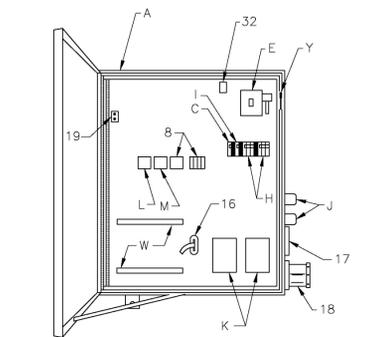
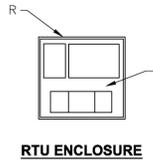


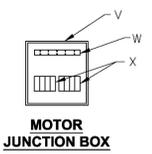
**1 CONTROL PANEL ELEVATION**  
N.T.S.



**DUPLEX CONTROL PANEL ENCLOSURE DEAD FRONT LAYOUT**

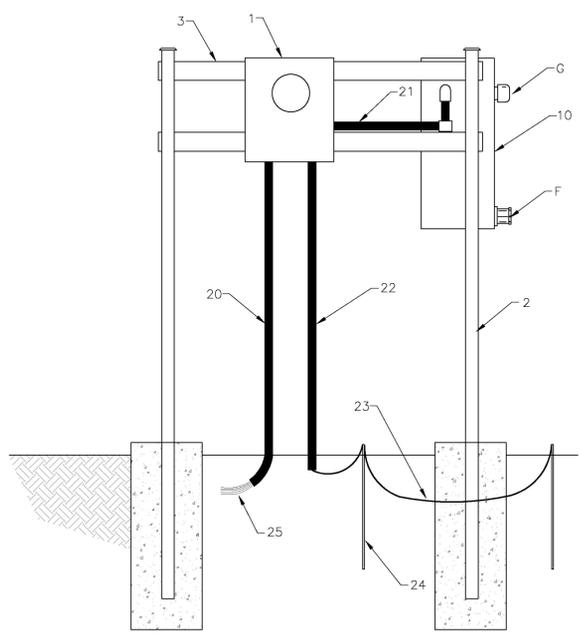


**RTU ENCLOSURE**

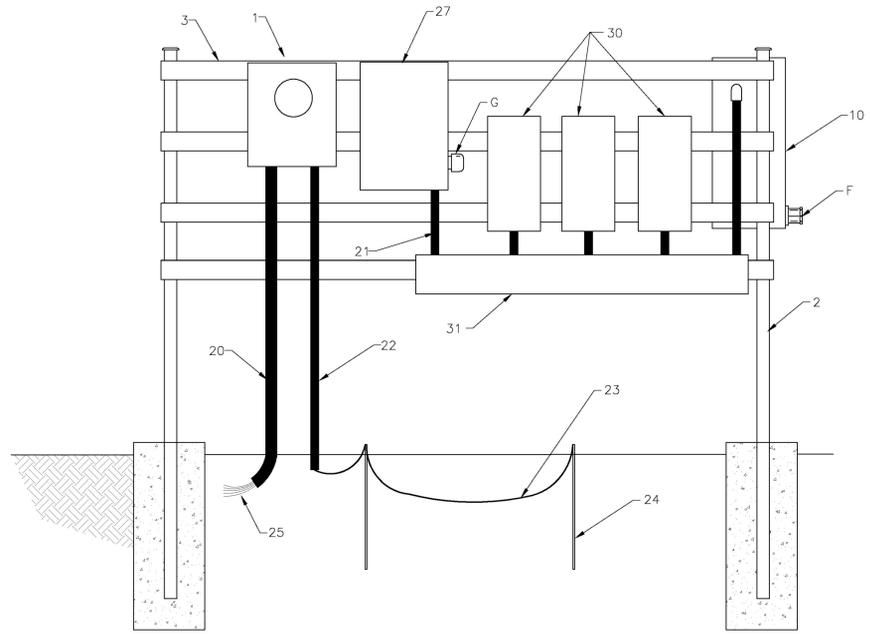


**MOTOR JUNCTION BOX**

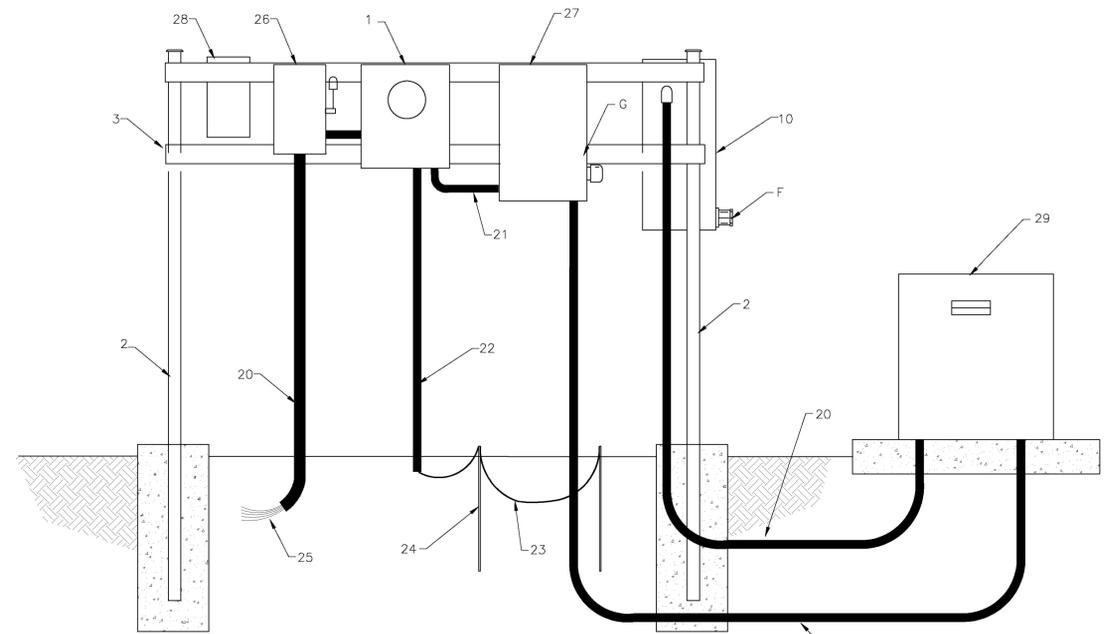
**2 CONTROL PANEL LAYOUT DETAILS**  
N.T.S.



