION AND DEPTH OF THE EXISTING 8" FORCE MAIN IS UNKNOWN. CONTRACTOR SHALL LOCATE IN FIELD VIA TEST PIT AND NOTIFY THE ENGINEER OF THE DEPTH.

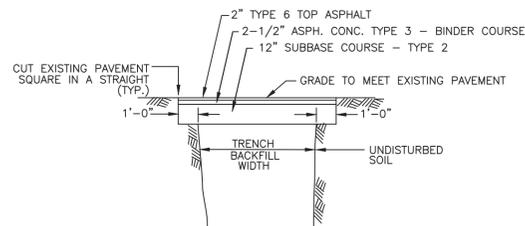


TOWN OF UNION  
**WEST CORNERS**  
**SANITARY PUMP STATION**  
 ENDICOTT, NY

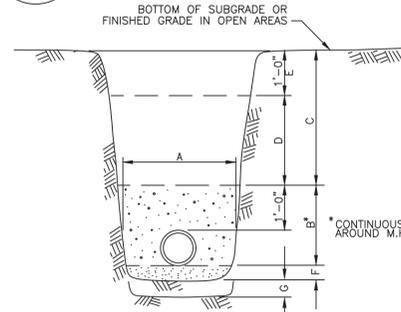
PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	WRL
DRAWN BY:	AWR
CHECKED BY:	JMC
DATE:	FEBRUARY 2022
SHEET TITLE:	

**UTILITY PROFILES**

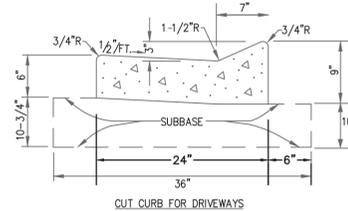
DRAWING NUMBER:  
**C-300**



**C-500 BITUMINOUS PAVEMENT RESTORATION**  
100 NOT TO SCALE



**STANDARD CURB AND GUTTER**  
NOT TO SCALE



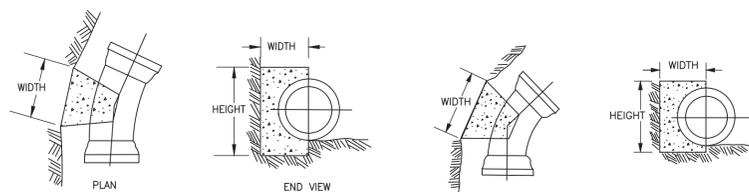
**CURB AND GUTTER**  
NOT TO SCALE

- MAXIMUM TRENCH WIDTH AT TOP OF PIPE = O.D. OF PIPE PLUS 2'-0"
- SELECT GRANULAR FILL.
- IN EXISTING PAVEMENT AREAS, SELECT GRANULAR FILL COMPACTED IN 6" LIFTS, NO STONES LARGER THAN 3 INCHES.
- IN OPEN AREAS, SUITABLE EXCAVATED MATERIAL COMPACTED IN 12" LIFTS, NO STONES LARGER THAN 12 INCHES.
- IN OPEN AREAS, SELECT GRANULAR FILL COMPACTED IN 12" LIFTS, NO STONES LARGER THAN 3 INCHES.
- SELECT GRANULAR FILL PLACED AT A MINIMUM DEPTH OF 4" IN SOIL AND 6" IN ROCK.
- VARIES - UNSUITABLE MATERIAL EXCAVATED A.O.B.E. TO A DEPTH A.O.B.E. AND REPLACED WITH CRUSHED STONE A.O.B.E.

**C-500 CURB AND GUTTER**  
102 NOT TO SCALE

- 4500 psi CONCRETE
- CONSTRUCTION JOINTS EVERY 5'
- EXPANSION JOINTS EVERY 50'

**C-500 TRENCH EXCAVATION, PIPE BEDDING & BACKFILL**  
101 NOT TO SCALE



SIZE	WIDTH	HEIGHT	SIZE	WIDTH	HEIGHT
4	12"	5"	14	36"	16"
6	14"	8"	16	40"	20"
8	20"	10"	18	44"	20"
10	24"	12"	20	44"	24"
12	28"	14"	24	56"	28"

SIZE	WIDTH	HEIGHT	SIZE	WIDTH	HEIGHT
4 NPS	24"	10"	14 NPS	64"	32"
6 NPS	32"	14"	16 NPS	68"	40"
8 NPS	40"	20"	18 NPS	88"	40"
10 NPS	48"	24"	20 NPS	88"	48"
12 NPS	56"	28"	24 NPS	108"	56"

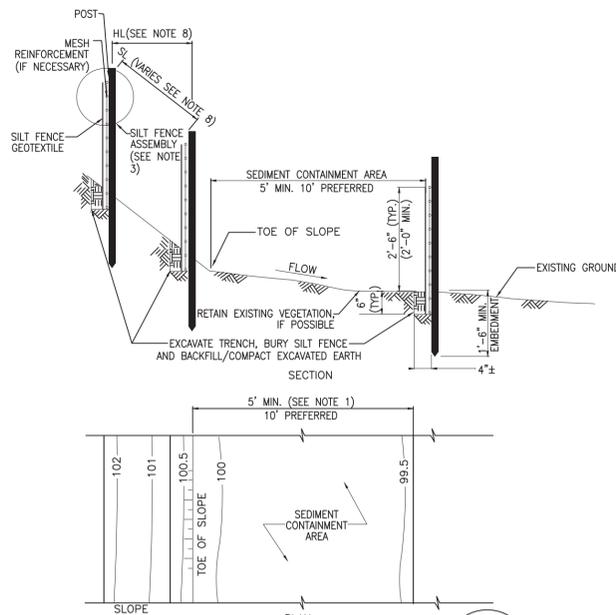
**NOTES:**

- THRUST BLOCKS SHALL BE CONSTRUCTED OF CONCRETE FOR PIPELINES CLASS C CONCRETE.
- THRUST BLOCKS SIZES AND MINIMUM RESTRAINED LENGTHS SHOWN ON THESE SHEETS ARE BASED UPON THE FOLLOWING STANDARD CONDITIONS:
  - 1.5 SAFETY FACTOR
  - 5 FT DEPTH OF COVER
  - 200 PSI WATER SYSTEM TEST PRESSURE
  - 14 PSI SOIL BEARING CAPACITY
  - 90 PCF SOIL UNIT WEIGHT

**NOTES:**

- RESTRAINT SHOULD CONSIST OF RESTRAINED JOINTS, RETAINER GLANDS AND THRUST BLOCKS. THRUST BLOCKS SHALL BE USED ALONG WITH RESTRAINED JOINTS AND RETAINER GLANDS. SHAPE ALSO BEVELED AS SHOWN IN THE DETAILS.
- THE OWNER OF THE WATER SYSTEM REQUIRES A METHOD THAT RESTRAINS INDIVIDUAL JOINTS, EACH JOINT THAT FALLS WITHIN THE MINIMUM RESTRAINED LENGTH, MEASURED FROM THE CENTER OF THE FITTING, AS SHOWN ON THESE SHEETS SHALL BE RESTRAINED, AND SHALL WITHSTAND THE MAXIMUM PRESSURE APPLIED TO THE SYSTEM.
- CONCRETE SHALL NOT BE PLACED UNDER WATER. THE CONTRACTOR SHALL DEWATER THE EXCAVATION OR PLACE NYSDOT TYPE G CONCRETE USING APPROPRIATE UNDERWATER PLACEMENT TECHNIQUES.
- CONCRETE FOR THRUST BLOCKS SHALL NOT BE ALLOWED TO COVER OR INTERFERE WITH JOINT OR RESTRAINT HARDWARE. PLASTIC SHEETING OR BUILDING FELT MAY BE PLACED OVER PIPE FOR FITTINGS TO PREVENT CONCRETE FROM ADHERING TO SURFACES. CONCRETE FOR THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL.
- FOR BENDS, BEARING AREA SHALL BE PARALLEL TO THE EDGE OF THE FITTING AT THE FITTING MIDPOINT.
- FOR TEES, BEARING AREA SHALL BE PERPENDICULAR TO THE BRANCH (SINGLE LEG) AXIS.
- FOR REDUCERS, BEARING AREA SHALL BE PERPENDICULAR TO THE FITTING AXIS. THE MINIMUM THICKNESS ALONG THE FITTING AXIS SHALL BE 1/4" OR THE LENGTH BETWEEN THE BELLS, WHICHEVER IS SMALLER.
- TO DETERMINE REQUIRED SIZES FOR DIFFERENT CONDITIONS, MULTIPLY THE DIMENSION BY A FACTOR OF THE SPECIFIC VALUE DIVIDED BY A STANDARD VALUE.  
EXAMPLE:  
FOR 12 NPS 45° BEND WITH 100 PSI TEST PRESSURE:  
AREA REQUIRED = (4.7' X 2.3') X (100 / 200) = 5.4 ft<sup>2</sup>  
WIDTH = 3.3 ft  
HEIGHT = 1.7 ft
- ALL FITTINGS SHALL BE RESTRAINED WITH BOTH THRUST BLOCKS AND MECHANICAL JOINT RETAINER GLANDS.
- ALL PIPE JOINTS WITHIN THE RESTRAINED LENGTH OF PIPE SHALL BE RESTRAINED WITH:
- 10.1. BELL AND SPOOT SHALL BE RESTRAINED WITH GRIP LOK GASKETS.
- 10.2. IF MECHANICAL JOINT PIPE SHALL BE MEGALUG
- ALL REFERENCES TO NYSDOT STANDARD SPECIFICATIONS, OR STANDARD SPECIFICATIONS, MEAN THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, OFFICE OF ENGINEERING (JANUARY 1, 2018).

**C-500 THRUST BLOCK DETAIL**  
104 NOT TO SCALE

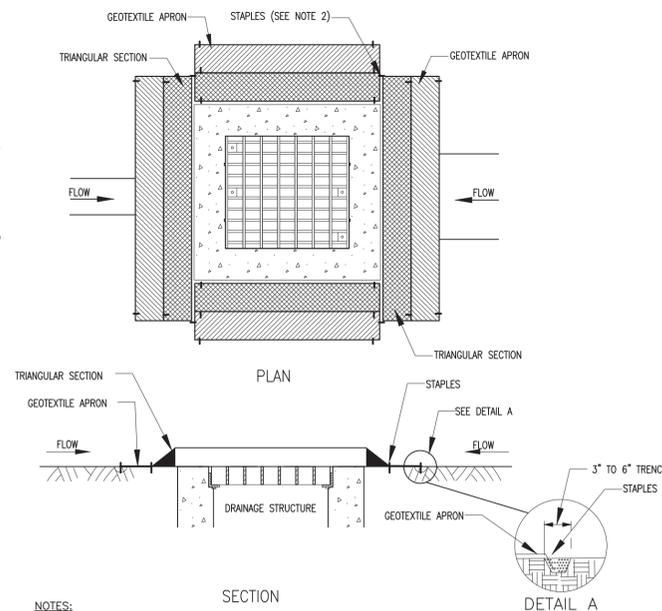


**C-500 SILT FENCE**  
103 NOT TO SCALE

**NOTES:**

- SILT FENCE SHALL BE PLACED A MINIMUM OF 5' FROM TOE TO SLOPE, 10' PREFERRED, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF SEDIMENT CONTAINMENT AREA.
- POSTS MAY BE 1 1/4" X 1 1/4" (MINIMUM) HARDWOOD, 1 1/2" X 3 1/2" (MINIMUM) SOFTWOOD, OR 1.34LB/FT (MIN.) STEEL.
- ASSEMBLIES MAY HAVE 4' OR 6.5' POST SPACING. MESH IS NECESSARY ON FENCES WITH 6.5' SPACING AND ALL FENCE PLACED AT THE BOTTOM OF A 2:1, 3:1 (H:V) SLOPE.
- THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 6" BELOW GROUND. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSTREAM SIDE OF THE FABRIC.
- SILT FENCE SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS, AFTER EACH RAINFALL OF 1/2" OR MORE WITHIN A 12 HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. SILT FENCE SHALL BE CLEANED AND REPAIRED AS REQUIRED.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE SILT FENCE HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
- DRAINAGE AREAS: MAXIMUM DRAINAGE AREA TRIBUTARY TO 100' OF SILT FENCE SHALL BE 1/2 ACRE.
- THE FOLLOWING ARE MAXIMUM SLOPE LENGTHS TO THESE MEASURES:

