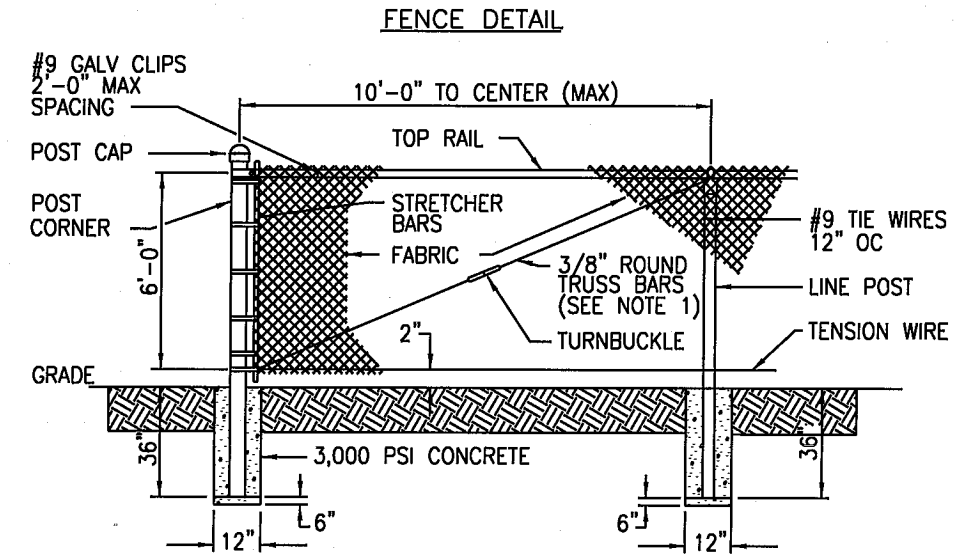


GENERAL NOTES:

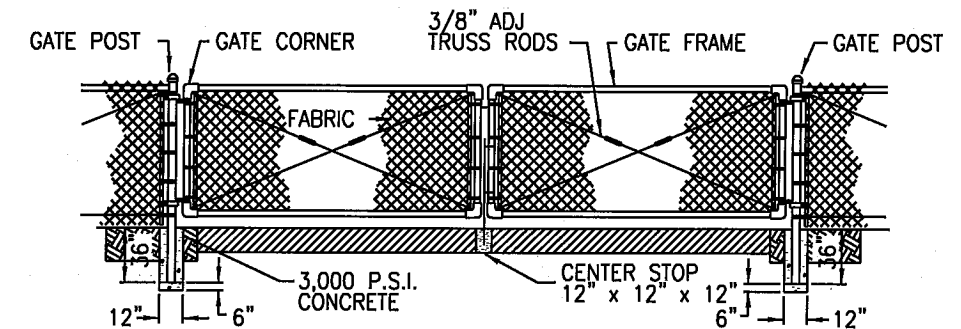
1. BASE AND FIRST RISER UNIT TO BE CAST MONOLITHIC.
2. VALVE VAULT SHALL BE SIZED TO PERMIT EASY REMOVAL OF CHECK VALVE SPINDLES WITH MINIMUM CLEARANCES AS SHOWN FOR 6" DIA PIPE AND SMALLER. CLEARANCES SHALL INCREASE AS REQUIRED FOR LARGER PIPE SIZES.
3. VALVE VAULT SHALL HAVE SEALED FLOOR AND DRAIN.
4. ALL LOCATIONS WHERE PIPES ENTER OR LEAVE THE WET WELL OR VALVE VAULT SHALL BE MADE WATERTIGHT WITH WALL SLEEVE OR NON-SHRINK GROUT.
5. THERE SHALL BE NO VALVES OR ELECTRICAL JUNCTION BOXES IN WET WELL.
6. WET WELL AND VALVE VAULT COVERS SHALL BE ALUMINUM WITH 316 STAINLESS STEEL HARDWARE AND LOCK BRACKET. SIZE AS REQUIRED BY PUMP MANUFACTURER AND APPROVED BY THE CITY. UNLESS OTHERWISE NOTED.
7. FLEXIBLE COUPLING SHALL BE SLEEVE TYPE.
8. ALL HARDWARE IN WET WELL AND VALVE BOX TO BE STAINLESS STEEL.
9. CONTRACTOR SHALL INSTALL A "P" TRAP IN THE WET WELL DOWNSTREAM OF THE FLOOR DRAIN SHOWN.
10. WET WELL ACCESS HATCH TO BE ONE (1) 30" X 48", CHECKERED ALUMINUM PLATE WITH PADLOCK STAPLE AND HASP, SWING HANDLE AND 316 STAINLESS STEEL FITTINGS AND ACCESSORIES AS MANUFACTURED BY "HALLIDAY", PRODUCTS SERIES H1W ACCESS DOOR AT H2O LOAD RATING OR APPROVED EQUAL. HATCH FRAME TO BE INTEGRALLY CAST IN TOP. PROVIDE "MASTER" KEYED LOCKS.
11. VALVE VAULT ACCESS HATCH TO BE ONE (1) 48" X 48", CHECKERED ALUMINUM PLATE WITH PADLOCK STAPLE AND HASP, SWING HANDLE AND 316 STAINLESS STEEL FITTINGS AND ACCESSORIES AS MANUFACTURED BY "HALLIDAY", PRODUCTS SERIES H2W ACCESS DOOR AT H2O LOAD RATING OR APPROVED EQUAL. HATCH FRAME TO BE INTEGRALLY CAST IN TOP. PROVIDE "MASTER" KEYED LOCKS.
12. PROVIDE AND INSTALL QUALITY CONTROLS, INC. CONTROL PANEL, OR APPROVED EQUAL, WITH NEMA 3R STAINLESS STEEL ENCLOSURE. THIS PANEL SHOULD HAVE TYPE SQ. "D" HD FRAME CIRCUIT BREAKERS AND HORIZONTAL ROTARY OIL PROOF, THREE POSITION SELECTOR SWITCH FOR HAND-OFF-AUTOMATIC OPERATIONS. CONTROLLERS SHALL INCLUDE ALARM LIGHT AS WELL AS AUDIBLE DEVICE, ELAPSED TIME METERS FOR EACH PUMP. LIGHTNING PROTECTION (3 PHASE), PHASE PROTECTION AND LOW VOLTAGE PROTECTION. CONTROL PANELS SHALL HAVE AUXILIARY GENERATOR RECEPTACLE (100 AMP RUSSEL STOLL TYPE JRS1044-FR WATERPROOF RECEPTACLE OR APPROVED EQUAL). CABINET SHALL BE 304 STAINLESS STEEL WITH AN INNER ALUMINUM DEAD FRONT DOOR WITH CONTINUOUS HINGE. CONTROLLER SHALL INCLUDE PUMP ALTERNATOR WITH ALTERNATOR TEST, EMERGENCY GENERATOR CIRCUIT BREAKER WITH INTERLOCK, DC ALARM WITH BATTERY AND CHARGER AND ALARM SILENCE. ALARM TO BE ENERGIZED BY POWER/PHASE FAILURE, HIGH WATER LEVEL FLOAT. PROVIDE DUPLEX 120 VOLT RECEPTACLE IN PANEL. PANEL SIZE 30"W X 42"H X 10"D MIN. SHOP DRAWINGS REQUIRED FOR APPROVAL. ALL ELECTRICAL WORK TO BE IN STRICT ACCORDANCE WITH LOCAL AND NATIONAL ELECTRICAL CODES. PROVIDE EQUIPMENT FOR SCADA CONTROL CONNECTION AND TELEPHONE SERVICE LINE.
13. PROVIDE AND INSTALL FOUR (4) ROTO-FLOAT, DIRECT ACTING FLOAT SWITCHES. THREE SENSORS SHALL BE USED FOR PUMP OPERATION AND A FOURTH SENSOR FOR HIGH WATER ALARM. FLOATS AND CONTROL SYSTEM SHALL BE LOW VOLTAGE. INSTALL FLOAT CONTROLS AWAY FROM PUMP LEADS AND OUT OF THE FLOW OF INFLUENT SEWAGE.
14. THE UNDERSIDE OF ALUMINUM ACCESS COVERS AND ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED WITH A SUITABLE BITUMINOUS PAINT.
15. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL POWER COMPANY FOR ELECTRICAL SERVICE TO LIFT STATION AND SHALL MEET ALL POWER COMPANY REQUIREMENTS WITHOUT ADDITIONAL COMPENSATION.

