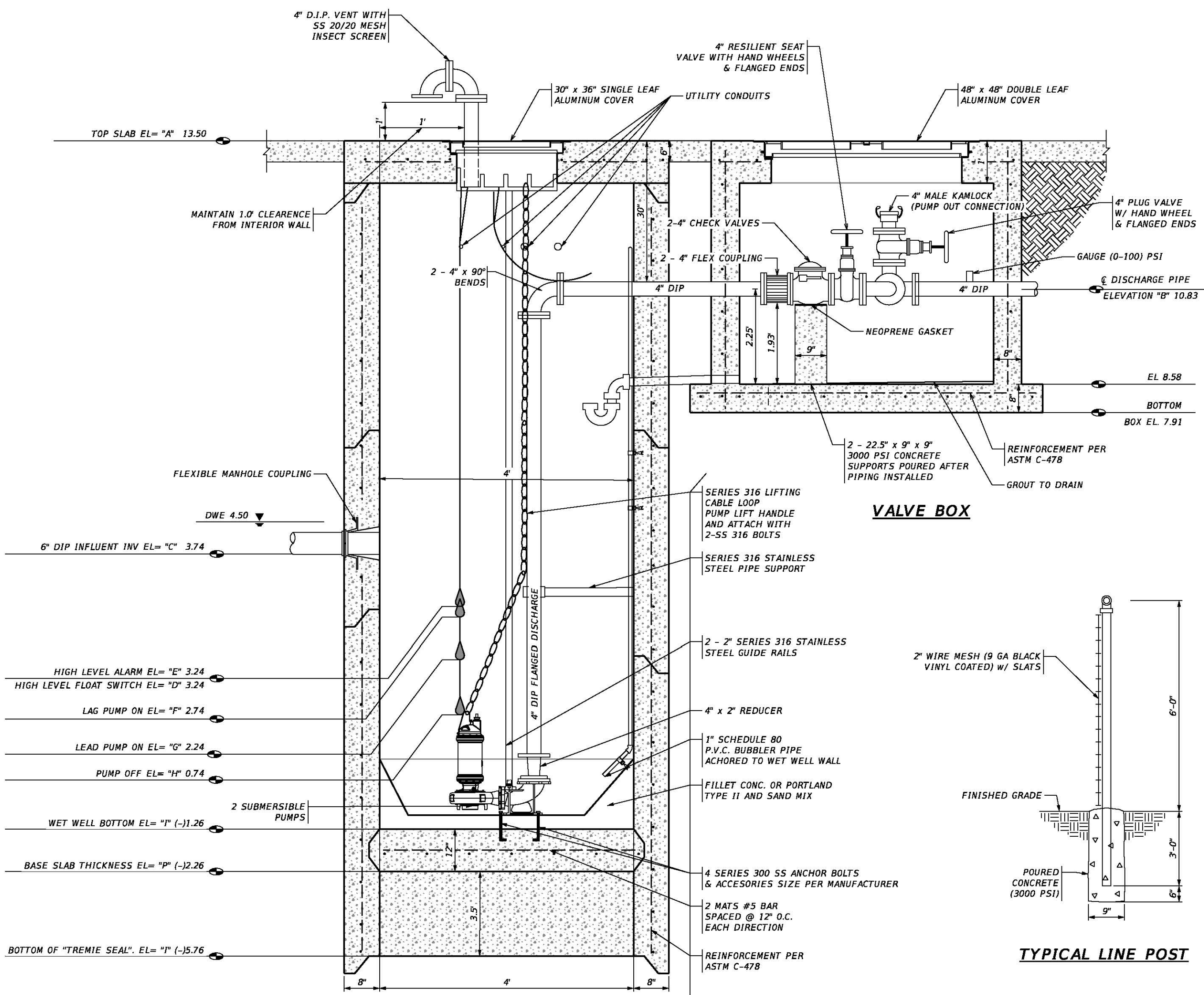


PLAN
N.T.S.



