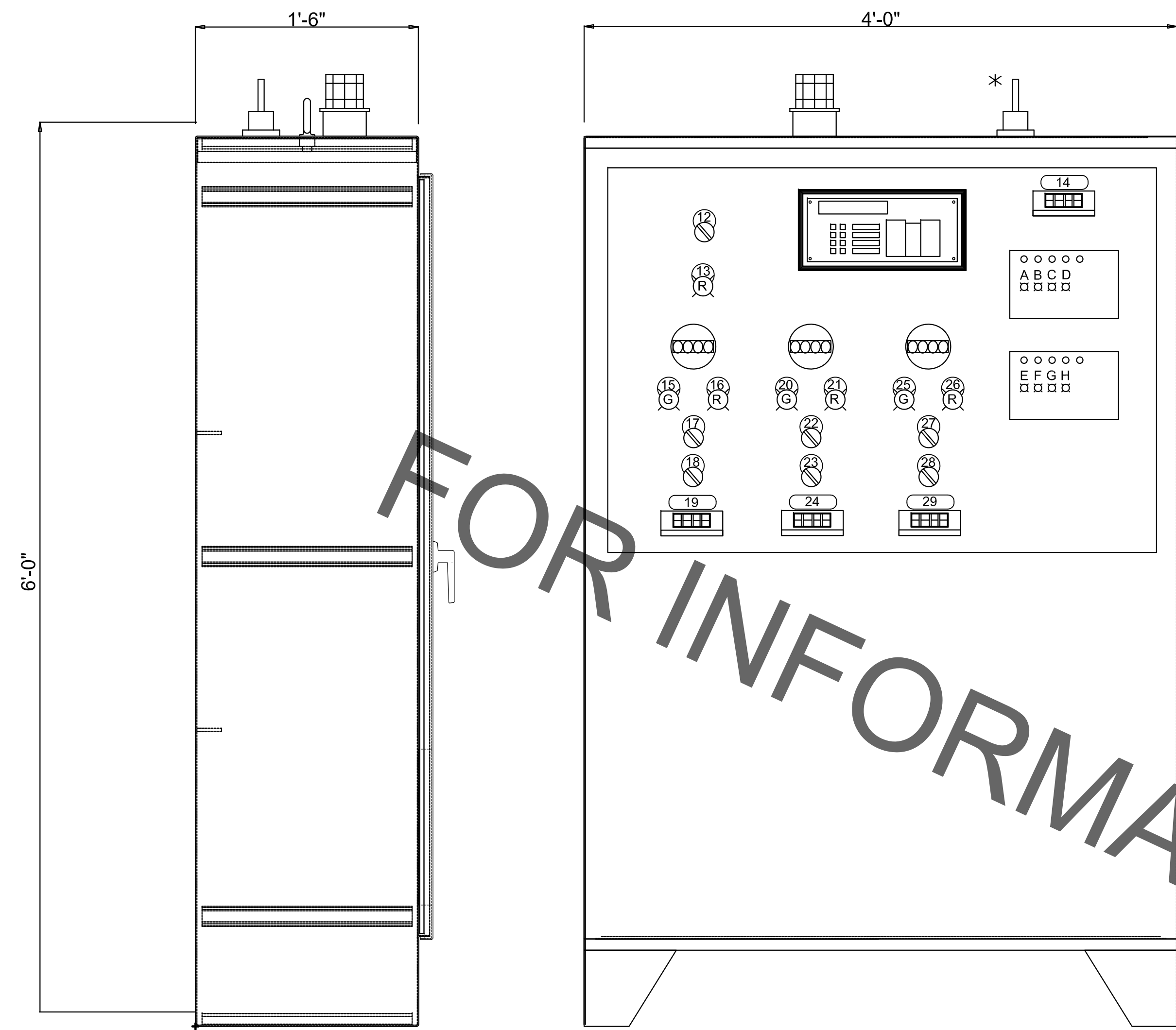


PROJECT NO.	SHEET

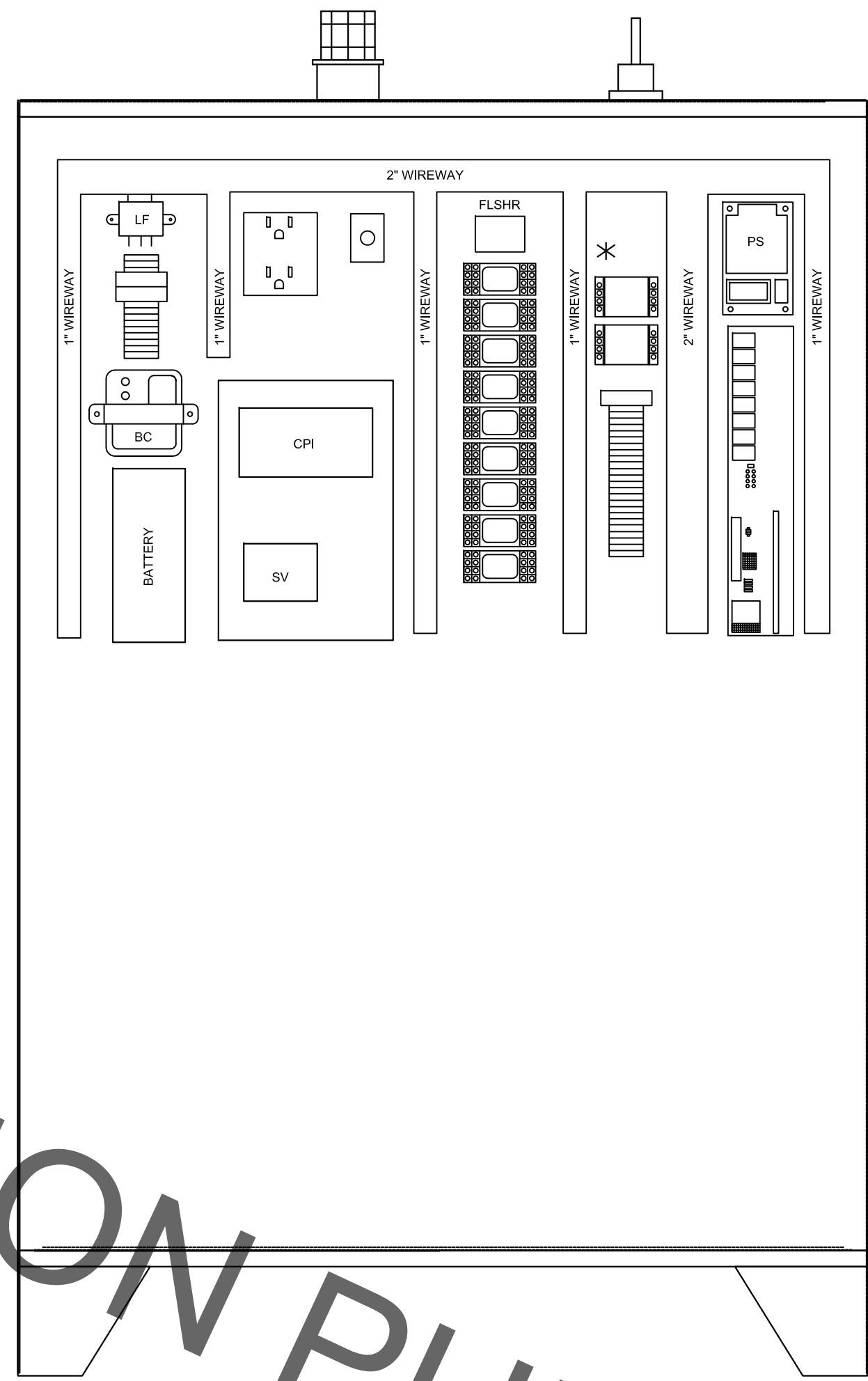
GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- THE CONDUIT SYSTEM, ALL ELECTRICAL EQUIPMENT, ALL STEEL STRUCTURES, MOTOR FRAMES, ECT., SHALL BE CONNECTED TO THE GROUNDING SYSTEM PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL EQUIPMENT LOCATIONS SHALL BE VERIFIED IN THE FIELD WITH MECHANICAL TRADES. CONDUIT ROUTING AND EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION OF ALL EQUIPMENT AND ROUTING OF CABLES AND CONDUITS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE DURING CONSTRUCTION.
- LOCATIONS OF SERVICE POLE, CONDUITS, BOXES, FITTINGS, ETC., ARE DIAGRAMMATIC. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SIZES, LOCATIONS, REVIEW ALL MECHANICAL SHOP DRAWINGS AND COORDINATE WITH THE MECHANICAL CONTRACTOR, POWER COMPANY, OWNER AND ENGINEER TO INSURE THE TIMELY DELIVERY AND PROPER INSTALLATION OF ALL ELECTRICAL EQUIPMENT. (I.E. CONTROL PANELS, SERVICE POLE, AREA LIGHTING, ECT.)
