Alabama State Port Authority

Addendum to R&P or Specification Booklet

Project Name ITC Generator – Install Electrical Equipment

Project No. 11210 **Task No.** 5 **Addendum No.** 2

To: Prospective Bidders **Date:** 3/5/2025

The following items are clarifications to questions received. These items are hereby included in the bid documents by this addendum.

Item	Description
1.	Additional equipment data sheets for the new 1,000 kVA transformer, MV switch, and new switchboards to be installed are attached for reference.
2.	The top of the new in-ground vault and junction box are to be installed 3" above the nearest adjacent concrete curb. Contractor to fill existing pit with ALDOT B-Base, sloped away from the top of the in-ground boxes to match grade of adjacent curb. The contractor is to repair the area of damaged concrete curb in order to retain gravel to match grade. See Sheet E3.1 General Note 2.
3.	Relocate Lighting Switch – the Contractor should relocate the existing security lighting switch from the existing SL-1 panel to the new SL-1P panel. The contractor should furnish and install a new photocell on the relocated lighting switch.
4.	The contractor is to provide and install a new CT Meter on the service transformer secondary. Install 1¼-inch conduit and wiring as specified by the manufacturer to monitor the new service.
5.	The contractor is hereby made aware that the MV Switch was received by the Port on February 26, 2025 and will be available for installation when the project starts.
6.	The following Sheets have been revised and are included in this Addendum, see Revisions: Sheet E1.1 Sheet E3.1

Please indicate your receipt of this addendum by adding the addendum number in the appropriate place in your Requisition & Proposal or Specification Book.

Brandon Taylor 5 March 2025

Brandon Taylor, P.E. **Date**

Project Manager

Quote Q139875-3

5/9/2024

Quote To:
□□□□m□□□ □□□□□□□r□□□ □□□□r□□□

Pay Terms: Net 30

Ship To:
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Contact Your Sales Rep
M□□□□ □□□□
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#	Description	Count	Price	Amount
1	**3-Phase Padmount Transformer** New 1000 kVA 3-Ph Padmount Transformer High Voltage: 4160 D Low Voltage: 480 Y 277 Taps: 4368, 4264, 4160, 4056, 3952 HV Bushings: (6) 200A Wells & Inserts (dead front, loop feed) LV Bushings: (4) 6-Hole Spades Fluid: Mineral Oil Frequency: 60 Hz Temperature Rise: 65°C Cooling Class: ONAN Conductor: Al / Al Switch: 3-2 pos. LBOR Features & Accessories: -Drain and sample valve -Dial-Type Thermometer -Liquid Level Gauge -Pressure Vacuum Gauge -UL Listed Shipping: Free within contiguous US, CPT plant (5-7 day service) Warranty: 3 Years Lead Time: Ships within 2-4 weeks after release			

Quote Lines	Additional Cost	Total Quote

Price valid until June 8, 2024. Stock is subject to prior sale. Pay terms on this quote are contingent on an established account in good standing. It is Buyer's responsibility to verify conformity to any and all specifications. Exceptions and clarifications provided by □□□are not confirmations of conformity to any written, or verbally communicated specifications. Sales taxes may apply unless exemption certificate is provided. □□□s Standard Terms & Conditions apply

SOUTHERN CONTROLS, INC.
Distributors of Industrial Controls

ABB

Bill of Material(s)

Item No.	Quantity	Description
1	**1**	**Load Interrupter Switch, VersaRupter**
		Section 1 - Single Switch: Width = 35 in; Height = 99 in; Depth = 50 in, Weight = 1550 lb
	1	Single Configuration, 1 Section(s), NEMA 3R Enclosure
		600 A Bus, 3 Phase 3 Wire, 5 kV, 60 kV BIL, 50/60 Hz with solidly grounding system
		40 kA Momentary, 40 kA Fault Closing, Silver Plated Contacts, Copper-Silver Bus
		Front and Rear Access Required
		ANSI C37.20.3, ANSI C37.20.4, ANSI C37.57, ANSI C37.58, CSA C22.2, IEC 298, IEC 420, IEC 694, IEC 60265-1, UL File E146297
		Enclosure Paint: ANSI-61 (Light Gray) tested to minimum withstand of 600 hour humidy and salt spray test
		Dimensions And Weight (Estimated)
		Options
	1	UL Label
	1	99 in Height
	1	Bottom Enclosing Plate
	1	NEMA 3R Gaskets and Filters
	1	Horizontal Barrier
	1	Front and Rear Door Pad Locks
	1	Rear Door
	1	Non-Removable Handle
	1	Rodent Barriers
	1	Space Heaters, 120/240 V ac
	1	Tamper Resistant
	1	Thermostat
	1	Full Vertical Barrier
		Single Switch
	1	600 A Switch Stand Alone, No Transition
	1	Top Entry, (1) 300 kcmil per Phase, Compression Lugs, Without Loop
	1	Bottom Exit, (1) 300 kcmil per Phase, Compression Lugs
		Fuses
	1	Current Limiting Fuse Model, 9F62DCB200
		Note: Fuses/Spare Fuses could be split from the order for shipment and invoice by separate.
2	**1**	**Switchboard, ReliaGear AV2**
		Marks: SWITCHBOARD