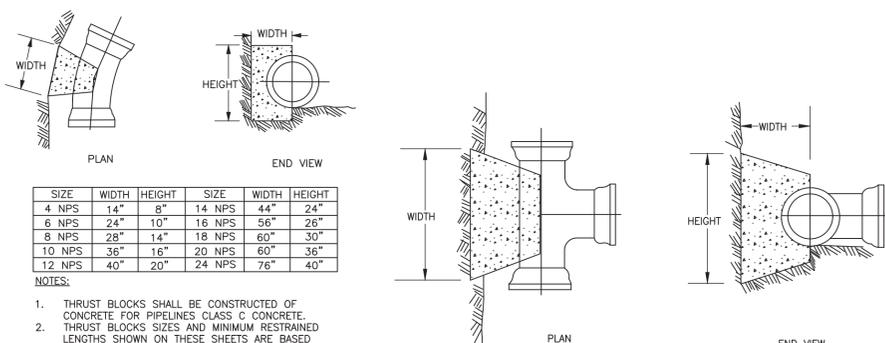
SLOPE	SILT FENCE SLOPE LENGTH L (FT)	HORIZ LENGTH L (FT)
2:1	80	42
3:1	80	79
4:1	130	128
5:1	200	200
>5:1	260	260



**NOTES:**

- THE PRIMARY PURPOSE OF DRAINAGE STRUCTURE INLET PROTECTION IS TO PREVENT SEDIMENT FROM ENTERING A DRAINAGE SYSTEM BY PONDING WATER WHICH ALLOWS SEDIMENT TO FALL OUT OF SUSPENSION.
- SECURE THE ENDS OF THE APRON WITH STAPLES AS DETAILED OR AS RECOMMENDED BY MANUFACTURER LITERATURE.
- IF USED ON PAVEMENT, PLACE SANDBAGS OR CLEAN STONE ON APRON. (FULLY COVER APRON).
- INLET PROTECTION SHALL BE INSPECTED EVERY SEVEN (7) CALENDAR DAYS, AFTER EACH RAINFALL OF 1/2" OR MORE WITHIN A 12 HOUR PERIOD, OR DAILY DURING PROLONGED RAINFALL. SILT FENCE INLET PROTECTION SHALL BE CLEANED AND REPAIRED AS REQUIRED.
- SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE INLET PROTECTION HEIGHT. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.

**C-500 DRAINAGE STRUCTURE INLET PROTECTION - TEMPORARY (PREFABRICATED)**  
104 NOT TO SCALE



SIZE	WIDTH	HEIGHT	SIZE	WIDTH	HEIGHT
4 NPS	14"	8"	14 NPS	44"	24"
6 NPS	24"	10"	16 NPS	56"	28"
8 NPS	28"	14"	18 NPS	60"	30"
10 NPS	36"	16"	20 NPS	60"	36"
12 NPS	40"	20"	24 NPS	76"	40"

**NOTES:**

- THRUST BLOCKS SHALL BE CONSTRUCTED OF CONCRETE FOR PIPELINES CLASS C CONCRETE.
- THRUST BLOCKS SIZES AND MINIMUM RESTRAINED LENGTHS SHOWN ON THESE SHEETS ARE BASED UPON THE FOLLOWING STANDARD CONDITIONS:
  - 1.5 SAFETY FACTOR
  - 5 FT DEPTH OF COVER
  - 200 PSI WATER SYSTEM TEST PRESSURE
  - 14 PSI SOIL BEARING CAPACITY
  - 90 PCF SOIL UNIT WEIGHT

SIZE	WIDTH	HEIGHT	SIZE	WIDTH	HEIGHT
4	24"	12"	14	68"	40"
6	36"	16"	16	80"	44"
8	40"	24"	18	92"	48"
10	52"	28"	20	104"	52"
12	64"	32"	24	124"	64"

**NOTE:**

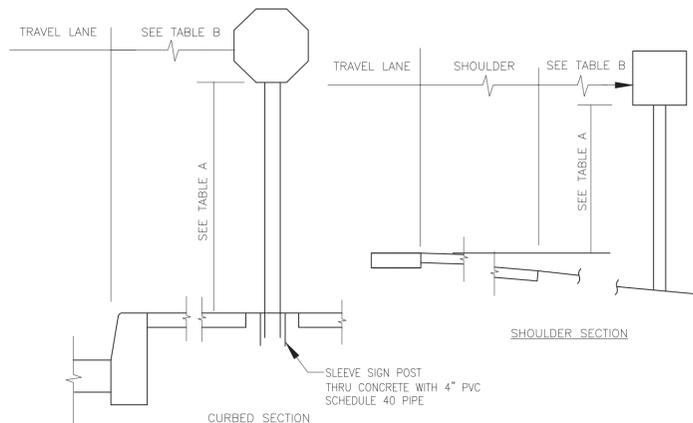
- THRUST BLOCKS SHALL BE CONSTRUCTED OF CONCRETE FOR PIPELINES CLASS C CONCRETE.

FITTING		NOMINAL PIPE SIZE											
HORIZONTAL BENDS	4 NPS	6 NPS	8 NPS	10 NPS	12 NPS	14 NPS	16 NPS	18 NPS	20 NPS	24 NPS	28 NPS	30 NPS	36 NPS
11' 7/4"	1.3'	2.0'	2.7'	3.0'	3.7'	4.0'	4.7'	5.0'	5.7'	6.3'	6.7'	7.4'	8.1'
22' 1/2"	1.3'	2.0'	2.7'	3.0'	3.7'	4.0'	4.7'	5.0'	5.7'	6.3'	6.7'	7.4'	8.1'
45'	3.0'	4.0'	5.3'	6.3'	7.7'	8.7'	9.7'	10.7'	11.7'	13.7'	14.7'	16.7'	18.7'
90'	7.0'	10.0'	12.7'	15.7'	18.3'	21.0'	23.3'	26.0'	28.3'	33.0'	35.3'	40.0'	43.0'
DEAD ENDS	8.7'	12.7'	16.3'	16.3'	23.3'	26.7'	30.0'	33.3'	36.7'	43.0'	46.3'	53.0'	56.3'

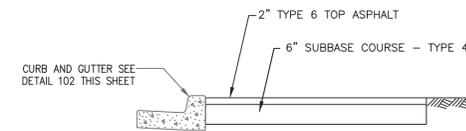
NOTE: FOR POLYETHYLENE WRAPPED PIPE, MULTIPLY VALUES IN TABLE BY 1.45

VERTICAL DISTANCE TO THE BOTTOM OF THE SIGN	
TABLE A	CONVENTIONAL HIGHWAYS AND EXPRESSWAYS
	NO PARKED VEHICLES OR PEDESTRIANS
	PARKED VEHICLES OR PEDESTRIANS
M.U.T.C.D. CODE R,P,W,M	5'-0" 7'-0"

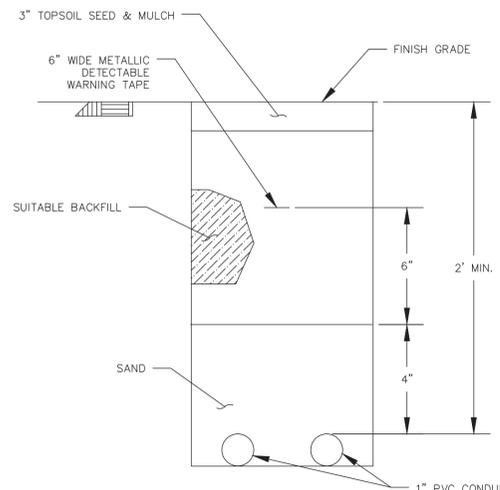
LATERAL CLEARANCE TO THE EDGE OF THE SIGN			
URBAN CONVENTIONAL HIGHWAYS			
TABLE B	SHOULDER WIDTH OF LESS THAN 6'-0"	SHOULDER WIDTH OF 6'-0" OR GREATER	CURBED SECTIONS
M.U.T.C.D. CODE R,P,W,M,G, & I	12'-0" FROM THE EDGE OF TRAVEL LANE WHERE FEASIBLE OR 2'-0" MIN.	6'-0" MIN. FROM THE SHOULDER EDGE WHERE FEASIBLE OR 2'-0" MIN.	2'-0" MIN. FROM THE CURB FACE



**C-500 TYPICAL SIGNAGE INSTALLATION DETAIL**  
107 NOT TO SCALE



**C-500 PAVED UTILITY AREA**  
105 NOT TO SCALE



**NOTES:**

- THE CONTRACTOR SHALL RESTORE TRENCHED AREAS TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL SURFACE.
- PROVIDE WATER TIGHT TERMINATION AT CONDUIT ENDS.
- ALL CONDUIT BENDS SHALL BE SWEEPS.

**C-500 TYPICAL CONDUIT TRENCHING DETAIL**  
106 NOT TO SCALE



143 COURT STREET  
BINGHAMTON, NY 13901  
(607) 798-8081  
www.shumakerengineering.com



**WARNING:**

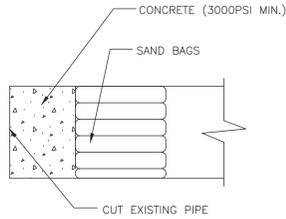
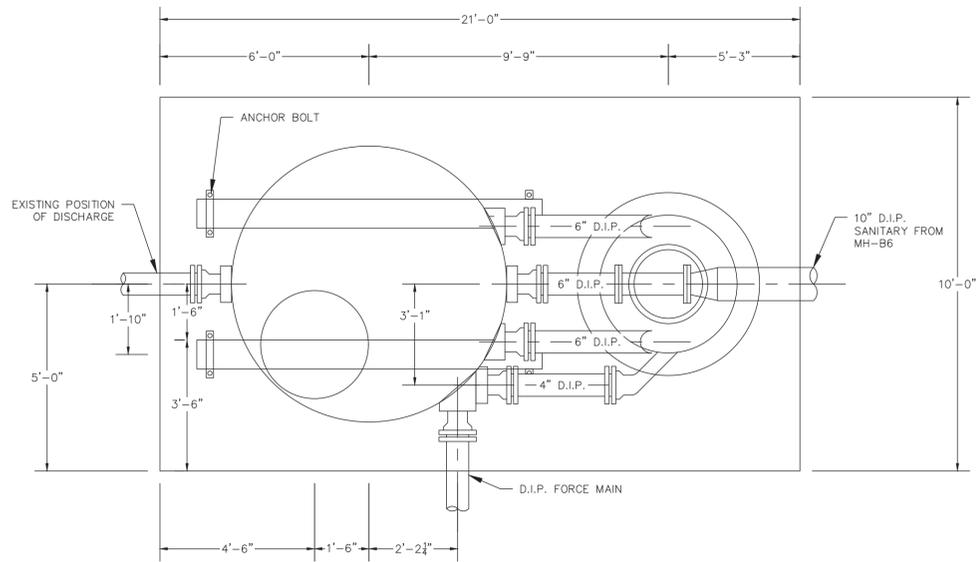
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS**  
**SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	WRL
DRAWN BY:	AWR
CHECKED BY:	JMC
DATE:	FEBRUARY 2022

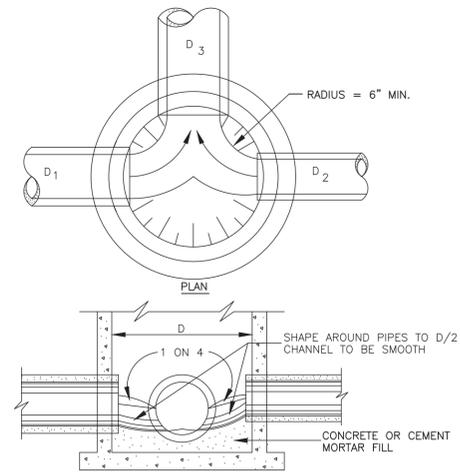
SHEET TITLE:  
**SITE AND EROSION AND SEDIMENT CONTROL DETAILS**

