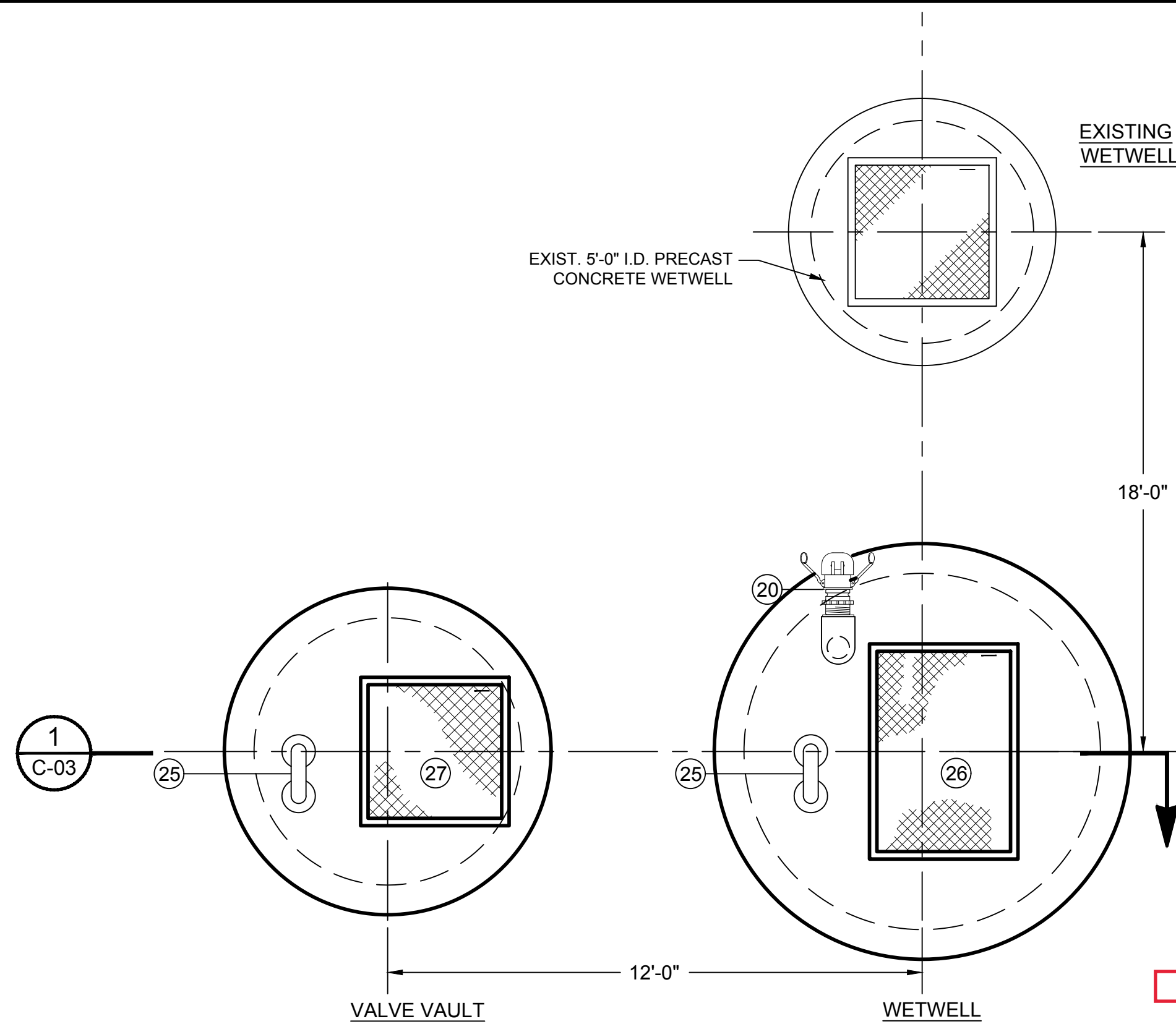