SOUTHERN CONTROLS, INC.
Distributors of Industrial Controls

ABB

Bill of Material(s)

Item No.	Quantity	Description
		2 Section(s)
		Estimated Shipping Weight:1527 lbs
		3P4W/480/277V/60Hz
		1200A 65 kAIC Fully Rated
		Incoming Feed: Bottom
		Incoming Left Feeding Right
		Type 3R (non-walk-in) Enclosure
		Front/Rear Lineup
		Front Only Access
	1	Hinged Wire Gutter Cover
	1	ReliaGear Switchboard Lineup
		Estimated total factory connected wiring points for the lineup 30
	1	Evolution Main Section 30W 25D 90H (Est.) lbs 647
	1	Group Mounted Feeder ReliaGear Panel Section 40W 25D 90H (Est.) lbs 880
	2	Bus Bracing 65000 AIC
	2	Evolution - Fully Rated Copper Bus 1000 A/Sq. in.
	2	Ground: Equipment U/L With Lugs
	2	Space Heater 120 Volt
	2	Bottom Floor Plate
		Main Breaker
	1	1200A 3 Pole XT7H1200 (1200A Frame) Indiv. Mtd. Main
		Manually Operated MAIN
		Programmer(EKIP Touch) LSI
	1	RELT
	1	EKIP SUPPLY - 24-48V DC
	1	RELT-EKIP SIGNALLING 2K3
	16	Mechanical (2 Hole) AL Line Lugs
		Feeders
	1	800A 3 Pole XT6H800 (800A Frame)
	1	Manually Operated
		Programmer (TMA/TMD) LI
	3	Mechanical AL Load Lugs
	1	110A 3 Pole XT1H125 (125A Frame)
	1	Manually Operated
		Programmer (TMF) LI
	1	Mechanical AL Load Lugs
	1	60A 3 Pole XT1H125 (125A Frame)
	1	Manually Operated

Bill of Material(s)

Item No.	Quantity	Description
		Programmer (TMF) LI
	1	Mechanical AL Load Lugs
	1	40A 3 Pole XT1H125 (125A Frame)
	1	Manually Operated
		Programmer (TMF) LI
	1	Mechanical AL Load Lugs
	1	20A 3 Pole XT1H125 (125A Frame)
	1	Manually Operated
		Programmer (TMF) LI
	1	Mechanical AL Load Lugs
	1	40A 1 Pole FBN6 (100A Frame)
	1	Manually Operated
		Programmer (None)
	1	Mechanical AL Load Lugs
	1	20A 2 Pole FBN6 (100A Frame)
	1	Manually Operated
		Programmer (None)
	1	Mechanical AL Load Lugs
	1	20A 1 Pole FBN6 (100A Frame)
	1	Manually Operated
		Programmer (None)
	1	Mechanical AL Load Lugs
		Monitoring/Control Devices
	1	Power Supply Plate
	1	Thermostat Control
	1	Control Power Transformer (Section Heater)
	1	Humidistat Control
		Others
	9	Engraved Nameplates
	9	Screw-On Nameplates
		Others
	1	Lifting Brackets
	1	Reliagear (C/B feeders only) 32X Bus Stack
	3	Neutral Lugs
	1	Neutral Lugs
	6	Neutral Lugs
	14	Equipment Ground Lugs
	1	Ground Lug

Bill of Material(s)

Item No.	Quantity	Description	
3	**1**	**Lighting Panelboard, ReliaGear RE**	
		Marks: SL-1P	
			1 Section(s), NEMA 3R Cabinets
			125 Amps, 3 Phase 4 Wire 480Y/277V, 50/60 Hz
			Minimum Interrupt Rating: 14kA Fully Rated
			Incoming Feed: Bottom
			Surface Mounted
			30 Circuits
			UL67 / CSA C22.2 No. 29 Certified
			cULus Certified
			Height: 31.5 Inches; Width: 20 Inches; Depth: 6.21 Inches
		1	125 Amps Main Lugs
			1-lug/phase 1-cable/lug #14 -2/0
			Main Option Details
		1	Copper Bus Heat Rated
		3	Ground-Box bonded TGL2
		1	Ground main lug TGL20
		1	100% Rated Neutral
		1	NEMA 3R Cabinets
			Feeders
		22	Breaker Device 20 Amps 1 Poles TEY
		4	Breaker Device 20 Amps 2 Poles TEY
		1	Interior: AEF3301MBX AXB7
		1	Box: AB313
		1	Front : NONE
4	**1**	**Lighting Panelboard, ReliaGear RQ**	
		Marks: 2PP	
			1 Section(s), NEMA 3R Cabinets
			125 Amps, 1 Phase 3 Wire 120/240V, 50/60 Hz
			Minimum Interrupt Rating: 10kA Fully Rated
			Incoming Feed: Bottom
			Surface Mounted
			18 Circuits
			UL67 / CSA C22.2 No. 29 Certified
			cULus Certified
			Height: 25.5 Inches; Width: 20 Inches; Depth: 6.21 Inches

