Alabama Port Authority

Addendum to R&P or Specification Booklet

Project Name McDuffie New East Electrical Building

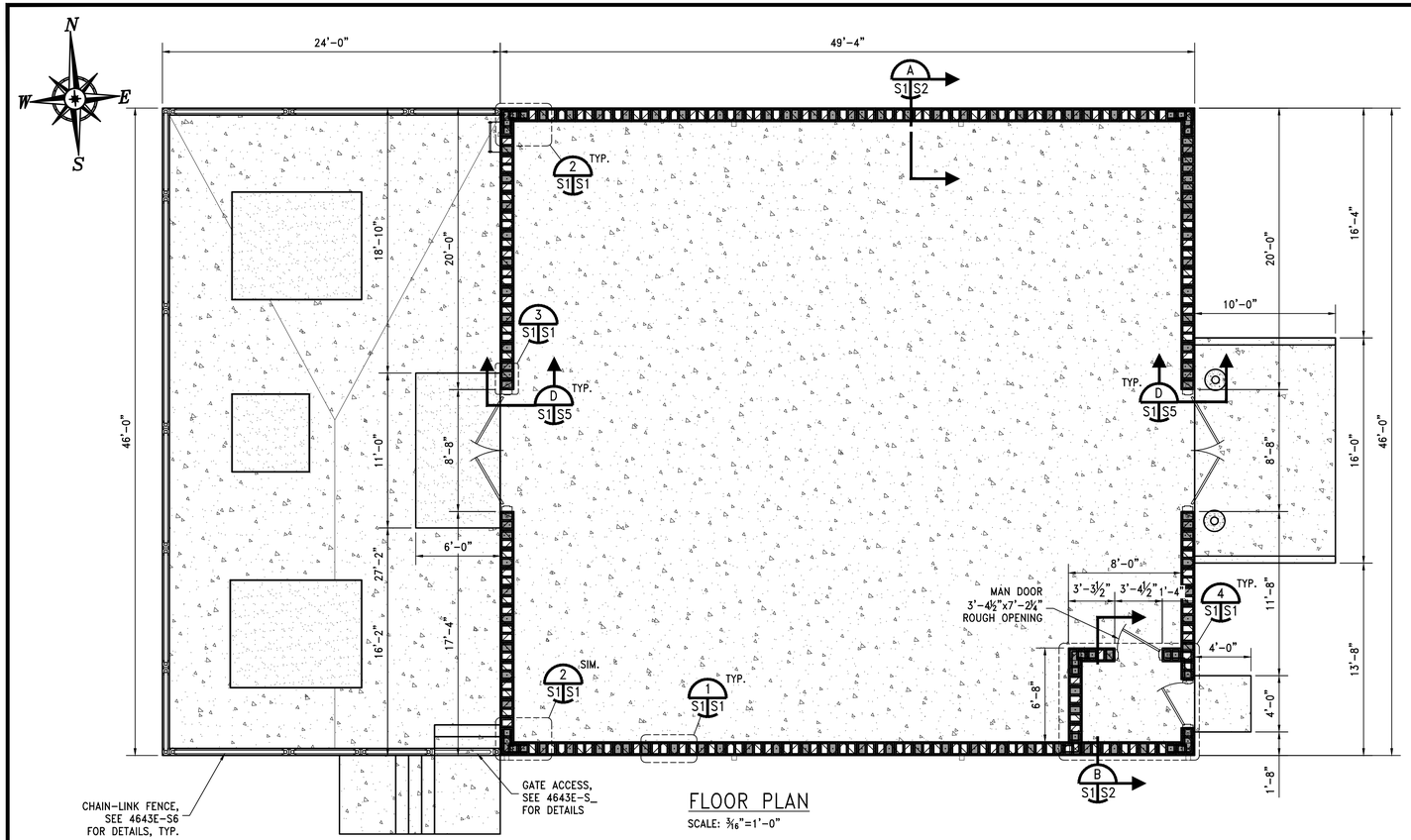
Project No. 11734 **Task No.** 02 **Addendum No.** 3

To: Prospective Bidders **Date:** 11/04/26

These items are hereby included in the bid documents by this addendum. Please indicate your receipt of this addendum by adding the addendum number in the appropriate place in your Bid Proposal.

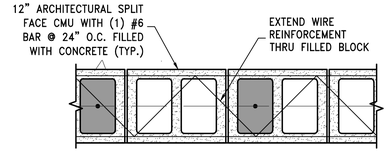
Item	Description
1.	See revised drawings 4643E-S1, S2, S3, S4 and S5 for roof deck, slab, insulation and 60 mil TPO membrane system clarifications and details. The roof deck will be comprised of a 4" (2.5" topper) slab on a Vulcraft 1.5 VL 20 metal deck. A minimum of 4" (R-25) of insulation shall be attached to the slab in accordance with the manufacturer's recommendations for a 159-mph wind. The roof membrane shall be a 60 mil TPO system, furnished and installed in accordance with the manufacturer's recommendations for a 20 year warranty. See attached Drawings E8 and E10 for electrical clarifications. See attached Pipe and Tube Railings (Handrails) and Chain Link Fences and Gates Specifications.
2.	Fence and gate specification Please provide the complete enclosure specification for 4643E-S6. Confirm which components require aluminum, including panel/gate frames, posts and base plates, and whether galvanized steel is an acceptable substitution. Identify tube wall thickness, alloy/finish, chain-link material/coating/gauge/mesh size, and anchorage/hardware requirements. Please also coordinate S6's copper grounding connections with Section 5B's dissimilar-metal restrictions and clarify the conflicting anchor-material requirements. See attached Chain Link Fences and Gates Specification.
3.	We understand four downspouts, drainage capacity of 15 inches/hour, oversized splash blocks and tapered insulation on the high side of RTU curbs are required. Please identify the fourth downspout location, gutter/downspout material, required overflow provisions and splash-block dimensions. Please also confirm the required height of RTU curb above the finished roof assembly and whether the remaining drainage/taper details are to be provided as a delegated-design submittal. See attached drawings S1, S2, S3, S4 and S5 for additional details. Roof curbs shall be 12" minimum height. Provide 2' X 3' concrete splash blocks with energy dissipating curb on 3 sides. Each curb shall be installed with 700# of Class I riprap, 6" thick on filter fabric around the down stream end of the block to dissipate the energy of the discharged water. Orientation of block and riprap to be determined based on actual field conditions after construction and final grading.
4.	Addendum 1, item 10, lists the electrical equipment included in this contract, but revised E10 retains the fire-alarm requirement. Please confirm whether a fire alarm system is required. If included, provide the system criteria, device locations/types, standalone versus existing-system connection requirements, required manufacturer compatibility, and monitoring/communication requirements. Fire Alarm not required, see attached drawing 4643E-E10 Rev C.