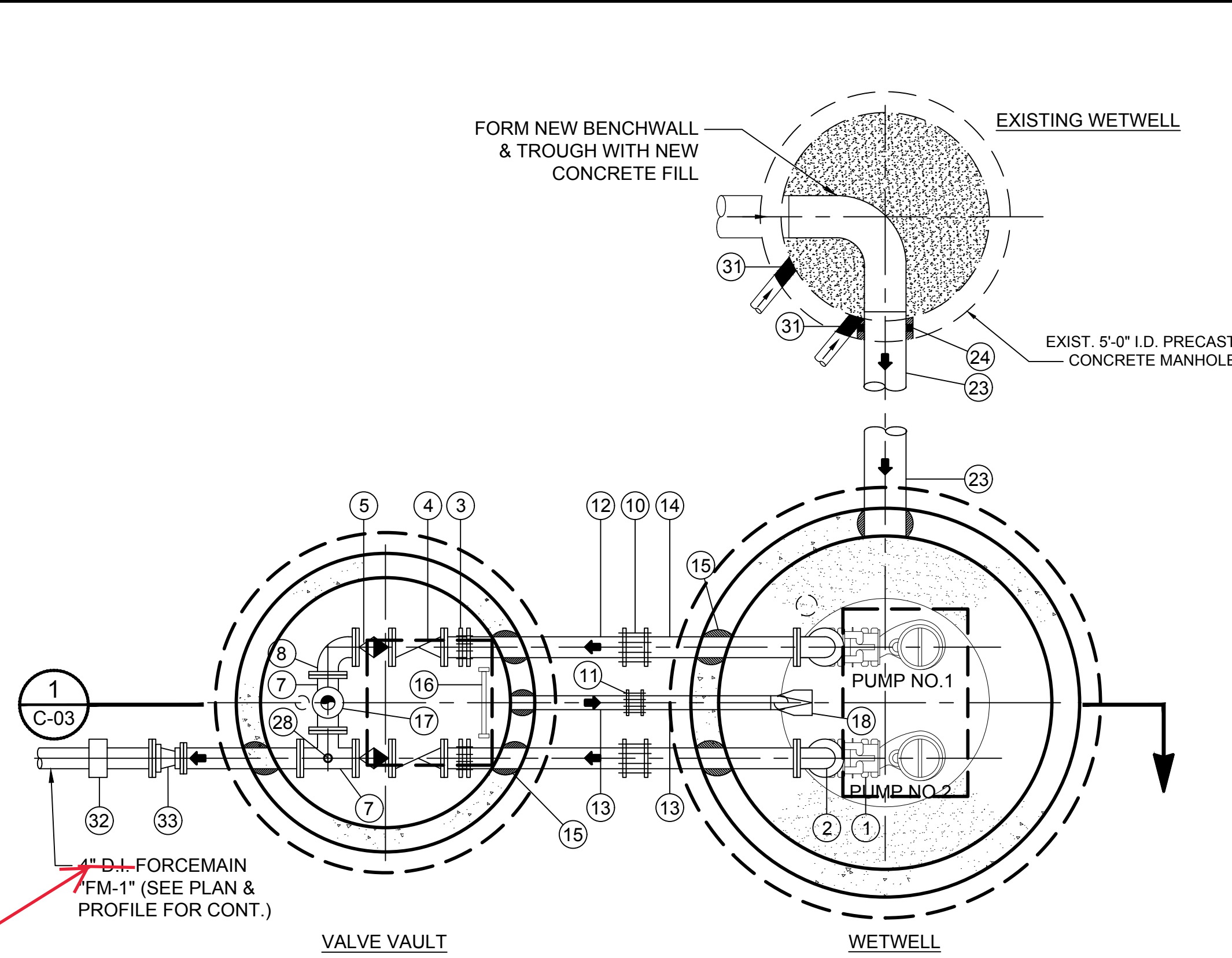