DRAWING NUMBER:  
**C-500**



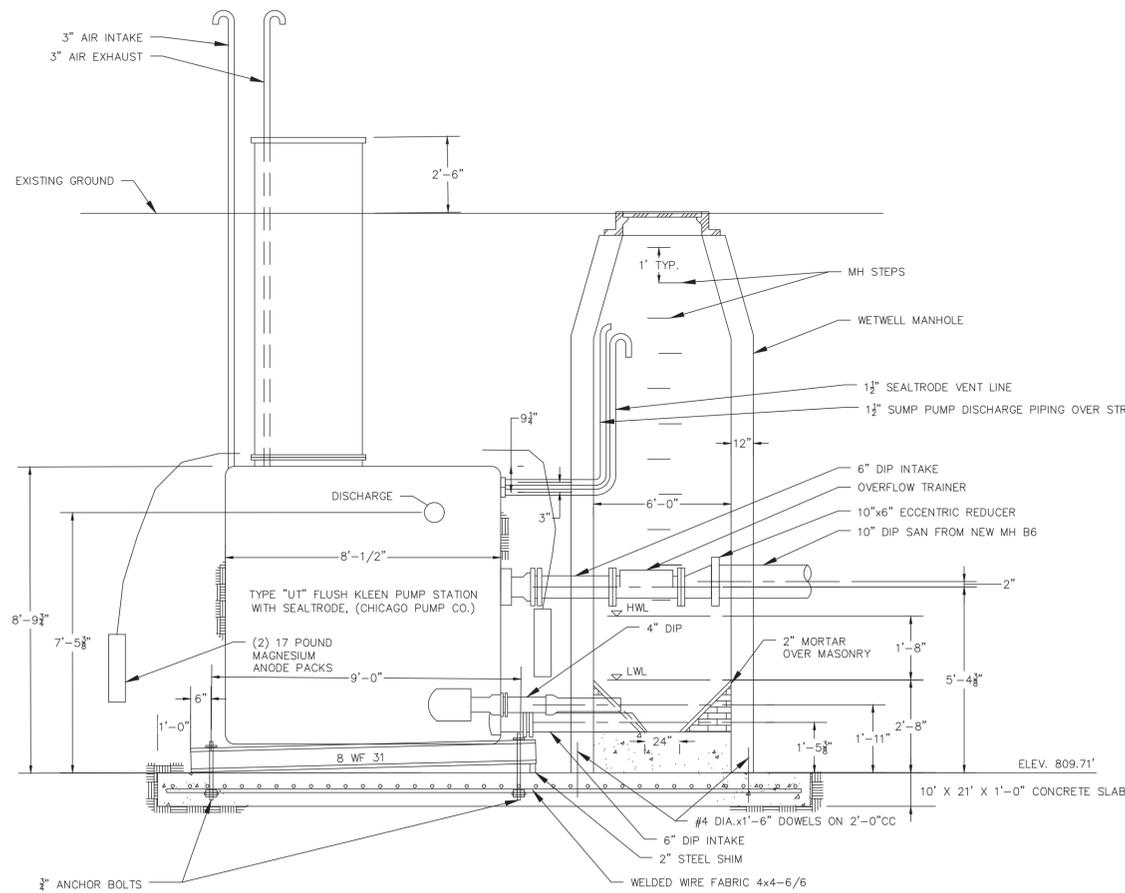
NOTE:  
1. UPON COMPLETION, VIDEO INSPECTION OF THE PIPE BEING PLUGGED IS REQUIRED.

**C-501 101** PLUG EXISTING PIPE  
NOT TO SCALE

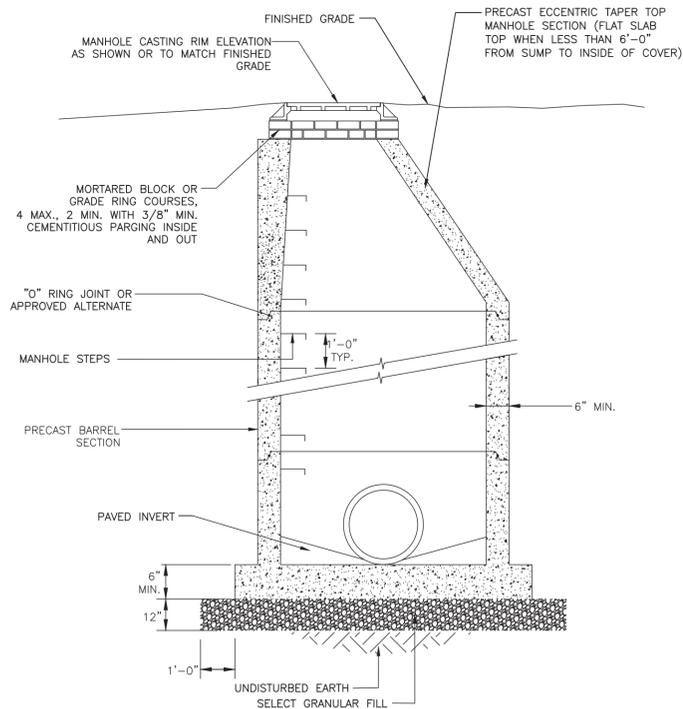


WHEN PIPES ARE STRAIGHT AT THE SAME ELEVATION THE PIPES MAY BE USED FOR CHANNELIZATION, WITH THE TOP HALF OF PIPE BROKEN OUT AND THE CONCRETE OR CEMENT MORTAR FILL PUT IN ON A 1 ON 4 SLOPE TO INSIDE WALL OF MANHOLE.  
RADIUS FOR CHANNELIZATION, INSIDE RADIUS = 6" MINIMUM.

**C-501 102** SANITARY SEWER MANHOLE PLAN  
NOT TO SCALE

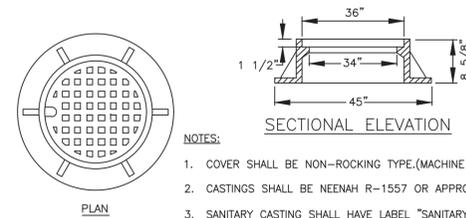


**C-501 100** EXISTING PUMP STATION DETAIL  
NOT TO SCALE  
SHOWN FOR REFERENCE ONLY



**C-501 103** SANITARY MANHOLE DETAIL  
NOT TO SCALE

NOTES:  
1. STRUCTURE SHALL BE BACK-FILLED WITH SELECT GRANULAR FILL.  
2. EXCAVATION LIMITS SHALL BE 2' OUTSIDE OF THE STRUCTURE.  
3. ANY MATERIALS EXCAVATED WITHIN THE FIRST 10' FEET FROM THE EXISTING GROUND SURFACE SHALL BE CONSIDERED UNSUITABLE AND SHALL BE REMOVED FROM THE SITE AS SURPLUS MATERIALS.



NOTES:  
1. COVER SHALL BE NON-ROCKING TYPE.(MACHINE BEARING SURFACE)  
2. CASTINGS SHALL BE NEENAH R-1557 OR APPROVED EQUAL.  
3. SANITARY CASTING SHALL HAVE LABEL "SANITARY".

**C-501 104** MANHOLE FRAME AND COVER  
NOT TO SCALE

**SHUMAKER**  
Consulting Engineering & Land Surveying, D.P.C.

143 COURT STREET  
BINGHAMTON, NY 13901  
(607) 798-8081  
www.shumakerengineering.com



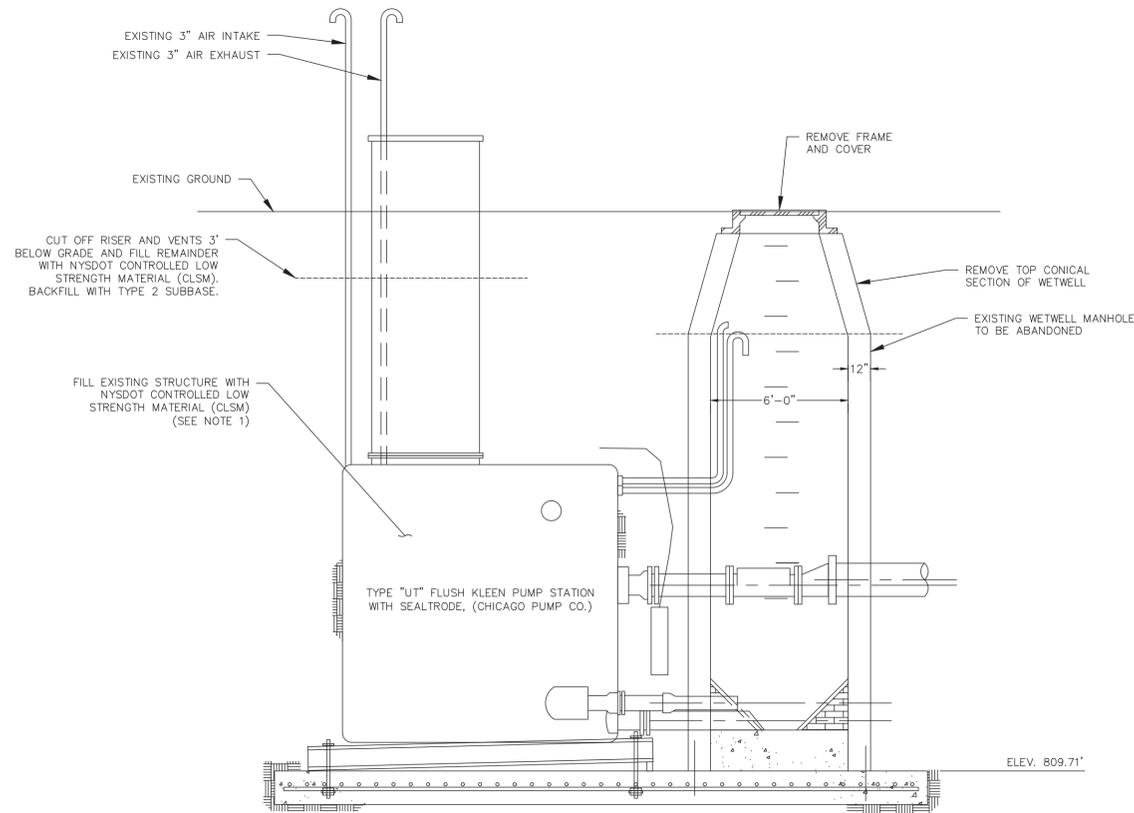
WARNING:  
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	WRL
DRAWN BY:	AWR
CHECKED BY:	JMC
DATE:	FEBRUARY 2022
SHEET TITLE:	

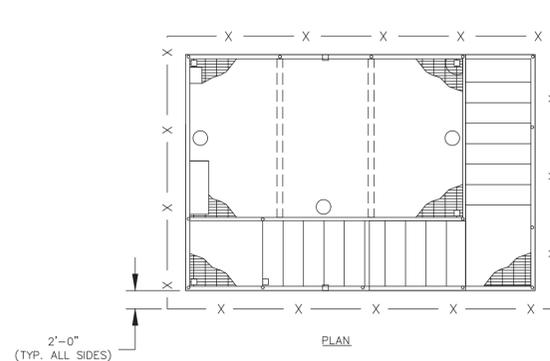
SANITARY SEWER  
DETAILS

DRAWING NUMBER:  
**C-501**

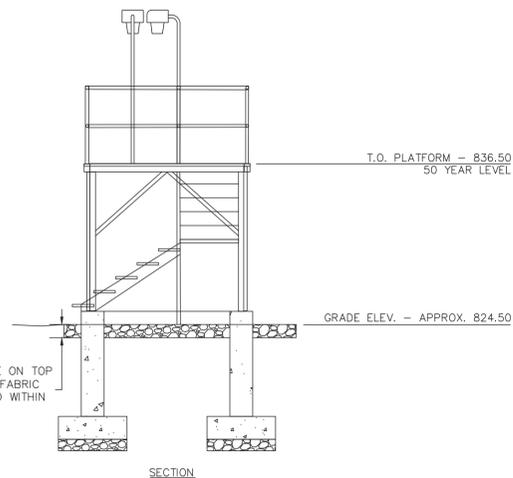


- NOTES:
- SALVAGE AND TURN OVER TO THE OWNER ANY EQUIPMENT IN THE EXISTING PUMP STATION. OWNER SHALL PROVIDE A LIST BEFORE DEMOLITION.
  - REMOVE MANWAY RISER AND VENTS TO 3' BELOW EXISTING GRADE. FILL MANWAY AND VENTS WITH NYSOT CONTROLLED LOW STRENGTH MATERIAL (CLSM). BACKFILL WITH TYPE 2 SUBBASE.
  - FILL EXISTING PUMP STATION AND REMAINING RISER AND VENTS WITH NYSOT CONTROLLED LOW STRENGTH MATERIAL (CLSM).
  - DISCONNECT AND REMOVE ALL CONTROL PANELS AND ELECTRICAL PANELS. REMOVE ALL WIRING AND PLUG THE ENDS OF ALL CONDUITS.
  - REMOVE CONICAL TOP, FRAME AND COVER FROM EXISTING WETWELL. FILL REMAINDER OF WETWELL WITH NYSOT CONTROLLED LOW STRENGTH MATERIAL (CLSM).