- BEFORE INSTALLATION, THE ELECTRICAL CONTRACTOR SHALL SUBMIT DETAILED LAYOUT DRAWINGS TO THE ENGINEER FOR REVIEW COVERING PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR ALL CONDUITS, SERVICES, FITTINGS, GROUND RODS, AREA LIGHTING, CONTROL PANELS, SUPPORTS, ECT., WIDE RADIUS 90 DEGREE BENDS SHALL BE USED AND THE NUMBER OF BENDS SHALL BE LIMITED.
- SURGE PROTECTION AND PHASE FAILURE PROTECTION SHALL BE PROVIDED FOR THE MAIN POWER FEED AND ALL SUBCOMPONENTS.
- JUNCTION BOXES, RECEPTACLES AND ALL OTHER ELECTRICAL EQUIPMENT USED OUTDOORS SHALL BE OF NEMA 4X CONSTRUCTION.
- MINIMUM CONDUIT SIZE IS 3/4" - ALL CONDUIT SHALL BE PLASTIBOND CONDUIT OR APPROVED EQUAL.
- ALL CONDUITS LEAVING THE WET WELL SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 501 OF THE NATIONAL ELECTRICAL CODE FOR CLASS 1 DIVISION 1 LOCATIONS.
- THE PHASE CONDUCTOR WITH THE HIGHER VOLTAGE TO GROUND SHALL BE IDENTIFIED WITH AN OUTER FINISH THAT IS ORANGE PER ARTICLE 110.15 OF THE NATIONAL ELECTRICAL CODE.
- THE CONTRACTOR SHALL TEST AND DOCUMENT THE GROUND RESISTANCE OF THE SYSTEM. ALL TEST EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. DRY SEASON RESISTANCE OF THE SYSTEM SHALL NOT EXCEED FIVE OHMS.
- 600 VOLT WIRE AND CABLE SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC CO., GENERAL CABLE CORP., HATFIELD WIRE AND CABLE CO., PIRELLI CABLE CORP., OR APPROVED EQUAL.