5.	M2 assigns thermostat communications/sensor wiring to the installing controls contractor. M3, paragraph 2.3.B, assigns external control wiring to the controls subcontractor under HVAC, but the following note assigns equipment-operation wiring and control-wiring conduit to electrical. M3, paragraph 3.1.B, also assigns thermostat connections to electrical. Please reconcile responsibility for thermostat supply, control/sensor wiring, conduit, terminations and startup/testing for RTUs 1 and 2. General Contractor shall coordinate the subcontractors, electrical and mechanical to provide a complete HVAC system as shown and specified on drawings 4643E-M1, M2, M3 and E1-E10.
6.	Revised E8 still shows LP circuit 6 for interface-control-panel power without an NIC designation, while item 10's included-equipment list does not identify that panel. Please confirm whether the circuit, conductors and termination are included in this contract and identify the termination point and panel furnishing/installation responsibility. See revised drawing E8.
7.	Cricket locations, dimensions and slopes, including taper around both RTUs, with roof high/low points and flow directions. Gutter size, material, slope and outlets; all four downspout sizes, locations and discharge routes; and splash block dimensions. Confirmation of the primary and secondary/overflow drainage arrangement, including whether roof drains or overflow scuppers are required. If required, please provide locations, sizes, elevations and details. See drawing S1 for cricket location, dimensions, etc. Gutter size 5" wide x 6" deep minimum, provide calculation with shop drawing submittals to confirm capacity. Minimum 4" x 6" downspout, provide calculation with shop drawing submittals to confirm capacity. See drawing 4643E-S3 for downspout locations. Overflow scuppers NOT required.

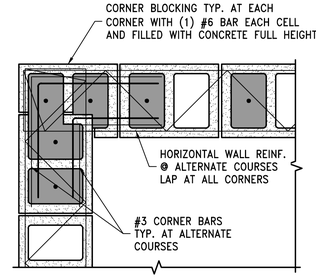


FLOOR PLAN

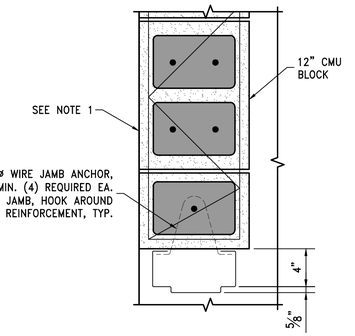
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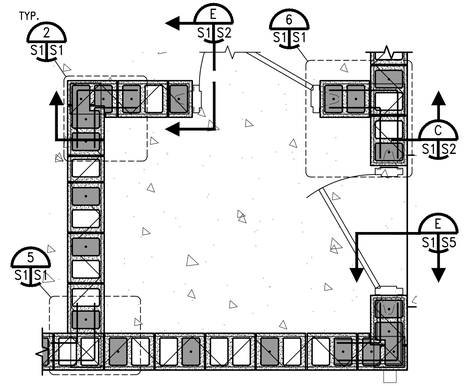
DETAIL 1 S1 S1
1"=1'-0"



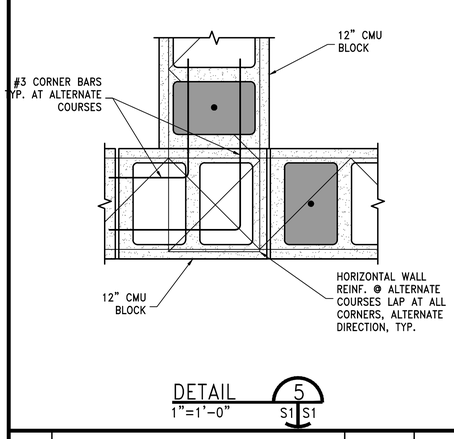
DETAIL 2 S1 S1
1"=1'-0"



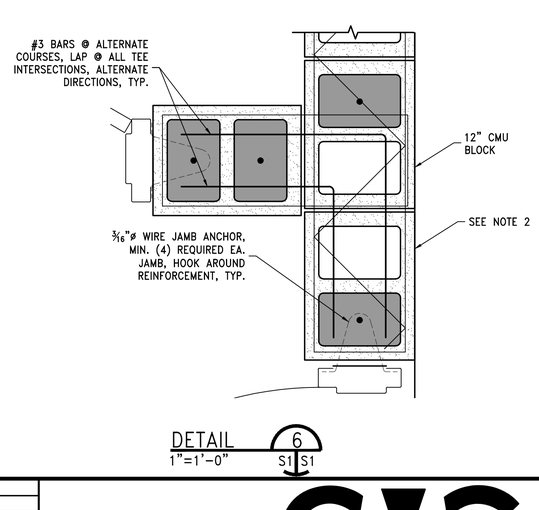
DETAIL 3 S1 S1
1"=1'-0"



DETAIL 4 S1 S1
1/2"=1'-0"



DETAIL 5 S1 S1
1"=1'-0"



DETAIL 6 S1 S1
1"=1'-0"

B

PAINT/COATING SCHEDULE		
LOCATION	TYPE	FINISH
CONCRETE FLOOR	CARBOLINE: CARBOGUARD 1340–SANITILE 655–SANITILE 655	AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS
INTERIOR WALLS	CORBOLINE: SANITILE 100–SANITILE 225	AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS
CEILING	EXPSOED VULCRAFT METAL DECK	GALVANIZED, AS SUPPLIED BY MANUFACTURER. TOUCH UP DAMAGE TO GALVANIZED FINISH IN ACCORDANCE WITH ASTM A 780.
EXTERIOR WALLS	CORBOLINE: SANITILE 600–CARBOTHANE 133 HB	AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS

NOTES:

1. FOR 8'-4" WIDE ROUGH OPENINGS, PROVIDE (1) FULLY GROUTED CELL @ JAMB WITH (1) #6 BAR IN CENTER OF CELL AND (2) ADJACENT FULLY GROUTED CELLS WITH (2) #6 BARS EACH CELL, EACH SIDE.
2. FOR 3'-4½" WIDE ROUGH OPENINGS, PROVIDE (1) FULLY GROUTED CELL @ JAMB WITH (1) #6 BAR IN CENTER OF CELL AND (1) ADJACENT FULLY GROUTED CELL WITH (2) #6 BARS, EACH SIDE.
3. PROVIDE BOND BEAMS AROUND PERIMETER OF BUILDING AND VESTIBULE @ MAX. 4'-0" O.C. WITH (1) #6 BAR, TYP.

B

4. PAINT:
   EXTERIOR AND INTERIOR CONCRETE BLOCK WALL SHALL BE PAINTED AS PER PAINT SCHEDULE WITH SURFACE PREPARATION AS OUTLINED AND SPECIFIED WITH SPECIFICATION FOR APPLICABLE COATING.
5. HORIZONTAL WALL REINFORCEMENT:
   FABRICATED FROM COLD – DRAWN STEEL WIRE (ASTM A82) TRUSSED DESIGN (16" MAXIMUM BETWEEN WELDS) WITH DEFORMED LONGITUDINAL WIRES, IN FLAT SECTIONS 10 TO 12 FEET LONG. USE 9 GAUGE LONGITUDINAL AND CROSS WIRES FOR INTERIOR WALLS AND 3/16" LONGITUDINAL AND 9 GAUGE CROSS WIRES WITH MOISTURE DRIP FOR CAVITY WALLS. WIDTH SHALL BE ONE INCH (1") LESS THAN NOMINAL WALL WIDTH. LAP SPLICES 6" AT END OF EACH LENGTH. USE PREFAB CORNERS AT ALL CORNERS OF ALL BLOCK WALL JUNCTURES.
6. HORIZONTAL BRIDGING AS PER MANUFACTURERS RECOMMENDATIONS TO PROVIDE FULL LOAD CARRYING CAPACITY OF STEEL BAR JOISTS.

REV.	DESCRIPTION	DATE	BY	CHK'D
B	REVISED ROOF MEMBRANE AND SLOPE	11/03/26	RCC	ECL
A	ISSUED FOR BID	09/11/26	VTH	ECL

11880 Cranston Drive, Ste. 101
Arlington, Tennessee 38002
(901) 290-5444

CMG ENGINEERS, INC.

