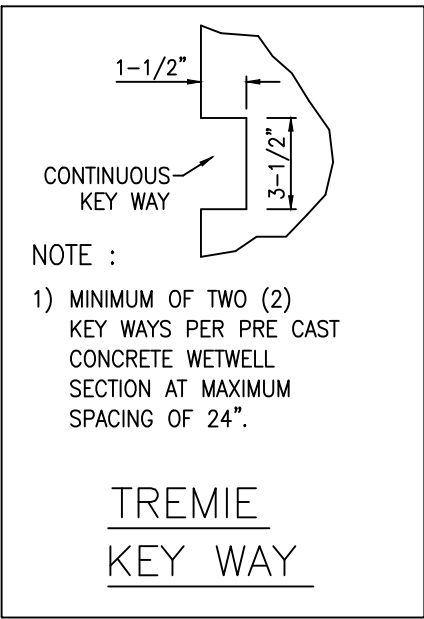
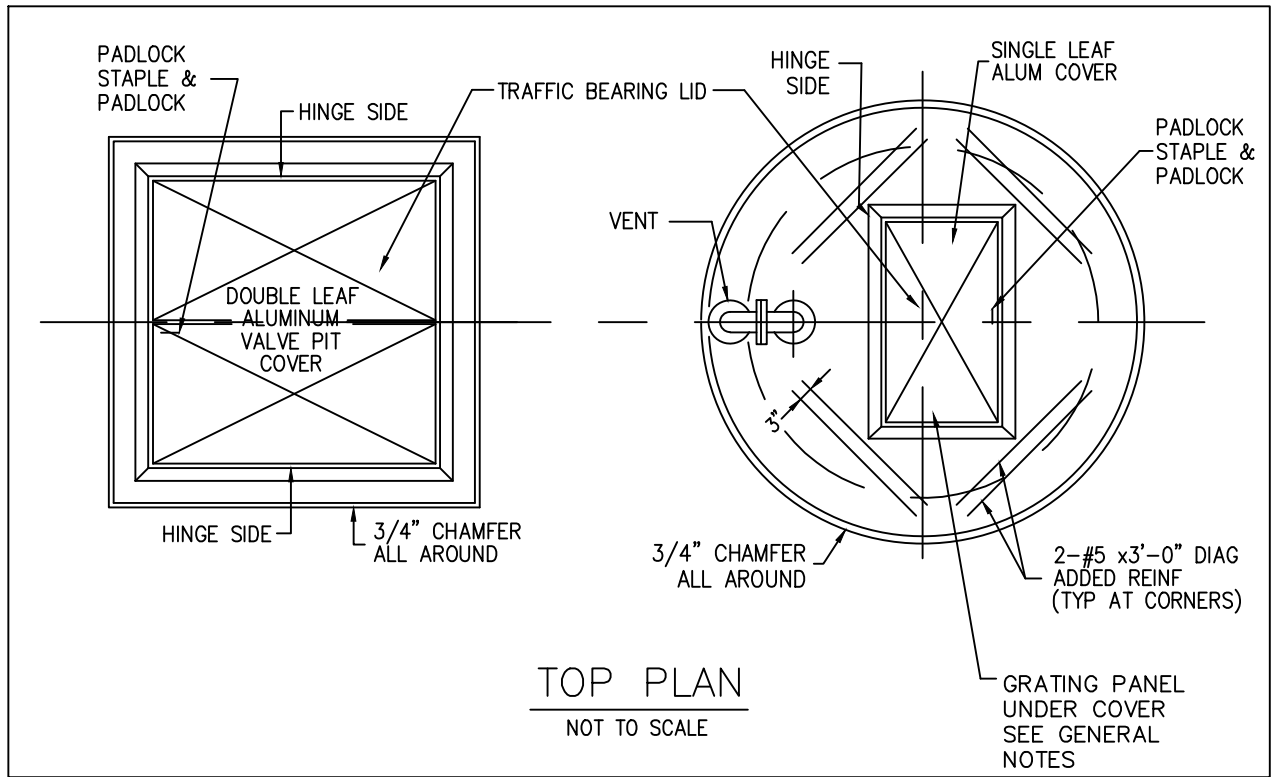
