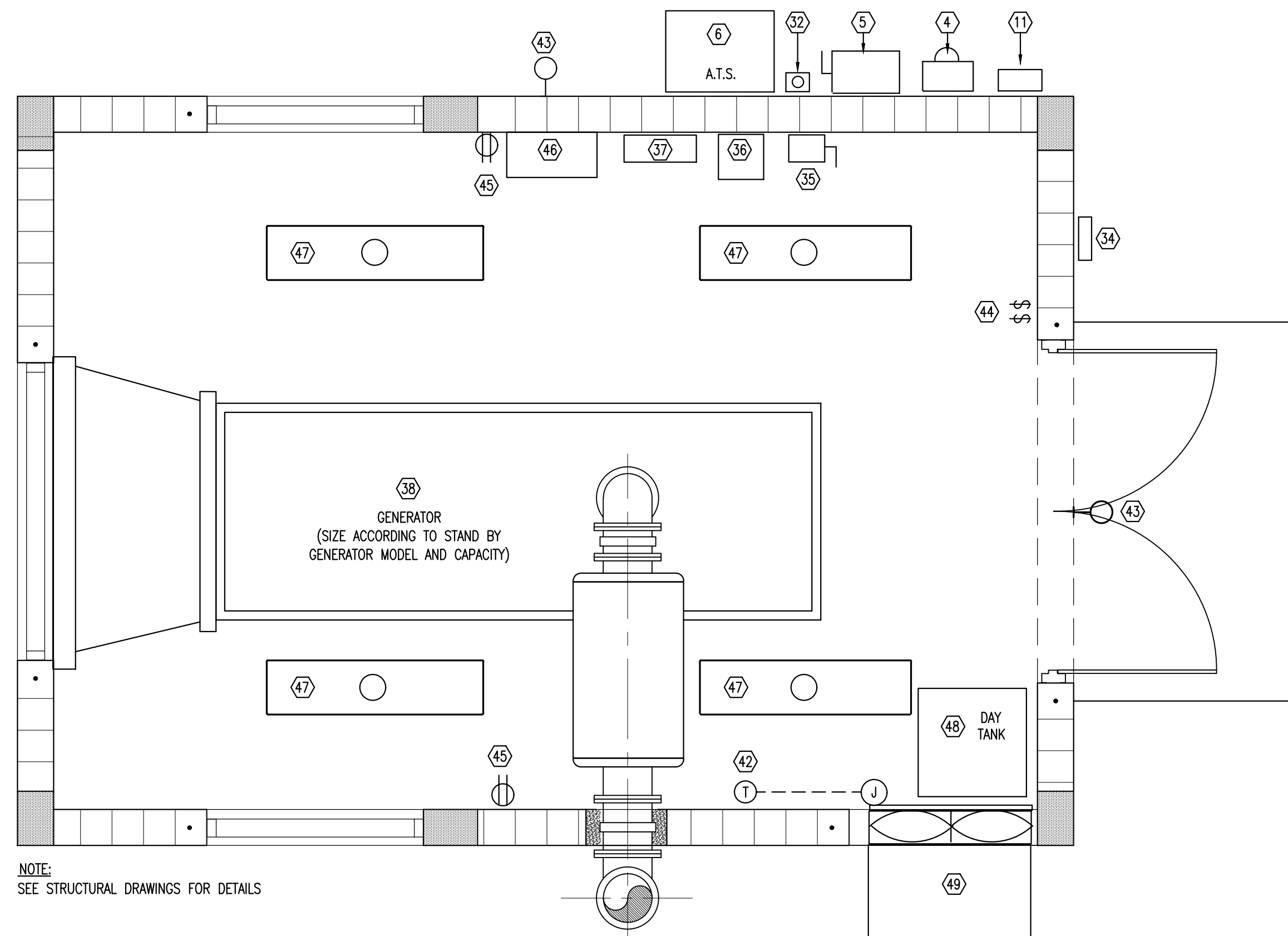


**ELECTRICAL RISER DIAGRAM**  
NTS

EQUIPMENT AND WIRING SCHEDULE	
1	NEW F.P.&L. OVERHEAD SERVICE 3/4" V, 3/4" POLE MOUNTED TRANSFORMER, OR NEW 3/4" V, 3/4" PAD MOUNTED TRANSFORMER BY FPL.
2	NEW PULL BOX WITH F&L CONNECTION POINT.
3	NEW SERVICE: 3# 1/2" AWG & 1# 1/2" AWG(N) IN 2" C.
4	NEW 3-POLE, 4-W METER.
5	NEW 3-POLE, 4-W FUSED DISCONNECT SWITCH WITH RK1 FUSES AND SOLID NEUTRAL IN NEMA 4X STAINLESS STEEL ENCLOSURE UL LISTED FOR SERVICE ENTRANCE.
6	SCADA-RTU PANEL
7	SCADA ANTENNA
8	NEW PUMP CONTROL PANEL WITH NEMA MOTOR STARTERS.
9	CONTROL JUNCTION BOX
10	24" W x 20" H x 8" D NEMA 4X STAINLESS STEEL PUMP MOTOR CONNECTION BOX WITH INSULATED TERMINAL BLOCKS AND HINGED COVER.
11	7.5KVA TRANSFORMER RATED 480V-120/240V-1Ø. PROVIDED BY CONTROL PANEL VENDOR FOR FIELD INSTALLATION BY CONTRACTOR. NEMA 3R STAINLESS STEEL.
12	NEW F&L SERVICE CONDUCTORS, COORDINATE SIZE REQUIREMENTS WITH F&L
13	3# 1/2" AWG, 1# 1/2" AWG(N) & 1# 1/2" AWG(G) - 2" C.
14	RUNS TO SCADA PANEL: 2-1" C FOR CONTROLS (ANALOG) 1-1 1/2" C FOR CONTROLS (DISCRETE) 1-1" C - 2#12 & 1#12G (120V POWER)
15	2" C WITH ANTENNA CABLE.
16	NEW SERVICE GROUND: 1#4 AWG CU TO GROUND ROD AND CONCRETE BASE RE-BARS.
17	2#12 & 1#12G-3/4" (120V POWER)
18	3/4" C FOR VALVE PIT FLOOD FLOAT
19	1" C FOR PRESSURE TRANSMITTER W/ MFG. CABLE
20	3# 1/2" AWG & 1# 1/2" AWG G. IN 2"
21	2" SPARE CONDUIT TO WET WELL
22	1#14 AWG TWISTED SHIELDED PAIR IN 1" CONDUIT TO INST. CONNECTION BOX
23	1" SPARE CONDUIT TO WET WELL
24	4#14 AWG IN 1" C TO INSTRUMENTATION CONNECTION BOX
25	EYS TYPE SEALING FITTING
26	1" W/ MANUFACTURER SUPPLIED CABLE FOR LEVEL TRANSDUCER
