


EXPLOSION PROOF SUBMERSIBLE LIFT STATION N.T.S.			FAYETTEVILLE PUBLIC WORKS COMMISSION FAYETTEVILLE, N.C.		NO.	DATE	REVISION
SHEET NO. 2 OF 3	DWG. NO.	S.16	DWG. BY: FAYPWC		1	10/13/03	NOTE ADDED
	DATE: JAN. 01, 2024		APPROVED BY: M.M.M.		2	11/16/07	NOTES CHANGED
					3	07/16	REVISED AND UPDATED NOTES
WATER RESOURCES ENGINEERING DEPARTMENT							

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.

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