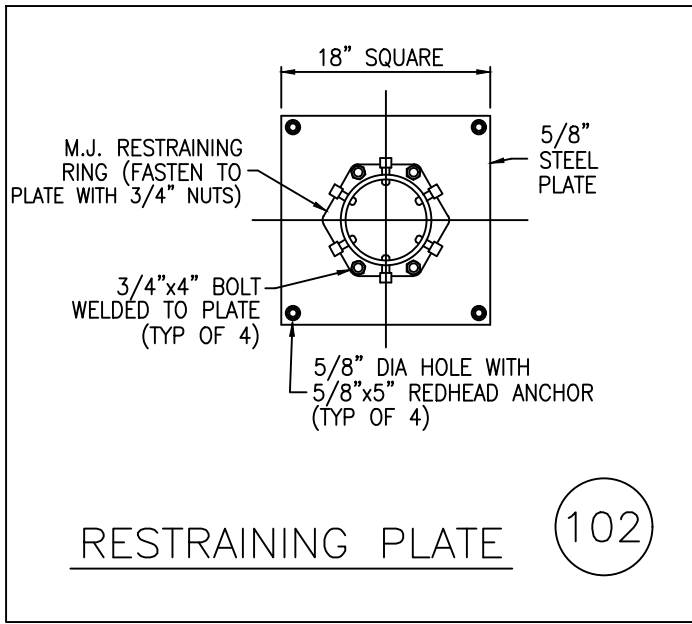
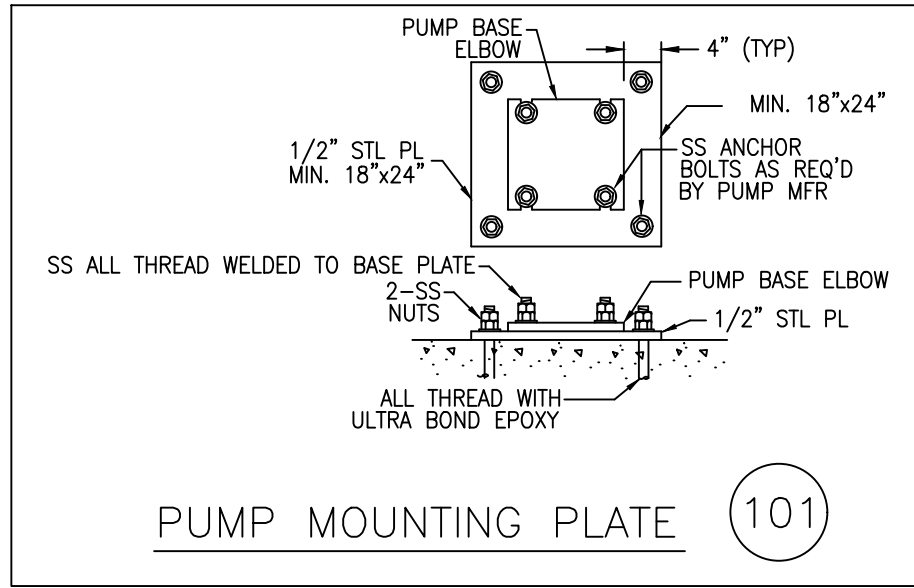