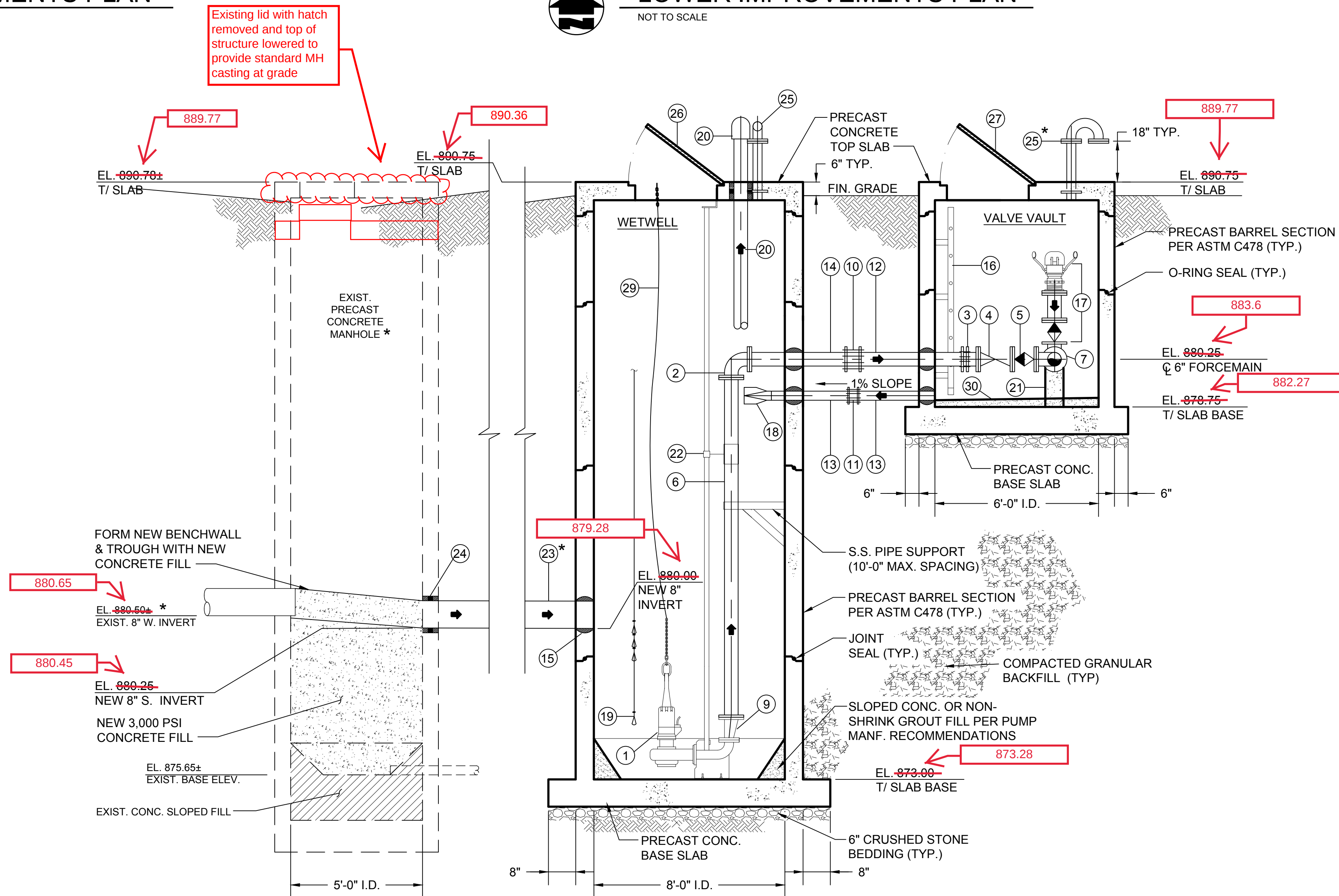
UPPER IMPROVEMENTS PLAN
NOT TO SCALE



LOWER IMPROVEMENTS PLAN
NOT TO SCALE

NOTES

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE PUMP/GUIDE RAIL LOCATION WITH RESPECT TO THE ACCESS HATCH OPENING AND TO ENSURE THE HATCH IS OF ADEQUATE SIZE TO ALLOW FOR THE PROPER REMOVAL OF THE PUMP ASSEMBLY.
- VENT SHALL BE COMPRISED OF (1) 4" FLG. D.I. RETURN BEND ATTACHED TO 4" FLG. X P.E. D.I. WALL PIPE WITH COLLAR CAST IN TOP SLAB. OPEN END OF RETURN BEND SHALL EXTEND 18" ABOVE TOP OF SLAB. AND RECEIVE 1/2" BRONZE SCREEN ATTACHED BY 1/2" FLG. FILLER. VENT ASSEMBLY SHALL NOT CONFLICT WITH HATCH IN 90° OPEN POSITION.
- PUMP BYPASS CONNECTION SHALL CONSIST OF 6" SCH. 80 PVC 90° BEND WITH 6" S.S. FEMALE QUICK-CONNECT "CAM-LOCK" FITTING & CAP ATTACHED TO 6" SCH. 80 PVC PIPE - CORE DRILL, LINK SEAL & NON-SHRINK GROUT FLUSH. EXTEND PIPE DOWN TO 2 FT. ABOVE BOTTOM SLAB; PROVIDE S.S. PIPE SUPPORTS PER SPECS. BYPASS ASSEMBLY SHALL NOT CONFLICT WITH HATCH IN 90° OPEN POSITION.
- BYPASS DISCHARGE CONNECTION SHALL CONSIST OF 4" FLG. PLUG VALVE, D.I. PIPE (12" LONG), AND 4" S.S. FEMALE QUICK-CONNECT "CAM-LOCK" FITTING & CAP INSTALLED IN VERTICAL POSITION.



SECTION
NOT TO SCALE

KEYNOTES