SOUTHERN CONTROLS, INC.
Distributors of Industrial Controls

ABB

Bill of Material(s)

Item No.	Quantity	Description
	1	100 Amps Main Breaker THQB
		1-lug/phase 1-cable/lug #14 -1/0
		Main Option Details
	1	Copper Bus Heat Rated
	2	Ground-Box bonded TGL2
	1	Ground main lug TGL20
	1	100% Rated Neutral
	1	NEMA 3R Cabinets
		Feeders
	2	Breaker Device 30 Amps 1 Poles THQB
	16	Breaker Device 20 Amps 1 Poles THQB
	1	Interior: AQF1181ABX AXB7
	1	Box: AB253
	1	Front : NONE

ELECTRICAL LEGEND

DISTRIBUTION & POWER EQUIPMENT:

- PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
- T — TRANSFORMER. MOUNT AS INDICATED. SEE XFMR SCHEDULE FOR SIZE AND TYPE.
- AUTOMATIC TRANSFER SWITCH.
- DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:
  - WP - GFI DEVICE WITH DIECAST WEATHERPROOF BACKBOX & DIECAST WEATHERPROOF (IN-USE) COVERPLATE. IN EXTERIOR LOCATIONS MOUNT 30" AFG. WEATHERPROOF OUTLET BOX HOODS ARE TO BE LISTED AND IDENTIFIED AS "EXTRA-DUTY".

OTHER:

- (1) — SHEET NOTE TAG.
- (4LP1) — PANELBOARD, SWITCHBOARD, TRANSFORMER & ELECTRICAL EQUIPMENT IDENTIFICATION TAG.
- LEADERS.

LIGHTING CONTROL EQUIPMENT: (1)

- LC — LIGHTING CONTACTOR.
- HPC — PHOTOELECTRIC CELL.

ELECTRICAL SPECIFICATIONS

1. GENERAL ELECTRICAL:
   - 1.1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM AS INDICATED WITHIN THESE DRAWINGS. ALL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND ORDINANCES AND WITH MANUFACTURER'S RECOMMENDATIONS.
   - 1.2. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND MECHANICAL DRAWINGS PRIOR TO SUBMITTING HIS BID. THE CONTRACTOR WILL BE REQUIRED TO FURNISH, INSTALL AND CONNECT ALL ITEMS AS INDICATED ON THE DRAWINGS.
   - 1.3. THE ARCHITECT SHALL BE NOTIFIED OF ANY CONFLICTS, OR INTERFERENCES THAT OCCUR BETWEEN INDIVIDUAL DRAWINGS.
   - 1.4. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN A NEAT, FIRST CLASS, WORKMANLIKE MANNER, TO THE APPROVAL OF THE ARCHITECT/ENGINEER AND GOVERNING AUTHORITIES.
   - 1.5. IN ADDITION TO THE MANUFACTURERS STANDARD GUARANTEES, THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP AGAINST DEFECTS FOR TWO YEARS FROM THE DATE OF FINAL ACCEPTANCE, AND SHALL CORRECT ANY DEFECTS AT NO ADDITIONAL COST TO THE OWNER. ALL LAMPS SHALL BE GUARANTEED FOR 30 DAYS AFTER ACCEPTANCE.
   - 1.6. THE LOADS SHOWN FOR APPLIANCES AND EQUIPMENT ARE BASED ON DESIGN INFORMATION. THE CONTRACTOR SHALL VERIFY ALL APPLIANCE LOADS PRIOR TO RUNNING THE CIRCUIT. THE MINIMUM CIRCUIT REQUIREMENTS SHALL BE BASED ON THE APPLIANCE NAMEPLATE VALUE OR CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR APPLIANCE MODIFICATIONS BY THE CONTRACTOR.
   - 1.7. PRIOR APPROVAL: PRIOR APPROVAL SHALL BE REQUIRED FOR ANY MANUFACTURER OTHER THAN THOSE LISTED FOR ALL SPECIFIED ITEMS IN THESE DRAWINGS. SUBMIT ALL REQUESTS FOR PRIOR APPROVAL 2 WEEKS PRIOR TO BID OPENING. ENGINEER'S APPROVAL WILL BE IN THE FORM OF AN ADDENDUM.

