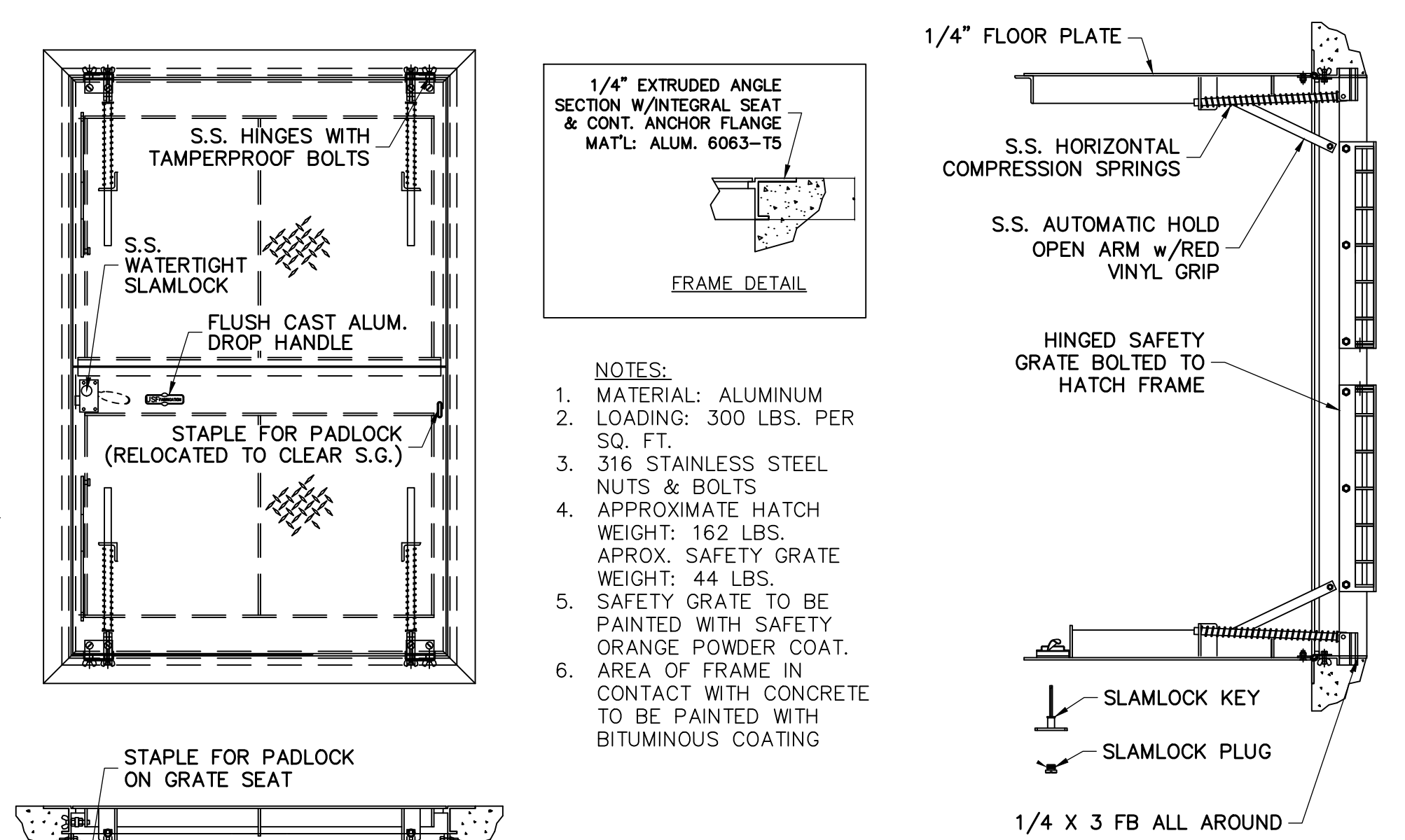
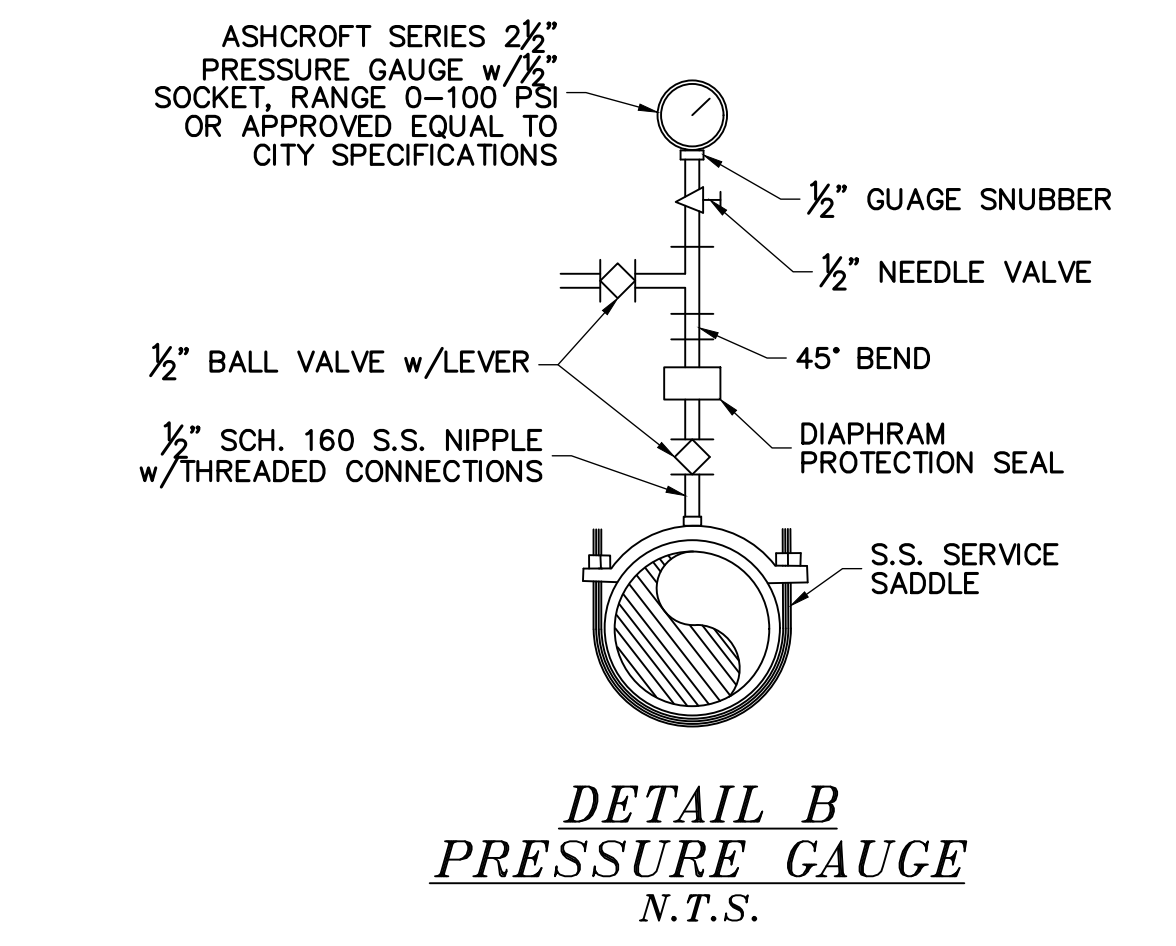
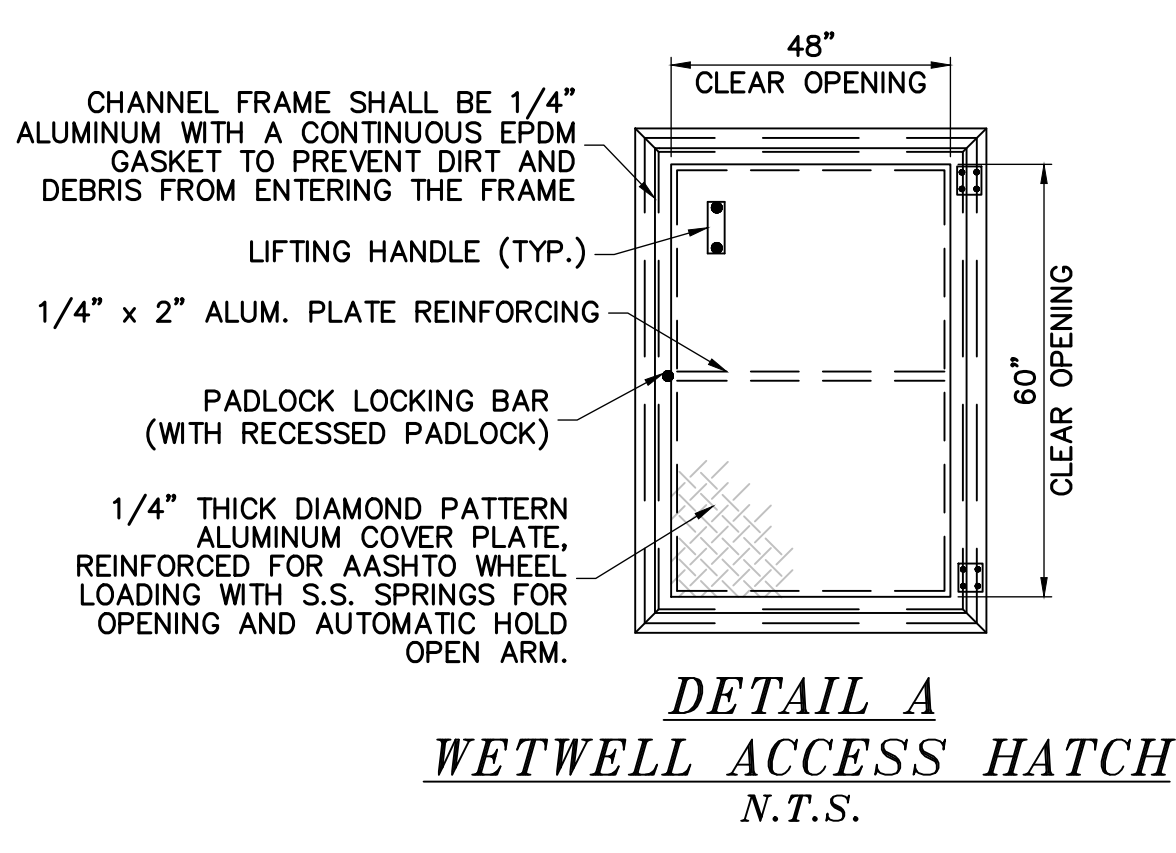
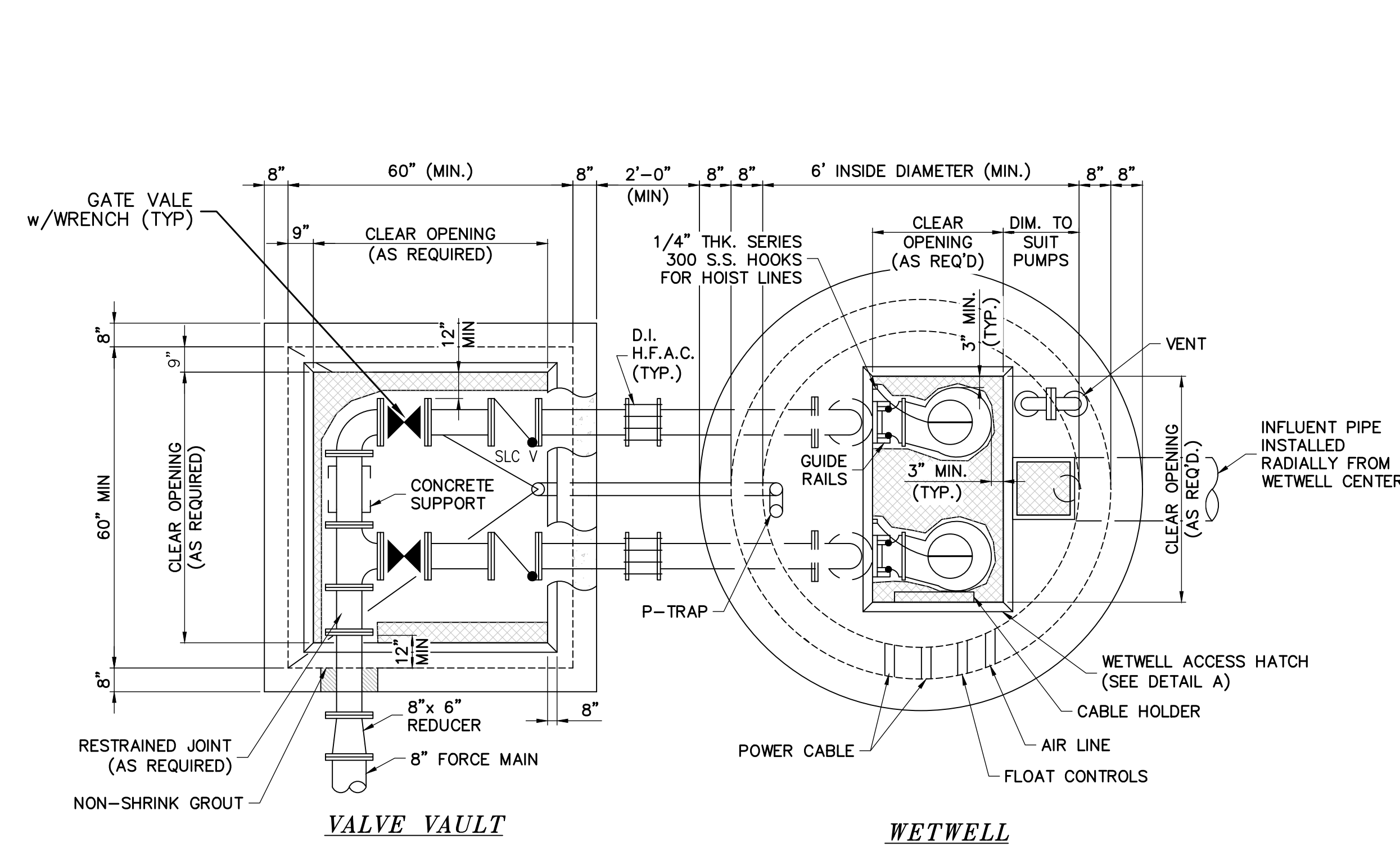
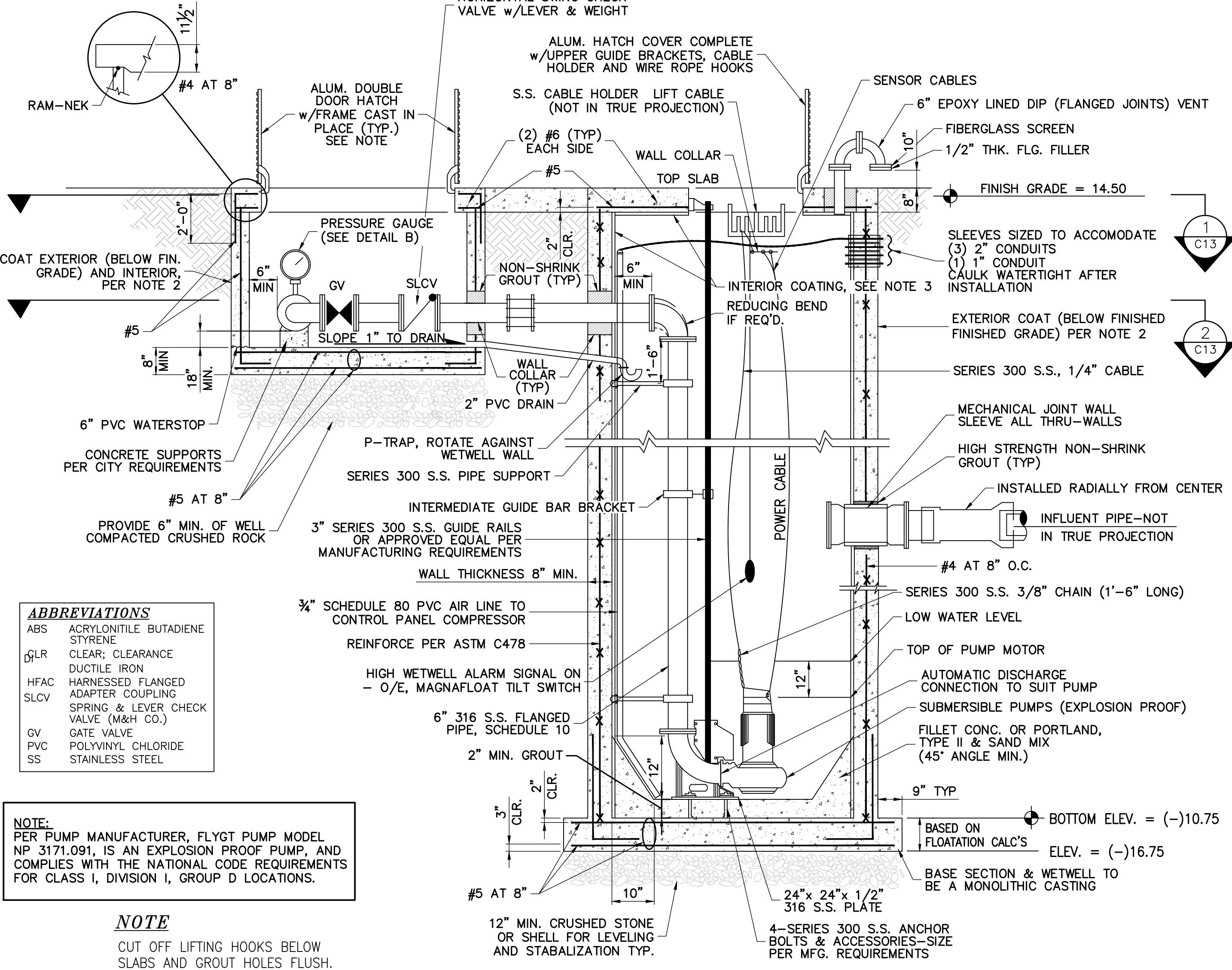


NO.	DATE	DESCRIPTION

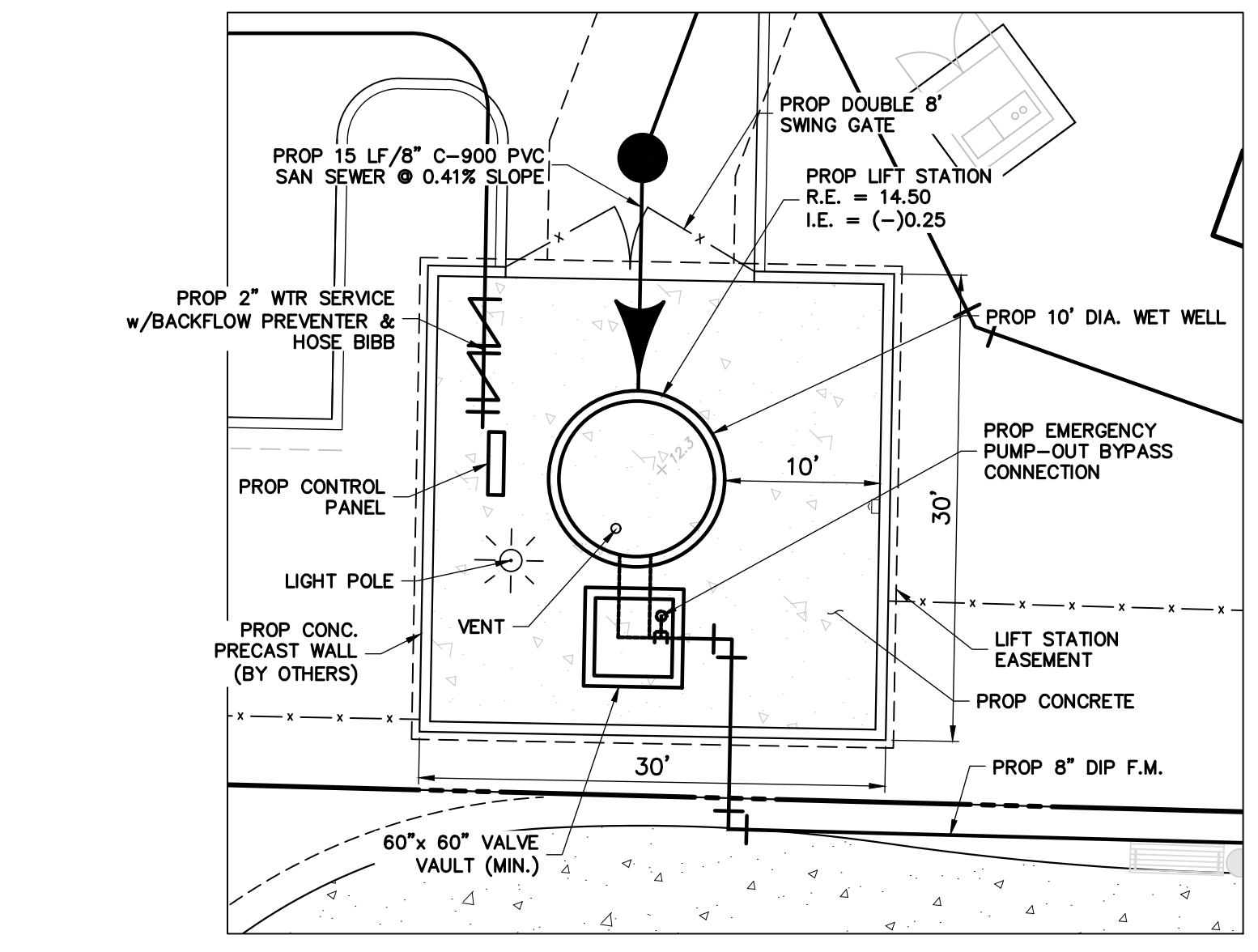
DATE:	Aug. 2015