27	1" C. W/ (3) MANUFACTURER SUPPLIED CABLES FOR FLOATS SWITCHES
28	2" C WITH MANUFACTURER SUPPLIED MOTOR CABLE.
29	NEMA 7 AND NEMA 4 CONDUIT OUTLET BOXES FOR SUMP PUMP AND INSTRUMENTATION CONNECTION
31	TRANSFORMER PRIMARY: 2#10 & 1#10(G)-1" C.
30	TRANSFORMER SECONDARY: 2#8, 1#8(N) & 1#10(G)-1" C.
32	GENERATOR SHUT DOWN
33	3PH, SERVICE RATED, AUTOMATIC TRANSFER SWITCH, IN NEMA 4X STAINLESS STEEL ENCLOSURE.
34	GENERATOR REMOTE INDICATOR OUTSIDE THE BUILDING
35	20 AMP FUSED DISCONNECT OR BREAKER FED FROM A.T.S. LOAD LUGS.
36	SINGLE PHASE 7.5 KVA DRY TYPE TRANSFORMER 480V-120/240V
37	12 CIRCUITS PANELBOARD WITH 40 AMP, 2P, 240V. MAIN CIRCUIT BREAKER. SEE PANEL SCHEDULE IN SHEET E-3.
38	GENERATOR SET, ___ KW
39	3/4" CONDUIT TO GENERATOR
40	Ø#14 IN 1" C TO RTU CABINET
41	3# 1/2" AWG, 1# 1/2" AWG (N)
42	WALL MOUNTED THERMOSTAT MTD 48" AFF HONEYWELL MODEL No. CT87N SET TO OPERATE AT 80°F.
43	WALL MOUNTED LED LIGHT FIXTURES, 120V, GLASS LENS, DIE CAST ALUMINUM HOUSING, SUITABLE FOR WET LOCATIONS, FLAT BLOW SWITCH BRONZE FINISH. SIMILAR TO HOLOPHANE WALLPACK LED, HUBBELL PERMALITER LED OR APPROVED EQUAL LIGHT FIXTURES TO BE CONTROLLED BY A SWITCH MOUNTED ON THE WALL BY THE ENTRANCE.
44	TWO (2) 20 AMP, IP, LIGHT SWITCH WALL MOUNTED AT 48" A.F.F.
45	TWO (2) 20 AMP, IP, 3W, WEATHERPROOF, G.F.I. DUPLEX RECEPTACLES MOUNTED AT 18" A.F.F.
46	BATTERY CHARGER
47	CEILING MOUNTED HIGH EFFICIENT LIGHT FIXTURE DUST AND MOISTURE RESISTANT, SIMILAR TO HOLOPHANE EMS LED OR APPROVED EQUAL LIGHT FIXTURES TO BE CONTROLLED BY A SWITCH MOUNTED ON THE WALL BY THE ENTRANCE.
48	DAY TANK (JUNCTION BOX TO PANEL "L", CXT. 7).
49	EXHAUST FAN
50	1" C FOR LEVEL TRANSMITTER W/ MANUFACTURER SUPPLIED CABLES



