LIFT STATION STANDARD DETAILS INDEX

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CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION DETAILS

DATE 02/2020

DATE MODIFIED

DETAIL NUMBER

INDEX

LIFT STATION WET WELL DESIGN NOTES

- 1. SEE CITY STANDARD DETAIL FOR EMERGENCY PUMP CONNECTION REQUIREMENTS.
- 2. SEE CITY STANDARD DETAIL FOR 1" HOSE BIBB AND REQUIREMENTS.
- 3. SEE CITY STANDARD ELECTRICAL DETAIL FOR ELECTRICAL REQUIREMENTS.
- 4. MINIMUM WET WELL DIAMETER IS 6.0 FT. MINIMUM REQUIRED DEPTH OF WET WELL BELOW LOWEST INVERT IS 3'-6" MINIMUM CONCRETE WALL THICKNESS IS 8".
- 5. STATION TOP TO BE MIN. OF 1 FT. ABOVE FINISHED GRADE AND THE SURROUNDING FINISHED GRADE ELEVATION AND SHALL BE NO LOWER THAN THE 100-YEAR BASE FLOOD ELEVATION.
- 6. WETWELL DEPTH TO BE A MAXIMUM OF 20.0'.
- 7. ALL FENCING INSTALLED IN THE VICINITY OF LIFT STATIONS SHALL BE 6' HIGH CHAIN LINK PLASTIC COATED, BLACK IN COLOR, WOODEN SHADOW BOX, OR MASONRY WALL AS APPROVED BY THE DEPT. OF COMMUNITY DEVELOPMENT IN COMPLIANCE WITH THE ARCHITECTURAL AND LANDSCAPE REQUIREMENTS OF THE LDC. ANY SPECIAL FENCING APPROVED AND INSTALLED SHALL BE MAINTAINED BY THE PRIVATE ENTITY RESPONSIBLE. WALL / FENCING SHALL BE INSTALLED WITH A MINIMUM OF 24" CLEARANCE FROM ALL ELECTRICAL / MECHANICAL EQUIPMENT.



CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION WET WELL DESIGN NOTES

DATE 02/2020

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LIFT STATION WET WELL CONSTRUCTION NOTES (1 OF 2)

- SEE CITY STANDARD DETAIL FOR EMERGENCY PUMP CONNECTION REQUIREMENTS.
- SEE CITY STANDARD DETAIL FOR 1" HOSE BIBB AND REQUIREMENTS.
- 3. SEE CITY STANDARD ELECTRICAL DETAIL FOR ELECTRICAL REQUIREMENTS.
- 4. ALL PIPING AND FITTINGS IN WET WELLS TO BE ASSEMBLED USING 316 STAINLESS STEEL BOLTS AND NUTS ONLY.
- 5. ALL PUMP SUCTION LINE FITTINGS TO BE FLANGED JOINT, EXCEPT BASE TEES SHALL BE GLUED PVC WITH GLUED PVC BOTTOM CAPS.
- 6. SUCTION LINES IN WET WELL SHALL BE SUPPORTED AT THE BASE WITH GLUED PVC SUCTION TEES.
- 7. ALL DISCHARGE FITTINGS TO BE PVC RESTRAINED JOINT.
- 8. ALL SEWER LINES ENTERING AND EXITING MANHOLES SHALL BE SEALED UTILIZING RUBBER BOOTS OR OTHER CITY APPROVED INFILTRATION LIMITING METHODS.
- WET WELL SECTIONS SHALL BE JOINED USING "RAMNECK" JOINT MATERIAL AND SHALL BE FREE FROM SEEPAGE PRIOR TO ACCEPTANCE. PROVIDE "EZ-WRAP" BUTYL ADHESIVE TAPE PER MANUFACTURER'S RECOMMENDATIONS AT EACH WETWELL SECTION EXTERIOR JOINT CIRCUMFERENCE.
- 10. NO SPLICES OR JUNCTION BOXES ARE ALLOWED FOR BALL FLOAT CORD INSTALLATION.
- 11. ALL LIFT STATIONS AND THE LAST MANHOLE COMING INTO A WETWELL SHALL BE FIBERGLASS LINED, AGRU SURE GRIP, OR H.D.P.E. LINED, OR OTHER MATERIAL AS APPROVED BY THE CITY (ASTM D 3753).
- 12. WET WELL CONSTRUCTION SHALL BE REINFORCED CONCRETE IN ACCORDANCE WITH A.S.T.M. C-76, 4000 PSI AT 28 DAYS. ALTERNATE CONSTRUCTION SHALL BE PRECAST MONOLITHIC WITH BASE SLAB IN ACCORDANCE WITH A.S.T.M. C-478.
- 13. ELECTRICAL PERMIT TO BE OBTAINED FROM CITY (OR APPROPRIATE JURISDICTION) PRIOR TO BEGINNING WORK ON ANY ELECTRICAL WIRING, EQUIPMENT, ETC. ALL ELECTRICAL WIRING TO COMPLY WITH NATIONAL ELECTRICAL CODE.
- 14. THREE COPIES OF THE LIFT STATION OPERATING MANUAL TO BE PROVIDED TO THE PUBLIC WORKS DEPT. PRIOR TO FINAL ACCEPTANCE OF THE LIFT STATION.
- 15. EMERGENCY ELECTRICAL RECEPTACLE REQUIRED TO BE INSTALLED ON ELECTRICAL EQUIPMENT RACK, (SEE S-25).
- 16. EMERGENCY "HIGH LEVEL" WET WELL SOLID ALARM LIGHT REQUIRED NO HORN OR AUDIBLE ALARM REQUIRED.
- 17. LINKABLE FUSED ELECTRICAL DISCONNECT REQUIRED.
- 18. ALL PUMP STATION WIRING SHALL BE STANDARD COPPER. THREE PHASE POWER AND MOTORS REQUIRED.
- 19. RADIO TELEMETRY (RTU) TO BE PROVIDED BY DEVELOPER. CONTACT THE CITY FOR SPECIFICATIONS OR CONTACT DIRECTLY THE CURRENT SOLE SOURCE SUPPLIER DATA FLOW.
- 20. DEVELOPER / CONTRACTOR TO PAY ALL INITIAL ELECTRICAL CONNECTION CHARGES, ETC. ON THE DAY OF FINAL ACCEPTANCE BY THE CITY. ALL FUTURE MONTHLY ELECTRICAL BILLS TO BE TAKEN OVER BY THE CITY'S PUBLIC WORKS DEPARTMENT. PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT TO TRANSFER POWER BILL OVER TO THE CITY.
- 21. 4" PVC CONDUIT FOR FLOAT WIRES SHALL BE INSTALLED FOR ALL OFFSET LIFT STATIONS.



CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION WET WELL CONSTRUCTION NOTES

DATE 02/2020

DETAIL NUMBER

LS-2.1

LIFT STATION WET WELL CONSTRUCTION NOTES (2 OF 2)

- 23. ALL FENCING INSTALLED IN THE VICINITY OF LIFT STATIONS SHALL BE 6' HIGH CHAIN LINK PLASTIC COATED, BLACK IN COLOR, WOODEN SHADOW BOX, OR MASONRY WALL AS APPROVED BY THE DEPT. OF COMMUNITY DEVELOPMENT IN COMPLIANCE WITH THE ARCHITECTURAL AND LANDSCAPE REQUIREMENTS OF THE LDC. ANY SPECIAL FENCING APPROVED AND INSTALLED SHALL BE MAINTAINED BY THE PRIVATE ENTITY RESPONSIBLE WALL/ FENCING SHALL BE INSTALLED WITH A MINIMUM OF 24" CLEARANCE FROM ALL ELECTRICAL / MECHANICAL EQUIPMENT.
- 24. LIFT STATION START-UP INSPECTIONS SHALL BE SCHEDULED AND COORDINATED THROUGH THE CITY'S SITE INSPECTOR (2 BUSINESS DAYS IN ADVANCE). UPON DETERMINING THAT ALL WORK IS COMPLETE AND READY THE CITY INSPECTOR SHALL THEN NOTIFY THE CITY, CONTRACTOR, ENGINEER OF RECORD, POWER COMPANY, DATA FLOW, AND THE PUMP SUPPLIER OF THE OFFICIAL START-UP INSPECTION DATE AND TIME. UPON COMPLETION THE ENGINEER OF RECORD SHALL PROVIDE TO THE CITY A SUMMARY OF THE RESULTS OF THAT TEST AND A LIST OF ALL PUNCH LIST ITEMS OUTSTANDING.
- 25. 1" RTU PORT TO LIFT STATION AT THE "DOG HOUSE".
- 26. PUMP STATION FINAL INSPECTION AND ACCEPTANCE PROCEDURES:
 - BEFORE FINAL APPROVAL OR ACCEPTANCE OF ANY PUMP STATION BY THE CITY, THERE
 SHALL BE FIELD INSPECTIONS MADE BY THE CITY'S REPRESENTATIVE AND INSPECTOR.
 THE FIELD INSPECTIONS SHALL SHOW THAT THE PUMP STATION IS FULLY OPERATIONAL
 AND ALL NECESSARY APPURTENANCES HAVE BEEN INSTALLED AND CONSTRUCTED IN
 ACCORDANCE WITH THE PLANS AND THE STANDARD CONSTRUCTION DETAILS AS
 APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.
 - UPON COMPLETION AND BEFORE ACCEPTANCE OF THE PUMP STATION INSTALLATION, THE CONTRACTOR SHALL TEST ALL THE PUMPING EQUIPMENT TO DEMONSTRATE SATISFACTORY PERFORMANCE. IF DEFICIENCIES OCCUR, THE CONTRACTOR SHALL CORRECT THEM ACCORDINGLY AND EQUIPMENT SHALL BE RETESTED.
 - REPRESENTATIVES FROM THE PUMPING EQUIPMENT MANUFACTURER, DATA FLOW TELEMETRY, AND THE ELECTRICAL CONTRACTOR SHALL BE PRESENT AT THE PUMP STATION START-UP TESTING AND FOR THE FINAL SITE INSPECTION.
 - ALL PUMP STATION EQUIPMENT SHALL BE TESTED AT THE START-UP. THE
 MANUFACTURER/CONTRACTOR SHALL PROVIDE A FORMAL TEST PROCEDURE AND
 FORMS FOR RECORDING DATA. THE TESTS SHALL BE PREFORMED BY THE CONTRACTOR
 IN THE PRESENCE OF A CITY REPRESENTATIVE AND CITY INSPECTOR. THE RECORDED
 FIELD DATA SHALL BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT ALONG WITH
 THE PUMP STATION AS-BUILT AND PUMP STATION MAINTENANCE AND OPERATING
 MANUALS.
 - ALL GROUND SURROUNDING THE PUMP STATION MUST BE GRADED IN # 57 STONE FINAL ACCEPTANCE OF THE PUMP STATION WILL NOT BE GIVEN UNTIL EFFECTIVE EROSION AND POSITIVE DRAINAGE CONTROL HAVE BEEN PROVIDED.
 - PUMP STATIONS SHALL ONLY BE CONSIDERED AS ACCEPTABLE FOR OPERATION BY THE CITY UPON WRITTEN CONFIRMATION BY THE PUBLIC WORKS DEPARTMENT.
 - IN THE EVENT THAT THE STATION OR ANY OF IT'S ASSOCIATED COMPONENTS ARE
 DETERMINED TO BE DEFICIENT AT THE START UP, THEN THE CITY RESERVES THE RIGHT
 TO REQUIRE A COMPLETE NEW START UP WITH ALL PARTIES PRESENT AS NOTED.
 - UPON COMPLETION AND ACCEPTANCE, THE CITY SHALL NOTIFY THE ENGINEER OF RECORD.



