

1. SHOP DRAWINGS ARE REQUIRED FOR PUMPS, PIPING, VALVES, FITTINGS, ELECTRICAL EQUIPMENT AND PRE-CAST CONCRETE STRUCTURES.
2. ALL PRECAST STRUCTURES SHALL BE DESIGNED PER ACI 315 & 318 "MANUAL OF STANDARD PRACTICE". DETAIL REINFORCING DRAWINGS SHALL BE SUBMITTED WITH SHOP DRAWINGS.
3. ALL EXPOSED METAL, EXCLUDING STAINLESS STEEL OR ALUMINUM MATERIALS, SHALL BE PAINTED WITH (2) COATS OF EXTERIOR, OIL BASE, ENAMEL PAINT. PIPING SHALL COME WITH STD. RED PRIMER.
4. PRESSURE GAUGES SHALL BE STAINLESS STEEL WITH A STAINLESS STEEL DIAPHRAGM, 4-1/2" DIAL AND HAVE SUFFICIENT RANGE TO READ 20% ABOVE THE DESIGN HEAD CONDITION. (0-50 PSI)
5. INTERIOR OF WET WELL SHALL BE LINED WITH HDPE, 4.0 MM THICKNESS, AS MANUFACTURED BY AGRU SURE-GRIP, AS SUPPLIED BY HANSON PRECAST, OR APPROVED EQUAL. THE OUTSIDE OF THE WET WELL SHALL BE COATED WITH 2 COATS OF COAL TAR EPOXY, 9 MILS THICK.
6. WET WELL ACCESS HATCHES SHALL BE MINIMUM 36"x 48", 1/4" THICK ALUMINUM FLOOR PLATE REINFORCED TO 150 P.S.F. LIVE LOAD. DOORS SHALL HAVE FLUSH ALUMINUM DROP HANDLE AND AN AUTOMATIC HOLD OPEN ARM WITH RELEASE HANDLE. ALL FASTENERS AND ACCESSORIES SHALL BE 316 STAINLESS STEEL. HATCH FRAMES TO BE INTEGRALLY CAST INTO CONCRETE TOPS. THE HATCHES SHALL BE FLOOD TIGHT AS MANUFACTURED BY "HALLIDAY", OR APPROVED EQUAL.
7. THE UNDERSIDE OF ALUMINUM ACCESS COVERS AND ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED WITH A SUITABLE BITUMINOUS PAINT. ALL NUTS, BOLTS, WASHERS AND MISCELLANEOUS HARDWARE ARE TO BE 316 STAINLESS STEEL.
8. THE CONTRACTOR SHALL COORDINATE WITH FLORIDA POWER CORP. FOR ELECTRICAL SERVICE TO THE LIFT STATION SITE, AND SHALL MEET ALL POWER COMPANY REQUIREMENTS WITHOUT ADDITIONAL COMPENSATION.
9. ALL WET WELL JOINTS TO BE SEALED WITH "RAM-NEK" TAPE AND ANHYDROUS CEMENT TO LEAK FREE STATE.
10. ALL EXPOSED AND EMBEDDED CONDUITS TO BE PVC.
11. TESTING OF FORCE MAIN AND LIFT STATION SHALL BE REQUIRED. LIFT STATION SHALL BE TESTED WITH FIRST PUMP ON, SECOND PUMP ON, AND BOTH PUMPS ON.
12. ALL M.J. AND FLANGED D.I. PIPE AND FITTINGS SHALL BE POLYETHYLENE LINED (40 MILS. NOMINAL) CONFORMING TO ASTM D-1248. EXTERIOR COATING SHALL BE COAL TAR EPOXY INSIDE WET WELL.
13. PLACE ROCK OR CRUSHED CONC. AS APPROVED BY VOLUSIA COUNTY WITHIN THE WET WELL.
14. ALL SUPPORTS AND HARDWARE FOR ELECTRICAL EQUIPMENT SHALL BE ALUMINUM OR STAINLESS STEEL.
15. THE ENTIRE AREA WITHIN THE SECURITY FENCE SHALL HAVE A MINIMUM OF 6" STONE OVER LAYER OF LANDSCAPE CLOTH.
16. THE LIFT STATION SHALL BE EQUIPPED WITH DATA FLOW SYSTEMS PUMP CONTROLS AND TELEMETRY EQUIPMENT. THIS EQUIPMENT SHALL MEET VOLUSIA COUNTY'S CURRENT STANDARDS. THE DATA FLOW SYSTEM CONTROLLER SHALL BE EQUIPPED WITH A TRANSMITTER AND ANTENNA CAPABLE OF COMMUNICATING WITH THE COUNTY'S S.W. WATER RECLAMATION FACILITY, AS WELL AS CONFORMING TO VOLUSIA COUNTY DATA FLOW STANDARDS.
17. NO PENETRATIONS THROUGH THE TOP OF THE CONTROL CABINET FOR LIGHTS OR HORNS SHALL BE PERMITTED.
18. INSTALL 4X4 PRESSURE TREATED POSTS AROUND THE INSIDE PERIMETER OF THE FENCE LINE TO CONTAIN THE GRAVEL.

## **LIFT STATION NOTES**