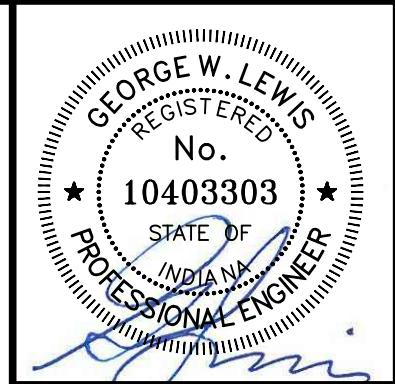
- SUBMERSIBLE RAW SEWAGE PUMP (TYP.)
- 4" FLG. D.I. 90° BEND (TYP.)
- 4" FLG. COUPLING ADAPTER (TYP.)
- 4" FLG. SWING CHECK VALVE (TYP.)
- 4" FLG. PLUG VALVE (TYP.)
- 4" FLG. D.I. PIPE (TYP.)
- 4"x4" FLG. D.I. TEE (TYP.)
- 4" FLG. D.I. 90° BEND
- FLG. D.I. ECCENTRIC REDUCER (IF NEEDED)
- 4" FLEX. COUPLING
- 4" FLEX. COUPLING
- 4" D.I. PIPE; PE X PE
- 4" D.I. PIPE; PE X PE
- 4" D.I. PIPE; FLG. X PE
- PIPE TO MANHOLE CONNECTOR PER SPECS (TYP.)
- ALUM. ACCESS LADDER WITH SAFETY EXTENSION POST
- DISCHARGE BYPASS CONNECTION (SEE NOTE 4)
- 4" SLIP-ON ELASTOMERIC CHECK VALVE
- FLOAT LEVEL SENSORS (SEE ELECT. DRAWINGS)
- PUMP BYPASS CONNECTION (SEE NOTE 3)
- CONCRETE PIPE SUPPORT
- S.S. GUIDE RAIL SUPPORT; SPACING PER PUMP MANF.
- 8" PVC SDR 26 GRAVITY SEWER
- CORE DRILL, LINK SEAL AND NON-SHRINK GROUT FLUSH
- 4" VENT ASSEMBLY (SEE NOTE 2)
- 3'-0" X 4'-6" ALUM. ACCESS HATCH W/ SAFETY GRATING (SEE NOTE 1)
- 3'-0" X 3'-0" ALUM. ACCESS HATCH W/ SAFETY GRATING
- PRESSURE GAUGE
- S.S. LIFT CHAIN TO TOP OF WETWELL
- SLOPED CONC. OR NON-SHRINK GROUT FILL (MIN. 1/4" PER FOOT TO DRAIN)
- SEAL EXISTING PIPE OPENINGS WITH NON-SHRINK GROUT.
- TRANSITION COUPLING TO FORCEMAIN
- 6"x4" D.I. M.J. REDUCER
- SHOWN OUT OF SECTION

