WATERTIGHT ALUMINUM HINGE ACCESS DOOR WITH LOCKING MECHANISM. DOOR SHALL BE PEDESTRIAN LOADING CONDITION RATED.

HOIST MAY HAVE ITS OWN FOUNDATION, OR BE MOUNTED ON THE WET WELL SLAB. CAPACITY OF HOIST SHALL BE GREATER THAN THE WEIGHT OF THE PUMP PROVIDED.

WET WELL AND VALVE VAULT SHALL HAVE AN ANTI-MICROBIAL ADDITIVE INCLUDED IN THE CONCRETE MIX.

4" STAINLESS STEEL LIFTING CABLE SECURED SO AS NOT TO INTERFERE WITH THE ACCESS COVER (1 LIFTING CABLE PER PUMP)

WATERTIGHT BOOT

INLET PIPE PROVIDE 2 SETS OF CONDUIT FLANGE WATERPROOF SEAL ALL INTERIORS OF CONDUTS AND AT PENETRATION OF INCOMING AND OUTGOING CONDUITS

WATERTIGHT BOOT SECURELY ANCHORED

RECESSED LIFTING HOOKS (4 TOTAL) FILL WITH HYDRAULIC CEMENT.

4" SCREENED VENT (PVC SCH 40) ANCHORED TO TOP SLAB WITH PIPE SLEEVE AND BRACKETS. VENT SHOULD BE REMOVABLE WITH TOP SLAB.

BASE SHALL BE 18" DIA. AND MIN. 12" DEPTH NO. 57 STONE BEDDING.

PUMP BASES SHALL BE FASTENED TO THE CONCRETE WET WELL INVERT BY NO LESS THAN FOUR 3/4" STAINLESS STEEL BOLTS. THE BOLTS SHALL BE THREADED INTO CONCRETE ANCHOR INSERTS, WHICH HAVE BEEN CAST INTO THE INVERT, OR THREADED IN A CAPSULE ANCHOR. THE BOLT SHALL HAVE A PULL OUT STRENGTH OF NO LESS THAN 5,000 LBS AND SHALL BE SUITABLE FOR VIBRATING EQUIPMENT.

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NOTES TO DESIGN ENGINEER

DESIGN ENGINEER SHALL COORDINATE PUMP AND EQUIPMENT PURCHASE WITH FAYPWC.

ELEVATIONS ARE TO BE DESIGNED TO SUIT EACH INDIVIDUAL PROJECT CONDITION.

PROVIDE PROJECT SPECIFIC SITE PLAN.
EXPLOSION PROOF SUBMERSIBLE LIFT STATION
N.T.S.

FAYETTEVILLE PUBLIC WORKS COMMISSION
FAYETTEVILLE, N.C.

WATER RESOURCES ENGINEERING DEPARTMENT

SHEET NO. 2 OF 3

DATE: JULY 01, 2020
APPROVED BY: J.E.G.

NO. DATE REVISION
1 10/13/03 NOTE ADDED
2 11/16/07 NOTES CHANGED
3 07/16 REVISED AND UPDATED NOTES

PROVIDE 2- 2" PVC JACKETED RIGID GALVANIZED CONDUITS, ONE FOR FLOAT CORDS AND ONE FOR PUMP POWER CORDS. EXTEND TO JUNCTION BOX AND CONTROL PANEL. ENERGIZE AND MAKE OPERABLE.

SECURE FLOAT ELECTRICAL CABLES TO WALL WITH STAINLESS STEEL TRUSS TYPE FLOAT MOUNTING BRACKETS SECURELY ANCHORED. FLOATS SHALL BE ACCESSIBLE FROM HATCH OPENING. DO NOT USE COMPRESSION COUPLINGS ON FLOAT LINES. CONTRACTOR TO COORDINATE ACTUAL LOCATION WITH FAYPWC PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE TWO (2) SETS OF FLOATS.

* NRS RESILIENT WEDGE GATE VALVE WITH HAND WHEEL

* CHECK VALVE WITH SPRING LEVER AND WEIGHT

PIPE BOLLARD. SEE DETAIL S.21. SPACE BOLLARDS 5 FEET ON CENTER AND A MINIMUM 3 FEET OFF VAULT AND WET WELL.

42" OPENING

INLET PIPE JUNCTION BOX TO CONTROL PANEL

72" DIA MIN.

36" MIN.

VARIABLES

HATCH OPENING

HATCH OPENING

4" DRAIN WITH END FLAP

PIPE 90° ELBOW

BYPASS PUMPING ASSEMBLY SEE DETAIL S.21

60"x60" PRECAST BOX (MIN.) WITH AN ANTI-MICROBIAL ADDITIVE.

N.T.S.

