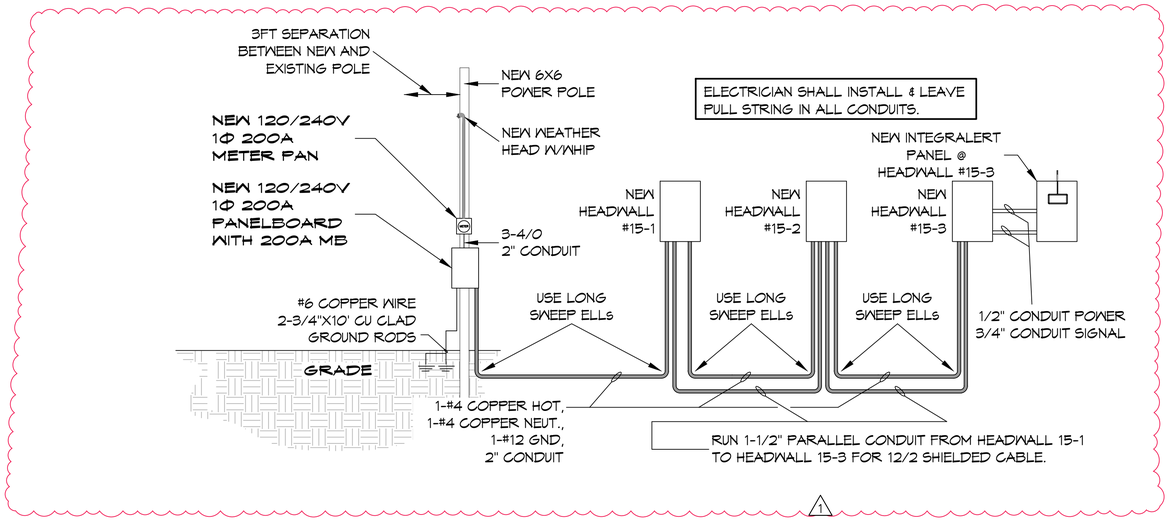


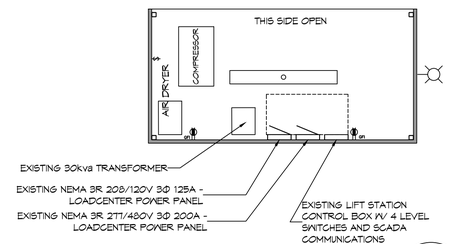
ONE LINE DIAGRAM

SCALE = N.T.S.

EQUIPMENT LIST	
QUANTITY	ITEM
3	LEACHATE PUMP CONTROL PANEL AND TRANSDUCER, MANUFACTURER COX, MDL CP-5676
1	INTEGRALERT SYSTEM, ESI-844
1	15KVA 3Ø MINI POWER CENTER; 480V PRIMARY 208/120V SEC. WITH 12 SPACES FOR CIRCUIT BREAKERS. INSTALL 1EA 20 120V CIRCUIT BREAKER. MANUFACTURER EATON, P48S28T1512. MINI CENTER MAY BE SUBSTITUTED USING INDIVIDUAL COMPONENTS, REQUIRES PRIOR APPROVAL.
9	POLARIS BLACK INSULATED TAP CONNECTOR; 4-14 AWG

NOTE : SEE SHEET M103 FOR LEACHATE PUMP CONTROL PANEL CONNECTIONS.

COX RESEARCH & TECHNOLOGY LEACHATE PUMP CONTROL PANEL AND TRANSDUCER EQUIPMENT LIST, MODEL CP-5676	
QUANTITY	ITEM
1	HOFFMAN NEMA 4X ENCLOSURE, PART # CSD24201055
1	COX RESEARCH BACKPLATE/SWING PANEL, PART # CAMO242010CSD
1	SQUARE D CIRCUIT 40 AMP BREAKER, PART # QOU140
1	SQUARE D CIRCUIT 15 AMP BREAKER, PART # QOU115
1	SQUARE D CIRCUIT 10 AMP BREAKER, PART # QOU110
1	HUBBELL GFI RECEPTACLE
1	TPS SURGE SUPPRESSOR, PART # TK-LT120-15A-DIN2
1	PRECISION DIGITAL SETPOINT CONTROLLER, PART # PD6000-6R7
1	MJK SUBMERSIBLE TRANSDUCER, PART # 3400
1	ABB H.O.A. SWITCH, PART # C355110B-20
1	ABB BLUE PILOT LIGHT, PART # CL513L
1	CONERY ALARM LIGHT, PART # R40-XLS
1	ASCO AIR SOLENOID VALVE, PART # 82106002
2	IDEC ELECTROMECHANICAL RELAY, PART # RY4SULCAC120
1	HOFFMAN PAD LOCK HANDLE, PART # GPDLOCKHDL
1	MASTER PNEUMATIC FILTER, PART # CF5AR350
2	1/2" x 1/2" BULKHEAD COPPER ADAPTER
2	1/2" COPPER UNION
2	1/2" x 6" COPPER PIPE
2	1/2" 90° COPPER ELBOW
1	1/2" MALE TO MALE FITTING



COMPRESSOR SHED ELECTRICAL PLAN

N.T.S.

