

PUMP PANEL REQUIREMENTS:

PUMP STATION PUMP PANEL SHALL BE PROVIDED WITH THE FOLLOWING FEATURES:

1. MAIN BREAKER, EMERGENCY BREAKER AND MOTOR BREAKERS SHALL BE 600 VOLT FRAME MINIMUM AND BE ABLE TO INTERRUPT THE AVAILABLE SHORT CIRCUIT CURRENT.
2. ALL WETWELL CONTROL CIRCUITRY SHALL BE 24 VOLT MAXIMUM.
3. SURGE ARRESTOR SHALL BE FIELD MOUNTED OUTSIDE THE PANEL AND SHIPPED SEPARATE TO PREVENT DAMAGE.
4. ELAPSED TIME METER FOR EACH PIMP SHALL BE PROVIDED.
5. PUMP MOTOR SELECTOR (HOA) SWITCHES REQUIRED; TOGGLE SWITCHES SHALL NOT BE ACCEPTABLE. PROVIDE ADDITIONAL STACK SWITCH ON "AUTO".
6. ALL MOTORS, STARTERS AND BREAKERS SHALL BE MANUFACTURED BY CUTLER HAMMER COMPANY, ADVANTAGE TYPE 200, OR APPROVED EQUAL. MINIMUM MOTOR STARTERS SHALL BE NEMA-1, 600 V RATED. INNER PANEL COMPONENT LAYOUT AND BACK MOUNTING PANEL DRAWINGS SHALL BE PART OF THE SUBMITTAL. FIFTEEN PERCENT OF PANEL SPACE SHALL BE RESERVED FOR FUTURE USE. ALLOCATED SPACE FOR STARTERS AND BREAKERS SHALL BE SUCH THAT THE NEXT HIGHER NEMA SIZE STARTER AND CORRESPONDING BREAKERS, INCLUDING MAIN AND EMERGENCY, SHALL PROPERLY FIT IN THE FUTURE (IF REQUIRED).
7. PANEL SHALL BE SURFACE WIRED WITH NUMBERED TERMINALS. TERMINAL STRIP SHALL BE LOCATED AT LEAST FOUR (4) INCHES FROM THE BOTTOM OF THE ENCLOSURE FOR ACCESSIBILITY.
8. RELAY CONTACTS SHALL BE RATED AT 10 AMP AND 120 VAC.
9. AN 11" X 17" LAMINATED PLASTIC SCHEMATIC & PUMP DATA SHEET SHALL BE PERMANENTLY AFFIXED TO THE INTERIOR OF THE ENCLOSURE DOOR.
10. THE RTU PANEL SHALL CONTAIN THE BACK-UP CONTROLLER MOUNTED ON A DIN RAIL.
11. THE RTU PANEL SHALL ENCLOSE THE RADIO TELEMETRY SYSTEM CONSISTING OF A PIMP CONTROLLER, RADIO & ANTENNA. THE RTU SHALL BE FACTORY ASSEMBLED. ACCEPTABLE MANUFACTURERS SHALL BE:

DCR ENGINEERING SERVICES, INC.
502 COUNTY RD., 640 EAST,
MULBERRY, FL 33860
(863) 428-8080

SANTIS ENGINEERING, INC.
7011 N. ATLANTIC AVE., SUITE 101
CAPE CANAVERAL, FL 32920
(321) 868-6340

12. PROVIDE A LAMINATED 11" X 17" PLASTIC COPY OF THE ELECTRICAL SCHEMATIC DRAWING ATTACHED TO THE INTERIOR SURFACE OF THE ENCLOSURE OUTER DOOR. PROVIDE 6 COPIES FOR OFFICE USE.

REVISED: SEPT-2009	SUBMERSIBLE LIFT STATION - PUMP PANEL REQUIREMENTS	STANDARD DETAIL
ISSUED: SEPT - 2009	CITY OF WEST PALM BEACH ENGINEERING SERVICES DEPT.	SLS-10