457 St. Michael Street
Mobile, Alabama 36602
(251) 433-1611

PROJECT

McDUFFIE COAL TERMINAL
NEW EAST ELECTRICAL BUILDING

McDUFFIE COAL TERMINAL
MOBILE, ALABAMA

TITLE

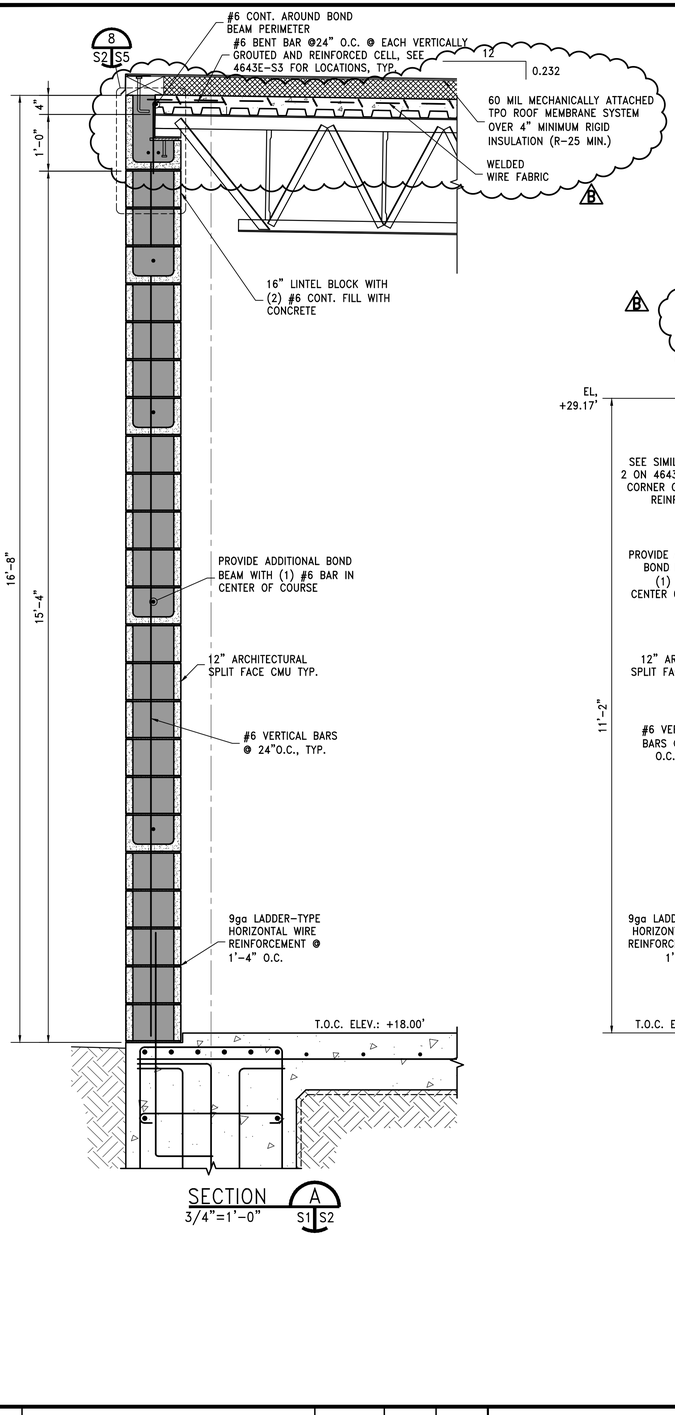
ELECTRICAL BUILDING
FLOOR PLAN

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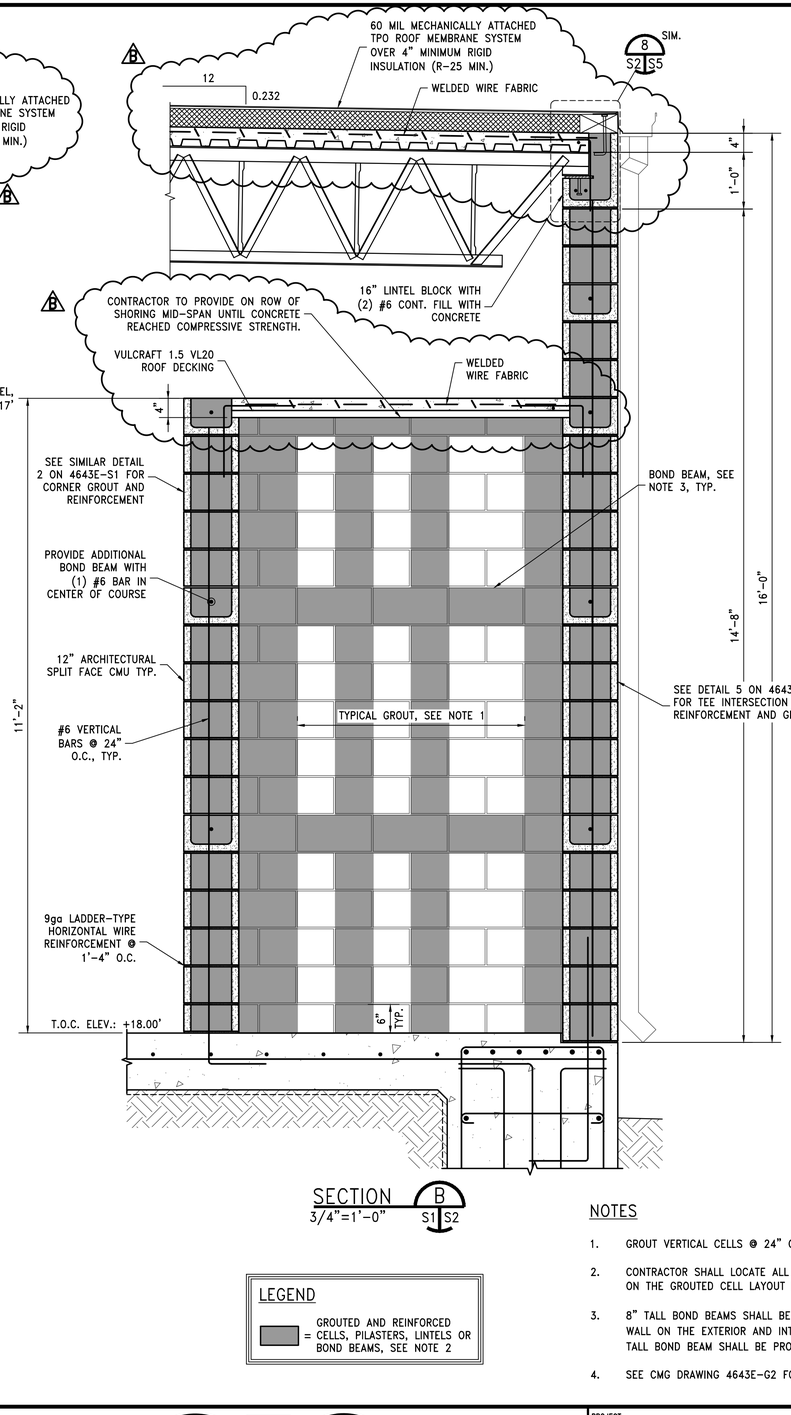
DATE 05/27/26 22x34 REV. B