2. CODES & STANDARDS:
   - 2.1. INSTALLATION AND MATERIALS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES & STANDARDS:
     - 2.1.1. NATIONAL ELECTRICAL CODE.
     - 2.1.2. NFPA 72. NATIONAL FIRE PROTECTION CODE.
     - 2.1.3. INTERNATIONAL BUILDING CODE.
     - 2.1.4. INTERNATIONAL ENERGY CONSERVATION CODE.
     - 2.1.5. NFPA 101.
     - 2.1.6. ADA .
     - 2.1.7. ANSI.
     - 2.1.8. NEMA.
     - 2.1.9. OSHA.
     - 2.1.10. UL.

3. ALTERATIONS & ADDITIONS TO EXISTING WORK:
   - 3.1. PROVIDE ALL NECESSARY ADDITIONS AND ALTERATIONS TO EXISTING WORK AS REQUIRED TO PROVIDE AND MAINTAIN A COMPLETE AND PROPER ELECTRICAL INSTALLATION.
   - 3.2. AS NECESSARY, RELOCATE EXISTING ELECTRICAL WORK SO OTHER TRADES CAN PURSUE THEIR WORK.
   - 3.3. MAINTAIN POWER TO EXISTING PORTIONS OF BUILDINGS FED FROM OR THROUGH AREA IN SCOPE OF THIS CONTRACT.
   - 3.4. COORDINATE ALL REQUIRED OUTAGES WITH OWNER.

4. BASIC MATERIALS & METHODS:
   - 4.1. ALL POWER AND DISTRIBUTION CABLING SHALL BE COPPER TYPE THWN/THHN.
   - 4.2. ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. LOCATED OUTDOORS SHALL BE WEATHERPROOF.
   - 4.3. CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED. CONDUIT ROUTINGS SHALL BE PARALLEL OR PERPENDICULAR TO BUILDING LINES.
   - 4.4. COORDINATE ALL ELECTRICAL WORK WITH OTHER TRADES AND STRUCTURAL COMPONENTS.
   - 4.5. THE CONDUIT MATERIAL SHALL BE AS FOLLOWS:
     - 4.5.1. RISER FROM 36" BELOW GRADE - PVC-COATED RGS.
     - 4.5.2. ABOVE GRADE SUBJECT TO PHYSICAL ABUSE - PVC-COATED RGS.
   - 4.6. CONDUIT FITTINGS SHALL BE AS FOLLOWS:
     - 4.6.1. RGS - THREADED PVC-COATED GALVANIZED STEEL.
     - 4.6.2. PVC - PVC APPROVED FOR THE USE.
   - 4.7. ALL SIDEWALKS AND PARKING LOT ASPHALT AREAS THAT ARE CUT DUE TO NEW ELECTRICAL SERVICES SHALL BE REPAIRED TO MATCH EXISTING.
   - 4.8. ALL DIMENSIONS TO DEVICES AFF SHALL BE TO CENTERLINE UNLESS NOTED OTHERWISE.
   - 4.9. COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC., WITH ELECTRICAL PLANS.

5. GROUNDING & BONDING:
   - 5.1. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS.
   - 5.2. GROUND RODS SHALL BE 3/4"X20' COPPERCLAD STEEL.
   - 5.3. BELOW GRADE CONNECTIONS SHALL BE EXOTHERMIC TYPE.
   - 5.4. ALL CABLES SHALL BE COPPER, ALL BOLTED CONNECTIONS SHALL BE BRONZE.
   - 5.5. PROVIDE A #6AWG MINIMUM GROUND IN EMT FROM EACH TELCOM BACKBOARD TO THE MAIN ELECTRICAL SERVICE GROUND.
   - 5.6. WHERE AVAILABLE, BOND TO BUILDING STRUCTURAL STEEL, BUILDING FOUNDATION STEEL, METAL WATER SERVICE PIPING.
   - 5.7. PROVIDE THREE 20' GROUND RODS IN TRIANGLE ARRANGEMENT ON 20' CENTERS FOR MADE ELECTRODE SYSTEM. MEASURE RESISTANCE AND ENSURE <25 OHMS.

6. IDENTIFICATION:
   - 6.1. PROVIDE ENGRAVED 1"X3" PHENOLIC LABELS FOR ALL PANELBOARDS, SAFETY SWITCHES, TRANSFORMERS, TRANSFER SWITCHES, CABINETS, ETC.