2 | E101 | E101

NEW INTEGRALERT SYSTEM LOCATED AT HEADWALL 15-3, CONTROL PANEL CONNECTIONS.								
	N1	N2	N3	N4	N5	N6	N7	N8
HEADWALL	15-1	15-2	15-3	16-1	16-2	16-3	SPARE	SPARE

1. ELECTRICIAN SHALL MAKE CONNECTIONS FROM THE NEW CONTROL PANEL'S ALARM CONTACT TO THE NEW INTEGRALERT SYSTEM LOCATED AT HEADWALL 15-3 USING THE TABLE ABOVE.
2. ELECTRICIAN SHALL TEST THE NEW CONTROL PANEL TO ENSURE THAT WHEN A HIGH WATER LEVEL HAS BEEN DETECTED THAT IT:
   A. TURNS ON THE STROBE LIGHT AT THAT CONTROL PANEL.
   B. SENDS AN ALERT VIA INTEGRALERT SYSTEM.

PUMP CONTROLLER SETTINGS:				
	PUMP ON	PUMP OFF	HIGH LEVEL ON	HIGH LEVEL OFF
LEACHATE DEPTH	1.5	0.75	2.0	1.0

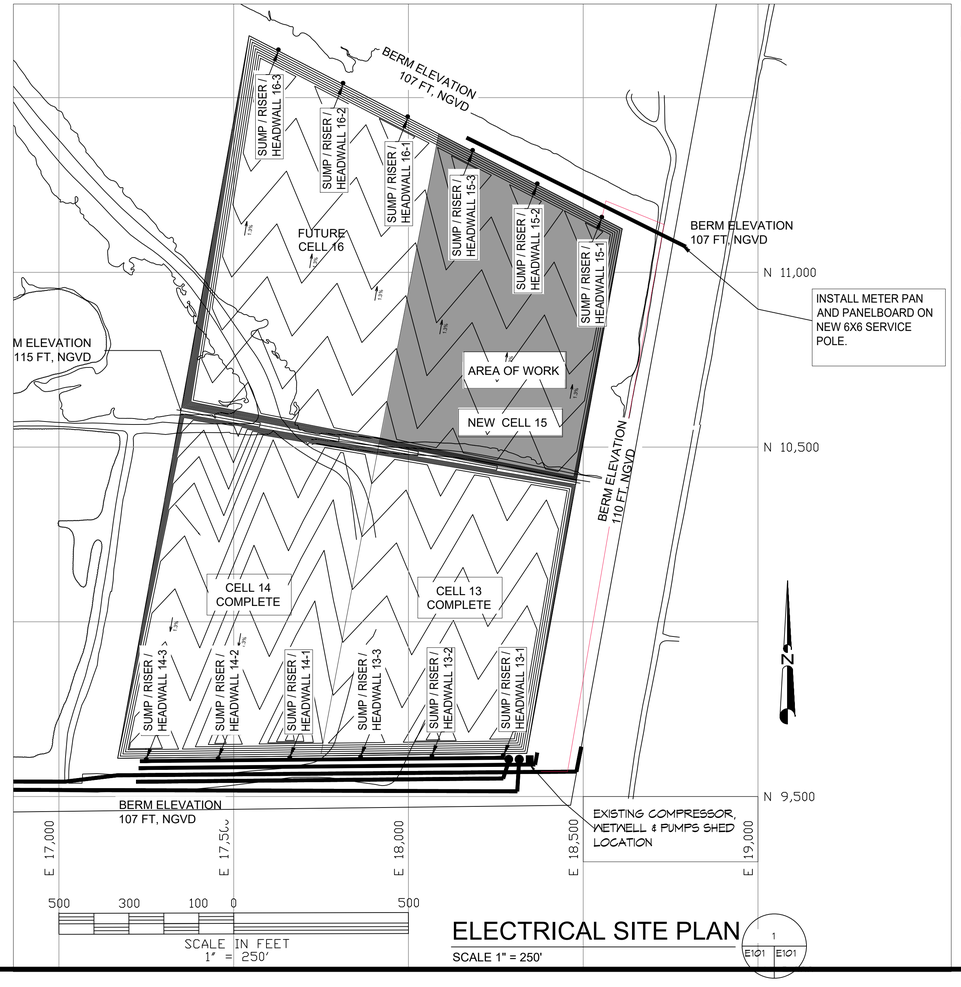
PANEL SCHEDULE

PANEL LOCATION: P1 - POWER POLE
FEEDER SOURCE: ENTERGY
VOLTAGE ENCLOSURE: 120/240V 1Ø 200AMP, 200AMP MB NEMA ENCLOSURE MOUNTED W/ EQUIPMENT AND BAR SIO 3" TYPE SO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	POLE	LOAD (kVa)	A	B	LOAD (kVa)	BREAKER POLE	AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT NO
1	-	SPACE	--	--	-			1.2	1	20	CELL 15 CONTROLLERS	#4	2
3	-	SPACE	--	--	-			0.8	1	20	CELL 16 CONTROLLERS	#4	4
5	-	SPACE	--	--	-			-	1	20	SPARE	-	6
7	-	SPACE	--	--	-			-	-	-	SPACE	-	8
9	-	SPACE	--	--	-			-	-	-	SPACE	-	10
11	-	SPACE	--	--	-			-	-	-	SPACE	-	12
13	-	SPACE	--	--	-			-	-	-	SPACE	-	14
15	-	SPACE	--	--	-			-	-	-	SPACE	-	16
17	-	SPACE	--	--	-			-	--	--	SPACE	-	18

SOLID NEUTRAL NEUTRAL WIRE (N) — GROUND BUS GROUND WIRE (G)

1



ELECTRICAL SITE PLAN

SCALE 1" = 250'

1 | E101 | E101

NOTE: NAMING A CERTAIN BRAND, MAKE OR MANUFACTURER IS TO DESIGNATE THE GENERAL STYLE, TYPE, CHARACTER AND QUALITY STANDARD OF THE PRODUCT DESIRED. SUBSTITUTION REQUESTS MUST BE SUBMITTED PRIOR TO BIDDING.

ELECTRICAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATION OF ALL POWER POLES AND ALL RISERS SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
7. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
8. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION.
9. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
10. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
11. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 & 250-72.
12. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70.250-23b.
13. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
14. MINIMUM SIZE ELECTRICAL CONDUIT SHALL BE 1" FOR EXTERIOR USE, UNLESS OTHERWISE SHOWN. ALL ELECTRICAL CONDUIT SHALL BE SCHEDULE 40 PIPE BELOW GRADE AND SCHEDULE 80 PIPE ABOVE GRADE.
15. 1-1/2" & 2" UNDERGROUND CONDUITS SHALL BE INSTALLED BETWEEN HEADWALLS. EACH 20 AMP CIRCUIT BREAKER AT COMPRESSOR SHED SHALL SUPPORT 1 CELL OR 3 HEADWALLS.
16. TERMINATE ALL EQUIPMENT ACCORDING TO MANUFACTURER'S RECOMMENDATION.
17. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS FOR ALL WORK PERFORMED.

WORK AREA : ONLY CELL 15 IS BEING CONSTRUCTED UNDER THIS PROJECT.

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
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PH: 985.649.3832
Chief Engineer: Brian Mistich, PE
550 Cousin Trail
Slidell, LA 70458

#	DESCRIPTION	DATE
1	REMOVED POWER FROM MECH SHED AND ADDED NEW POWER POLE CONNECT TO ENTERGY	6/8/2023

REVISIONS

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
6/8/2023
PROFESSIONAL ENGINEER

TANGIPAHOA CELL 15
LEACHATE & STORMWATER MANAGEMENT EQUIPMENT
SUPPORTING EQUIPMENT

TANGIPAHOA REGIONAL SOLID WASTE FACILITY
57510 HANO ROAD
INDEPENDENCE, LOUISIANA

JOB No:	2455	DATE:	2/2/2022
DRAWN BY:	DPD	CHECKED BY:	BM

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SHEET TITLE:
ELECTRICAL PLAN

DRAWING NUMBER:
E101

SHEET No: 4 of 4

FILE NAME: J:\- Dammon\2455 - Tangipahoa Cell 15\Drawings\Current Drawings\E-101 - Electrical Notes_PLOT DATE & TIME: Thursday, June 8, 2023 1:38:53 PM