- ALL CABLES AND LEADS SHALL BE TESTED FOR CONTINUITY AND POWER LEADS FOR SERVICE ABOVE 125 VOLTS SHALL BE GIVEN A MEGGER TEST.
- PVC COATED RIGID STEEL CONDUIT SHALL BE IN ACCORDANCE WITH SECTION 805.
- PRESSURE SWITCHES SHALL HAVE A SNAP ACTION PRECISION SWITCH EQUIPPED WITH SILVER CONTACTS AND EYS CONDULET. CONTACT FORCE SHALL BE MAINTAINED AT A HIGH LEVEL UP TO THE INSTANT OF SNAP OVER AVOIDING DEAD CENTER CONDITIONS. CONTACTS SHALL BE SINGLE POLE, DOUBLE THROW RATED 5 AMPS AND SHALL BE CONVERTIBLE TO OPEN OR CLOSED ON INCREASING OR DECREASING PRESSURE. PRESSURE SWITCHES SHALL HAVE A RANGE OF ADJUSTMENT OF 0 TO 150 PSI WITH AN ADJUSTABLE DIFFERENTIAL OF 2 TO 18 PSI, AND WETTED PARTS SHALL BE 316 S.S. PRESSURE SWITCHES SHALL BE ALLEN-BRADLEY 836, STATIC-O-RING OR APPROVED EQUAL. PROVIDE DIAGRAM WITH PRESSURE SWITCHES USED ON PUMP DISCHARGES.
- CONDUIT SIZE ON PUMP LEADS TO BE DETERMINED BY MOTOR LEAD SIZE. ALL MOTORS OVER 15HP SHALL BE 480 VAC.
- SIZE OF MAIN SERVICE CONDUCTORS, MOTOR STARTERS, MOTOR CIRCUIT BREAKER (MCB) AND CIRCUIT BREAKERS ARE TO BE DETERMINED BY HORSEPOWER ON PUMP SELECTION.
- LEAVE SPACE FOR FUTURE INSTALLATION OF RADIO MODEM AND ANTENNA.