ABBREVIATIONS

A	AMPS
AC	ABOVE COUNTER
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ARCH	ARCHITECT OR ARCHITECTURAL
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
ATU	AIR TERMINAL UNIT
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BFG	BELOW FINISHED GRADE
BJ	BONDING JUMPER
BKR	CIRCUIT BREAKER
BLDG	BUILDING
BOD	BASIS OF DESIGN
C	CONDUIT
C/B	CIRCUIT BREAKER
CL	CURRENT LIMITING
C/L	CENTERLINE
CLG	CEILING
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
DEMO	DEMOLISH
EC	ELECTRICAL CONTRACTOR
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR
EF	EXHAUST FAN
EX	EXISTING TO REMAIN
EXT	EXTERIOR
EWC	ELECTRIC WATER COOLER
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
FMC	FLEXIBLE METAL CONDUIT
FACP	FIRE ALARM SYSTEM CONTROL PANEL
FU	FUSE
F/A	FIRE ALARM
FLA	FULL LOAD AMPS
FLR	FLOOR
FVNR	FULL VOLTAGE NON-REVERSING
GFI	GROUND FAULT INTERRUPTER
G	GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT)
GC	GENERAL CONTRACTOR
GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
HH	HANDHOLE
HOA	HAND-OFF-AUTOMATIC
HP	HEAT PUMP OR HORSEPOWER
HVAC	HEATING, VENTILATION & AIR-CONDITIONING
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
k	KILO
kAIC	KILO-AMPERE INTERRUPTING CAPABILITY
kCMIL	THOUSAND CIRCULAR MILS
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCE	MAIN COMMUNICATIONS EQUIPMENT ROOM
MCM	THOUSAND CIRCULAR MILS
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MNT	MOUNTING HEIGHT
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
N1	NEMA 1
N3R	NEMA 3R
N/A	NOT APPLICABLE
NA	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NESC	NATIONAL ELECTRICAL SAFETY CODE
NEU	NEUTRAL
OCPD	OVERCURRENT PROTECTION DEVICE
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
OHP	OVERHEAD PRIMARY
OHS	OVERHEAD SECONDARY
PBD	PANELBOARD
PF	POWER FACTOR
PNL	PANELBOARD
PT	POTENTIAL TRANSFORMER
PWR	POWER
REC	RECEPTACLE
REQD	REQUIRED
RM	ROOM
RGS	RIGID GALVANIZED STEEL CONDUIT
RNC	RIGID NON-METALLIC CONDUIT
RVSS	REDUCED VOLTAGE SOLID STATE
SA	SURGE ARRESTER
SCA	SHORT CIRCUIT AMPS
SF	SUPPLY FAN
SPEC	SPECIFICATION
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TR	TELECOMMUNICATIONS ROOM
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UFR	UNDERFLOOR RACEWAY
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UGP	UNDERGROUND PRIMARY
UGS	UNDERGROUND SECONDARY
UL	UNDERWRITERS' LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT-AMPERES
VAR	VOLT-AMPERES REACTIVE
VAV	VARIABLE AIR VOLUME UNIT
W	WATTS
WAO	WORK AREA OUTLET
WP	WEATHERPROOF
WSR	WITHSTAND RATING
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
ϕ	PHASE
72°	DEGREES
Δ	DELTA
Ω	OHMS

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MEP Engineering
Andrew W. Maurin 25105
Alabama Certificate Number CA-4146-E
813 Downtowner Blvd. Ste. D
Mobile, Alabama 36609
P: 251-316-0015 F: 850-332-6629
DELL CONSULTING PROJECT: 23-007

ALABAMA LICENSED PROFESSIONAL ENGINEER
No. 25105
12-31-2024
ANDREW W. MAURIN

NUMBER REVISION	REVISION DESCRIPTION
1	ADDENDUM #1

INTERNATIONAL TRADE CENTER GENERATOR REPLACEMENT (PROJECT #11210)
MOBILE ALABAMA

DESIGNED BY: TMM
DRAWN BY: TMM
CHECKED BY: AWM
DATE: 12-31-2024

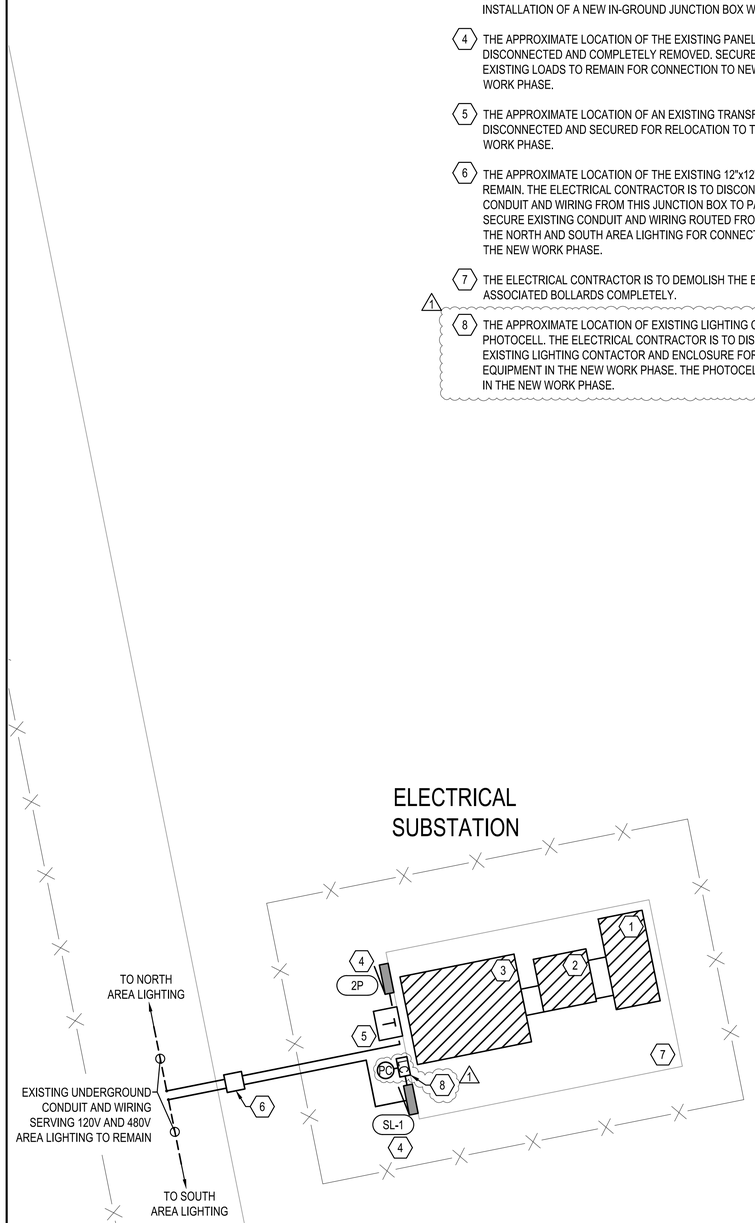
SHEET TITLE: ELECTRICAL LEGEND & SPECIFICATIONS