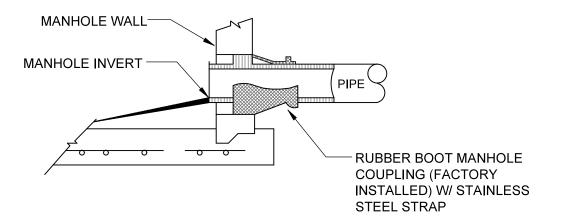
CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION WET WELL CONSTRUCTION NOTES

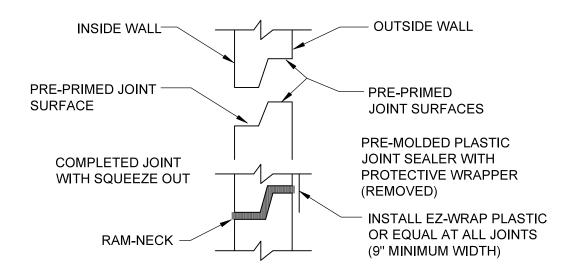
DATE 02/2020

DETAIL NUMBER

LS-2.2



MANHOLE PIPE CONNECTION (FOR NEW CONNECTIONS IN EXISTING MANHOLES)



PRECAST JOINT CONNECTION

NOTE:

1. ALL NEW CONNECTIONS TO EXISTING SANITARY SEWER MANHOLES SHALL UTILIZE A CORING METHOD AND THE IN-FIELD INSTALLATION OF A RUBBER BOOT INTO THE MANHOLE.

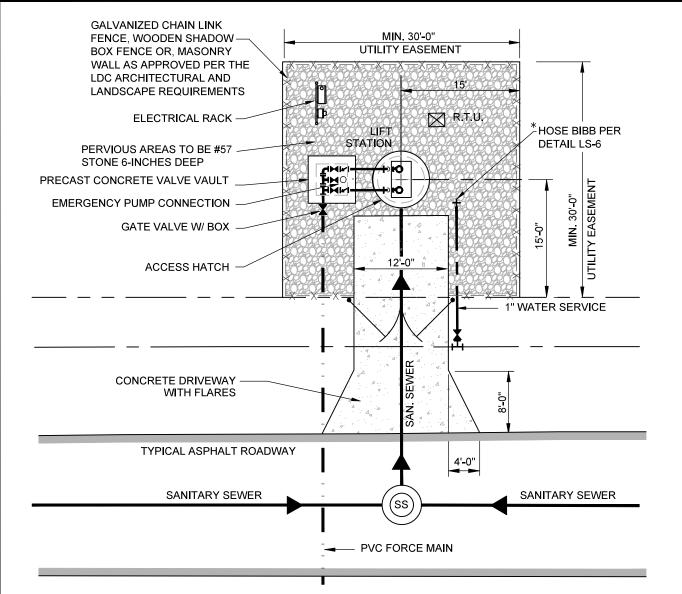


CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

RUBBER BOOT AND PRECAST JOINT CONNECTION

DATE 02/2020

DETAIL NUMBER



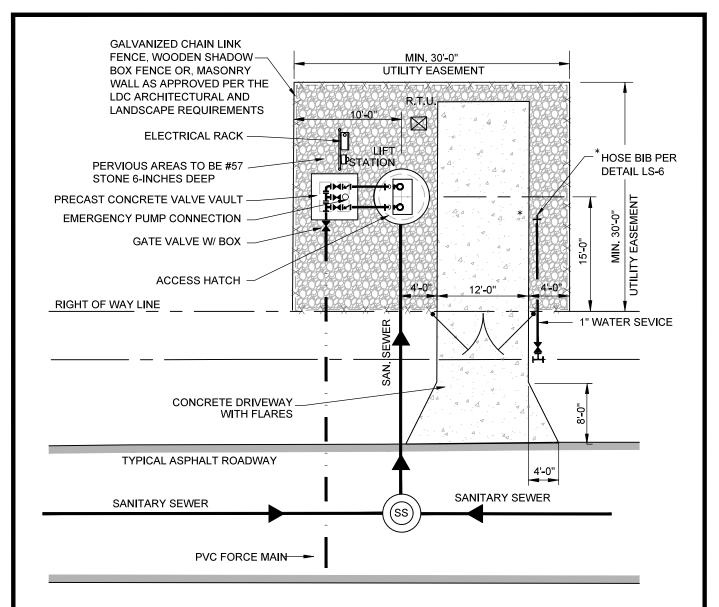
- 1. DRIVEWAY TO BE 6" THICK 3000 PSI CONCRETE AT 28 DAYS WITH 6x6 10/10 W.W. MESH. BASE TO BE COMPACTED AND TESTED TO 98% DENSITY WITH MINIMUM L.B.R. 40 BASED ON AASHTO T-180 MODIFIED PROCTOR TEST.
- IF RECLAIMED WATER IS UNAVAILABLE FOR LIFT STATION WATER SERVICE, CONTRACTOR SHALL USE POTABLE WATER.
- 12.0' HAMMERHEAD DRIVEWAY OUTSIDE FENCE MAY BE REQUIRED DEPENDS ON SITE CONDITION.
- 4. FENCE MAY BE RELOCATED INTERNALLY WITHIN SITE TO CREATE A 25' X 25' SITE IF LANDSCAPING MATERIALS ARE INSTALLED AROUND THE PERIMETER. ANY FENCE MATERIAL DEVIATIONS WILL REQUIRE MAINTENANCE BY OWNER/DEVELOPER.
- 5. FINISH GRADE OF LIFT STATION SITE SHALL BE EQUAL TO OR GREATER THAN THE ELEVATION OF THE CENTERLINE OF ADJACENT ROADWAY & THERE MUST BE POSITIVE DRAINAGE AT & SURROUNDING THE SITE.



CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

TYPICAL LIFT STATION SITE PLAN DATE 02/2020

DETAIL NUMBER



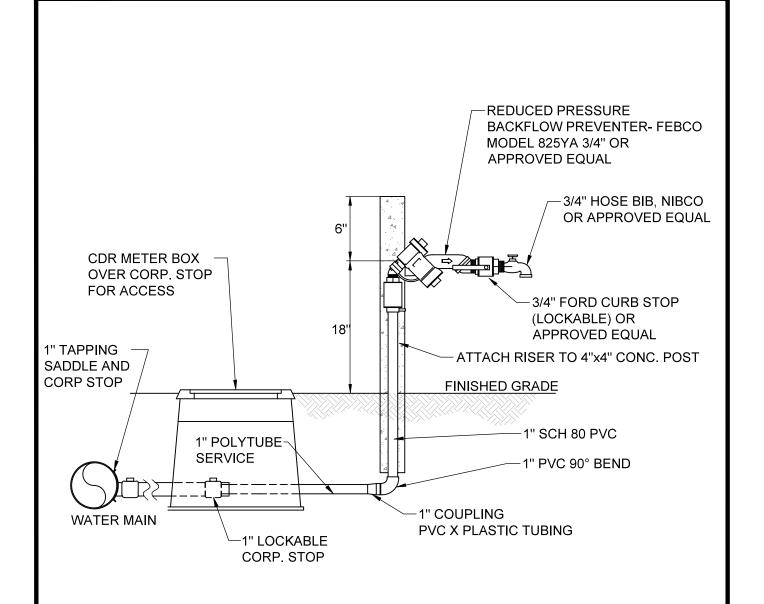
- 1. DRIVEWAY TO BE 6" THICK 3000 PSI CONCRETE AT 28 DAYS WITH 6x6 10/10 W.W. MESH. BASE TO BE COMPACTED AND TESTED TO 98% DENSITY WITH MINIMUM L.B.R. 40 BASED ON AASHTO T-180 MODIFIED PROCTOR TEST.
- IF RECLAIMED WATER IS UNAVAILABLE FOR LIFT STATION WATER SERVICE, CONTRACTOR SHALL USE POTABLE WATER.
- 12.0' HAMMERHEAD DRIVEWAY OUTSIDE FENCE MAY BE REQUIRED DEPENDS ON SITE CONDITION.
- 4. FENCE MAY BE RELOCATED INTERNALLY WITHIN SITE TO CREATE A 25' X 25' SITE IF LANDSCAPING MATERIALS ARE INSTALLED AROUND THE PERIMETER. ANY FENCE MATERIAL DEVIATIONS WILL REQUIRE MAINTENANCE BY OWNER/DEVELOPER.
- 5. FINISH GRADE OF LIFT STATION SITE SHALL BE EQUAL TO OR GREATER THAN THE ELEVATION OF THE CENTERLINE OF ADJACENT ROADWAY & THERE MUST BE POSITIVE DRAINAGE AT & SURROUNDING THE SITE.



CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

TYPICAL LIFT STATION SITE PLAN DATE 02/2020

DETAIL NUMBER



- 1. ALL BRASS FITTINGS TO BE LEAD FREE NSF 372.
- 2. REDUCED PRESSURE BACKFLOW PREVENTER SHALL BE LOCKABLE.

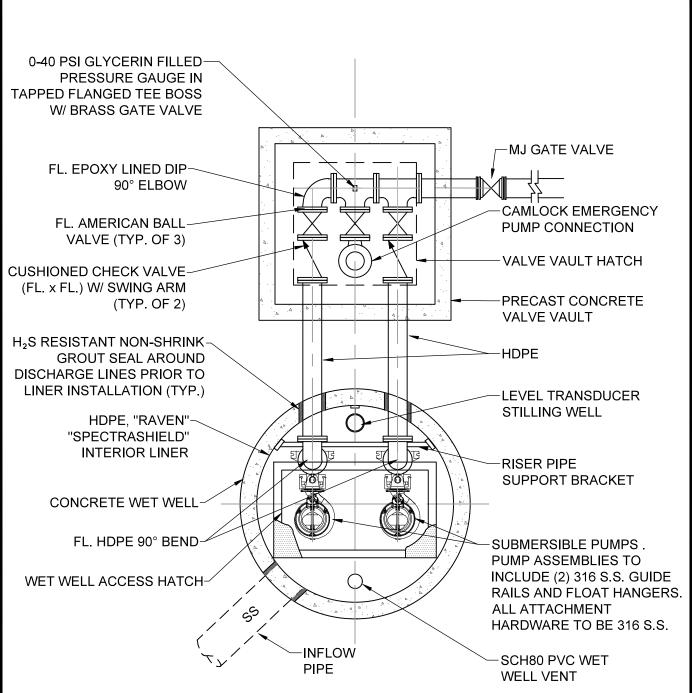


CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION WATER SERVICE (WHERE RECLAIM WATER NOT AVAILABLE)

DATE 02/2020

DETAIL NUMBER



- 1. VALVE VAULT TO HAVE (2) COATS 15 MILS TOTAL OF COAL TAR EPOXY INTERIOR COATING. INSTALL SCH80 PVC VAULT DRAIN AS SHOWN. INSTALL DRAIN TRAP INSIDE WET WELL.
- 2. PROVIDE HASP TYPE LOCKING MECHANISM ON ALL ACCESS HATCHES.
- 3. PUMPS TO BE FURNISHED WITH HIGH PRESSURE DISCHARGE COUPLING, STAINLESS STEEL GUIDE RAILS SYSTEM, SEAL FAILURE AND THERMAL OVERLOAD INDICATORS.
- 4. ALL HARDWARE INSIDE WET WELL TO BE 316 STAINLESS STEEL (S.S.).