16. PRESSURE GAUGES SHALL BE STAINLESS STEEL WITH STAINLESS STEEL DIAPHRAGMS AND 4 1/2" DIAMETER DIAL AND SHALL BE CALIBRATED IN FEET OF WATER WITH A RANGE OF 0-150 FEET. GAUGES SHALL BE LOCATED IN THE VALVE BOX.
17. WET WELL AND VALVE VAULT ACCESS HATCHES SHALL BE TRAFFIC BEARING.
18. CABLE HOLDER SHALL BE ON THE SAME SIDE OF WET WELL AS CONTROL PANEL.
19. WETWELL AND RECEIVING MANHOLE SHALL BE P.V.C. LINED AND ALL JOINTS SEALED WITH RAPIDSEAL.
20. STAND PIPE EXPOSED WITHIN THE WETWELL SHALL BE COATED WITH RAPIDSEAL.
21. VALVE PIT WALL TO BE BITUMINOUS COATED AND JOINTS SEALED WITH RAPIDSEAL.
22. CAST IRON VALVE BOXES SHALL BE AS MANUFACTURED BY "NEENAH" OR APPROVED EQUAL, BOXES TO BE ADJUSTABLE.
23. ALL EXPOSED AND EMBEDDED CONDUITS TO BE GALVANIZED.
24. LIFT STATIONS SHALL CONFORM TO STANDARDS AND SPECIFICATIONS OF OCOEE, FLORIDA.
25. GRADE SITE TO DRAIN, PLACE WEED FABRIC AND ROCK INSIDE FENCE AND SOLID SOD ALL DISTURBED AREA OUTSIDE FENCE.
26. SHOP DRAWING FOR PUMPS, PIPING, VALVES, FITTINGS PRECAST CONCRETE STRUCTURES, ACCESS COVERS AND ELECTRICAL EQUIPMENT ARE REQUIRED TO BE SUBMITTED FOR APPROVAL, PRIOR TO CONSTRUCTION.
27. TESTING OF FORCE MAIN AND LIFT STATIONS SHALL BE REQUIRED. LIFT STATION SHALL BE TESTED WITH FIRST PUMP ON, SECOND PUMP ON AND BOTH PUMPS ON.
28. AFTER ALL EQUIPMENT HAS BEEN INSTALLED AND IS OPERATING UNDER WORKING CONDITIONS, CONTRACTOR SHALL MAKE TESTS OF EACH PIECE OF EQUIPMENT, GIVING VOLTAGE AT POINTS OF TEST, FULL LOAD RUNNING AMPERAGE AND SPEED FOR EACH MOTOR.
29. THE CONTRACTOR SHALL FURNISH DEWATERING EQUIPMENT AS REQUIRED TO INSTALL STRUCTURES. GROUNDWATER CONDITIONS MAY VARY CAUSING THE REQUIRED EQUIPMENT TO VARY. THE CONTRACTOR SHALL PERFORM FIELD INVESTIGATIONS TO DETERMINE THE NECESSARY EQUIPMENT FOR THE LIFT STATION SITE.
30. ALL M.J. AND FLANGED D.I. PIPE AND FITTINGS SHALL BE POLYETHYLENE LINED (40 MIL NOMINAL) CONFORMING TO ASTM D-1248. ALL PIPE AND FITTINGS WITHIN THE WETWELL SHALL HAVE RAPIDSEAL-HEAT SHRINK SEAL OR POLYETHYLENE SHRINK WRAPPED EXTERIOR COATING OR APPROVED EQUAL.
31. ALL EXPOSED METAL, EXCLUDING STAINLESS STEEL OR ALUMINUM MATERIALS SHALL BE PAINTED WITH TWO (2) COATS OF EXTERIOR, ENAMEL PAINT.

CHAIN LINK FENCE DETAIL



DOUBLE SWING GATE DETAIL



NOTES:

1. TRUSS BARS ARE REQUIRED FOR EACH GATE SECTION AND THE FIRST SPAN ON EACH SIDE OF A CORNER POST ONLY.
2. MINIMUM STANDARD PVC COATED

THESE DETAILS ARE PROVIDED ONLY TO ASSIST IN THE DESIGN PROCESS. ALL DESIGNS SHALL BE IN ACCORDANCE WITH THE SPECIFIC ARTICLES AND SECTIONS OF THE CITY OF OCOEE'S MOST CURRENT UTILITIES SPECIFICATIONS. IT IS THE ENGINEER'S RESPONSIBILITY TO OBTAIN AND USE UPDATED VERSIONS OF THESE DETAILS SHOULD THEY BECOME AVAILABLE FROM THE CITY.

NO.	DATE	DESCRIPTION	BY

**CITY OF OCOEE
UTILITIES DEPT.**

1800 A.D. MIMS RD, OCOEE, FLORIDA 34761
P 407-905-3100 F 407-656-7416 www.ci.ocoee.fl.us

**STANDARD
UTILITIES
DETAILS**

**LIFT STATION NOTES & FENCING
DETAILS**

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