

CITY OF PEMBROKE PINES
ENGINEERING/UTILITIES DIVISION

STANDARD SANITARY
SEWER DETAIL

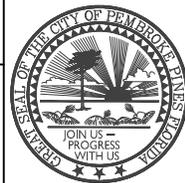
APPROVED: K.M.K.

REVISED:

DATE: 02/22/17

10/02/18

STANDARD LIFT STATION PLAN



S-11

SHEET 1 OF 2

NOTES:

1. LIFT STATION SITE PLAN/LAYOUT PLAN TO BE SUBMITTED TO ENGINEERING AND UTILITIES DIVISIONS FOR APPROVAL.
2. MINIMUM LIFT STATION EASEMENT SHALL BE 30'X20' EXCLUSIVE OF OTHER EASEMENTS. THE 30' DIMENSION SHALL BE PARALLEL TO THE ADJACENT ROADWAY. ENTIRE EASEMENT LIMITS SHALL HAVE 8' HIGH GALVANIZED CHAIN LINK FENCE ENCLOSURE WITH TWO (2) 6' MINIMUM WIDE GATES.
3. LIFT STATION SHALL BE MANUFACTURED BY SMITH AND LOVELESS AND SHALL MEET CITY OF PEMBROKE PINES STANDARDS AND SPECIFICATIONS AT THE TIME OF FINAL ACCEPTANCE.
4. ELECTRICAL CONTROL PANEL, R.T.U. ANTENNA AND THEIR ASSOCIATED COMPONENTS SHALL BE PROVIDED BY SANDERS COMPANY AND SHALL MEET THE CITY OF PEMBROKE PINES STANDARDS AND SPECIFICATIONS AND FUNCTION PROPERLY WITH THE CITY'S ESTABLISHED SYSTEM OF COMMUNICATION FOR LIFT STATIONS.
5. CONTRACTOR SHALL CONTACT FLORIDA POWER & LIGHT AS PART OF BIDDING OF THE LIFT STATION IMPROVEMENTS AND INSTALLATION TO ESTABLISH ELECTRICAL SERVICE REQUIREMENTS AND ALL COST RELATED TO PROVIDING THE ELECTRICAL SERVICE SHALL BE INCLUDED IN THE BID PRICING AND INSTALLATION OF THE LIFT STATION FOR CITY ACCEPTANCE.
6. ALL ELECTRICAL SERVICE CONDUITS SHALL BE PVC SCHEDULE 80, BURIED TO PROVIDE A MINIMUM COVER OF 24". ALL ELECTRICAL CABLES SHALL BE STRANDED COPPER RATED 'THW/THHN' 600 V INSULATION.
7. THE WET WELL SHALL BE COATED/PAINTED ON THE INSIDE WITH TWO (2) COATS AND OUTSIDE WITH ONE (1) COAT OF 'COAL TAR EPOXY'. FIRST COAT INSIDE SHALL BE RED AND THE SECOND COAT SHALL BE BLACK. COAL TAR EPOXY MAY BE SHERWIN WILLIAMS 'TARGUARD' TYPE OR CITY APPROVED EQUAL.
8. CONCRETE SLAB WITHIN THE LIFT STATION ENCLOSURE SHALL BE 6" MINIMUM THICKNESS CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI ON 12" SUBGRADE COMPACTED TO 98% MINIMUM DRY DENSITY PER ASSHTO T-180. SLAB REINFORCING SHALL BE AS SPECIFIED ON THE CITY'S STANDARD, 'SERVICE PANEL WALL AND CONTINUOUS FOOTER DETAIL' (S-16), UNLESS OTHERWISE NOTED ON THE PLANS.
9. ALL ELEVATIONS ON THE LIFT STATION PLAN SHALL BE BASED ON THE 'NORTH AMERICAN VERTICAL DATUM' OF 1988 (NAVD 88).
10. PUMP MOTORS UP TO 30 HP (15KW) MAXIMUM - 230 VOLTS. PUMP MOTORS UP TO 40 HP (22 KW) MAXIMUM - 460 VOLTS.
11. AS PER SECTION 50.04(F)4(e) OF THE CITY CODE OF ORDINANCES, "THE DEVELOPER SHALL PROVIDE ONE EMERGENCY GENERATOR AND/OR ONE BY-PASS PUMP AT THE CITY'S DISCRETION FOR EACH NEW OR UPGRADED LIFT STATION". THE ENGINEER OF RECORD WILL BE ADVISED AT THE TIME OF CONSTRUCTION PERMIT WHETHER AN EMERGENCY GENERATOR OR BY-PASS PUMP MUST BE PROVIDED FOR CITY ACCEPTANCE OF THE LIFT STATION. BY-PASS PUMP SHALL BE THOMPSON PUMP MODEL No. 6JSCE-DJCST-423 MC, A 6" SOUND ATTENUATED, COMPRESSOR ASSISTED, TRAILER MOUNTED HIGH EFFICIENCY PUMP WITH 6"X20' R-SUCTION HORSE AND 6"X10' R-HIGH PRESSURE DISCHARGE HOSE BOTH HAVING CAMLOCK (MXF) FITTINGS, UNLESS OTHERWISE SPECIFIED AT THE TIME OF CONSTRUCTION PERMIT. EMERGENCY GENERATOR SHALL BE GENERAC OR MULTI-QUIP TRAILER MOUNTED DIESEL TYPE HAVING A POWER RATING/CAPACITY BASED ON LIFT STATION ELECTRICAL REQUIREMENTS AND SUPPLIED WITH ELECTRICAL POWER LEADS PER ELECTRICAL RATING/CAPACITY OF LIFT STATION (LENGTH OF POWER LEADS TO BE DETERMINED BY CITY PER FIELD CONDITIONS). A "CERTIFICATE OF ORIGIN" MUST BE PROVIDED FOR THE TRAILER MOUNTED EMERGENCY GENERATOR FOR STATE REGISTRATION AND LICENSING PURPOSES. ENGINEER TO PROVIDE GENERATOR SPECIFICATIONS/CUT SHEETS FOR UTILITIES DIVISION APPROVAL.
12. CONTRACTOR SHALL PROVIDE "EMERGENCY CONTACT" ALUMINUM SIGN MOUNTED TO LIFT STATION CHAIN LINK FENCE GATE AND SIGN TO HAVE MINIMUM 2" HEIGHT WHITE LETTERS ON RED BACKGROUND NOTING THE FOLLOWING: "EMERGENCY CONTACT (954) 518-9000" "NO TRESPASSING - CITY OF PEMBROKE PINES PROPERTY" SIGN TO BE PLACED ON ALL FOUR (4) SIDES OF THE CHAIN LINK FENCE ENCLOSURE ALSO HAVING MINIMUM 2" HEIGHT LETTERS ON RED BACKGROUND.
13. ALL STAINLESS STEEL SHALL BE 316, UNLESS OTHERWISE NOTED ON STANDARD LIFT STATION PLAN, S-11 OR LIFT STATION SECTION, S-12.
14. LIFT STATION IMPELLAR TYPE SHALL BE "X-PELLAR".

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