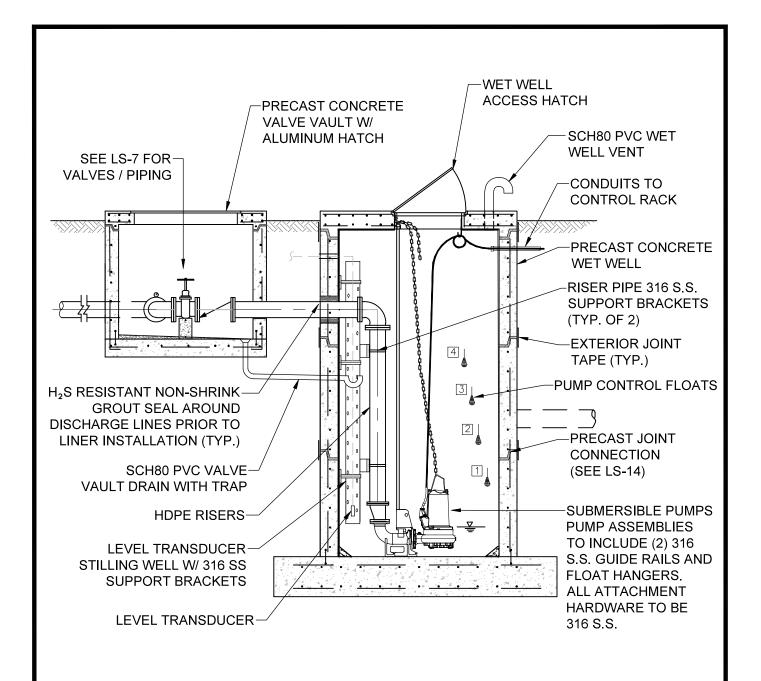


CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION PLAN

DATE 02/2020

DETAIL NUMBER



- 1. VALVE VAULT TO HAVE (2) COATS 15 MILS TOTAL OF COAL TAR EPOXY INTERIOR COATING. INSTALL SCH80 PVC VAULT DRAIN AS SHOWN. INSTALL DRAIN TRAP INSIDE WET WELL.
- 2. PROVIDE HASP TYPE LOCKING MECHANISM ON ALL ACCESS HATCHES.
- 3. PUMPS TO BE FURNISHED WITH HIGH PRESSURE DISCHARGE COUPLING, STAINLESS STEEL GUIDE RAILS SYSTEM, SEAL FAILURE AND THERMAL OVERLOAD INDICATORS.
- 4. ALL HARDWARE INSIDE WET WELL TO BE 316 STAINLESS STEEL (S.S.).

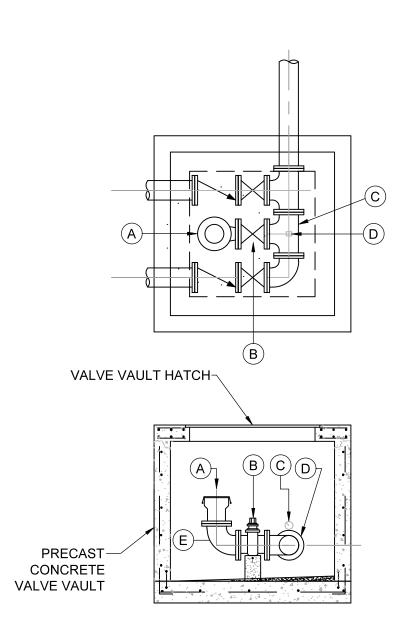


CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION WET WELL

DATE 02/2020

DETAIL NUMBER



- A CAMLOCK EMERGENCY
 PUMP CONNECTION WITH
 DUST CAP PER CITY
 STANDARDS
- (B) FL. AMERICAN BALL VALVE
- C 0-40 PSI GLYCERIN FILLED PRESSURE GAUGE IN TAPPED FLANGED TEE BOSS WITH BRASS GATE VALVE
- D FL. TEE, DIP EPOXY LINED
- E FL. 90° BEND, DIP EPOXY LINED

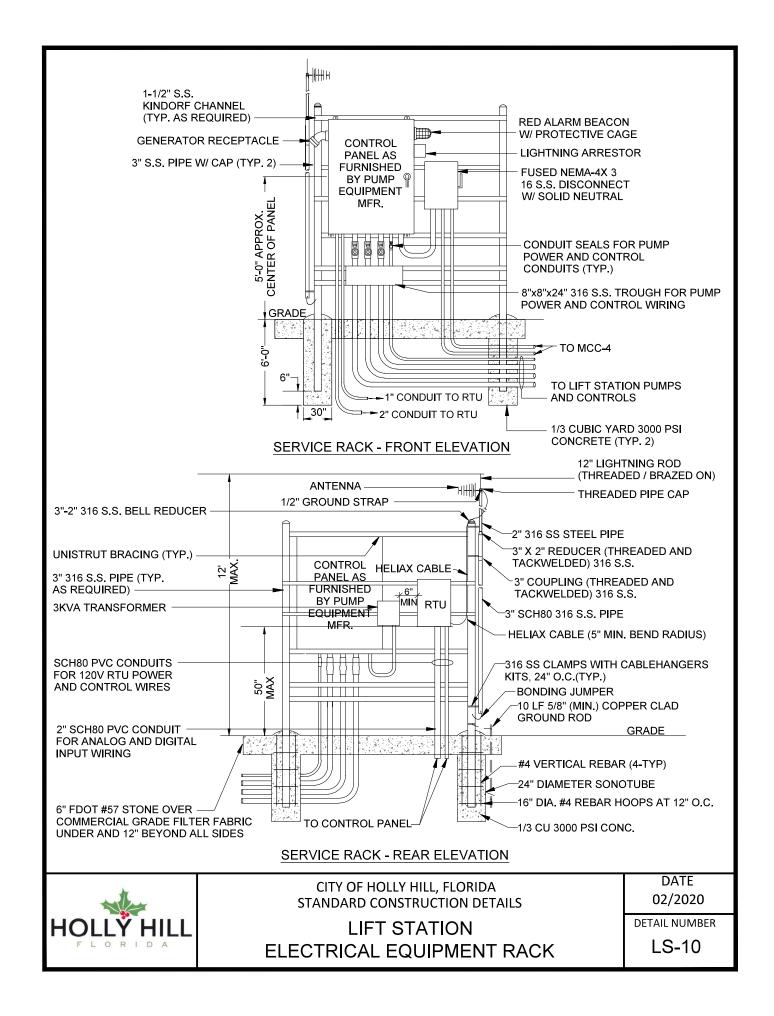


CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION
EMERGENCY PUMP CONNECTION