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DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR AND SHALL BE ADJUSTED TO ACCOMMODATE DIMENSIONS OF MATERIALS

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LIFT STATION NOTES:
1. CONCRETE SHALL BE 4,000PSI COMPRESSION STRENGTH. ALL CEMENTITIOUS MATERIALS SHALL HAVE AN ANTI-MICROBIAL ADDITIVE INCLUDED IN THE MIX.
2. WET WELL AND VALVE VAULT SHALL MEET REQUIREMENTS OF ASTM C-478.
3. ALL ELECTRICAL MATERIAL AND INSTALLATION SHALL BE BY A LICENSED ELECTRICIAN AND IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND RULES AND REGULATIONS OF LOCAL AUTHORITIES HAVING JURISDICTION. MATERIALS SHALL BE LISTED OR LABELED BY THE UNDERWRITERS LABORATORIES STANDARDS.
4. LIFT STATION WET WELL AND VALVE VAULT CONCRETE SLAB SHALL BE MANUFACTURED TO WITHSTAND H-20 LOADING CONDITIONS.
5. SHOP DRAWINGS AND WIRING DIAGRAMS SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT.
6. DESIGN ENGINEER TO APPROVE FOUNDATION BEDDING BEFORE SETTING WET WELL AND VALVE VAULT. FOUNDATION SHALL BE DIA. WITH A MINIMUM 12" DEPTH OF NO. 57 STONE BEDDING.
7. CONTROL PANEL BOX SHALL BE LOCKABLE, UTILIZING HASPS. FAYPWC WILL PROVIDE LOCKS.
8. CONTRACTOR SHALL INSTALL ALL FAYPWC FURNISHED EQUIPMENT AND PROVIDE START UP SERVICE (MINIMUM 2 DAYS).
9. CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO MAKE THE LIFT STATION FULLY OPERATIONAL AND IN ACCORDANCE WITH FAYPWC STANDARDS.
10. RECESSED LIFTING HOOKS SHALL BE PLACED IN CONCRETE WET WELL COVER.
11. CONTROL PANEL BOX SHALL BE ANCHORED IN 12"x24" DEEP CONCRETE FOOTING. REFER TO STANDARD DETAIL M.18 FOR ALUMINUM SHADE.
12. CONTRACTOR SHALL PROVIDE ALL NECESSARY LUBRICANTS FOR STARTUP AND SHALL ASSIST THE EQUIPMENT MANUFACTURER AND FAYPWC WITH INITIAL STARTUP (MINIMUM 2 DAYS).
13. PIPEWORK SHALL BE ASSEMBLED, INSTALLED, AND FULLY SUPPORTED TO ELIMINATE ANY STRAIN ON THE PUMPING EQUIPMENT, PIPING, AND PIPE FITTINGS.
14. ALL THRU-THE-WALL SLEEVES AND CARRIER PIPES INTO THE WET WELL SHALL BE WATERTIGHT.
15. ENTIRE SITE SHALL BE FENCED, FENCING SHALL BE IN ACCORDANCE WITH FAYPWC REQUIREMENTS. CONTRACTOR SHALL PROVIDE FOR GATE OPENING.
16. ALL HANGERS, CLAMPS, FLANGE BOLTS, AND CONNECTIONS SHALL BE STAINLESS STEEL UNLESS OTHERWISE SPECIFIED. THESE ITEMS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
17. ALL DIMENSIONS SHALL BE VERIFIED BY CONTRACTOR AND SHALL BE ADJUSTED TO ACCOMMODATE DIMENSIONS OF MATERIALS SUPPLIED BY CONTRACTOR AND FAYPWC.
18. FLANGE FACES SHALL BE SERRATED.
19. CONSTRUCTION SHALL BE IN ACCORDANCE WITH FAYPWC TECHNICAL SPECS, ALL APPLICABLE CODES, AND THE N.E.C.

HATCH DOOR NOTES:
1. HATCH SHALL BE SINGLE LEAF, PEDESTRIAN RATED, CHANNEL FRAME, ALUMINUM DIAMOND PATTERN PLATE DOOR.
2. HATCH DOORS SHALL BE WATERTIGHT, EQUIPPED WITH NEOPRENE GASKET, HINGED WITH LOCKING MECHANISM (HASP), AND AUTOMATIC HOLD OPEN ARM.
3. ENSURE HATCH DOOR RESTS EVENLY ON FRAME ALL AROUND.
4. ALL HARDWARE SHALL BE ZINC PLATED STEEL-CHROMATE SEALED OR STAINLESS STEEL.

SCADA TOWER NOTES:
1. DESIGN ENGINEER SHALL COORDINATE WITH FAYPWC TO CONDUCT A RADIO SURVEY OF THE PROPOSED LIFT STATION SITE.
2. THE TOWER HEIGHT SHALL BE AS REQUIRED, BASED ON THE RADIO SURVEY.
3. DESIGN ENGINEER SHALL PROVIDE A SITE SPECIFIC DESIGN FOR THE SCADA TOWER AND ITS FOUNDATION.
4. DESIGN ENGINEER SHALL COORDINATE WITH THE APPLICABLE INSPECTION OFFICE REGARDING THE HEIGHT AND DESIGN OF THE SCADA TOWER.