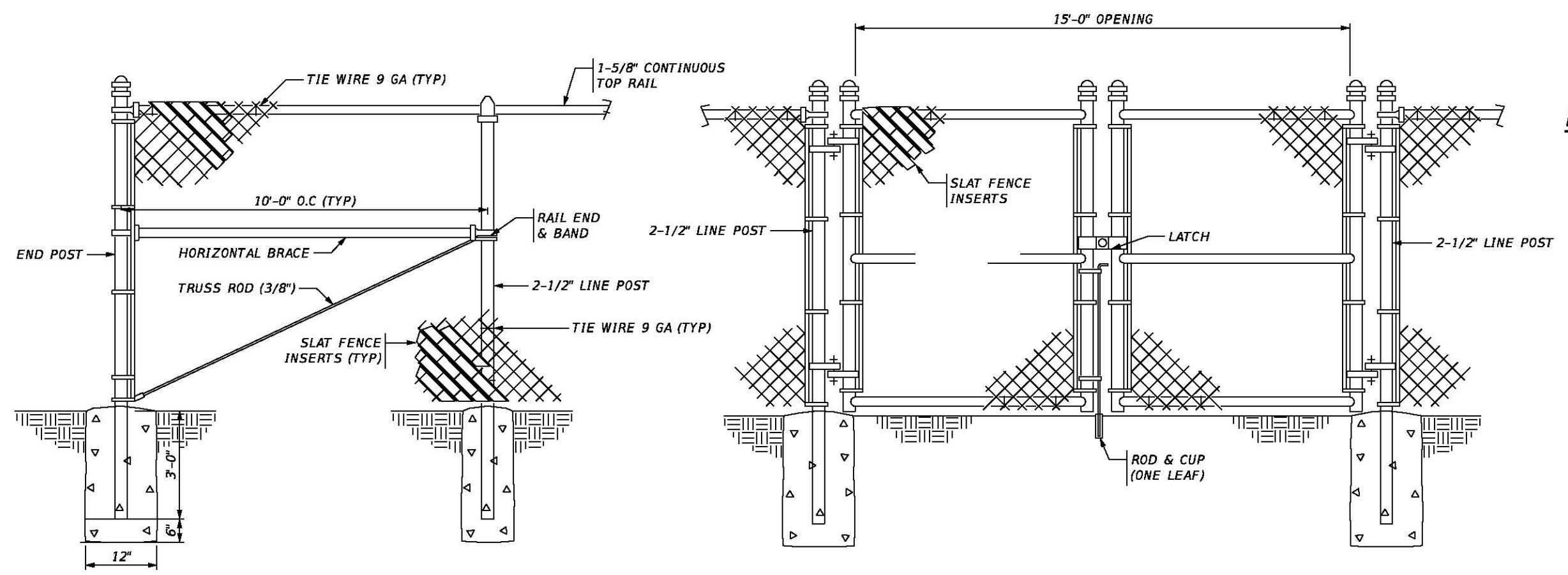
WET WELL SECTION
N.T.S.

ELEVATION DATA			PUMP DATA TABLE		
TOP SLAB ELEVATION	ELEVATION "A"	13.50	NUMBER OF PUMPS	2	
DISCHARGE PIPE ELEVATION	ELEVATION "B"	10.83	DESIGN G.P.M.	110	
INFLUENT PIPE INVERT ELEVATION	ELEVATION "C"	3.74	TOTAL DYNAMIC HEAD (FT)	49.52	
HIGH WATER FLOAT SWITCH	ELEVATION "D"	3.24	PUMP	MANUF	FLYGT
HIGH WATER ALARM	ELEVATION "E"	3.24		MODEL	M3102LT
LAG PUMP ON	ELEVATION "F"	2.74	IMPELLER 1	149 MM	
LEAD PUMP ON	ELEVATION "G"	2.24	RPM	3600	
ALL PUMPS OFF	ELEVATION "H"	0.74	HP	6	
WET WELL BASE SLAB ELEVATION	"I"	(-11.26	SIZE	4"	
WETWELL INSIDE DIAMETER	"K"	4'-0"	MAXIMUM SOLID SIZE	3"	
INFLUENT PIPE DIAMETER	"K"	6"	PHASE	3 PHASE	
PUMP DISCHARGE PIPE DIAMETER	"M"	4"	CYCLE (HZ)	60	
OPERATING RANGE	"N"	3.00'	VOLTS	230/460	
BASE SLAB THICKNESS	"P"	12"	PUMP WEIGHT (LBS)	165	
VALVE BOX SIZE	"Q"	8'-4" x 6'-4"	PUMP CYCLE TIME	13.8 MIN.	