SCALE:	N.T.S.
DESIGNED BY:	C.R.L.
DRAWN BY:	A.E.V.
JOB NUMBER	15-3715
SHEET No.	C-4.4
SEAL	
Jan 20 2016	
CLIFFORD R. LOUTAN, P.E.	FL. REG. NO. 56890



ALTERNATE DETAIL (PRECAST CONSTRUCTION)



NUMBER OF PUMPS	2
PUMP MANUFACTURE	FLYGT
PUMP MODEL NUMBER	NP 3171.091
IMPELLER NUMBER	255 (MM)
TYPE OF DRIVE	ELECTRIC
DESIGN CAPACITY PER PUMP	845 (GPM)
TOTAL DYNAMIC HEAD	80 (FEET)
PUMP CYCLE TIME	21 (MIN.)
SHUT-OFF HEAD	44 (FEET)
DESIGN SPEED	1750 (RPM)
MIN. HORSEPOWER PER PUMP	30 (HP)
VOLTS	460
PHASE POWER	3/460
MAX. SIZE SOLIDS	3 (INCHES)
PUMP DISCHARGE SIZE	6 (INCHES)
DIAMETER RISER PIPE	6 (INCHES)
DIAMETER PIPE AFTER RISER	6 (INCHES)
DIAMETER WETWELL (I.D.)	10 (FEET)
TOP OF WETWELL ELEVATION	14.50 (FEET)
100-YR FLOOD ELEVATION	14.00 (FEET)
DISCHARGE PIPE ELEVATION	10.00 (FEET)
BOTTOM OF WETWELL ELEVATION	(-10.75) (FEET)
INFLUENT PIPE ELEVATION	(-0.28) (FEET)
HIGH LEVEL ALARM FLOAT ELEVATION	(-0.80) (FEET)
LAG PUMP ON ELEVATION	(-3.55) (FEET)
LEAD PUMP ON ELEVATION	(-4.05) (FEET)
PUMPS OFF ELEVATION AT 1 FEET ABOVE PUMP MOTOR	(-5.80) (FEET)
MINIMUM WATER ELEVATION	(-9.25) (FEET)
TOP OF PUMP ELEVATION	(-6.80) (FEET)



PROPOSED WASTEWATER PUMP STATION SITE PLAN LAYOUT
 SCALE = 1" = 10'

- NOTES:**
- SERIES 300 STAINLESS STEEL SHALL BE USED IN THE WETWELL AND VALVE VAULT AND CONTROL PANEL STRUCTURE AND MOUNTING, FOR FLANGE, BOLTS, BRACKETS, GUIDE RAILS AND OTHER HARDWARE.