**C-502** EXISTING PUMP STATION ABANDONMENT  
100 NOT TO SCALE

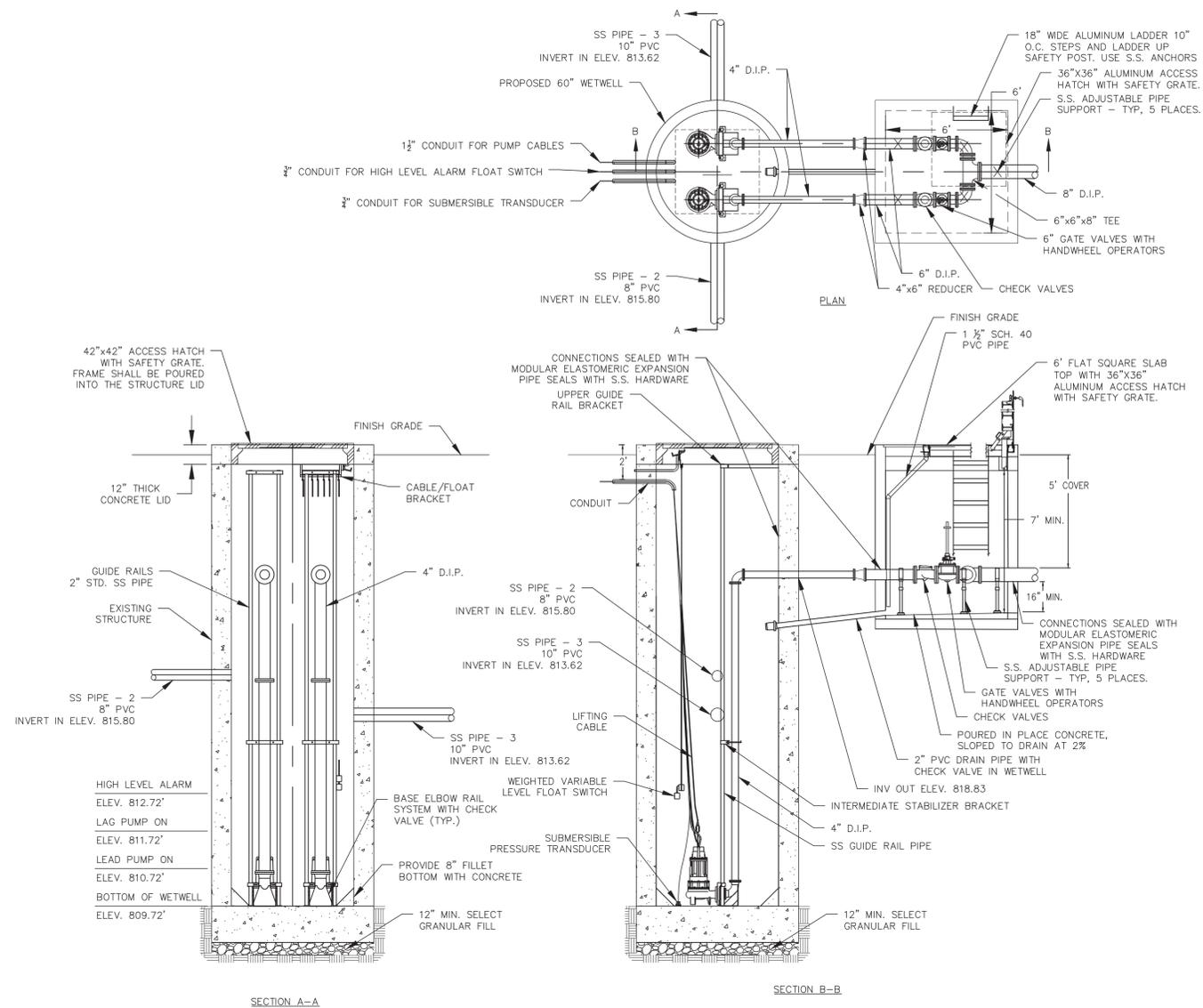


4" MIN. NO. 2 CRUSHED STONE ON TOP OF GEOTEXTILE SEPARATION FABRIC UNDER ENTIRE PLATFORM AND WITHIN FENCE



**C-502** PROPOSED PUMP STATION CONTROL PANEL PLATFORM GROUND TREATMENT  
102 NOT TO SCALE

- NOTE:
- REFER TO S-DRAWINGS FOR THE PLATFORM STRUCTURAL DRAWINGS.

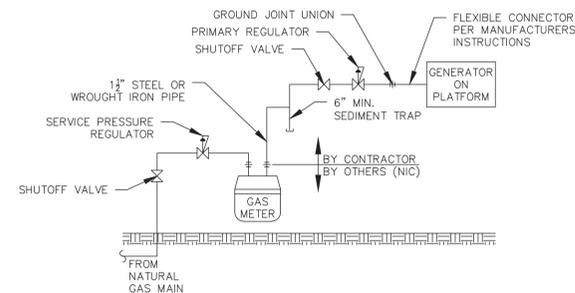


SECTION A-A

SECTION B-B

**C-502** PROPOSED PUMP STATION DETAIL  
101 NOT TO SCALE

- NOTE:
- ALL PIPING INSIDE VALVE VAULT SHALL BE PAINTED WITH TWO (2) COATS OF 100% SOLIDS, 2-PART EPOXY PAINT.



**C-502** GENERATOR GAS PIPING SCHEMATIC  
103 NOT TO SCALE



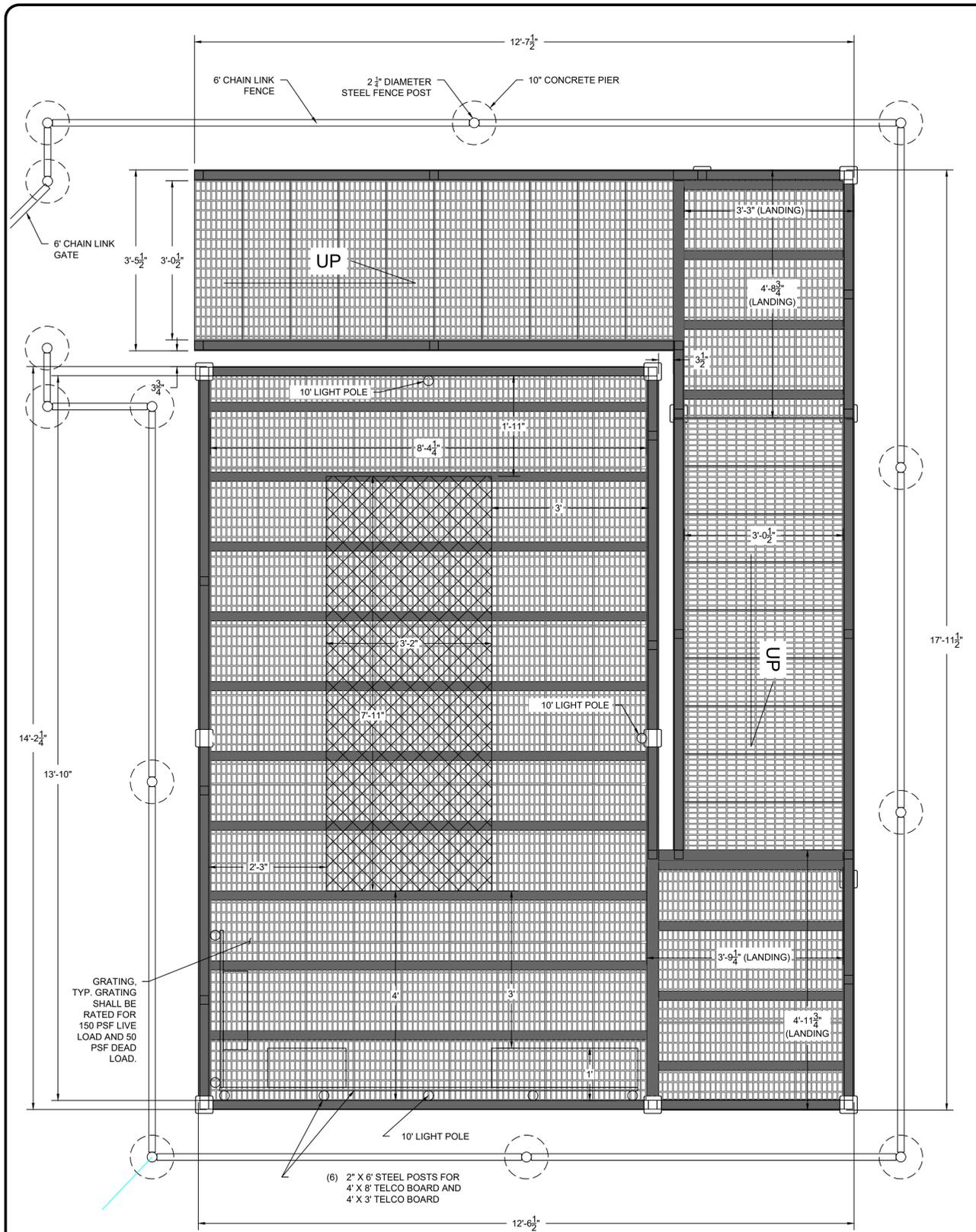
**WARNING:**  
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	WRL
DRAWN BY:	AWR
CHECKED BY:	JMC
DATE:	FEBRUARY 2022
SHEET TITLE:	

