

Warren County
Water District

1. METER ENCLOSURE
2. MAIN DISCONNECT
3. MANUAL TRANSFER SWITCH
4. SCADA R.T.U. 130SS WITH
OPTION "METER"
5. PUMP POWER PANEL
6. FLOW METER DISPLAY

SEE SITE PLAN & PLAN VIEW FOR CORRECT ORIENTATION

PROPOSED 12" THICK CONCRETE SLAB TOP

PROPOSED XX" GRAVITY SEWER

1" METER CABLE CONDUIT

TO VALVE VAULT

TO CONTROL PANEL & RTU

8"x8"x1/4" ALUMINUM PLATE w/NEOPRENE GASKET & 4 ANCHOR BOLTS - TRANSDUCER STILL WELL BELOW

4" 90° BEND (FLGxFLG) ROD TO WALL

4" ROUND 316 SST VENT PIPE WITH INSECT SCREEN

4" MJ SOLID SLEEVE (TYP.)

REMOVE EXISTING GROUT AS REQUIRED, GROUT EXISTING DISCHARGE PIPE, AND GROUT IN FILLETS AROUND PUMPS AS SHOWN

ACCESS HATCH & SAFETY GRATE HINGES ALIGNED PERPENDICULAR TO PUMP GUIDE RAIL PACKAGE, AS SHOWN.

4" GATE VALVE (TYP.)

4" ROUND 316 SST VENT PIPE WITH INSECT SCREEN

1" METER CABLE CONDUIT

LADDER

4" 90° BEND

3/4" TAP w/STAINLESS STEEL NIPPLE, 3/4" BALL VALVE, 3/4" BUSHING & PRESSURE GAUGE (TYP. 3 PLACES)

2.0' END D.I.P.

FLOW METER

4"x20" LONG SPOOL (FLGxPE) w/FLANGE COUPLING ADAPTER

4"x4" 90° BEND w/4" VERTICAL RISER FOR EMERGENCY PUMPING

8' DIA. VAULT

4" MUELLER SWING TYPE LEVER & WEIGHT CHECK VALVE (TYP.)

12.0'

TO CONTROL PANEL & RTU

TERMINAL JUNCTION BOX w/VENTED PEDESTALS

8' DIA. CONCRETE WETWELL

INSTALL SST 6-HOOK CABLE HOLDER - EACH SIDE OF HATCH

9.5'

2.1875'

HATCH SIZE: 42"x60" HALLIDAY PRODUCTS SERIES S2R DOUBLE DOOR

SAFETY GRATE (SEE SPECS)

TERMINAL JUNCTION BOX w/VENTED PEDESTAL

LIFT OUT CHAIN 5/8" STAINLESS STEEL w/LIFTING BAIL

4" ROUND 316 SST VENT PIPE WITH INSECT SCREEN

4" PVC SLEEVE CAST INTO TOP SLAB & 4" BASE FLANGE - CONNECT TO TOP SLAB W/4 CONCRETE WEDGE ANCHORS (APPLIES TO WET WELL & VALVE VAULT)

STAINLESS STEEL TRANSDUCER SUPPORT HOOK INSTALLED BELOW STILL WELL LID

4" 90° BEND (FLGxFLG)

FLANGED COUPLING ADAPTER W/ 304 STAINLESS BOLTS AND ANCHOR STUDS

2" GUIDE RAILS, SST SCH. 40 PIPE

2" x 1/2" STAINLESS STEEL STRAPS AT 8' INTERVALS (MAX.). ATTACH EACH STRAP TO WALL WITH (2) 1/2" x 5" S.S. BOLTS WITH ANCHORS.

4" DISCHARGE PIPING (DUCTILE IRON FLG. x FLG.)

4" PUMP BASE (2 REQ'D)

#57 CRUSHED STONE. MIN. 12" THICK, OR AS DIRECTED BY WCWD REPRESENTATIVE

TOP ELEV. = XXX.XX

GROUND ELEV. = XXX.XX

GRAVITY SEWER I.E. XXX.XX WITH 90° ELBOW & 1/2" DIA. HOLE (ROLL BEND ONE BOLT HOLE TOWARD REAR OF WET WELL)

HIGH WATER ALARM ELEV. = XXX.XX

LAG PUMP START ELEV. = XXX.XX

LEAD PUMP START ELEV. = XXX.XX

PUMP STOP ELEV. = XXX.XX

LOW WATER ALARM ELEV. = XXX.XX

BOTTOM ELEV. = XXX.XX

WAGE PUMPS XXX GPM @ XX TDH w/XX HP MOTOR

5.0'

TOP ELEV. = XXX.XX

GROUND ELEV. = XXX.XX

4" D.I.P. SPOOL (FLGxPE)

2" THREADED TAP w/2" BALL VALVE

FLANGED COUPLING ADAPTER W/ 304 STAINLESS BOLTS AND ANCHOR STUDS

2.0' END D.I.P.

FLOW METER

PROPOSED PIPE STANDS

4" GATE VALVE

4" 90° BEND (FLG. x FLG.)

4" FEMALE BAUERxFLANGE ADAPTER w/LOCKING HASP & PLUG

MODULAR MECHANICAL SEAL (TYP.)

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DRAIN WITH SCREEN

SLOPE FLOOR @ 1/4" / FT TO VAULT DRAIN

#57 CRUSHED STONE. MIN. 12" THICK, IF AREA HAS BEEN DISTURBED, ALL BACK FILL UNDER VALVE VAULT SHALL BE COMPACTED CRUSHED STONE.

12"

6"

6"

SUBMERSIBLE TRANSMITTER (0-30 FEET)

C/L = XXX.XX

24"

4" 90° BEND (FLGxFLG)

FLANGED COUPLING ADAPTER W/ 304 STAINLESS BOLTS AND ANCHOR STUDS

MODULAR MECHANICAL SEAL (TYP.)

MODULAR MECHANICAL SEAL (TYP.)

4" D.I.P. DRAIN WITH RUBBER DUCKBILL CHECK VALVE. WET WELL INLET MIN. 0.25' LOWER THAN VALVE VAULT OUTLET

INTERMEDIATE GUIDE RAIL SUPPORTS AS REQUIRED

2" x 1/2" STAINLESS STEEL STRAPS AT 8' INTERVALS (MAX.). ATTACH EACH STRAP TO WALL WITH (2) 1/2" x 5" S.S. BOLTS WITH ANCHORS.

4" DISCHARGE PIPING (DUCTILE IRON FLG. x FLG.)

4" PUMP BASE (2 REQ'D)

#57 CRUSHED STONE. MIN. 12" THICK, OR AS DIRECTED BY WCWD REPRESENTATIVE

8' DIAMETER VAULT LIFT STATION DETAILS

SCALE:	1" = 2'
DATE:	06/11/2024
DWG NO.:	8D8G4F1W
DESIGNED:	CRH
DRAWN:	BCP
CHECKED:	CRH

REVISIONS:

NO.:	DATE:
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SHEET:

$$\frac{1}{2}$$