SHEET: E1.1

DEMOLITION SHEET NOTES

1. THE APPROXIMATE LOCATION OF THE EXISTING MEDIUM VOLTAGE SWITCH CABINET TO BE DISCONNECTED AND REMOVED.
2. THE APPROXIMATE LOCATION OF THE EXISTING 4160-480Y/277V UTILITY TRANSFORMER TO BE DISCONNECTED AND REMOVED.
3. THE APPROXIMATE LOCATION OF THE EXISTING 1200A 480Y/277V SWITCHBOARD TO BE DISCONNECTED AND REMOVED. THE ELECTRICAL CONTRACTOR IS TO EXCAVATE TO A DEPTH OF 3' BELOW THE EXISTING GRADE TO ALLOW THE INSTALLATION OF A NEW IN-GROUND JUNCTION BOX WITH LID.
4. THE APPROXIMATE LOCATION OF THE EXISTING PANELBOARD TO BE DISCONNECTED AND COMPLETELY REMOVED. SECURE CONDUIT AND WIRING TO EXISTING LOADS TO REMAIN FOR CONNECTION TO NEW EQUIPMENT IN THE NEW WORK PHASE.
5. THE APPROXIMATE LOCATION OF AN EXISTING TRANSFORMER TO BE DISCONNECTED AND SECURED FOR RELOCATION TO THE PLATFORM IN THE NEW WORK PHASE.
6. THE APPROXIMATE LOCATION OF THE EXISTING 12"x12" PVC JUNCTION BOX TO REMAIN. THE ELECTRICAL CONTRACTOR IS TO DISCONNECT AND REMOVE THE CONDUIT AND WIRING FROM THIS JUNCTION BOX TO PANELS "2P" AND "SL-1". SECURE EXISTING CONDUIT AND WIRING ROUTED FROM THE JUNCTION BOX TO THE NORTH AND SOUTH AREA LIGHTING FOR CONNECTION TO NEW CIRCUITS IN THE NEW WORK PHASE.
7. THE ELECTRICAL CONTRACTOR IS TO DEMOLISH THE EXISTING FENCE, SLAB, AND ASSOCIATED BOLLARDS COMPLETELY.

1 8. THE APPROXIMATE LOCATION OF EXISTING LIGHTING CONTACTOR AND PHOTOCELL. THE ELECTRICAL CONTRACTOR IS TO DISCONNECT AND SECURE THE EXISTING LIGHTING CONTACTOR AND ENCLOSURE FOR CONNECTION TO NEW EQUIPMENT IN THE NEW WORK PHASE. THE PHOTOCELL IS TO BE REPLACED NEW IN THE NEW WORK PHASE.