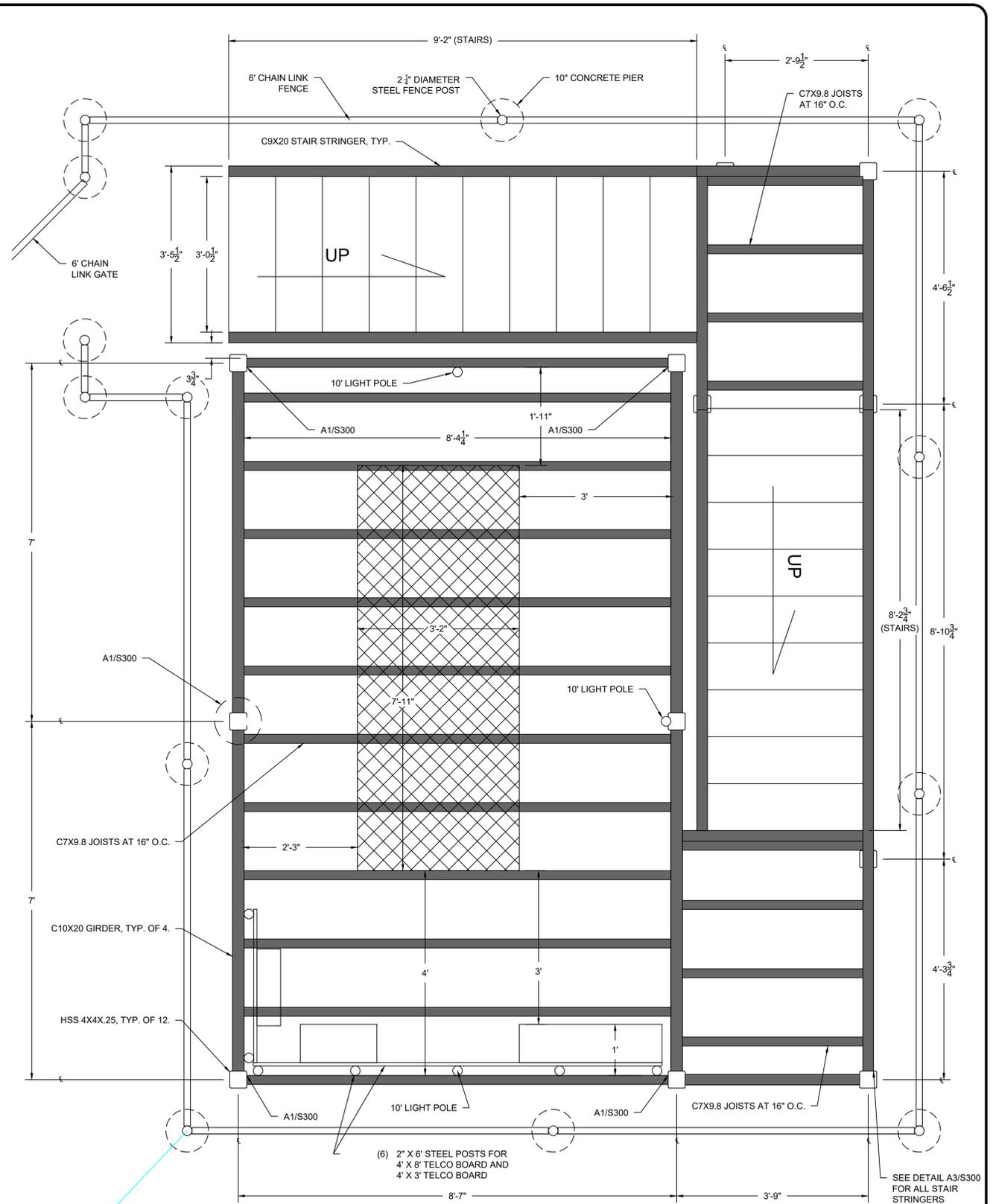
**PUMP STATION DETAILS**

DRAWING NUMBER:  
**C-502**



- NOTES:
- DESIGN LIVE LOAD = 150 PSF.
  - DESIGN DEAD LOAD = 50 PSF.
  - DESIGN WIND SPEED = 120 MPH.
  - ALL STEEL SHALL BE GALVANIZED

**A1** PLAN VIEW WITH GRATING  
SCALE: 3/4" = 1'-0"



- NOTES:
- COLUMNS ARE A500 GRADE B STEEL.
  - ALL STEEL SHALL BE GALVANIZED

**A2** FRAMING PLAN VIEW  
SCALE: 3/4" = 1'-0"

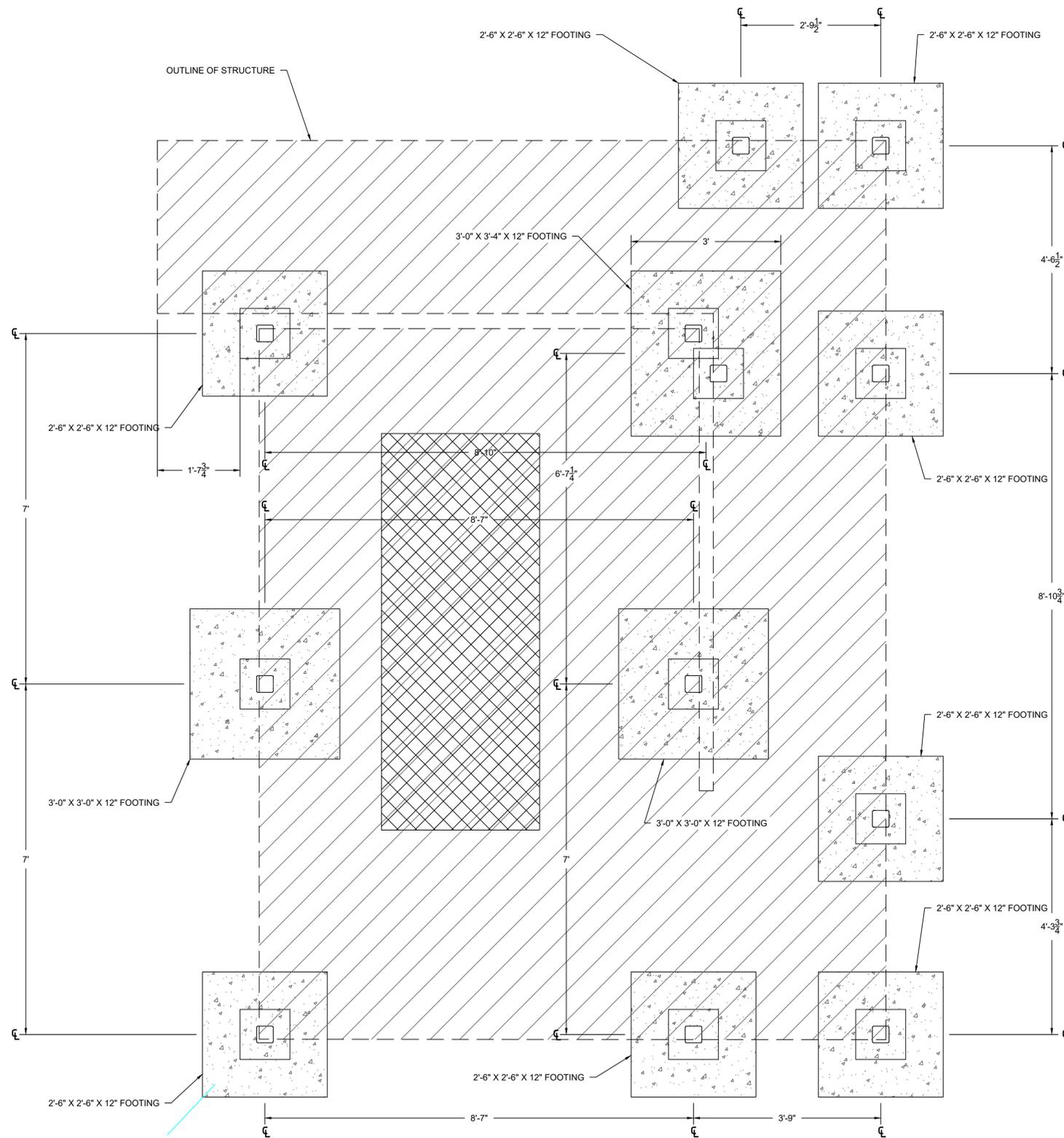
WARNING:  
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	MJM
DRAWN BY:	MJM
CHECKED BY:	MJM
DATE:	FEBRUARY 2022

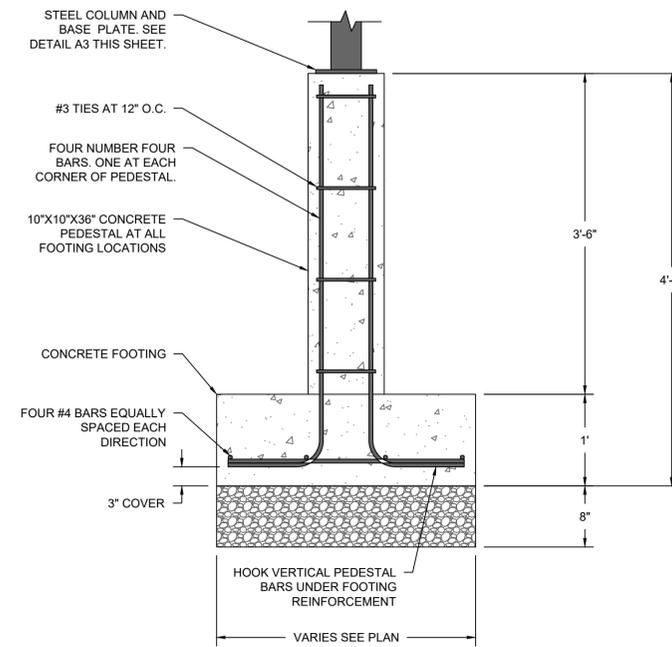
SHEET TITLE:  
**CONTROL  
PANEL  
PLATFORM**

DRAWING NUMBER:  
**S100**

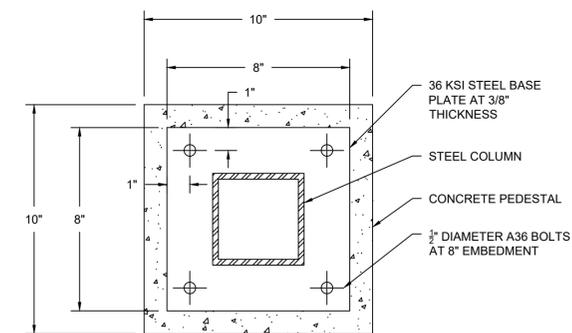


**A1** FOUNDATION PLAN  
SCALE: 3/4" = 1'-0"

- NOTES:**
1. CONCRETE COMPRESSIVE STRENGTH = 3,000 PSI MIN.
  2. CONCRETE REINFORCEMENT SHALL BE GRADE 60 MIN.
  3. SOIL BEARING CAPACITY IS ASSUMED TO BE 2,500 PSF. THIS VALUE MUST BE VERIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER IN THE FIELD PRIOR TO INSTALLATION OF FOOTINGS.
  4. FOOTINGS SHALL BEAR ON UNDISTURBED SOIL THAT IS FREE OF ORGANIC MATERIALS.
  5. ALL REINFORCEMENT COVER IS 1.5" U.N.O.