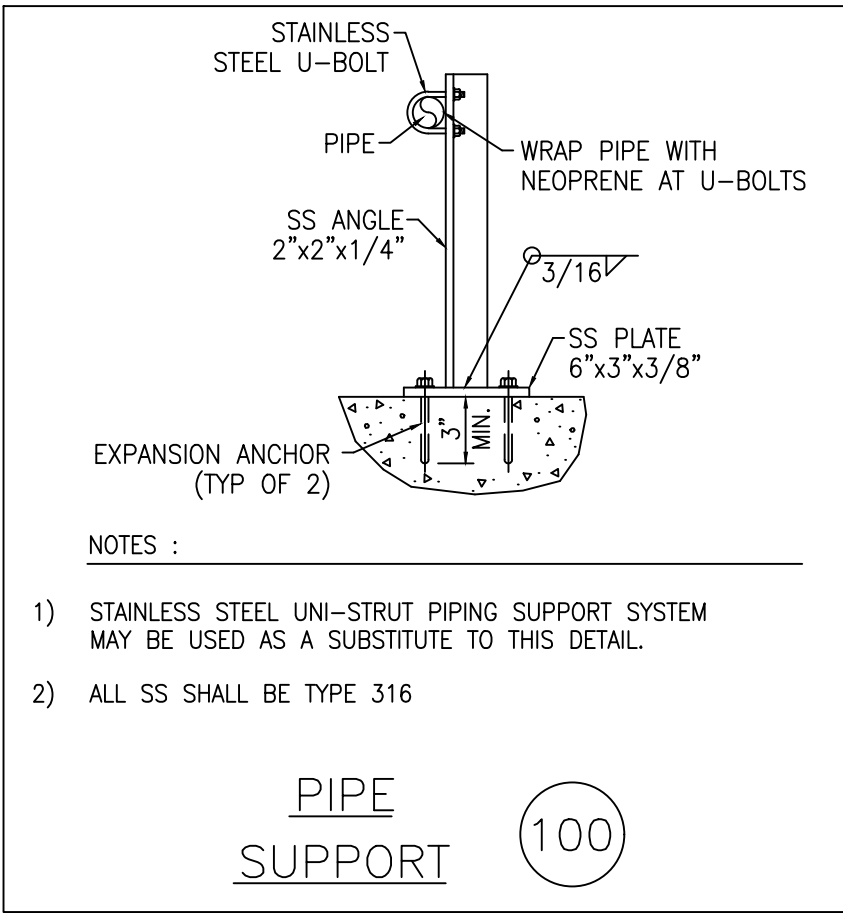
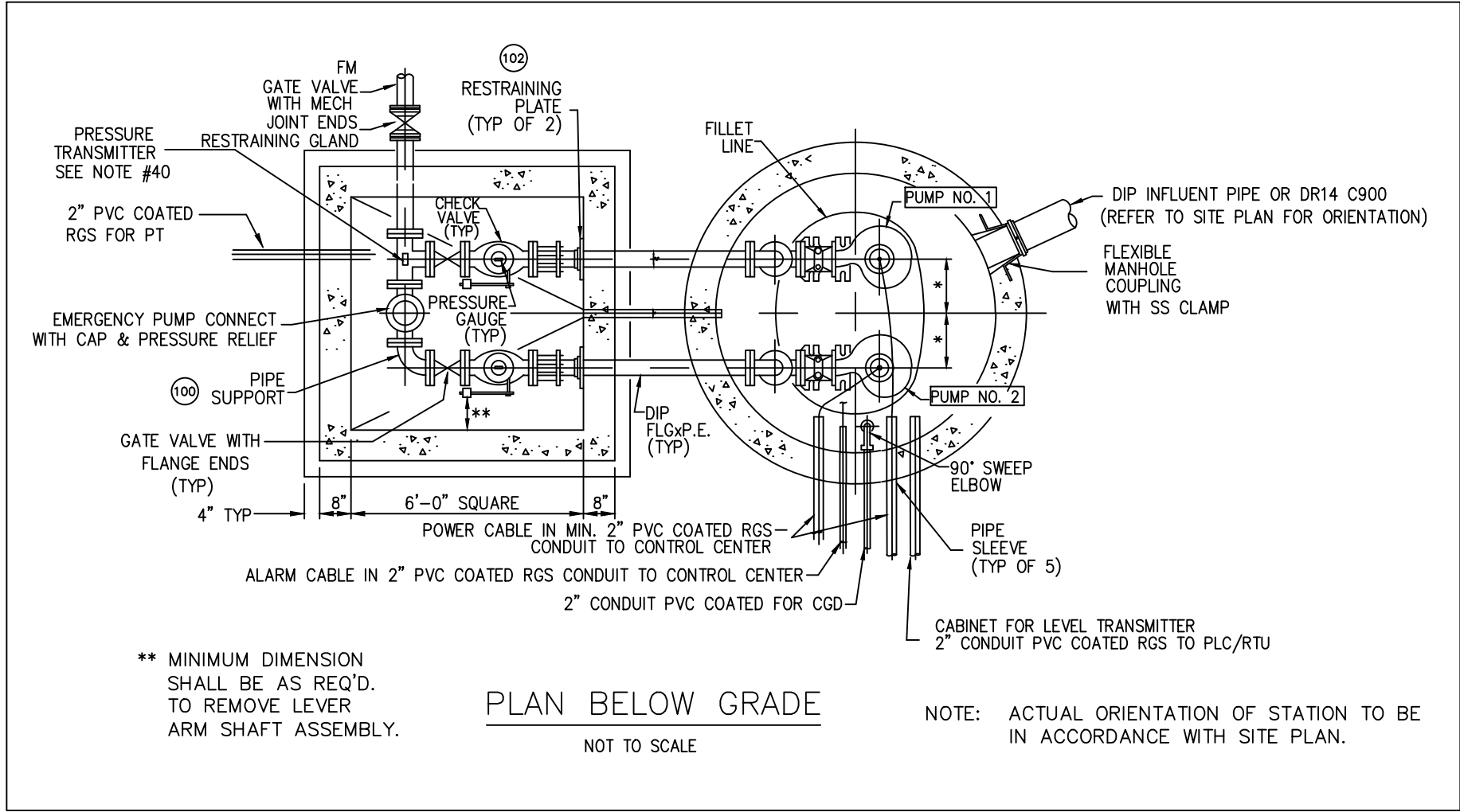