DATE 02/2020

DETAIL NUMBER



LIFT STATION ELECTRICAL EQUIPMENT RACK NOTES

MAST INSTALLATION NOTES:

- PROPOSED MAST HEIGHT WILL BE DETERMINED BY CITY UTILITIES PRIOR TO CONSTRUCTION.
- CONFORM TO THE LATEST BUILDING AND ZONING CODES FOR NEW INSTALLATIONS.
- 3. DO NOT CONSTRUCT MAST WITHIN 3 FEET OF AN ELECTRICAL SERVICE DROP (480V OR LESS), WITHIN 10' OF OVERHEAD POWER LINE UP TO 32kV, WITHIN 15' OF AN OVERHEAD POWER LINE UP TO 115kV, OR WITHIN 20' OF AN OVERHEAD POWER LINE EXCEEDING 115kV.
- 4. GROUND THE MAST AT THE BASE BY PROVIDING 1/2-INCH GROUND STRAP. CONNECT TO GROUND ROD WITH #4 AWG BARE COPPER WIRE AND ACORN CLAMP.
- 5. COUPLINGS ON THE MAST MUST BE AT LEAST 10' ABOVE GRADE. COUPLINGS ARE NOT ALLOWED BELOW 10' ABOVE GRADE.
- 6. CONSTRUCT MAST FOUNDATION WITH 3000 PSI REINFORCED CONCRETE IN 24" DIAMETER SONOTUBE IN UNDISTURBED OR COMPACTED SOIL (95% DENSITY).
- PROVIDE 3" MINIMUM CONCRETE COVER ON REINFORCING STEEL.
- 8. SHAPE THE TOP OF THE CONCRETE FOUNDATION INTO A DOME.
- 9. INSTALL 1" AND 2" PVC CONDUITS (1 EACH) TO PUMP CONTROL PANEL. MAINTAIN MINIMUM 6" SEPARATION AND 18" DEPTH.

RTU INSTALLATION NOTES:

- 1. CONFORM TO THE LATEST CODES FOR NEW INSTALLATIONS.
- 2. GROUND ANTENNA TO MAST WITH 1/2-INCH GROUND STRAP.
- ANTENNA HEIGHT AND DIRECTION DETERMINED BY CITY UTILITIES SERVICES PRIOR TO CONSTRUCTION.
- 4. PROVIDE CORROSION RESISTANCE FROM GALVANIC ACTION AT INTERFACES OF DISSIMILAR METALS EXCEPT AT GROUND POINTS.
- MAINTAIN MINIMUM 6" SEPARATION. FASTEN HELIX CABLE TO EXTERIOR OF MAST WITH 316 STAINLESS STEEL CLAMPS AT 24" INTERVALS.

GENERAL NOTES:

- ALL CONDUITS ENTERING ANY ENCLOSURE, PANEL, DISCONNECT, WIREWAY ETC., SHALL BE TERMINATED WITH A THREADED HUB FITTING (MEYERS HUB).
- IF THE PUMP CABLES ARE OF A SIZE (CROSS SECTIONAL AREA) THAT EXCEEDS NEC CONDUIT FILL REQUIREMENTS, THEN CONDUITS SHALL BE UPSIZED TO MEET NEC REQUIREMENTS.
- 3. MINIMUM CLEAR WORKING SPACE PER NEC ARTICLE 110.26 SHALL BE MAINTAINED.
- 4. PUMP MANUFACTURER SUPPLIED CONTROL PANEL MUST MEET STANDARDS SHOWN ON CITY'S STANDARD DETAILS SHEETS E-6 THRU E-9.
- CONTROL PANEL/SERVICE GROUND ROD(S) AND RTU GROUND ROD SHALL BE A MINIMUM OF 6' APART, CONNECTED WITH #4 AWG CU SOLID BARE CONDUCTORS, AND COPPER/COPPER CLAD.