**A2** SPREAD FOOTING DETAIL  
SCALE: 1" = 1'-0"



**A3** COLUMN BASE PLATE DETAIL  
SCALE: 3" = 1'-0"

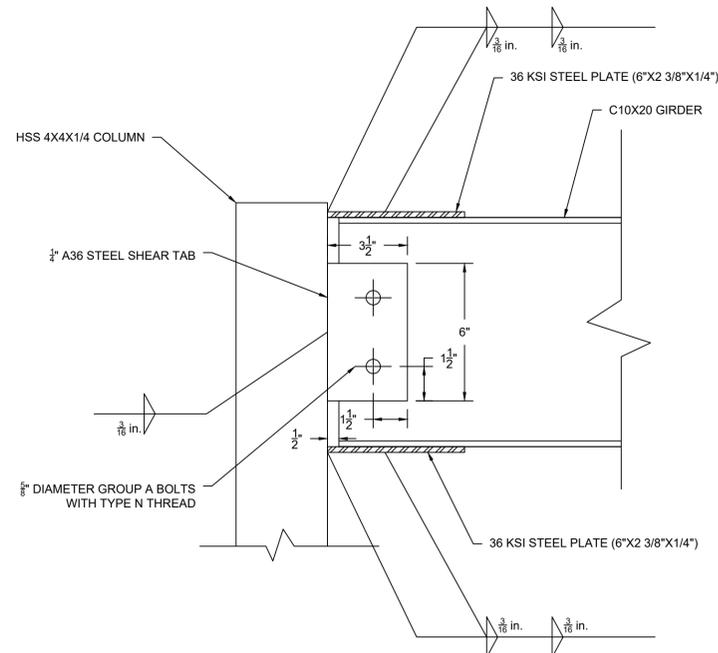
**WARNING:**  
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	MJM
DRAWN BY:	MJM
CHECKED BY:	MJM
DATE:	FEBRUARY 2022

SHEET TITLE:  
**CONTROL  
PANEL  
PLATFORM**

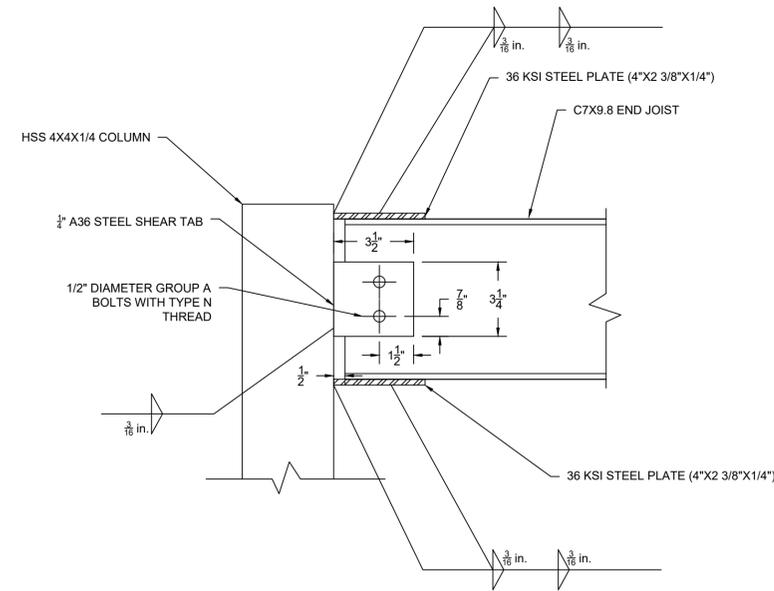
DRAWING NUMBER:  
**S200**



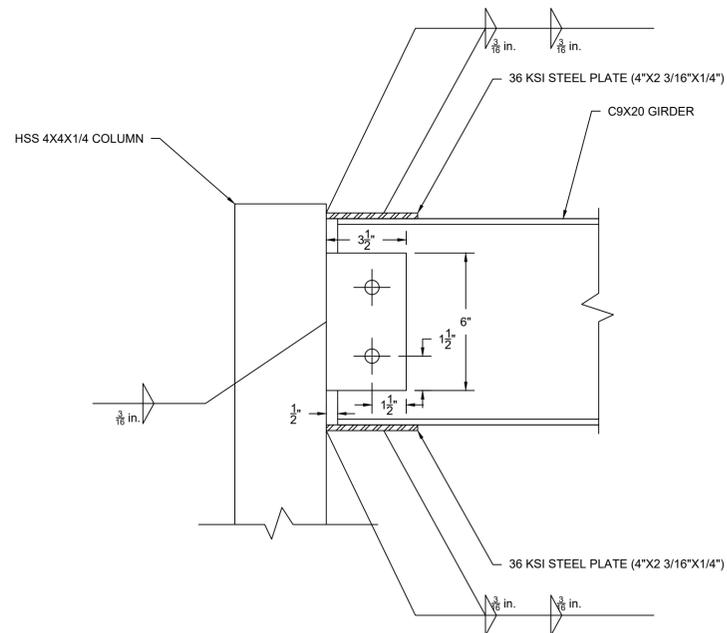
**NOTES:**

1. PROVIDE THIS CONNECTION AT ALL GIRDER TO COLUMNS CONNECTIONS

**A1** GIRDER CONNECTION DETAIL  
SCALE: N.T.S.



**A2** END JOIST CONNECTION DETAIL  
SCALE: N.T.S.



**A3** END JOIST CONNECTION DETAIL  
SCALE: N.T.S.

**NOTES:**

1. WELDS TO BE CONTINUOUS WITH NO GAS BLOW HOLES, ALL WELDS SHALL BE CHIPPED AND WIRE BRUSHED.
2. WELDS SHALL BE PERFORMED BY AN AWS D1.1 CERTIFIED WELDER. THE WELDER'S CERTIFICATE SHALL BE SUBMITTED FOR APPROVAL PRIOR TO START OF WORK.
3. ALL WELDS SHALL BE PROVIDED USING AN E70 ELECTRODE.

**SHUMAKER**  
Consulting Engineering & Land Surveying, D.P.C.

143 COURT STREET  
BINGHAMTON, NY 13901  
(607) 798-8081  
www.shumakerengineering.com

**Major Engineering**  
FROM THE GROUND UP

**WARNING:**

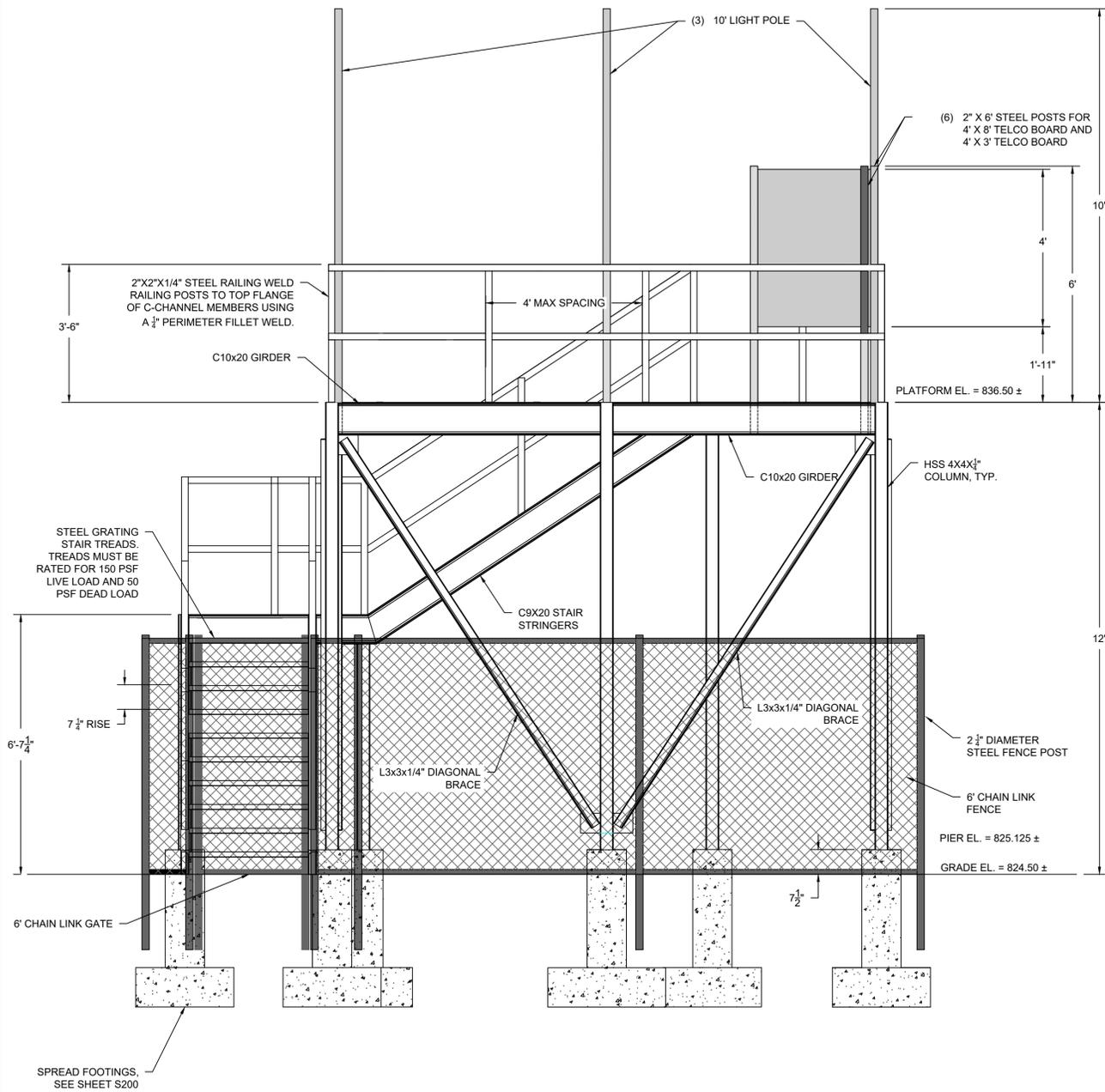
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	MJM
DRAWN BY:	MJM
CHECKED BY:	MJM
DATE:	FEBRUARY 2022