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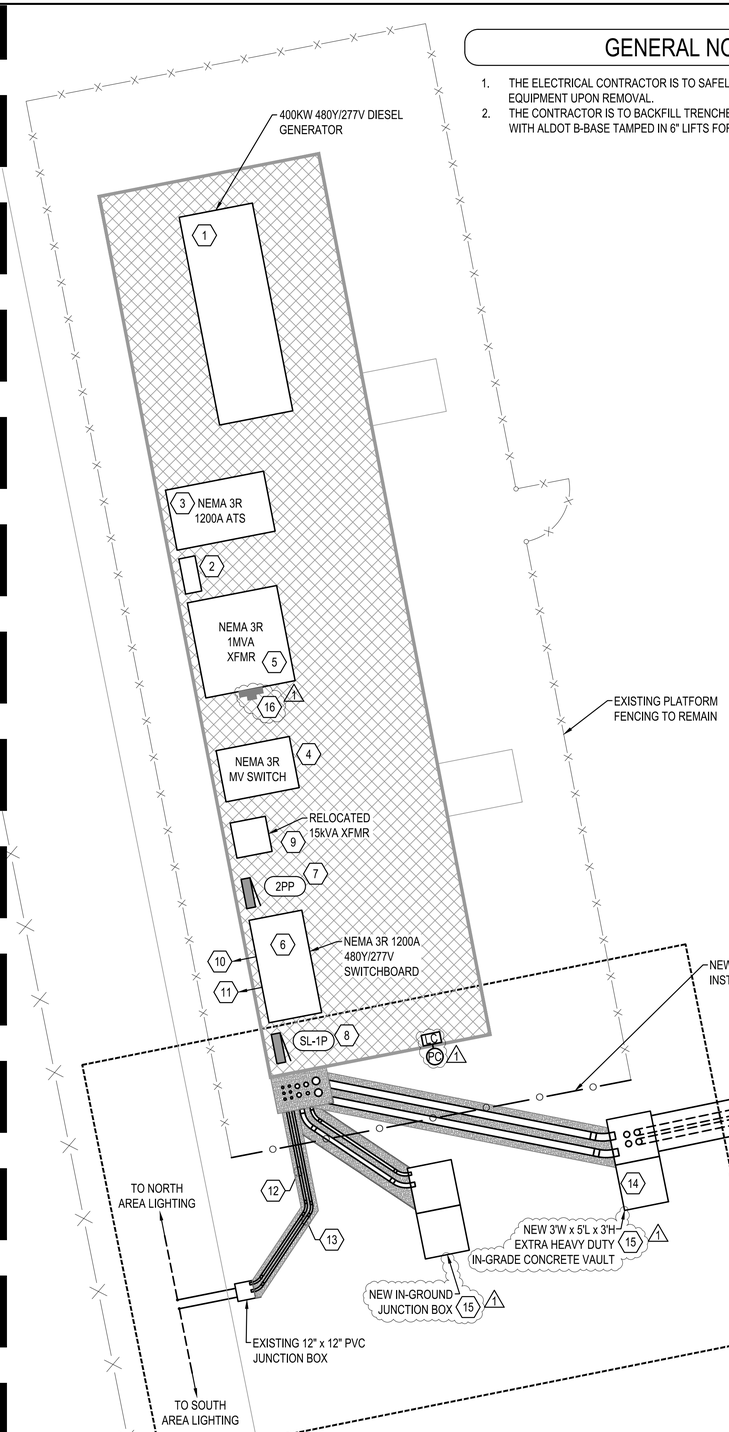
1 EXISTING ELECTRICAL SUBSTATION POWER PLAN

4' 0' 4' 8'

SCALE: 1/4"=1'-0"



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2 NEW WORK ELECTRICAL SUBSTATION POWER PLAN

4' 0' 4' 8'

SCALE: 1/4"=1'-0"

GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR IS TO SAFELY AND LEGALLY DISPOSE OF EQUIPMENT UPON REMOVAL.
2. THE CONTRACTOR IS TO BACKFILL TRENCHES AND EXISTING PAD TO GRADE WITH ALDOT B-BASE TAMPED IN 6" LIFTS FOR 90% COMPACTION.