ENGINEER TO PROVIDE SITE PLAN INCLUDING:

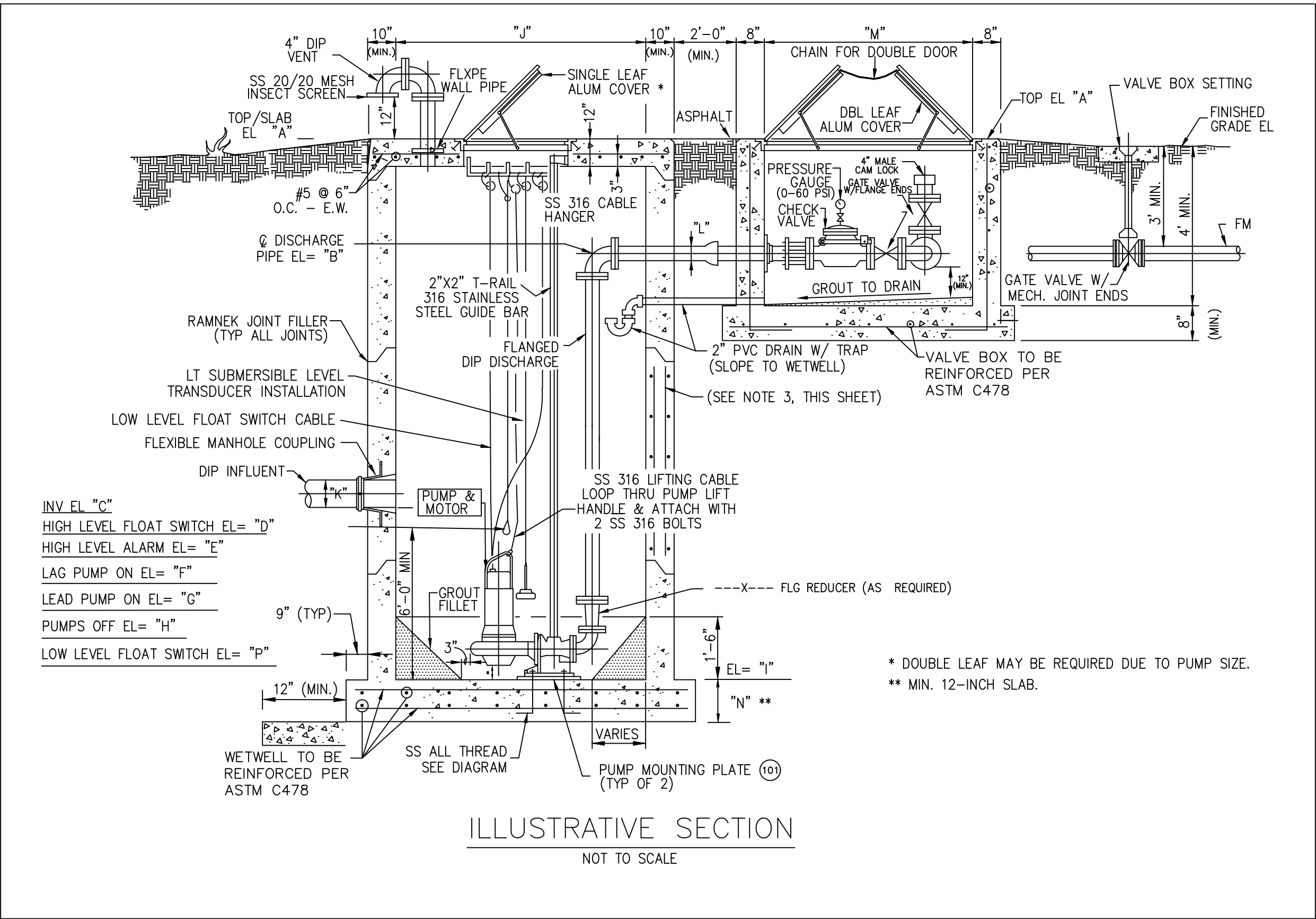
- 6' HIGH CHAIN LINK FENCE AROUND ENTIRE EASEMENT W/ 15' DOUBLE DOOR GATES.
- 30'x30' MINIMUM EASEMENT AREA.
- 1" WATER SERVICE & METER AT R/W LINE.
- 15' ASPHALT DRIVEWAY.
- RPZ BACKFLOW PREVENTER.
- GUARD POST(S), AS REQUIRED.
- NORTH ARROW.