(NOTE: ALL ELEVATIONS ARE NAVD-88)

GENERAL NOTES

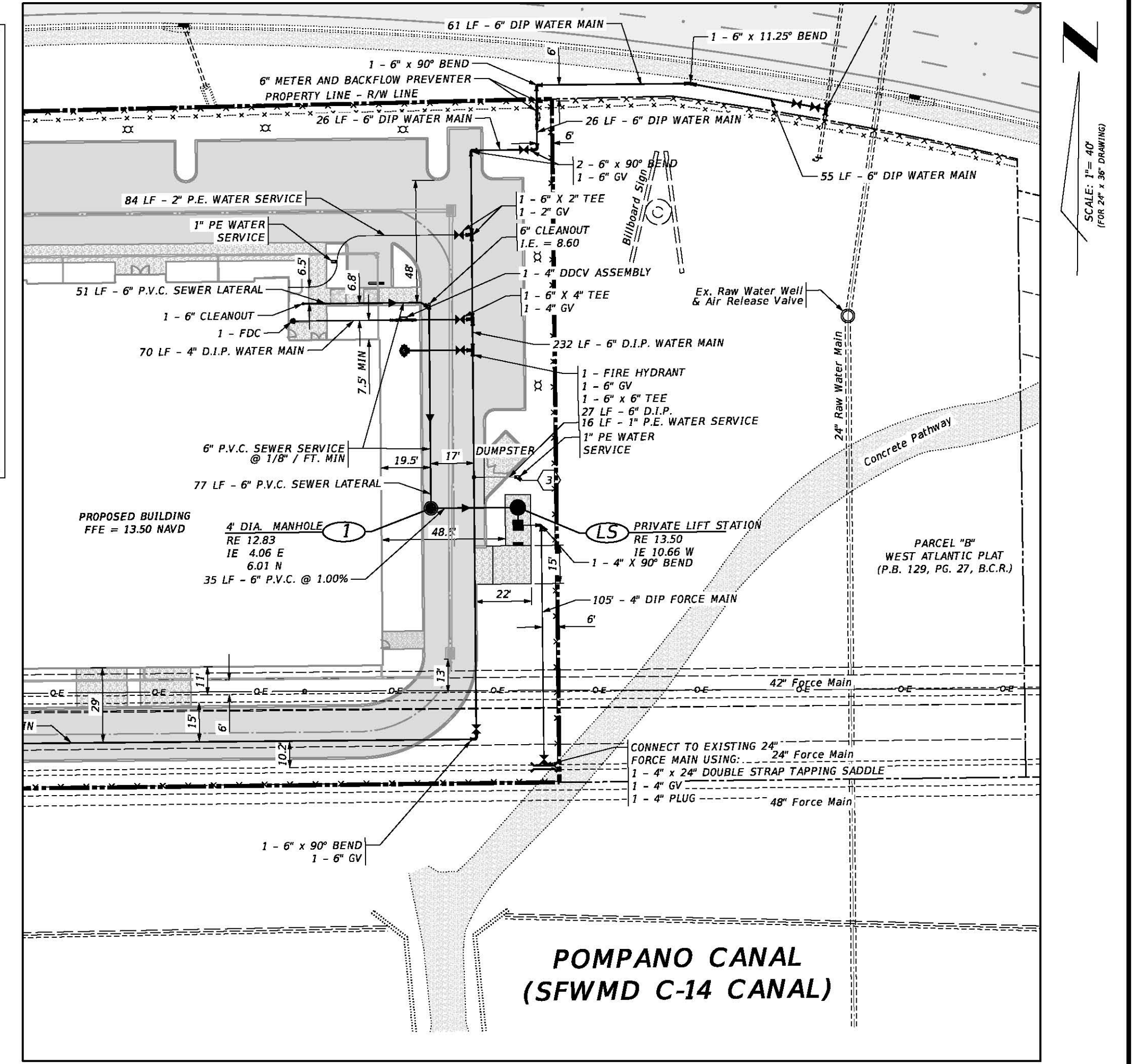
- CONCRETE SHALL HAVE NOT LESS THAN 3000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS. PRE-CAST CONCRETE SHALL BE 4000 P.S.I. CLASS II MINIMUM.
- REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPEC. A-615 AND SHALL BE DEFORMED ACCORDING TO A.S.T.M. SPEC. 305.
- ALL PIPING SHALL BE DUCTILE IRON PER AWWA C151, 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 FLYGT SUBMERSIBLE, SERIES M3102 LT WITH 6 HP MOTORS 230/460 VOLTS 3 PHASE CAPABLE OF DELIVERING 110 GALLONS PER MINUTE AT A TOTAL DYNAMIC HEAD OF 48.75 FEET TDH. TWO OF THESE PUMPS SHALL BE INSTALLED IN THE LIFT STATION.
- OPENINGS AROUND PIPES SHALL BE SEALED WITH EMBECO MORTAR.
- ALL UNSUITABLE MATERIAL SHALL BE REMOVED FROM WITHIN THE LIMITS OF CONSTRUCTION AND HAULED OFF-SITE.
- SHOP DRAWING FOR COMPLETE LIFT STATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND CITY FOR APPROVAL.
- RP2 BACKFLOW PREVENTOR WITH A HOSE BIBB SHALL BE PROVIDED TO THE LIFT STATION.
- CONTRACTOR SHALL ENSURE NO FLOATATION OF WET WELL DURING CONSTRUCTION.
- GATE VALVES IN VALVE PIT SHALL BE RESILIENT SEAT, ECCENTRIC, WHEEL OPERATED OR APPROVED 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 APPROVED EQUAL.
- SIX (6) COPIES OF OPERATIONAL AND MAINTENANCE MANUAL AND COPIES OF ELECTRICAL CONTROL PANEL SCHEMATIC SHALL BE SUBMITTED TO THE ENGINEER OF RECORD.