**3 TYPICAL SERVICE - 230v 3ph**  
N.T.S.



**4 TYPICAL SERVICE - 208v TO 230v 3ph**  
N.T.S.



**4 TYPICAL SERVICE - 460v TO 230v 3ph**  
N.T.S.

**CONSTRUCTION NOTES:**

- A. PANEL ENCLOSURE NEMA 4x, 304 STAINLESS STEEL (30x26x8 IN)
- B. LSI50 PLC/RTU CONTROL PACKAGE
- C. GFI/AREA LIGHT CIRCUIT BREAKER
- D. AREA LIGHT
- E. MAIN PANEL CIRCUIT BREAKER (480v)
- F. GENERATOR RECEPTACLE (PYLE NATIONAL JRE 4100)
- G. SURGE ARRESTOR
- H. MOTOR CIRCUIT BREAKERS (230v)
- I. CONTROL CIRCUIT BREAKER (120v)
- J. SELECTOR SWITCHES (ALLEN-BRADLEY KEYED)
- K. MOTOR STARTERS (SIEMENS HD)
- L. CONTROL RELAY (11 PIN)
- M. CONTROL RELAY (8 PIN)
- N. ALARM TD RELAY (8 PIN)
- O. TRANSDUCER ASSEMBLY
- P. STARTER TD RELAY (8 PIN) OVER 30 HP DUPLEX
- Q. ALARM LIGHT (Red)
- R. RTU ENCLOSURE
- S. 2 INCH SEAL OFF (TRANSDUCER CORD)
- T. NOT USED
- U. 2 INCH GALVANIZED PVC COATED CONDUIT
- V. MOTOR JUNCTION BOX
- W. CONTROL/SENSORS TERMINAL STRIP
- X. MOTOR TERMINAL BLOCKS
- Y. PANEL BREAKER OPERATOR
- Z. NOT USED
- 1. METER BASE
- 2. 2 INCH GALVANIZED PIPE W/CAPS AND BASE ANCHORED IN CONCRETE
- 3. 1 1/2 INCH SQ. STEEL CHANNEL W/ PIPE CLAMPS & RUBBER ENDS CAPS
- 4. 3/4 INCH RIGID GALVANIZED PIPE
- 5. 2 INCH SEAL OFF
- 6. NOT USED
- 7. 2 INCH GALVANIZED PVC COATED CONDUITS (PUMP CORDS)
- 8. PHASE MONITOR AND SUPPRESSOR FUSES WITH BLOCK (500v)
- 9. PUMP CORD AND SENSOR ENTRANCE INTO WET WELL
- 10. MAIN NF SAFETY SWITCH
- 11. PVC AIR TUBE GUIDE, NM STRAPS & ANCHORS W/ STAINLESS SCREWS
- 12. LOW LIMIT BALL
- 13. HIGH LIMIT ALARM BALL
- 14. NOT USED
- 15. NOT USED
- 16. ALARM LIGHT FLASHER UNIT
- 17. AREA LIGHT SWITCH (W.P. FLUSH)
- 18. G.T.C.L. RECEPTACLE (W.P. BOX AND COVER)
- 19. CONTROL (X-2) LUG
- 20. 2 INCH RIGID GALVANIZED PVC COATED CONDUIT (BENT W/ NO FITTINGS)
- 21. 2 INCH RIGID GALVANIZED PVC COATED CONDUIT (BENT W/ NO FITTINGS)
- 22. 1 INCH RIGID GALVANIZED PVC COATED CONDUIT (BENT W/ NO FITTINGS)
- 23. #4 BSD CU WIRE
- 24. 3/8 INCH X 8 FOOT GALVANIZED GROUND RODS
- 25. SERVICE ENTRANCE CABLE (SEE SPECIFICATION SHEET)
- 26. 600v 100amp NF 3P SAFETY SWITCH
- 27. MAIN DISCONNECT 3R SINGLE BREAKER IN ENCLOSURE
- 28. 2kVA 230v X 120v TRANSFORMERS DRY (CONTROL & LIGHTING)
- 29. 75KVA 460v X 230v 3ph TRANSFORMER
- 30. BUCK/BOOST TRANSFORMERS DRY 12/24v X240/480v
- 31. TYPE 3R WIRE TROUGH
- 32. EQUIPMENT GROUND LUG
- 34. DEAD FRONT INNER DOOR W/BARRIER (ALUMINUM) 460V SIDE ONLY
- 35. CIRCUIT BREAKER FOR LIGHTING & CONTROL TRANSFORMER (480v)

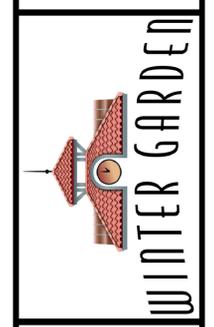
NOTE:  
SEWER LIFT STATION INSTALLATION AND MATERIAL SHALL CONFORM TO MINIMUM REQUIREMENTS OF NEC 500 THROUGH 504 FOR HAZARDOUS/CLASSIFIED LOCATIONS.

WINTER GARDEN STANDARDS INCORPORATED WITH DESIGN ENGINEERS DOCUMENTS.

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ITEM	DATE
Control Panel	4/4/14
Conduits & Seal Offs	5/29/18
Conduits	5/29/19

CITY OF WINTER GARDEN, FLORIDA  
STANDARDS AND SPECIFICATIONS  
FOR LIFT STATION ELECTRICAL PANEL



STANDARD DETAILS  
FOR  
ELECTRICAL - 230VAC DELTA