DRAWING NUMBER 4643E-S1

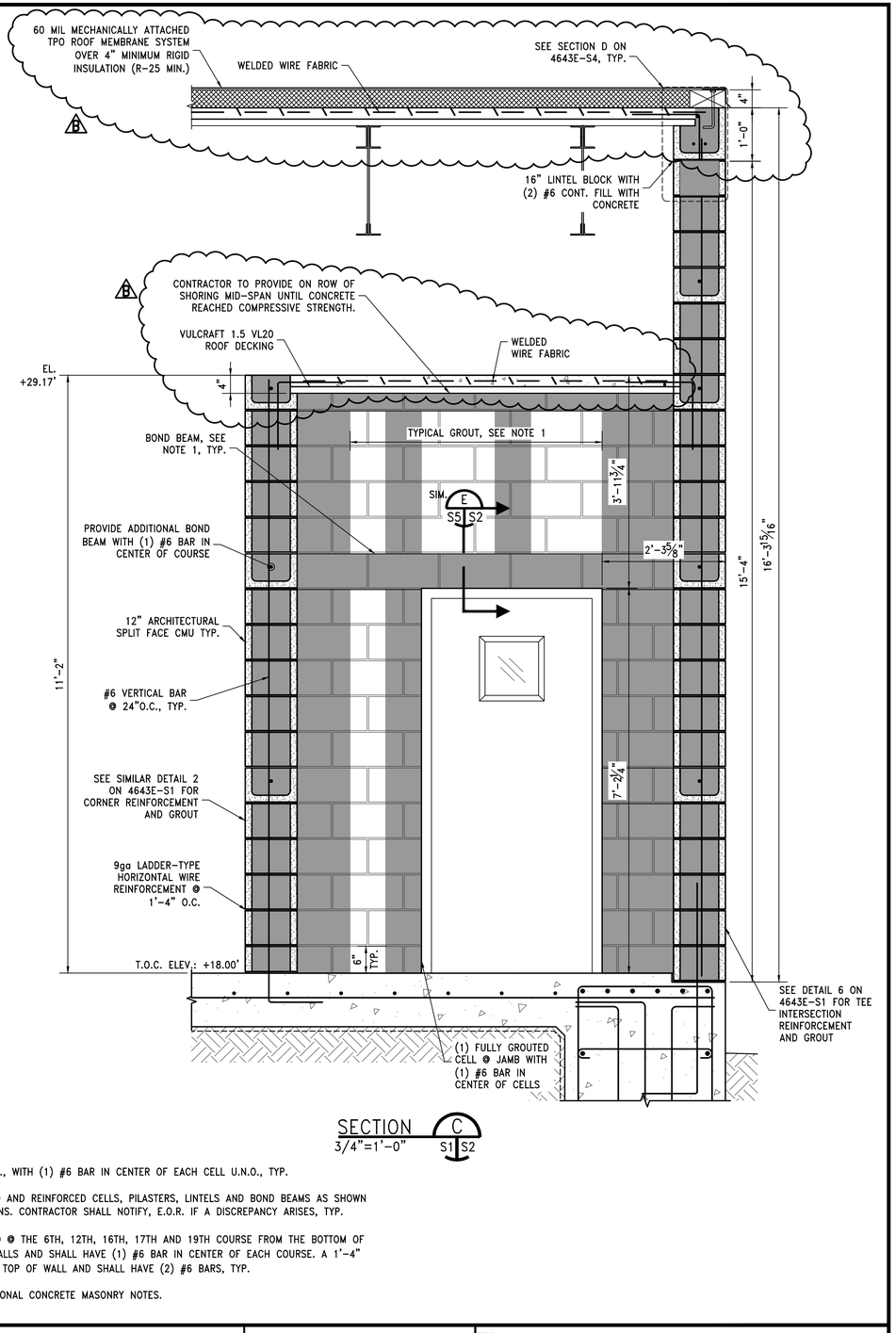
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SECTION A
3/4"=1'-0" S1 S2



SECTION B
3/4"=1'-0" S1 S2



SECTION C
3/4"=1'-0" S1 S2

LEGEND

GROUTED AND REINFORCED CELLS, PILASTERS, LINTELS OR BOND BEAMS, SEE NOTE 2 = GROUTED AND REINFORCED CELLS, PILASTERS, LINTELS OR BOND BEAMS, SEE NOTE 2

NOTES

1. GROUT VERTICAL CELLS @ 24" O.C., MAX., WITH (1) #6 BAR IN CENTER OF EACH CELL U.N.O., TYP.
2. CONTRACTOR SHALL LOCATE ALL GROUTED AND REINFORCED CELLS, PILASTERS, LINTELS AND BOND BEAMS AS SHOWN ON THE GROUTED CELL LAYOUT ELEVATIONS. CONTRACTOR SHALL NOTIFY, E.O.R. IF A DISCREPANCY ARISES, TYP.
3. 8" TALL BOND BEAMS SHALL BE LOCATED @ THE 6TH, 12TH, 16TH, 17TH AND 19TH COURSE FROM THE BOTTOM OF WALL ON THE EXTERIOR AND INTERIOR WALLS AND SHALL HAVE (1) #6 BAR IN CENTER OF EACH COURSE. A 1'-4" TALL BOND BEAM SHALL BE PROVIDED @ TOP OF WALL AND SHALL HAVE (2) #6 BARS, TYP.
4. SEE CMG DRAWING 4643E-G2 FOR ADDITIONAL CONCRETE MASONRY NOTES.

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PROJECT
McDUFFIE COAL TERMINAL
NEW EAST ELECTRICAL BUILDING

McDUFFIE COAL TERMINAL
MOBILE, ALABAMA

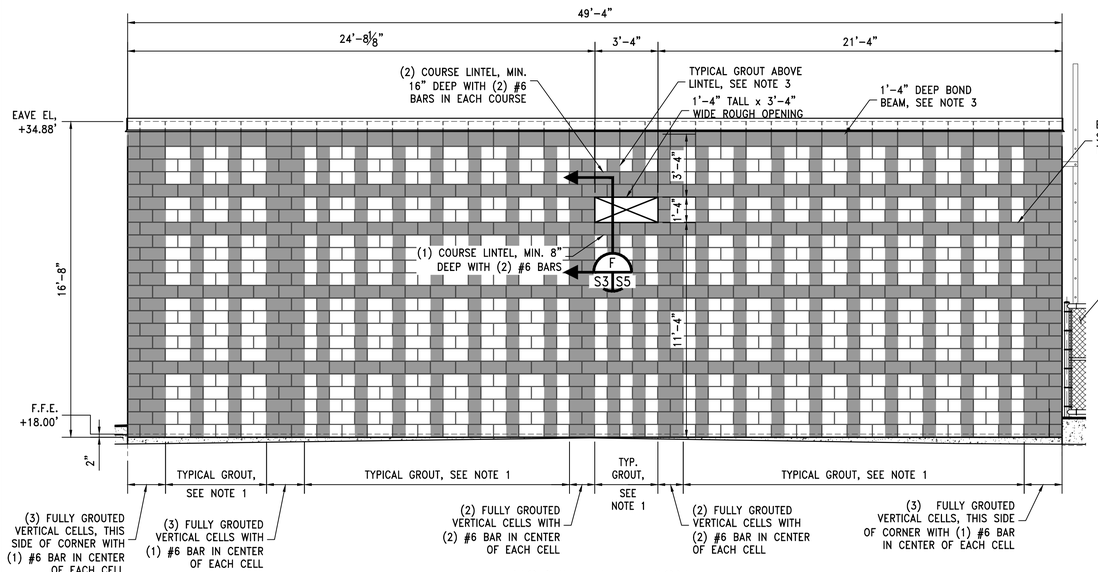
TITLE
ELECTRICAL BUILDING
GROUTED CELL LAYOUT