PUMP DATA TABLE

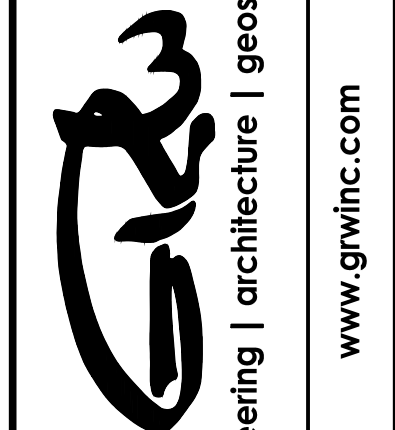
DESCRIPTION	VALUE
PUMP TYPE	NON-CLOG SUBMERSIBLE
MANUFACTURER	HYDROMATIC; OR EQUAL
MODEL NUMBER	S4M
IMPELLER SIZE (IN.)	7.5
DESIGN CAPACITY (GPM)	185
MAX. STATIC HEAD (FT.)	28 +/-
TOTAL DYNAMIC HEAD (FT.) **	47
PUMP DISCHARGE FLG. CONNECTION (IN.)	4 X 4
MOTOR HORSEPOWER (HP)	7.5
PUMP SPEED (RPM)	1,750
HIGH WATER ALARM ELEVATION	879.50
LAG PUMP ON ELEVATION	878.00
LEAD PUMP ON ELEVATION	876.93
PUMPS OFF ELEVATION ***	875.33
VOLTS/PHASE/HERTZ	230 / 3 / 60
WETWELL HAZARDOUS CLASSIFICATION	CLASS 1, DIV. 1, GROUPS C & D

** BASED ON C=120 AT MAX. STATIC HEAD CONDITIONS.

*** COORDINATE/VERIFY WITH PUMP MANF. RECOMMENDATIONS; ADJUST REMAINING FLOATS TO MAINTAIN ELEVATION DIFFERENCE SHOWN IN SCHEDULE.



GRW PROJECT NO. 4625
CLIENT PROJECT NO. --
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LIFT STATION PLANS
AND SECTION
BABY FARMS LIFT STATION AND FORCE MAIN IMPROVEMENTS
FALL CREEK REGIONAL WASTE DISTRICT

DESIGNED	GWL	DRAWN	JAJ	REVIEWED	JPT	APPROVED	GWL
DATE	NOVEMBER 2017	DATE	NOVEMBER 2017	DATE	NOVEMBER 2017	DATE	NOVEMBER 2017
DESCRIPTION	NOVEMBER 2017	DESCRIPTION	NOVEMBER 2017	DESCRIPTION	NOVEMBER 2017	DESCRIPTION	NOVEMBER 2017
NO	NO	NO	NO	NO	NO	NO	NO

DATE: NOVEMBER 2017
SCALE: N.T.S.
SHEET NO.

C-03