SITE PLAN:

(PROVIDE SITE PLAN IN THIS SECTION)



ELEVATION DATA		
ALL ELEVATIONS ARE N.G.V.D.		
TOP SLAB ELEVATION	ELEVATION "A"	X
Ø DISCHARGE PIPE ELEVATION	ELEVATION "B"	X
INFLUENT PIPE INVERT ELEVATION	ELEVATION "C"	X
HIGH LEVEL FLOAT SWITCH	ELEVATION "D"	X
HIGH LEVEL ALARM	ELEVATION "E"	X
LAG PUMP ON	ELEVATION "F"	X
LEAD PUMP ON	ELEVATION "G"	X
ALL PUMPS OFF	ELEVATION "H"	X
WETWELL BASE SLAB ELEVATION	ELEVATION "I"	X
WETWELL INSIDE DIAMETER	"J"	X
INFLUENT PIPE DIAMETER	"K"	X
PUMP DISCHARGE PIPE DIAMETER	"L"	X
VALVE BOX SIZE	"M"	X
BASE SLAB THICKNESS	"N"	X
LOW LEVEL FLOAT SWITCH	ELEVATION "P"	X
OPERATING RANGE	N/A	X
BROWARD COUNTY 100 YEAR FLOOD	ELEVATION	X
APPROVED STORM WATER PERMIT 100 YEAR FLOOD	ELEVATION	X



## GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SUNRISE UTILITY STANDARDS AND FLORIDA BUILDING CODE, LATEST REVISION.
- THE CONTRACTOR SHALL VERIFY ALL INFORMATION SHOWN PRIOR TO CONSTRUCTION AND ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER OF RECORD.
- CONCRETE SHALL HAVE NOT LESS THAN 4000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS. PRE-CAST CONCRETE SHALL BE 4000 P.S.I. CLASS II MINIMUM.
- REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPEC. A-615 AND SHALL BE DEFORMED ACCORDING TO A.S.T.M. SPEC. 305.
- ALL PIPING SHALL BE DUCTILE IRON PER AWWA C151, 40 MIL. EPOXY LINED, FLANGED JOINTS UNLESS OTHERWISE NOTED. ALL FITTING SHALL BE DUCTILE IRON OR CAST IRON PER AWWA C110, FLANGED JOINTS UNLESS OTHERWISE NOTED.
- ALL PIPE OPENINGS SHALL BE CAST AT TIME OF FABRICATION.
- SEWAGE PUMPS SHALL BE DUPLEX SUBMERSIBLE AS MANUFACTURED BY FLYGT CORP., WILCO EMU, INGERSOLL DRESSER OR EQUAL APPROVED BY CITY.
- PUMPS SHALL NOT BE SMALLER THAN FIVE HORSEPOWER UNLESS APPROVED BY THE CITY.
- WILCO EMU PUMP TYPE SHALL BE OF EMU TYPE HIGH PRESSURE GASKET SYSTEM.
- OPENINGS AROUND PIPES SHALL BE SEALED WITH EMBECO MORTAR.
- ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM WITHIN THE LIMITS OF CONSTRUCTION.
- SHOP DRAWING FOR COMPLETE LIFT STATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL AND THEN SUBMITTED TO THE CITY PLANNING & DEVELOPMENT DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO DELIVERY TO SITE.
- WETWELL & VALVE PIT SHALL BE COATED INSIDE AND OUTSIDE, PIPING SHALL BE COATED OUTSIDE. ALL APPLICATIONS SHALL RECEIVE TWO COATS (ONE GRAY, ONE WHITE) 3/4" OF MAINSTAY ML-72 AND 100 MILLS OF MAINSTAY DS-5, AS MANUFACTURED BY MADEWELL PRODUCTS CORP. OR APPROVED EQUAL.
- WET WELL SHALL BE PROVIDED WITH A SERIES X RETRO-GRADE AS MANUFACTURED BY HALLIDAY PRODUCTS, ALUMINUM GRATING PANEL OR APPROVED EQUAL AND INSTALLED BENEATH EXISTING ACCESS COVER.
- CONTRACTOR SHALL ENSURE NO FLOATATION OF WETWELL DURING CONSTRUCTION.
- GATE VALVES IN VALVE PIT SHALL BE RESILIENT SEAT, ECCENTRIC, WHEEL OPERATED OR EQUAL.
- CHECK VALVE SHALL BE KENNEDY, IRON BODY, BRONZE MOUNTED, SWING CHECK, LEVER & WEIGHT, OR APPROVED EQUAL.
- PIPE COUPLING SHALL BE CAST IRON, DRESSER STYLE 127 OR EQUAL.
- SIX (6) COPIES OF OPERATIONAL AND MAINTENANCE MANUAL AND COPIES OF ELECTRICAL CONTROL PANEL SCHEMATICS ARE TO BE SUBMITTED TO THE CITY ENGINEER PRIOR TO FINAL ACCEPTANCE.
- MINIMUM DISCHARGE PIPE SHALL BE 4" IN DIAMETER.
- ALL FITTINGS INSIDE WETWELL AND VALVE PIT SHALL BE FLANGED, AND ALL HARDWARE INSIDE WETWELL SHALL BE STAINLESS STEEL TYPE #316.
- ELECTRICAL CONTROL PANEL SHALL BE PROVIDED WITH A UL LABEL, AND BE MANUFACTURED BY A UL 508 MANUFACTURER.
- A BAKELITE PLAQUE SHALL BE PROVIDED, MOUNTED ON THE ENTRANCE GATE, NOT SMALLER THAN 60 SQUARE INCHES, WITH WHITE ENGRAVED LETTERS ON A RED BACKGROUND, WITH THE FOLLOWING NOTATIONS:

CITY OF SUNRISE  
FLORIDA  
SEWAGE LIFT STATION NO. \_\_\_\_\_  
PLEASE REPORT RED FLASHING ALARM LIGHT  
CALL TEL NO. (954) 898-6087 OR (954) 741-2580