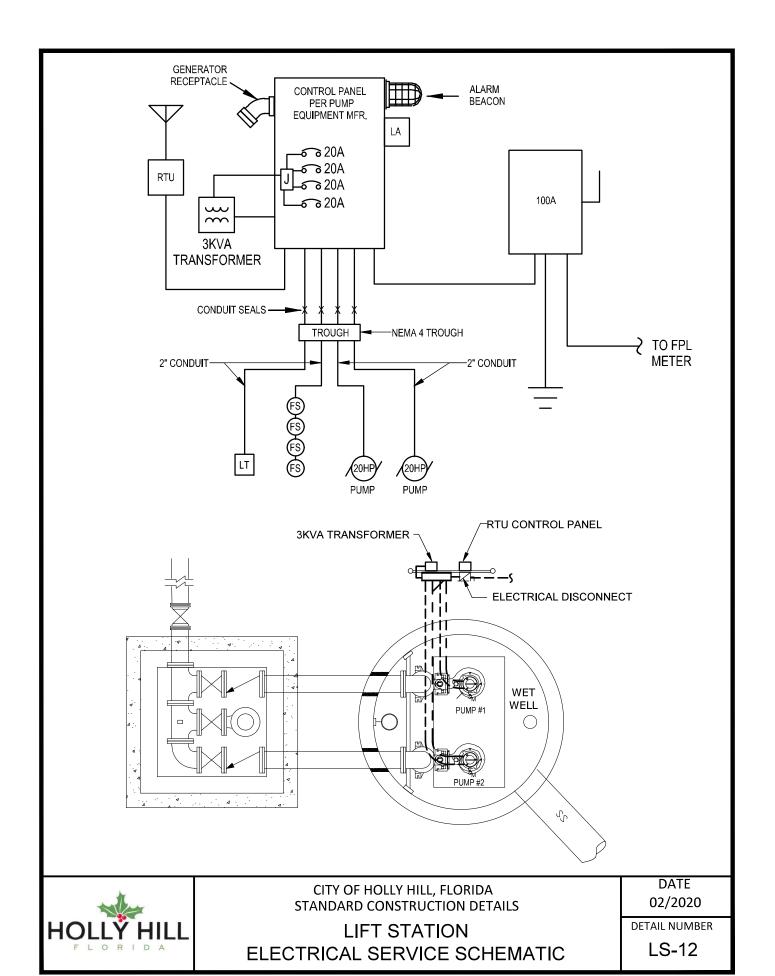


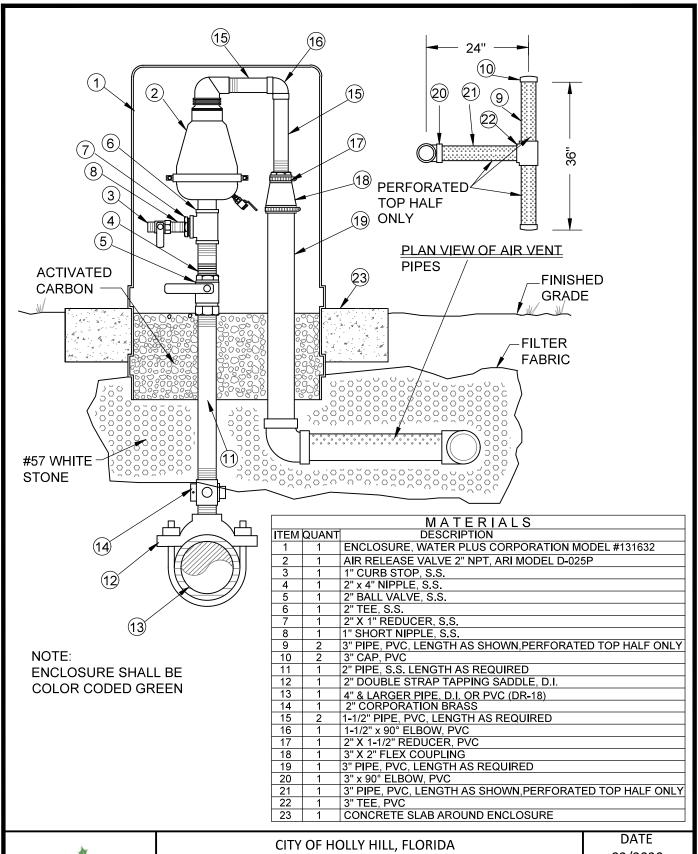
CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION
ELECTRICAL EQUIPMENT RACK NOTES

DATE 02/2020

DETAIL NUMBER



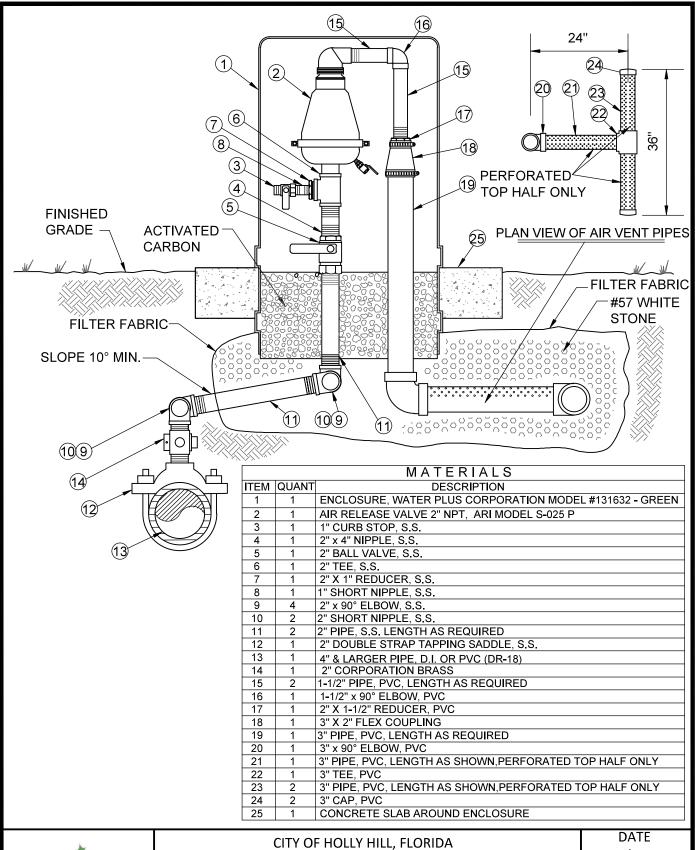




STANDARD CONSTRUCTION DETAILS SANITARY SEWER AIR RELEASE VALVE ASSEMBLY W/ ODOR CONTROL SYSTEM (VERTICAL PIPE LAYOUT)