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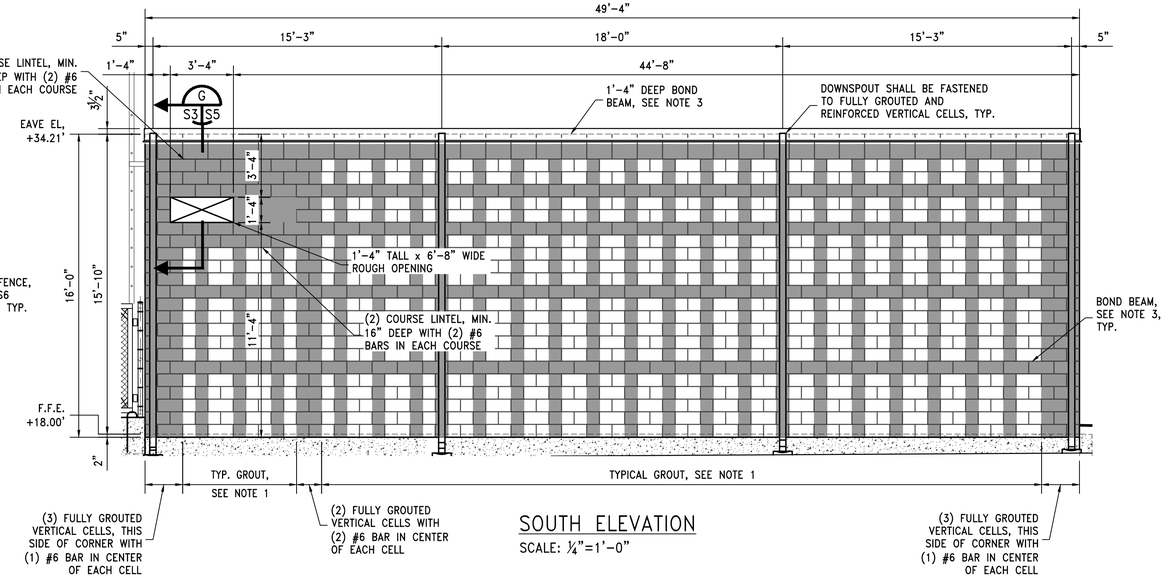
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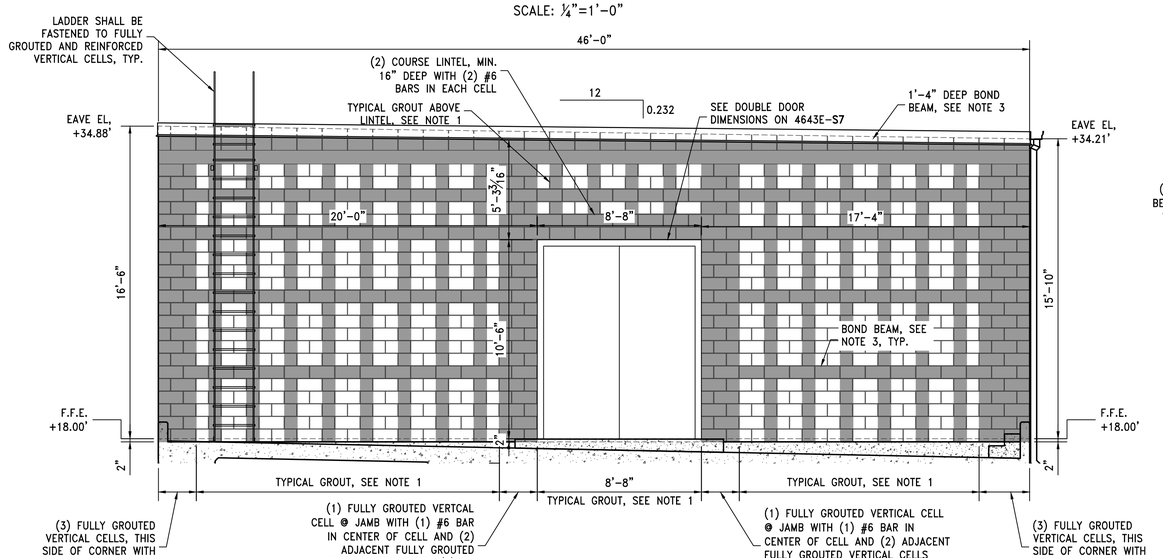
NORTH ELEVATION

SCALE: ¼"=1'-0"



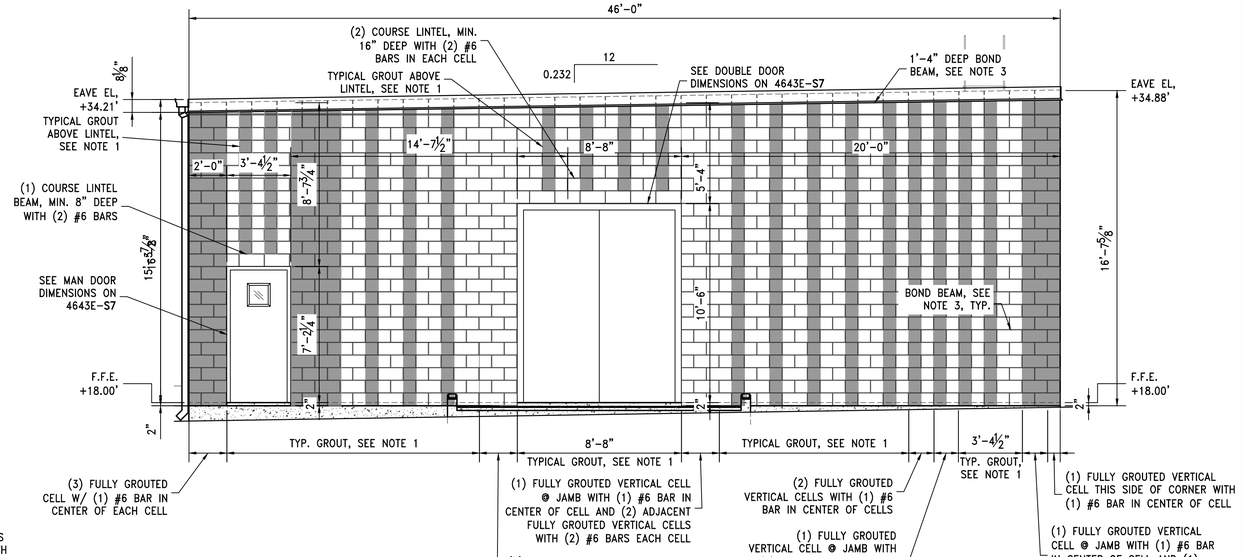
SOUTH ELEVATION

SCALE: ¼"=1'-0"



WEST ELEVATION

SCALE: ¼"=1'-0"



EAST ELEVATION

SCALE: ¼"=1'-0"

LEGEND

GROUTED AND REINFORCED = CELLS, PILASTERS, LINTELS OR BOND BEAMS, SEE NOTE 2

NOTES

1. GROUT VERTICAL CELLS @ 24" O.C., MAX., WITH (1) #6 BAR IN CENTER OF EACH CELL U.N.O., TYP.
2. CONTRACTOR SHALL LOCATE ALL GROUTED AND REINFORCED CELLS, PILASTERS, LINTELS AND BOND BEAMS AS SHOWN ON THE GROUTED CELL LAYOUT ELEVATIONS THIS SHEET. CONTRACTOR SHALL NOTIFY, E.O.R. IF A DISCREPANCY ARISES, TYP.
3. 8" TALL BOND BEAMS SHALL BE LOCATED @ THE 6TH, 12TH, 17TH AND 20TH COURSE FROM THE BOTTOM OF WALL ON THE EXTERIOR AND INTERIOR WALLS AND SHALL HAVE (1) #6 BAR IN CENTER OF EACH COURSE. A 1'-4" TALL BOND BEAM SHALL BE PROVIDED @ TOP OF WALL AND SHALL HAVE (2) #6 BARS, TYP.
4. SEE CMG DRAWING 4643E-G2 FOR ADDITIONAL CONCRETE MASONRY NOTES.