- MOTORS LARGER THAN 15 HP SHALL BE 480V/3PH. MOTORS 15 HP AND LESS SHALL BE 240V/3PH. OR 480V/3PH
- PHASE MONITOR SHALL BE MOTOR SAVER TYPE 250 OR 480 VOLT OR DIVERSIFIED OR EQUAL.
- MOTOR STARTERS, CIRCUIT BREAKERS AND ELECTRICAL CONTROL DEVICES SHALL BE SQUARE-D #536 AND SHALL BE SIZED PER N.E.C. CODE.
- ELECTRICAL PANEL MUST HAVE A STORAGE COMPARTMENT INSIDE PANEL DOOR FOR OPERATIONAL AND MAINTENANCE MANUAL.
- ELECTRICAL SYSTEM SHALL BE PROTECTED BY A LIGHTNING ARRESTOR AND SURGE CAPACITOR.
- POWER TOOL OUTLET TO BE MOUNTED IN DEAD FRONT AND MUST BE A G.F.I. RECEPTACLE.
- HIGH-LEVEL ALARM LIGHT TO BE WIRED SEPARATE FROM CONTROL WIRING AND BE CIRCUIT BREAKER PROTECTED.
- SEAL OFFS TO BE PROVIDED ON ALL ELECTRICAL CONDUITS ENTERING CONTROL PANEL FROM WETWELL. TYPE ES SEALING HUBS.
- PROVIDE 48" HIGH CHERRY HEDGES 5' OUTSIDE PERIMETER FENCE OF LIFT STATION.
- LANDSCAPE MAINTENANCE TO BE DONE BY HOMEOWNERS ASSOCIATION AND/OR DEVELOPER. HEDGES SHALL BE MAINTAINED TO A MAXIMUM HEIGHT OF 72".
- HOUR METERS 2 1/2" ROUND TYPE 120V CRAMER 635G TO BE PROVIDED.
- SELECTOR SWITCHES SHALL BE SQUARE-D 9001-KS43BH1 TO BE PROVIDED.
- PILOT LIGHTS SHALL BE SQUARE-D 9001-KP3BR9.
- LIGHTNING ARRESTOR SHALL BE GENERAL ELECTRIC.
- SURGE ARRESTOR SHALL BE GENERAL ELECTRIC.
- WETWELL SHALL BE IN ACCORDANCE WITH CLASS I, DIV 1 OR 2, HAZARDOUS LOCATION REQUIREMENTS, PER NEC.
- SUBMERSIBLE PRESSURE TRANSDUCER SHALL BE AS DESCRIBED IN THE STANDARD SPECIFICATIONS.
- PRESSURE TRANSMITTER SHALL BE ASCHROFT MODEL #K1-7-M02-42-C1 (0-6-PSI) WITH M-6 #316 STAINLESS STEEL DIAPHRAGM SEAL AND DECO #53640362 SURGE ARRESTOR WITH JUNCTION BOX.
- PROGRAMMABLE LOGIC CONTROLLER SHALL BE GENERAL ELECTRIC FANUC VERSAMAX MODEL #C200.
- RADIO SYSTEM SHALL BE MICROWAVE DATA SYSTEM MODEL #MDS9810, CABLE WAVE RF CABLE, WITH OVER THE AIR DIAGNOSTICS.
- BACKFLOW PREVENTER SHALL BE A WATTS #909 RP2 TYPE.
- CONTROL PANEL SHALL FACE NORTH/SOUTH. ON LIFT STATION SITE.
- ALL CONDUIT SHALL BE AS SPECIFIED ON THE LIFT STATION SPECIFICATION.
- PROVIDE SOLAR PANEL FOR SCADA RADIO BATTERY BACK UP.

LEAVE BLANK - FOR CITY USE ONLY

Designed By:					
Drawn By:					
Checked By:					
SYMBOL	NO.	DATE	REVISIONS	CITY	BY
	2	08/08	UPDATE TO ALL DETAILS	FV	
	1	04/04	UPDATE TO ALL DETAILS	FV	



CITY OF SUNRISE

APPROVED BY:

REGISTERED ENGINEER NO. \_\_\_\_\_  
STATE OF FLORIDA

DATE: \_\_\_\_\_

STANDARD LIFT STATION  
DETAILS AND NOTES

ORIGINAL ISSUE  
DATE: 04/10/98

NOT TO  
SCALE

PROJECT  
NUMBER

GENERAL DETAILS

1  
5