**CONTROL PANEL
SIDE VIEW**
NOTE 9

CONTROL PANEL INNER DEADFRONT DOOR
NOTE 9



**CONTROL PANEL
BACKPAN LAYOUT**
(SHOWN WITH ALL DOORS REMOVED)

FOR INFORMATION PURPOSES ONLY

PUMP STATION # _____
CONTROL PANEL

MANUFACTURER'S NAME		I.D. #	
PHONE NUMBER		SERIAL #	
ADDRESS, LOCATION			
INDUSTRIAL CONTROL PANEL			
VOLTAGE	PHASE	WIRES	MAINS AMPERES
120	1	3	60
SUITABLE FOR USE ON A CIRCUIT CAPABLE OF DELIVERING NOT MORE THAN:			
AMPERES	AT	VOLTAGE	
12,000	RMS SYM	120 V	
METER SOCKET RATING		A. CONT.	
ENCLOSURE TYPE		NOTE 1	

NAMEPLATE SCHEDULE		
TAG NO.	TYPE	INSCRIPTION
12	RING	AREA LIGHT HAND OFF AUTO
13	RING	SILENCE
14	PLATE	DISCHARGE PRESSURE
15	RING	PUMP No. 1 RUNNING
16	RING	PUMP No. 1 FAILURE
17	RING	PUMP No. 1 HAND OFF AUTO
18	RING	PUMP NO. 1 AMPS A B C
19	PLATE	PUMP No. 1 AMPS
20	RING	PUMP No. 2 RUNNING
21	RING	PUMP No. 2 FAILURE
22	RING	PUMP No. 2 HAND OFF AUTO
23	RING	PUMP NO. 2 AMPS A B C
24	PLATE	PUMP No. 2 AMPS

NAMEPLATE SCHEDULE		
TAG NO.	TYPE	INSCRIPTION
25	RING	PUMP No. 3 RUNNING
26	RING	PUMP No. 3 FAILURE
27	RING	PUMP No. 3 HAND OFF AUTO
28	RING	PUMP NO. 3 AMPS A B C
29	PLATE	PUMP No. 3 AMPS
A	PLATE	HIGH LEVEL FLOAT
B	PLATE	LOW LEVEL FLOAT
E	PLATE	PUMP No. 1 MOISTURE
F	PLATE	PUMP No. 2 MOISTURE
G	PLATE	PUMP No. 3 MOISTURE

- NOTES:**
- CONSTRUCTION SHALL BE GASKETED NEMA 1 FOR ALL INDOOR CONDITIONED ROOMS AND NEMA 4X FOR OUTDOOR PANELS.
 - FOR INDOOR CONDITIONED ROOMS: EXTERIOR 12 GA. STEEL. SEAMS CONTINUOUSLY WELDED AND GROUND SMOOTH. NO HOLES OR KNOCKOUTS. INTERIOR STIFFENERS WHERE REQUIRED.
 - PROVIDE PHENOLIC NAMEPLATES AS REQUIRED.
 - CONTROL WIRING SHALL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
 - A PLASTIC COATED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
 - ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO NEMA STANDARDS.
 - INTRINSICALLY SAFE WIRING SHALL BE INSTALLED PER NEC ARTICLE 504 AND IEEE AND UL-508 REQUIREMENTS.
 - ENCLOSURE SHALL BE UL-508 LISTED.
 - MAXIMUM DIMENSIONS SHOWN, ENGINEER TO SIZE CONTROL PANEL PER THE REQUIREMENTS OF THE INDIVIDUAL PUMP STATION.
 - * ITEM FURNISHED BY OTHERS, TO BE INSTALLED BY CONTRACTOR.

EXAMPLE EXTERIOR NAMEPLATES

DATE	DESCRIPTION REVISIONS	BY



STANDARD PLAN NO. 805-12	DATED AUGUST 1, 2011	SHEET NO. 1 OF 2
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**CONTROL PANEL
(TYPE II STATION)**

ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED A. SCHULZE	DRAWN G. VANNICE	CHECKED R. WRIGHT	APPROVED B. HARMON