NEW WORK SHEET NOTES

1. APPROXIMATE LOCATION OF THE DIESEL GENERATOR. THE GENERATOR HAS BEEN INSTALLED ON THE PLATFORM AND TESTED BY THE OWNER.
2. APPROXIMATE LOCATION OF THE NEW NEMA 3R 1200A SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER. THIS ENCLOSED CIRCUIT BREAKER IS TO BE MOUNTED ON THE NEW PLATFORM.
3. APPROXIMATE LOCATION OF THE NEW NEMA 3R 1200A AUTOMATIC TRANSFER SWITCH. THIS TRANSFER SWITCH IS TO BE MOUNTED ON THE PLATFORM.
4. APPROXIMATE LOCATION OF THE NEW NEMA 3R 600A MEDIUM VOLTAGE SWITCH CABINET. THE SWITCH IS TO BE MOUNTED ON THE NEW PLATFORM.
5. APPROXIMATE LOCATION OF THE NEW NEMA 3R 1MVA 4160-480Y/277V UTILITY TRANSFORMER. THE TRANSFORMER IS TO BE MOUNTED ON THE NEW PLATFORM.
6. APPROXIMATE LOCATION OF THE NEW NEMA 3R 1200A 480Y/277V 3ϕ SWITCHBOARD. THE SWITCHBOARD IS TO BE MOUNTED ON THE NEW PLATFORM.
7. THE ELECTRICAL CONTRACTOR IS TO INSTALL A NEW NEMA 3R 60A 120/240V 1ϕ PANEL "2PP" ON THE NEW PLATFORM.
8. THE ELECTRICAL CONTRACTOR IS TO INSTALL A NEW NEMA 3R 100A 480Y/277V 3ϕ PANEL "SL-1P" ON THE NEW PLATFORM.
9. THE ELECTRICAL CONTRACTOR IS TO MOUNT THE RELOCATED 15kVA 480-120/240V 1ϕ TRANSFORMER "TPP" ON THE NEW PLATFORM.
10. THE ELECTRICAL CONTRACTOR IS TO ROUTE NEW CONDUIT AND WIRING (4#2, 1#6G, 1 1/2" CONDUIT) FROM THE NEW MAIN SWITCHBOARD TO THE NEW DUCT BANK STUB-UP. THE WIRING IS TO EXTEND THROUGH THE DUCT BANK AND SPLICED TO THE EXISTING CONDUCTORS FEEDING THE EXISTING SEWAGE LIFT STATION #5.
11. THE ELECTRICAL CONTRACTOR IS TO ROUTE CONDUIT AND WIRING (3 RUNS OF 4#350mcm, 1#1/0G, 3" CONDUIT EACH) FROM THE MAIN SWITCHBOARD TO THE NEW DUCT BANK STUB-UP. THE WIRING IS TO EXTEND THROUGH THE UNDERGROUND DUCT BANK AND SPLICED TO THE EXISTING CONDUCTORS FEEDING THE EXISTING MOTOR CONTROL CENTER IN THE INTERNATIONAL TRADE CENTER.
12. THE ELECTRICAL CONTRACTOR IS TO EXTEND, MODIFY, AND/OR RE-ROUTE CONDUIT AND WIRING (2 RUNS OF 2#10, 1#10G, 1 1/2" CONDUIT EACH) FROM THE EXISTING JUNCTION BOX TO PANEL "2PP" ROUTED THROUGH THE NEW DUCT BANK.
13. THE ELECTRICAL CONTRACTOR IS TO EXTEND, MODIFY, OR RE-ROUTE CONDUIT AND WIRING (2 RUNS OF 2#10, 1#10G, 1 1/2" CONDUIT EACH) FOR LIGHTING CIRCUITS FROM THE JUNCTION BOX TO PANEL "SL-1P" THROUGH THE NEW DUCT BANK.
14. SPLICE POINT FOR THE MEDIUM VOLTAGE CABLING. UPON COMPLETION OF THE INSTALLATION OF THE NEW CONCRETE VAULT, THE CONTRACTOR IS TO REMOVE THE TEMPORARY SPLICES IN THE ELECTRICAL MANHOLE AND PULL CONDUCTORS BACK THROUGH EXISTING CONDUITS TO THE NEW ELECTRICAL VAULT. ROUTE NEW CONDUIT AND WIRING (2 RUNS OF 3#2/0, 5" CONDUIT EACH) FROM THE NEW MEDIUM VOLTAGE SWITCH CABINET, THROUGH THE NEW DUCTBANK TO THE IN-GRADE CONCRETE VAULT. THE CABLES ARE TO BE SPLICED TO THE EXISTING CONDUCTORS FROM THE MANHOLE UTILIZING A 3M COLD SHRINK KIT.

1 15. THE NEW IN-GROUND JUNCTION BOX AND CONCRETE VAULT ARE TO BE INSTALLED 3" ABOVE THE NEAREST ADJACENT CURB TO THE TOP OF THE BOX TO ALLOW FOR A SLOPED GRADE TO THE ENCLOSURE.

16. THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL A NEW CT METER ON THE SERVICE TRANSFORMER (WIRING TO BE AS SPECIFIED BY THE MANUFACTURER AND 1 1/4" CONDUIT, IF NECESSARY).

ELECTRICAL EQUIPMENT

EQUIPMENT PROVIDED BY THE OWNER:

- 1200A ENCLOSED CIRCUIT BREAKER (SERVICE ENTRANCE RATED)
- 1200A AUTOMATIC TRANSFER SWITCH
- MEDIUM VOLTAGE SWITCH CABINET
- 4160-480Y/277V UTILITY TRANSFORMER
- 1200A MAIN SWITCHBOARD "MSB"
- 60A 480Y/277V PANEL "SL-1P"
- 100A 120-240V PANEL "2PP"
- 700 FEET OF #350kcmil WIRE
- 100 FEET OF #3/0 WIRE

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ALABAMA LICENSED No. 25105 PROFESSIONAL ENGINEER ANDREW W. MAURIN
12-31-2024

NUMBER REVISION	REVISION DESCRIPTION
1	ADDENDUM #1

INTERNATIONAL TRADE CENTER GENERATOR REPLACEMENT (PROJECT #11210)

MOBILE ALABAMA

DESIGNED BY: TMM
DRAWN BY: TMM
CHECKED BY: AWM
DATE: 12-31-2024

SHEET TITLE: ELECTRICAL EXISTING SUBSTATION POWER PLAN

SHEET: E3.1