 - EXTERIOR COATING SHALL BE COOPER BLACK NO. 775 EPOXY TAR COATING THE FIRST COAT SHALL BE RED AND THINNED AND THE TOP COAT(S) SHALL BE BLACK. TOTAL DRY FILM THICKNESS SHALL BE 18 MILS MIN. CURE TIME: 12 TO 24 HOURS. APPLICATION BY SPRAY OR BRUSH (ROLLERS NOT ACCEPTED) TOUCH UP DISTURBED AREAS IN FIELD.
 - PRECAST CONCRETE WETWELL SHALL MEET A.S.T.M. C-478 STANDARD, ENTIRE INSIDE SURFACE OF THE WETWELL, TOP SLAB, & VALVE VAULT SHALL BE LINED WITH MAINSTAY DS-5 EPOXY COATING (WHITE)(16 MILS). THE COATING SYSTEM APPLICATION SHALL BE PERFORMED BY A MANUFACTURER APPROVED APPLICATION.
 - THE CONTRACTOR SHALL FURNISH MASTER SERIES 0464 PADLOCKS WITH TWO (2) KEYS FOR FENCE GATES, CONTROL PANEL, RTU, INTERFACE PANEL, ACCESS HATCHES, AND DISCONNECT SWITCH.
 - ALL CONCRETE SHALL BE TYPE II CEMENT REINFORCED CONCRETE, 4000 PSI PER A.S.T.M. C-478.
 - SEE PUMPING STATION DATA TABLES FOR DATA ON SPECIFIC ELEVATIONS AND DIAMETERS.
 - DISTANCE BETWEEN PUMPS SHALL BE SET BY MANUFACTURER'S RECOMMENDATIONS OR THE DISTANCE BETWEEN DISCHARGE PIPING, WHICHEVER IS GREATER.
 - DISCHARGE PIPE FROM THE WETWELL TO THE VALVE VAULT SHALL BE PARALLEL TO EACH OTHER.
 - THE CONTRACTOR SHALL LOCATE THE SERVICE ENTRANCE STRUCTURE WHERE ACCESS TO THE CONTROL PANEL, METER, AND RTU ARE NOT LOCATED OVER THE WETWELL.
 - ELECTRICAL CONTACTS FOR RTU TO INCLUDE PHASE AND CONTROL CIRCUIT FAILURE; HIGH LEVEL ALARM; BUBBLER FAILURE ALARM; WETWELL, VALVE VAULT AND RTU INTRUSION; HOA SWITCH, NOT IN AUTO POSITION; PUMP FAILURE; PUMP STARTS; PUMP RUN TIME; STATION DISABLE, CONTROL AND REPORT; FORCE MAIN AND WATER LINE PRESSURE; CURRENT LEVELS AND SERVICE KEY ACTIVATED INDICATOR.
 - WATER AND FORCEMAIN PRESSURE TRANSMITTERS ARE TO BE PROTECTED BY AN EDKO COMPLEX DEVICE MODEL #SS64-036-1 OR APPROVED EQUAL.

ABBREVIATIONS

ABS	ACRYLONITILE BUTADIENE STYRENE
CLR	CLEAR, CLEARANCE
GLR	DUCTILE IRON
HFAC	HARNESSED FLANGED ADAPTER COUPLING
SLCV	SPRING & LEVER CHECK VALVE (M&H CO.)
GV	GATE VALVE
PVC	POLYVINYL CHLORIDE
SS	STAINLESS STEEL

NOTE:
 PER PUMP MANUFACTURER, FLYGT PUMP MODEL NP 3171.091, IS AN EXPLOSION PROOF PUMP, AND COMPLIES WITH THE NATIONAL CODE REQUIREMENTS FOR CLASS I, DIVISION I, GROUP D LOCATIONS.

NOTE:
 CUT OFF LIFTING HOOKS BELOW SLABS AND GROUT HOLES FLUSH.