

DESCRIPTION

1. WET WELL: SHALL BE A MINIMUM OF 6 FOOT INSIDE DIAMETER PRECAST CONCRETE MEETING "STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE", A.S.T.M. C-478 LATEST REVISION. JOINT SHALL BE SEALED WITH RAM-NEK FLEXIBLE SEALER CONFORMING TO FEDERAL SPECIFICATION SS-S-00210 IN AMOUNT SUFFICIENT TO SQUEEZE OUT PAST THE PLANE OF THE WALL. RUBBER-NEK JOINT SEALER SHALL BE USED ON EXTERNAL JOINTS. THE INTERIOR LINING SHALL BE AGRU SURE GRIP, ROYAL ANCHOR DURA PLATE 100 OR G.U. LINER OR APPROVED EQUAL. BOTTOM OF TOP SLAB SHALL BE INCLUDED. THE EXTERIOR SHALL BE PAINTED.
2. PUMP: SUBMERSIBLE NON-CLOG PUMP, INCLUDES 316, SCH 40 STAINLESS STEEL SINGLE LENGTH GUIDE RAILS. PUMP SHALL BE EQUIPPED WITH SEAL FAILURE SENSORS, HEAT SENSORS, AND HARDENED IRON IMPELLER EMPLOYING A HIGH-STRENGTH HARDENED IRON ALLOY COMPOSED OF 25% CHROMIUM AND 3% CARBON. LOCATE PUMP IN PROPER RELATION TO COVER OPENING TO ENSURE ACCURATE ALIGNMENT OF GUIDE RAILS. ANCHOR PUMP DISCHARGE CONNECTION TO WELL FLOOR WITH APPROPRIATE EXPANSION SHIELDS. DO NOT USE HYDROMATIC PUMP MODEL S4P.
3. CHECK VALVE: 4 INCH KENNEDY (OR APPROVED EQUAL) WITH LEVER, WEIGHT, AND RUBBER FACED CLAPPER. FOR DISCHARGE PIPING SMALLER THAN 4 INCH THAT DISCHARGES TO GRAVITY, CONTRACTOR SHALL PROVIDE AN INTERNAL CHECK VALVE.
4. PLUG VALVE: ECCENTRIC OPERATING, NON-LUBRICATED, ROUND PORT, BUNA N RESILIENT FACE SEATING SURFACE, CAST IRON BODY, LEVER ACTUATED WITH LEVER PROVIDED. VALVES SHALL BE EPOXY COATED INSIDE AND OUT WITH AMERCOAT 400, OR EQUAL. THE EPOXY COATING SHALL BE A MINIMUM OF 8 MILS INSIDE AND 4 MILS OUTSIDE. PLUG VALVES SHALL BE MILIKEN, KENNEDY OR APPROVED EQUAL.
5. WHEN REQUIRED BY SARASOTA COUNTY UTILITY DEPARTMENT, A PLASTIC COMPOSITE/FIBERGLASS DROP BOWL AND PIPE (RELINER/DURAN, INC. OR EQUAL) SHALL BE INSTALLED DIRECTLY BETWEEN THE PUMPS WITH STAINLESS EXPANSION BOLTS AND ADJUSTABLE STAINLESS STEEL PIPE BRACKETS, AS SHOWN ON SARASOTA COUNTY DETAIL SEWER DWG NO. 7 TO CONTROL THE DROP OF INFLUENT ENTERING THE WELL.
6. LEVEL CONTROLS: EACH SHALL BE PROVIDED WITH 30 FEET OF ELECTRIC CABLE WITH MINIMUM OF 10 FEET OF SLACK WITHIN THE WET WELL AND WEIGHTS CONNECTED TO STAINLESS STEEL FLOAT HANGER. NO SPLICING ALLOWED.