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PROJECT

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NEW EAST ELECTRICAL BUILDING

McDUFFIE COAL TERMINAL
MOBILE, ALABAMA

TITLE

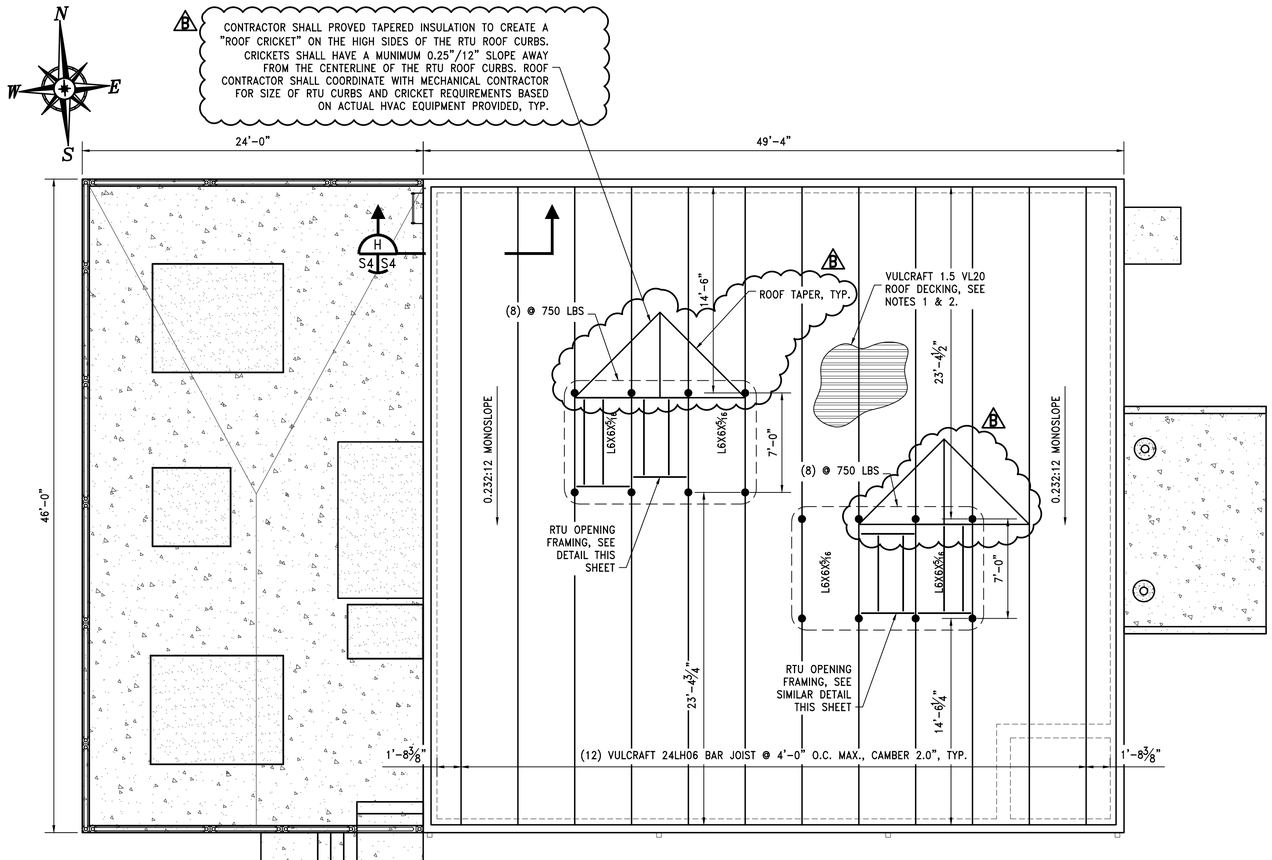
ELECTRICAL BUILDING
GROUTED CELL LAYOUT

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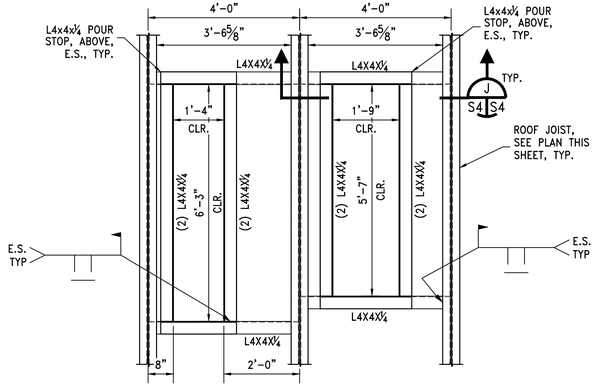
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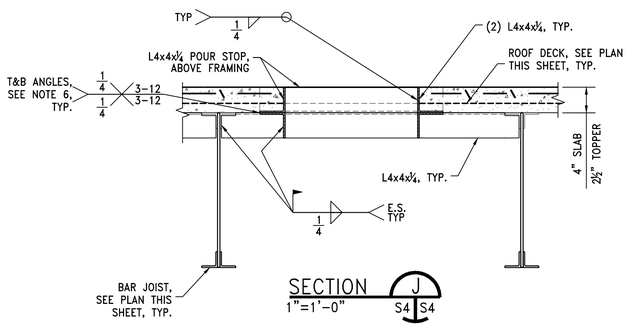
ROOF FRAMING PLAN

SCALE: 3/16"=1'-0"



TYPICAL RTU OPENING FRAMING

SCALE: ½"=1'-0"
*SEE NOTE 6



SECTION J

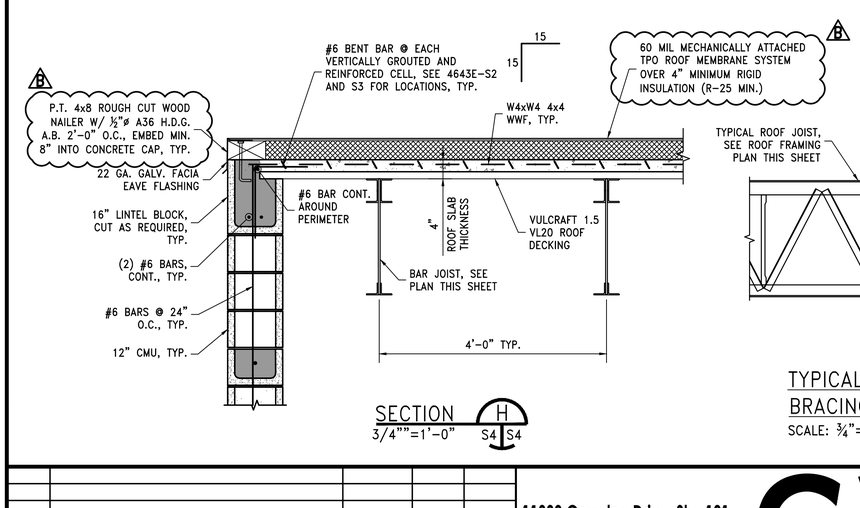
1"=1'-0" S4 S4

NOTES:

1. ROOF DECK SHALL HAVE 4" CONCRETE DECK (2½" TOPPER) WITH W4xW4 4x4 WWF, TYP.
2. ROOF DECK SHALL BE FASTENED TO STEEL JOIST WITH HILTI X-HSN 24, OR APPROVED EQUAL, ON 36/5 PATTERN, FIELD AND EDGE. SIDELAPS SHALL BE FASTENED WITH HILTI S-SLC01, OR APPROVED EQUAL, @ 18" O.C., TYP.
3. SEE 4643E-G4 FOR ADDITIONAL STEEL JOIST NOTES.
4. ROOF INSULATION SHALL BE ATTACHED TO THE CONCRETE SURFACE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. THE ROOF MEMBRANE SHALL BE A 60 MIL MECHANICALLY ATTACHED TPO ROOF MEMBRANE SYSTEM OR APPROVED EQUAL. THE ROOFING SYSTEM SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS TO PROVIDE A 20 YEAR WARRANTY.
5. ADDLOAD NOTES AND MECHANICAL OPENINGS ARE DESIGNED FOR 15 TON TRANE TSK180A4S00 ROOFTOP UNIT W/6-WAY DROP DIFFUSER RSS MODEL 01-578-20, SEE DRAWING 4643E-M1. CONTRACTOR SHALL VERIFY WITH EOR NEW ADDLOAD LOCATIONS AND LOADS PRIOR TO ORDERING AND FABRICATION OF STEEL JOISTS AND VERIFY SIZE OF MECHANICAL OPENINGS IF ALTERNATE MODELS ARE PROPOSED BY CONTRACTOR AND APPROVED BY EOR POST BID ACCEPTANCE.

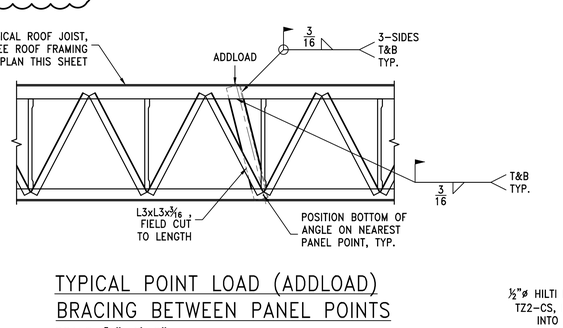
   ● = ADDLOAD

6. CONTRACTOR SHALL COORDINATE WITH RTU INSTALLER TO ENSURE PROPER POSITIONING AND SIZE OF SUPPLY AIR AND RETURN AIR OPENINGS AND FRAMING. POUR STOP ANGLES MAY BE FIELD WELDED OR SHOP WELDED TO FRAMING ANGLES AT DISCRETION OF CONTRACTOR, TYP.



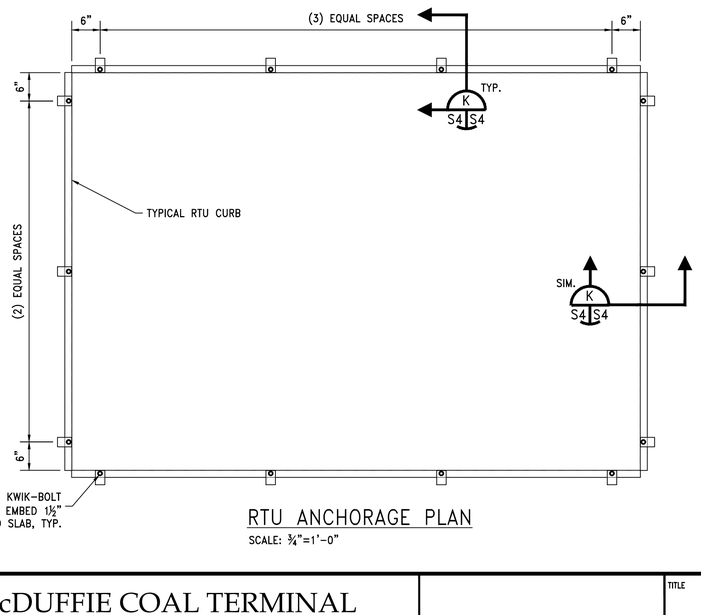
SECTION H

3/4""=1'-0" S4 S4



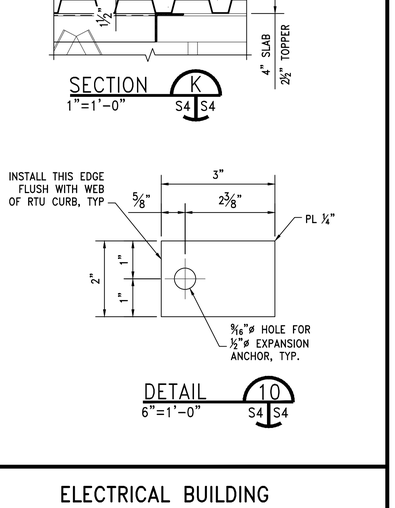
TYPICAL POINT LOAD (ADDLOAD) BRACING BETWEEN PANEL POINTS

SCALE: ¾"=1'-0"



RTU ANCHORAGE PLAN

SCALE: ¾"=1'-0"



SECTION K

1"=1'-0" S4 S4

DETAIL 10

6"=1'-0" S4 S4

REV.	DESCRIPTION	DATE	BY	CHK'D
B	REVISED ROOF MEMBRANE	11/03/26	RCC	ECL
A	ISSUED FOR BID	09/11/26	VTH	ECL

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PROJECT

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NEW EAST ELECTRICAL BUILDING

McDUFFIE COAL TERMINAL
MOBILE, ALABAMA

TITLE

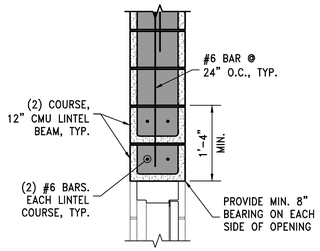
ELECTRICAL BUILDING
ROOF FRAMING PLAN

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DATE 05/27/26 22x34 REV. B

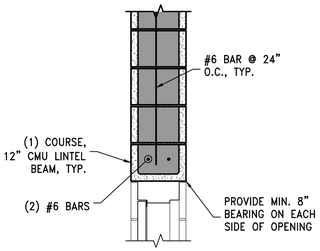
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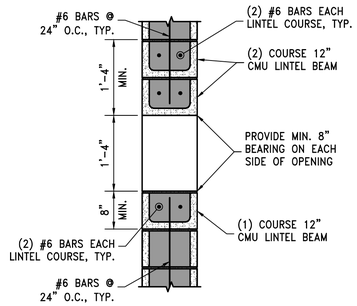
LINTEL FOR 8'-8"
WIDE OPENING