02/2020

DETAIL NUMBER

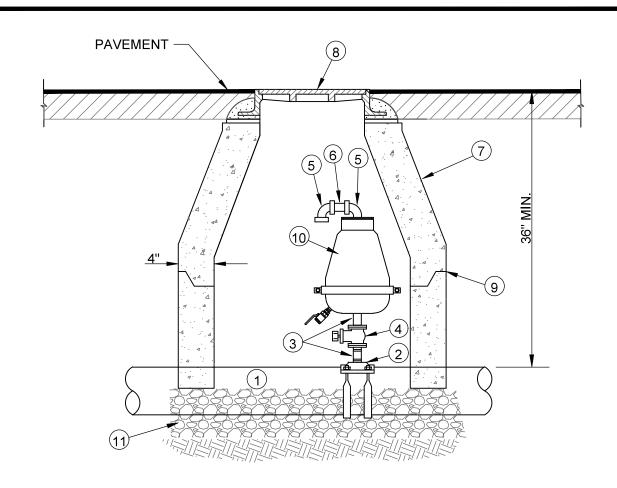




CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

SANITARY SEWER AIR RELEASE VALVE ASSEMBLY W/ ODOR CONTROL SYSTEM (OFFSET PIPE LAYOUT) 02/2020

DETAIL NUMBER



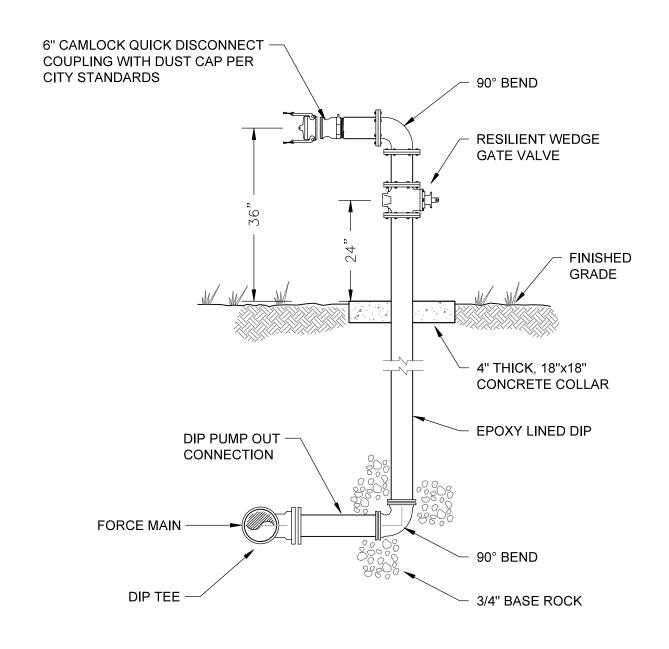
MATERIALS				
ITEM	QUANT	DESCRIPTION		
1	*	4" & LARGER PIPE, D.I. OR PVC (DR-18)		
2	1	2" (TAP) SADDLE, SERVICE (SEE NOTE)		
3	2	2" x 2" NIPPLE, S.S.		
4	1	2" BALL VALVE, S.S.		
5	2	1/2" x 90° ELBOW, PVC		
6	1	1/2" x 6" NIPPLE, PVC		
7	1	PRECAST MANHOLE CONE, DOG HOUSE STYLE		
8	1	24" DIA. CAST IRON/DUCTILE IRON MANHOLE		
		RING & COVER - 24" MARKED SEWER ARV		
9	*	SEALER (RAM-NEK)		
10	1	AIR RELEASE VALVE (ARI MODEL D-025P)		
11	*	GRAVEL BED		

- 1. 4" SADDLE TO BE BRASS FULL SUPPORT TYPE.
- 2. 6" AND LARGER SADDLES TO BE DOUBLE STRAP DUCTILE IRON.
- MANHOLE STRUCTURE TO INCLUDE NECESSARY FOOTING TO ACCOMMODATE TRAFFIC CONDITIONS.
- 4. MANHOLE STRUCTURE INTERIOR TO BE COAL TAR EPOXY LINED.
- 5. THE VALVE SHALL BE OFFSET IN MANHOLE FOR MAINTENANCE PURPOSES.



CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS SANITARY SEWER - FORCE MAIN AIR RELEASE VALVE (UNDERGROUND - TRAFFIC STYLE) DATE 02/2020

DETAIL NUMBER



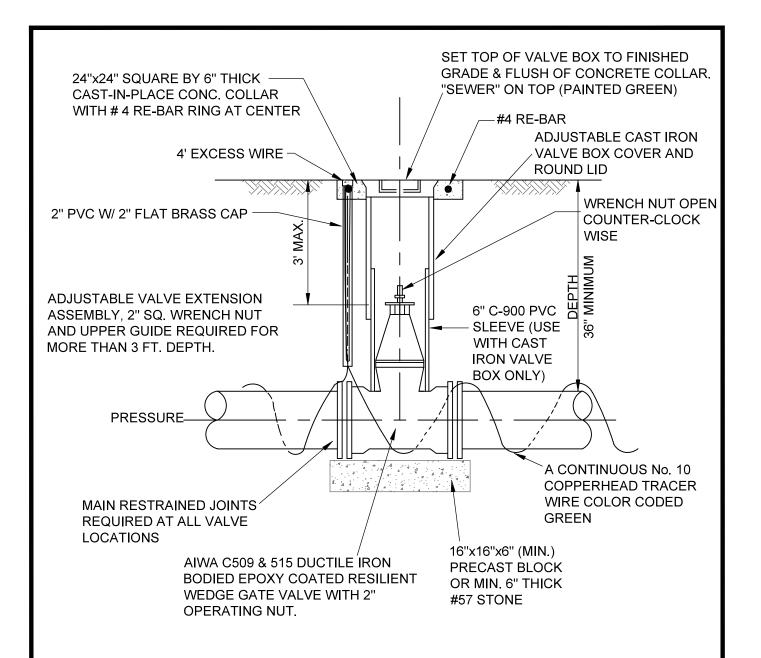


CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

LIFT STATION
PUMP OUT / BYPASS CONNECTION

DATE 02/2020

DETAIL NUMBER



- BOLT VALVES TO TEE OR CROSS WHEREVER AND WHENEVER APPLICABLE.
- 2. A CONTINUOUS TRACER WIRE TO BE COLOR CODED "GREEN" FOR SEWER, LAID ON TOP IN TRENCH.
- GATE VALVE WEDGE SHALL BE COMPLETELY ENCAPSULATED WITH EDAM RUBBER.
- 4. ALL OUTSIDE HEX NUTS, BOLTS AND HARDWARE (EXCEPT MECHANICAL BOLTS SUCH AS "T" BOLTS) SHALL BE MINIMUM 316 STAINLESS STEEL GRADE.



CITY OF HOLLY HILL, FLORIDA STANDARD CONSTRUCTION DETAILS

SANITARY SEWER FORCE MAIN - VALVE & VALVE BOX (4" - 16")

DATE 02/2020

DETAIL NUMBER