7. WET WELL ACCESS HATCH COVER: SHALL HAVE A CLEAR OPENING OF A MINIMUM OF 36x48 INCH WITH ACTUAL OPENING SIZE TO ACCOMMODATE PUMPS PROVIDING A MINIMUM OF 6 INCH CLEARANCE AROUND THE PUMP. ACCESS FRAME AND COVERS SHALL BE 1/4 INCH ALUMINUM DIAMOND PATTERN PLATE. FRAME SHALL SUPPORT GUIDE RAILS AND STAINLESS STEEL CABLE HOLDER. COVERS SHALL BE PROVIDED WITH RECESSED LIFTING HANDLE AND AN AUTOMATIC SAFETY LATCH TO HOLD COVER IN OPEN POSITION. LOCKING HASPS SHALL BE FURNISHED FOR EACH COVER. 316 S.S. HARDWARE SHALL BE USED THROUGHOUT. ALL SURFACES IN CONTACT WITH CONCRETE SHALL HAVE A SHOP COAT OF ZINC CHROMATIC PRIMER, APPROVED ALKALI RESILIENT PAINT, OR OTHER APPROVED PROTECTIVE COATING. LIVE LOAD = 300 PSF.
8. ARV, ARI D-025, WITH BLOW-OFF HOSE TO ATMOSPHERE. ALL ARV'S TO HAVE 2 INCH INLETS, 1 INCH OUTLETS, AND 0.25 INCH ORIFICES. ALL ARV ASSEMBLIES TO HAVE THE FOLLOWING STAINLESS STEEL ITEMS: BALL VALVES, ROMAC 305 OR 306 FULL WRAP AROUND SADDLE (OR APPROVED EQUAL), BOLTS, AND FITTINGS. PIPE PENETRATIONS ARE TO BE FILED AND SANDED AS REQUIRED FOR SMOOTH FINISH AND EPOXY COATED.
9. PREFORMED BOOTS WITH STAINLESS STEEL BAND.
10. LOW PROFILE VENT PIPE: 4 INCH FLANGED SCH 80 PVC WITH 316 S.S. FASTENERS AND 2 INCH 316 S.S. SPACERS. THE BOTTOM FLANGE SHALL INCORPORATE A 1/4 INCH MESH STAINLESS STEEL SCREEN BETWEEN THE BOTTOM FLANGE AND BOTTOM OF THE 2 INCH SPACERS FOR VENTILATION. THE 4 INCH DIAMETER VENT PIPE SHALL BE 4 INCH TO 12 INCH HIGH LINK SEAL HYDROSTATIC PIPE WALL CLOSURE OR APPROVED EQUAL.
11. SUPPLY LIGHTNING PROTECTION AND A MINIMUM OF 5 GROUND RODS IN A HALO AROUND THE EQUIPMENT AREA TO PROVIDE A GROUND RESISTANCE NOT GREATER THAN 3 OHMS. CADWELDS SHALL USE 3/4 INCH COPPERCLAD STEEL AND BE INDEPENDENTLY WELDED. ALL GROUNDING RODS SHALL HAVE A TEMPORARY CAP / VIEW PORT FOR FINAL INSPECTION OF THE CONNECTION BETWEEN THE GROUNDING ROD AND HALO WIRE BY UTILITY OPERATIONS.
12. A 316 S.S. OIL FILLED PRESSURE GAUGE WITH DIAPHRAGM, STAINLESS STEEL BALL VALVE, MOUNTED BY A FULL WRAP STAINLESS STEEL SADDLE ALONG THE DISCHARGE PIPE BELOW THE ARV. PRESSURE GAUGE DISPLAY RANGE SHALL PROVIDE AND BE APPROVED BY UTILITIES WITH ADEQUATE PRESSURE RANGE READINGS SUITABLE FOR ANTICIPATED PUMP STATION OPERATING PRESSURES. A MAXIMUM OPERATING RANGE OF 0-100 PSI SHALL BE PROVIDED.
13. PIPE SUPPORTS SHALL BE 2 INCH DIAMETER ADJUSTABLE 316 S.S. STANCHION SADDLE SUPPORT AND "U" WITH (2) 316 S.S. NUTS AND WITH 0.25 INCH NEOPRENE PADDING BETWEEN EACH SADDLE AND PIPE.
14. LINK-SEAL HYDROSTATIC PIPE WALL CLOSURE OR APPROVED EQUAL.
15. 4 INCH HDPE TO EMERGENCY DIESEL PUMP SUCTION PIPE.
16. ALL RTU WIRES SHALL BE INSTALLED IN THE LOWER CONDUIT BETWEEN THE CONTROL PANEL AND RTU.

N.T.S.



ISSUED NOV. 2023

Revision _____ By _____ Appd. YY.MM.DD

LIFT STATION SCHEDULE

SEWER DWG NO. 14

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