SHEET TITLE:  
**CONTROL  
PANEL  
PLATFORM**

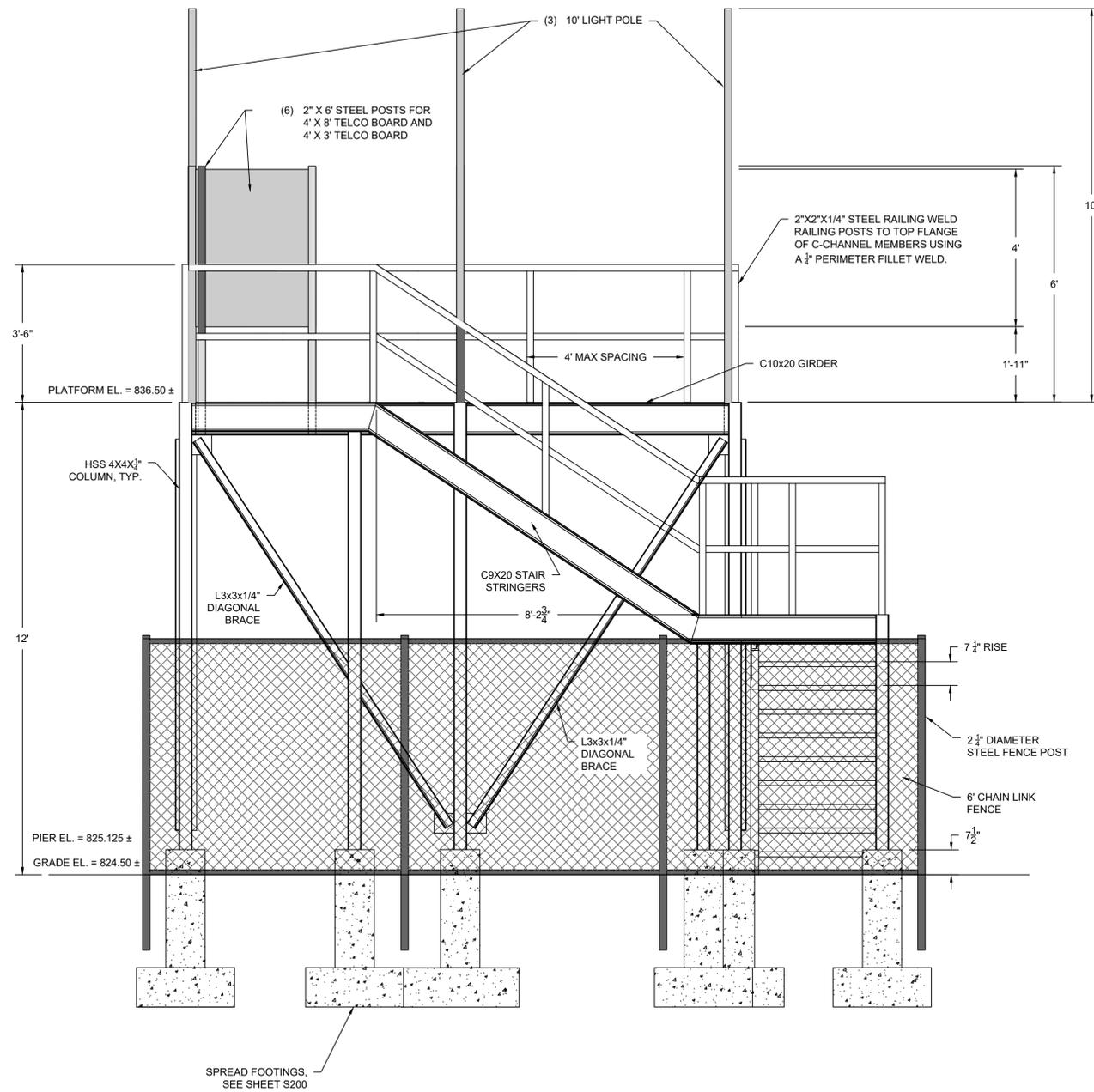
DRAWING NUMBER:  
**S300**



**NOTES:**

1. STAIR TREAD RUN = 11".
2. CONCRETE PIERS FOR FENCE POSTS NOT SHOWN FOR CLARITY
3. ALL STEEL SHALL BE GALVANIZED

**A1** FRONT ELEVATION VIEW  
SCALE: 1/2" = 1'-0"



**NOTES:**

1. STAIR TREAD RUN = 11".
2. CONCRETE PIERS FOR FENCE POSTS NOT SHOWN FOR CLARITY
3. ALL STEEL SHALL BE GALVANIZED

**A2** BACK ELEVATION VIEW  
SCALE: 1/2" = 1'-0"

**WARNING:**

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	MJM
DRAWN BY:	MJM
CHECKED BY:	MJM
DATE:	FEBRUARY 2022

SHEET TITLE:  
**CONTROL  
PANEL  
PLATFORM**

DRAWING NUMBER:  
**S400**

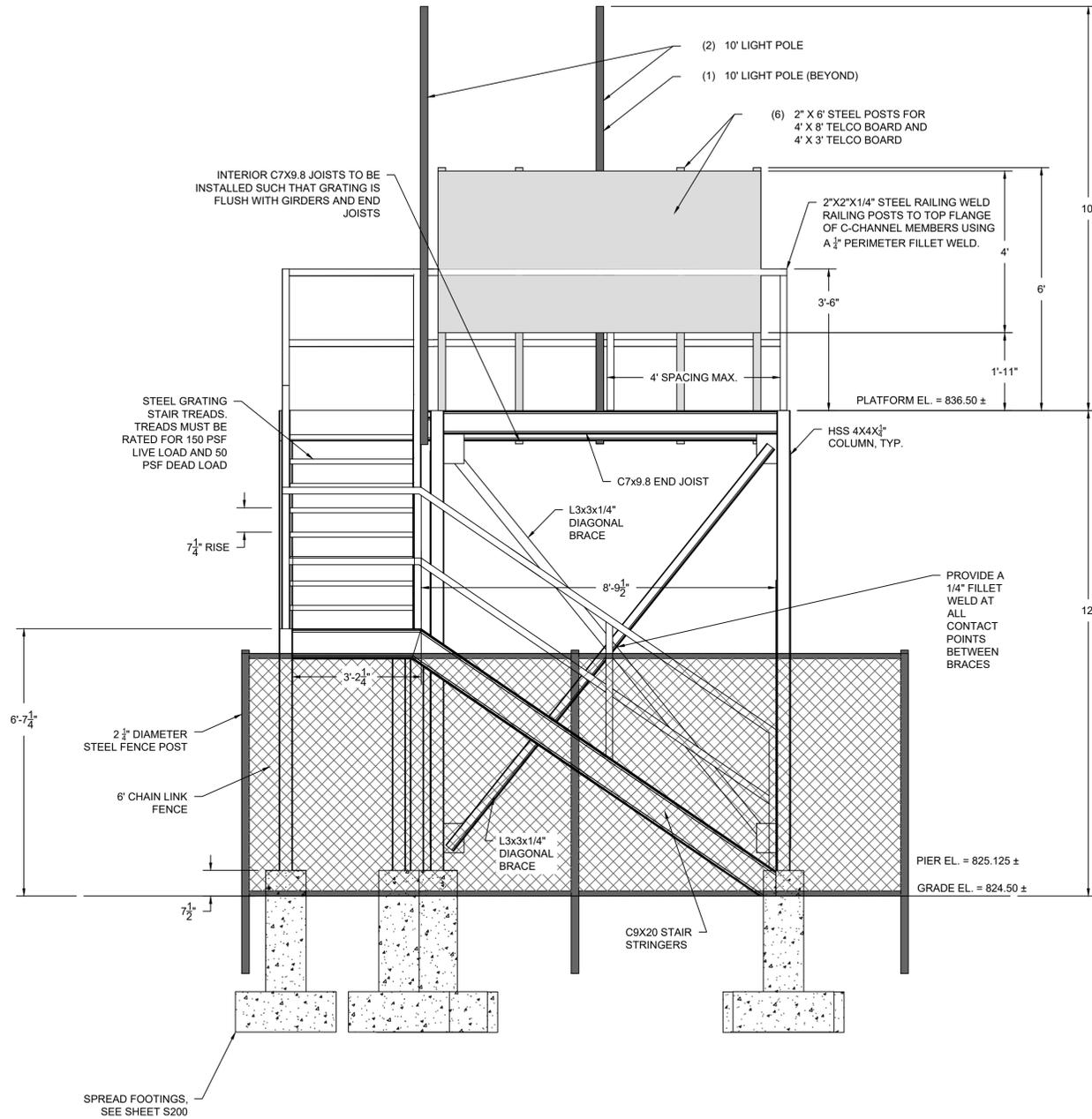
**WARNING:**  
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	MJM
DRAWN BY:	MJM
CHECKED BY:	MJM
DATE:	FEBRUARY 2022

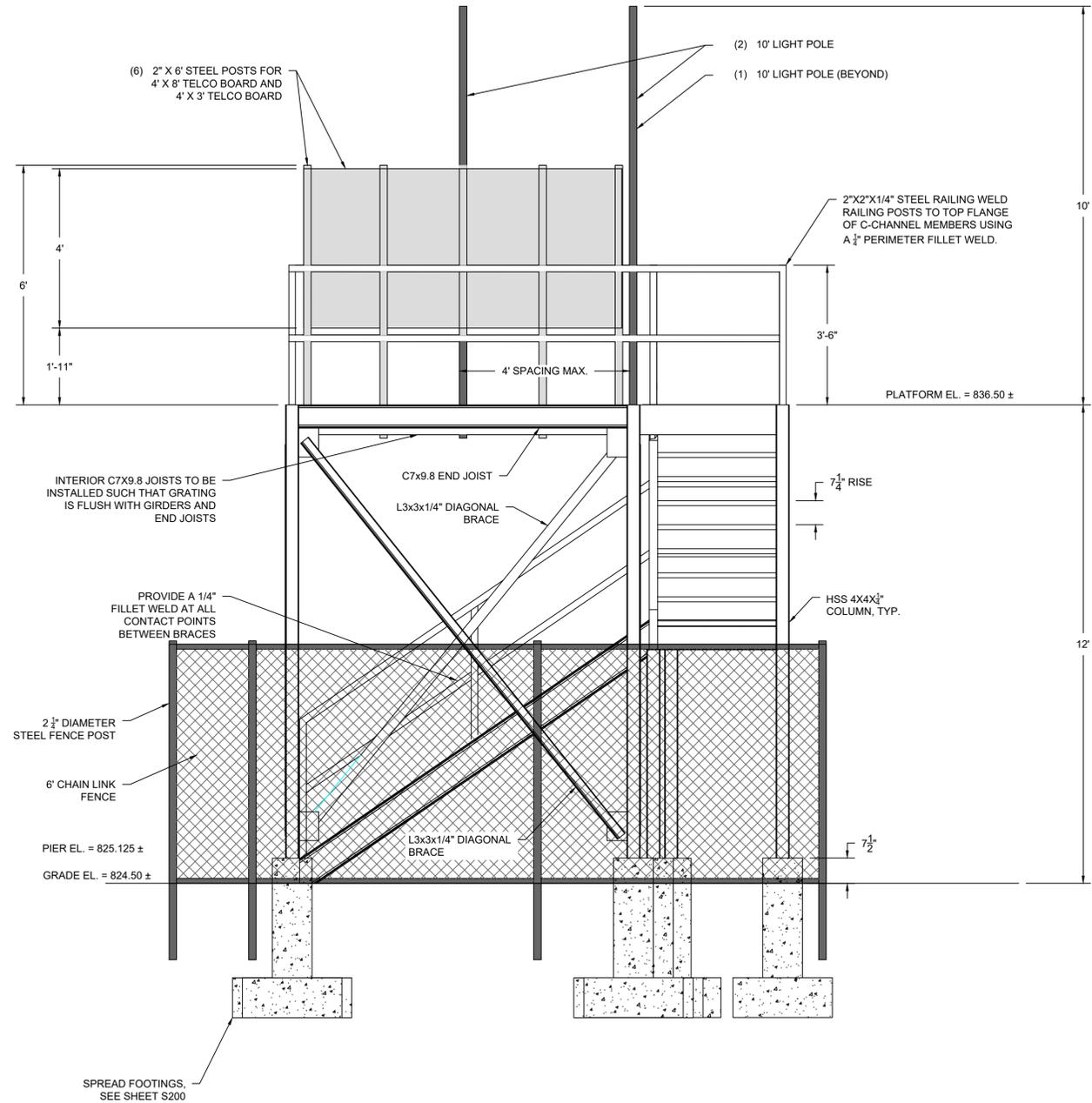
SHEET TITLE:  
**CONTROL  
PANEL  
PLATFORM**

DRAWING NUMBER:  
**S401**



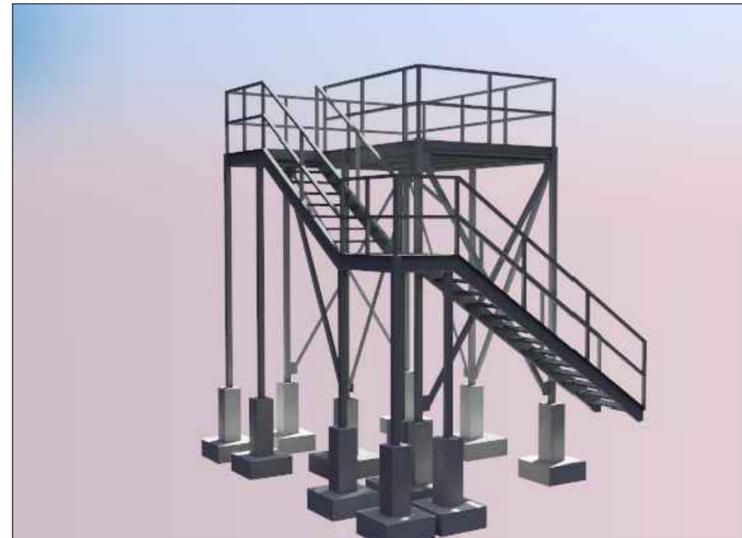
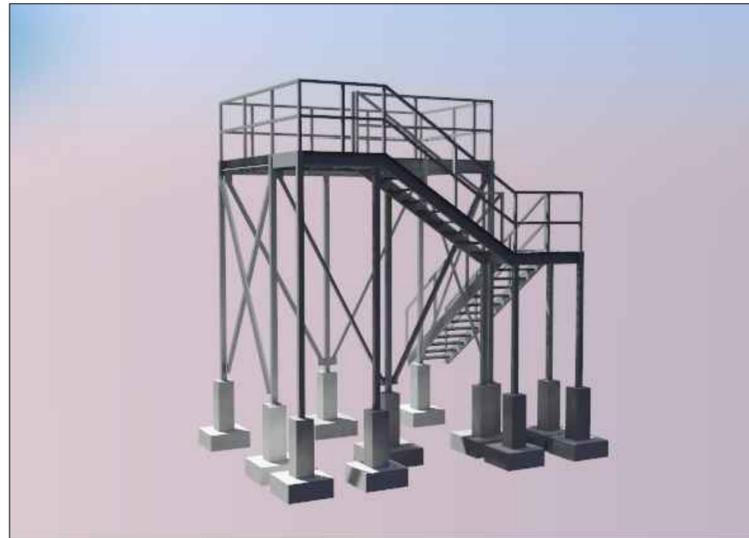
- NOTES:
1. STAIR TREAD RUN = 11".
  2. CONCRETE PIERS FOR FENCE POSTS NOT SHOWN FOR CLARITY
  3. ALL STEEL SHALL BE GALVANIZED