**GENERATOR BUILDING ELECTRICAL PLAN**  
NOT TO SCALE

THESE ARE NOT CONSTRUCTION DRAWINGS. THE INFORMATION HEREIN CONTAINED SHALL ONLY BE USED AS GENERAL GUIDELINE OF THE INTENDED OPERATION AND FUNCTIONS AND SHALL NOT BE CONSTRUED AS ALL INCLUSIVE. ENGINEERS OF RECORD AND CONSULTANTS USING THESE GUIDELINES SHALL VERIFY AND MODIFY ANY REQUIREMENT NOT NECESSARILY SHOWN AS MAY BE REQUIRED BY ANY AND ALL APPLICABLE CODES AND STANDARDS.

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UTILITY ENGINEERING & CONSTRUCTION DIV.  
3575 SOUTH LE JEUNE ROAD  
MIAMI, FL 33133  
786-552-4440

PCTS 0000/CONTRACT X-000 or RPQ/ERX0000  
PUMPING STATION No. 0000 (STD. UPDATE 2019)  
SUBMERSIBLE PUMPING STATION WITH GENERATOR  
PROJECT OFFICIAL ADDRESS  
**ELECTRICAL RISER DIAGRAM AND EMERGENCY GENERATOR BLDG. FLOOR PLAN**

DRAWING HISTORY			
RELEASED FOR	DATE	BY	
X REVIEW 00%	xx/xx/xx	xxx	xxx
REVIEW 00%			
PERMIT			
BID			
AS-BUILT			

REVISIONS			
No.	DESCRIPTION	DATE	BY
Δ XXXXXX	XXXXXXXX	xx/xx/xx	xxx
Δ XXXXXX	XXXXXXXX		

APPROVALS	
DESIGNED: X.X.X.	DRAWN: X.X.X.
UNIT HEAD: X.X.X.	
PROJECT MGR.: X.X.X.	

Xxxx Xxxxx, P.E.  
Xxxxx Engineer  
State of Florida—License No.00000  
Date: \_\_\_\_\_

FILE NAME: XXXXXE07.DWG  
DATE: xx/xx/20xx SCALE: AS NOTED  
SHEET **E-7**  
DWG. No. **S-00000-D**