- ALL FITTINGS INSIDE WETWELL AND VALVE PIT SHALL BE FLANGED, AND ALL HARDWARE INSIDE WETWELL SHALL BE STAINLESS STEEL # 316.
- ELECTRICAL CONTROL PANEL SHALL BE PROVIDED WITH A UL LABEL, AND BE MANUFACTURED BY A UL 508 MANUFACTURER.
- MOTOR STARTERS, CIRCUIT BREAKERS AND ELECTRICAL CONTROL DEVICES SHALL BE SQUARE-D #8536 AND SHALL BE SIZED PER N.E.C. CODE (2002).
- 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. THE FLASHING ALARM LIGHT IS TO BE MANUFACTURED BY INGRAM PRODUCTS PART No. LX40F.
- SEAL OFFS TO BE PROVIDED ON ALL ELECTRICAL CONDUITS ENTERING CONTROL PANEL FROM WET WELL TYPE ES SEALING HUBS.
- SELECTOR SWITCHES SHALL BE SQUARE-D 9001-KS43BH1 TO BE PROVIDED. * ROUND TYPE 120V CRAMER 635G TO BE PROVIDED.
- PILOT LIGHTS SHALL BE SQUARE-D 9001-KP3BR9.
- LIGHTNING ARRESTOR SHALL BE GENERAL ELECTRIC.
- SURGE ARRESTOR SHALL BE GENERAL ELECTRIC.
- WET WELL AND VALVE PIT SHALL BE COATED OUTSIDE WITH TWO COATS (ONE BLACK, ONE RED) OF KOPPERS BITUMASTIC No. 300 M OR APPROVED EQUAL. THE INSIDE OF THE WET WELL WILL RECEIVE A MAINSTAY COATING. THE INSIDE OF THE VALVE PIT SHALL BE COATED WITH TWO COATS (ONE BLACK, ONE RED) OF KOPPERS BITUMASTIC 300-M OR APPROVED EQUAL.
- CUT OFF LIFTING HOOKS BELOW SLABS AND GROUT HOLES FLUSH.
- LIFT STATION WILL BE PRIVATELY MAINTAINED.