**A1** LEFT ELEVATION VIEW  
SCALE: 1/2" = 1'-0"



- NOTES:
1. STAIR TREAD RUN = 11".
  2. CONCRETE PIERS FOR FENCE POSTS NOT SHOWN FOR CLARITY
  3. ALL STEEL SHALL BE GALVANIZED

**A2** RIGHT ELEVATION VIEW  
SCALE: 1/2" = 1'-0"



**A1** RENDERINGS  
SCALE: N.T.S.

**SHUMAKER**  
Consulting Engineering & Land Surveying, D.P.C.

143 COURT STREET  
BINGHAMTON, NY 13901  
(607) 798-8081  
www.shumakerengineering.com

 **Major Engineering**  
FROM THE GROUND UP

WARNING:  
THE ALTERATION OF THIS MATERIAL IN ANY WAY,  
UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE  
PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT,  
ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT  
FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE  
NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS  
AND IS A CLASS "A" MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS  
SANITARY PUMP STATION**  
ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	MJM
DRAWN BY:	MJM
CHECKED BY:	MJM
DATE:	FEBRUARY 2022

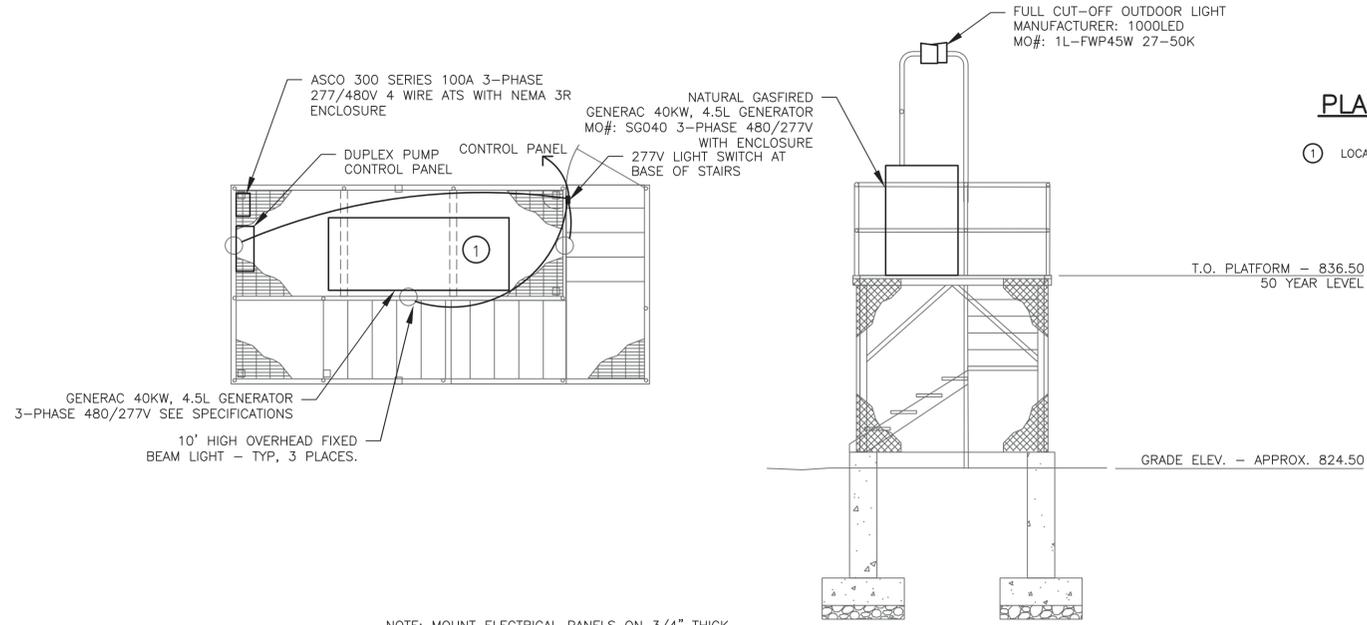
SHEET TITLE:  
**CONTROL  
PANEL  
PLATFORM**

DRAWING NUMBER:  
**S600**

**GENERAL ELECTRICAL NOTES**

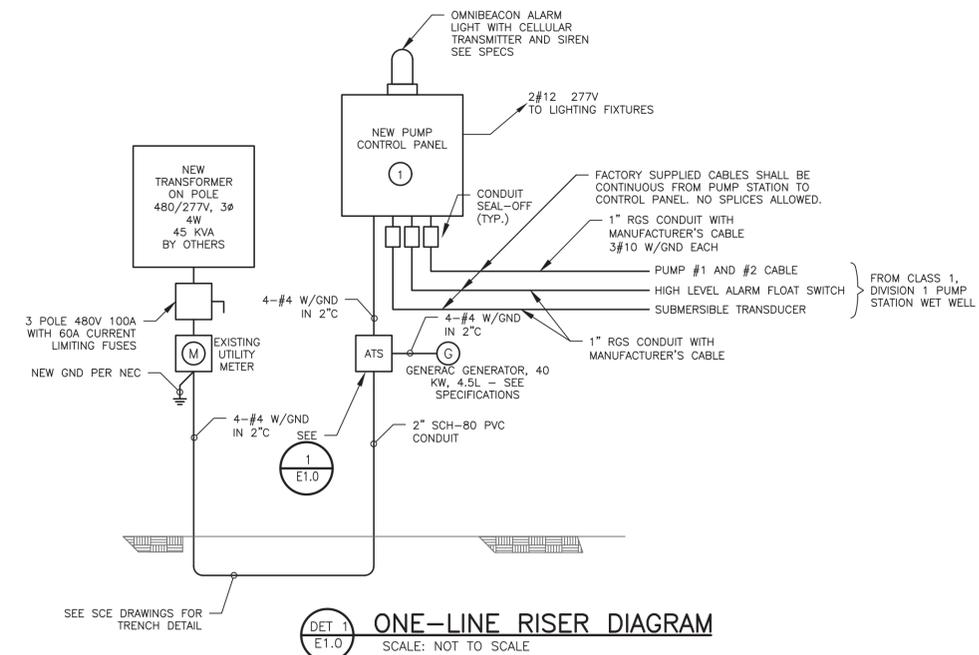
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL MATERIAL AND EQUIPMENT IN A NEAT AND WORKMANLIKE WAY. INSTALLATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE NATIONAL ELECTRIC CODE (NEC), THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA), AND ANY OTHER LOCAL CODE HAVING JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND NOTED ON THE DRAWINGS. ANY DEVIATION FROM THE DRAWINGS SHALL BE APPROVED BY THE OWNER OR ENGINEER.
- ALL WORK SHALL BE COORDINATED WITH THE OTHER TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL HIS TOOLS, DEBRIS, AND GENERAL CLEANUP FROM HIS WORK.
- THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIALS REQUIRED FOR THE INSTALLATION HIS WORK.
- UNLESS OTHERWISE NOTED ON THE CONTRACT DOCUMENTS, THE FOLLOWING LIST REPRESENTS THE TYPICAL MOUNTING HEIGHTS REQUIRED FOR THE DEVICES SHOWN.
  - A. SWITCHES.....48" AFF
  - B. RECEPTACLES.....18" AFF
  - C. POWER PANELS (TO TOP).....72" AFF
  - D. DISCONNECT SWITCHES (TO TOP).....60" AFF

- THE HEIGHTS INDICATED SHALL BE NOMINAL TO THE BOTTOM OF THE BOX, REQUIRING ONLY ONE BLOCK CUT FOR FLUSH MOUNTED DEVICES. MAINTAIN HEIGHT CONSISTENCY BETWEEN SURFACE AND FLUSH MOUNTED DEVICES.
- EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL NEW POWER OUTLETS, DATA OUTLETS, AND TELEPHONE OUTLETS SHALL BE CONFIRMED WITH OWNER, FURNITURE SUPPLIER, AND ARCHITECT BEFORE ROUGH-IN.
  - IN GENERAL, CONDUIT RUNS BETWEEN PULL BOXES SHALL NOT EXCEED THE EQUIVALENT OF TWO 90 DEGREE BENDS AND IN NO CASE EXCEED THREE EQUIVALENT 90 DEGREE BENDS. IN LONG STRAIGHT CONDUIT RUNS LOCATE PULL BOXES AT 100 FOOT INTERVALS. INSTALL ELECTRICAL BOXES AS SHOWN ON DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND REGULATORY REQUIREMENTS. USE CAST BOXES IN MANHOLE AND IN OUTSIDE LOCATIONS.
  - ALL CONDUCTORS TO BE SOFT DRAWN COPPER WITH 600 VOLT INSULATION MINIMUM SIZE TO BE #12 AWG. WIRE SIZED #10 AWG AND SMALLER SHALL BE SOLID COPPER WITH TYPE 'THWN' OR 'THHN' INSULATION. CABLE SIZED #8 AND LARGER SHALL BE STRANDED COPPER WITH TYPE 'THWN' OR 'XHHW' INSULATION EXCEPT WHERE NOTED OTHERWISE. ALL WIRING SHALL BE INSTALLED IN RGS CONDUIT. COMPLETELY SWAB RACEWAYS BEFORE INSTALLING CONDUCTORS.
  - PROVIDE CONNECTIONS TO ALL EQUIPMENT, MOTORS, ETC. FURNISHED BY OTHERS TO MAKE A COMPLETE, WORKING INSTALLATION.
  - INSTALL WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET, AND JUNCTION BOXES, AND AT LOAD CONNECTIONS.
    - A. USE BRANCH CIRCUIT OR FEEDER NUMBER TO IDENTIFY PULL BOXES POWER AND LIGHTING CIRCUITS.
    - B. USE CONTROL WIRE NUMBER AS INDICATED ON SCHEMATIC AND INTERCONNECTION DIAGRAMS TO IDENTIFY CONTROL WIRING.
  - PROVIDE A TYPED PANEL SCHEDULE FOR EACH PANEL USED IN THIS PROJECT.
  - THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY TESTS TO INSURE THAT THE ENTIRE INSTALLATION IS FREE FROM IMPROPER GROUNDS AND FROM SHORTED AND/OR OPEN CIRCUITS. VOLTAGE AND CURRENT TESTS SHALL BE MADE BEFORE ANY CIRCUITS ARE PLACED IN OPERATION.
  - IT IS THE INTENT OF THIS SPECIFICATION FOR THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM WITHOUT ANY EXCEPTIONS. IN THE UNLIKELY CASE WHERE THESE PLANS AND SPECIFICATIONS SHOW OTHERWISE DUE TO ERRORS OR OMISSIONS THE CONTRACTOR SHALL PROVIDE A LIST OF EXCEPTIONS WITH HIS BID. OTHERWISE, EXTRAS DURING CONSTRUCTION WILL NOT BE ALLOWED IN ORDER TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.
  - ALL EQUIPMENT SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT.



**PLAN KEY NOTES**  
 ① LOCATE GENERATOR PER STRUCTURAL PLAN

**PROPOSED PUMP STATION CONTROL PANEL PLATFORM SCHEMATIC**  
 SCALE: NOT TO SCALE



**ONE-LINE RISER DIAGRAM**  
 SCALE: NOT TO SCALE

**ELECTRICAL KEY NOTES**

① FURNISHED BY OTHERS, INSTALL BY EC

**SHUMAKER**  
 Consulting Engineering & Land Surveying, D.P.C.  
 143 COURT STREET  
 BINGHAMTON, NY 13901  
 (607) 798-8081  
 www.shumakerengineering.com



**WARNING:**  
 THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

TOWN OF UNION  
**WEST CORNERS**  
**SANITARY PUMP STATION**  
 ENDICOTT, NY

PROJECT NO:	20044
PHASE:	FINAL
DESIGNED BY:	BES
DRAWN BY:	TW
CHECKED BY:	BES
DATE:	JANUARY 2022
SHEET TITLE:	

**ELECTRICAL NOTES & DETAILS**

DRAWING NUMBER:  
**E1.0**