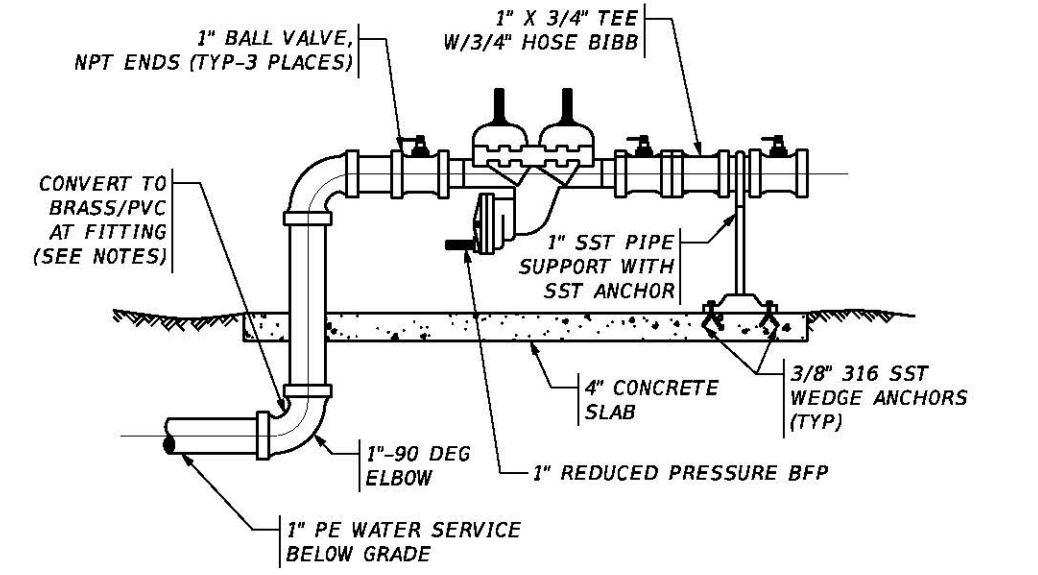
TYPICAL FENCE
N.T.S.

DOUBLE LEAF GATE
N.T.S.

6' CHAIN LINK FENCE WITH DOUBLE GATE
N.T.S.



SITE PLAN
PRIVATE LIFT STATION



- NOTES:
- BACKFLOW PREVENTER LOCATED INSIDE FENCED AREA SHALL BE FEBCO MODEL 825YA (OR APPROVED EQUAL) AND SHALL USE SCHED 40 BRASS FOR ALL ABOVEGROUND PIPE/FITTINGS AND VALVES.
 - BACKFLOW PREVENTER LOCATED OUTSIDE FENCED AREA SHALL BE UV RESISTANT COMPOSITE PLASTIC UBS RP-500 (OR APPROVED EQUAL) AND SHALL USE SCHED 40 PVC FOR ALL ABOVE GROUND PIPE/FITTINGS.

REDUCED BACKFLOW PREVENTER DETAIL

PRIVATE LIFT STATION
PLAN & PROFILE

PALM AIRE TENNIS CENTER
RWB / LINARES ARCHITECTURE

WINNINGHAM & FRADLEY
ENGINEERS • PLANNERS • SURVEYORS
4401 STREET • OAKLAND PARK, FL 33334
854.771.7200 • FAX 854.771.0298 • E-MAIL: 0002985 • www.winfrad.com

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NO. REVISIONS DATE

2036

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