SECTION D
3/4"=1'-0" S1 S5

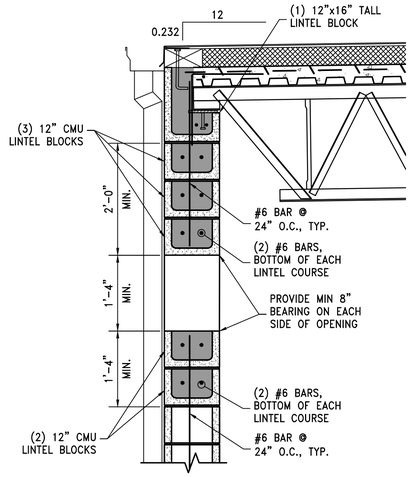


LINTEL FOR 3'-4½"
WIDE OPENING

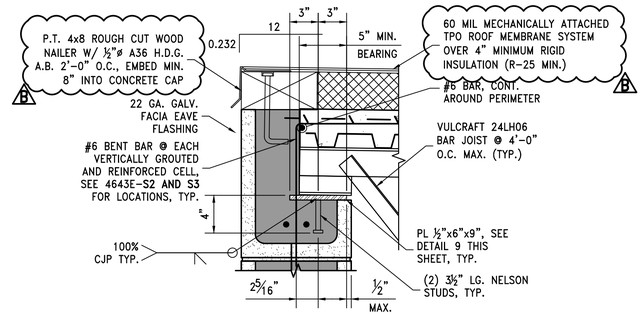
SECTION E
3/4"=1'-0" S1,S2 S5



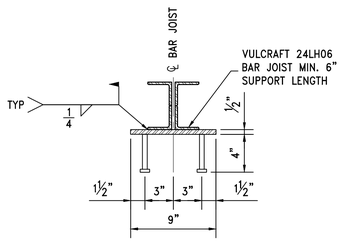
SECTION F
3/4"=1'-0" S3 S5

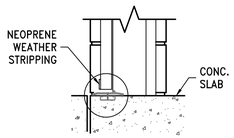


SECTION G
3/4"=1'-0" S3 S5



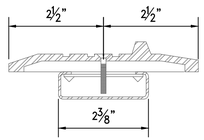
DETAIL 8
1 1/2"=1'-0" S2 S5





SILL
N.T.S.

DOOR 1



DETAIL 9
1 1/2"=1'-0" S5 S5

THRESHOLD
N.T.S.

REV.	DESCRIPTION	DATE	BY	CHK'D
B	REVISED ROOF MEMBRANE	11/03/26	RCC	ECL
A	ISSUED FOR BID	09/11/26	VTH	ECL

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PROJECT
McDUFFIE COAL TERMINAL
NEW EAST ELECTRICAL BUILDING

McDUFFIE COAL TERMINAL
MOBILE, ALABAMA

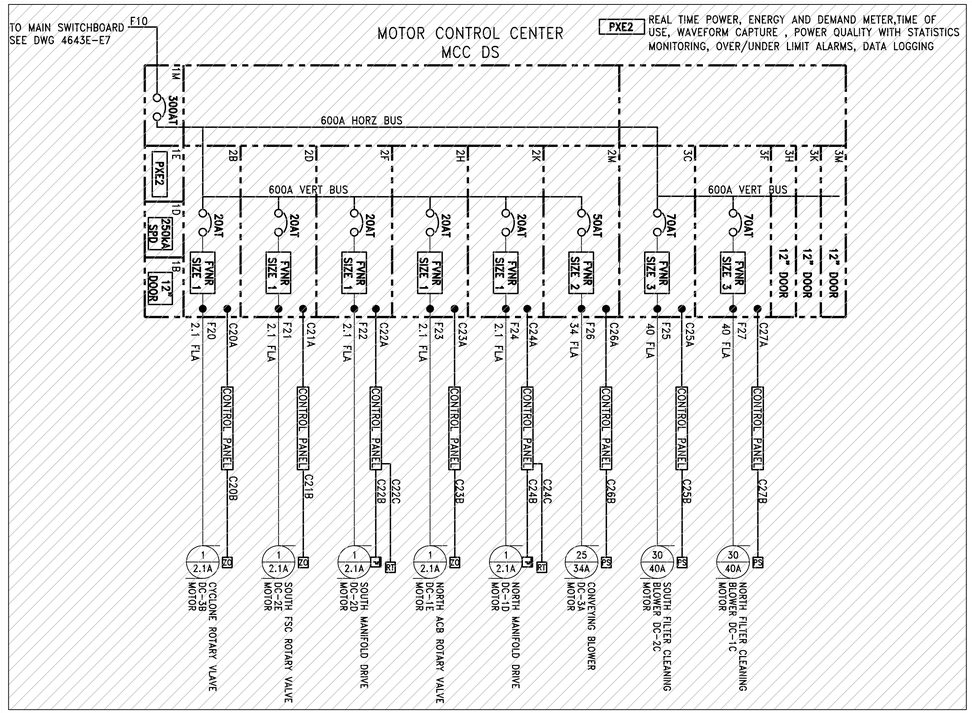
TITLE
ELECTRICAL BUILDING
DETAILS AND SECTIONS

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CONFIDENTIAL, VALUABLE, AND
PROPRIETARY INFORMATION

DATE 05/27/26 22x34 REV. B

DRAWING NUMBER 4643E-S5

Z:\4600-4699\4643E - 4643-APA East Electrical Bldg\Design\4643E-S5.dwg, 11/4/2026 9:23:22 AM, _DWG To PDF.pc3



NOT IN CONTRACT

REFERENCES:

4643E-E1 – ELECTRICAL SITE PLAN
4643E-E2 – ELECTRICAL BUILDING LIGHTING FLOOR PLAN
4643E-E3 – ELECTRICAL BUILDING POWER FLOOR PLAN
4643E-E4 – ELECTRICAL BUILDING CABLE TRAY FLOOR PLAN
4643E-E5 – ELECTRICAL BUILDING GROUNDING PLAN
4643E-E7 – ELECTRICAL AC-ONE LINE RISER DIAGRAM
4643E-E8 – ELECTRICAL MOTOR CONTROL CENTER AND PANELBOARD SCHEDULE
4643E-E9 – ELECTRICAL FEEDER AND CONTROL CONDUCTOR SCHEDULE
4643E-E10 – ELECTRICAL SPECIFICATIONS

ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE INSTALLED AS REQUIRED BY THE NATIONAL ELECTRIC CODE (N.E.C.) AND ANY STATE, CITY AND/OR LOCAL CODE REQUIREMENTS. THE MORE STRINGENT CODE REQUIREMENT SHALL BE UTILIZED AND VERIFIED WITH THE LOCAL INSPECTION APPROVAL AGENCY. (DEFINITION "CODE" – STATE, CITY AND/OR LOCAL CODE REQUIREMENTS)

2. CONTRACTOR SHALL INSTALL ALL GROUNDING AS REQUIRED BY THE NATIONAL ELECTRIC CODE (N.E.C.) AND ANY STATE, CITY AND/OR LOCAL CODE REQUIREMENTS. THE MORE STRINGENT CODE REQUIREMENT SHALL BE UTILIZED AND VERIFIED WITH THE LOCAL INSPECTION APPROVAL AGENCY.

3. CONTRACTOR SHALL (PRIOR TO BID)
   (a) VISIT THE JOB/CONSTRUCTION SITE AND FIELD VERIFY ALL EXISTING CONDITIONS
   (b) TAKE ALL CONSIDERATIONS INTO ACCOUNT AT THE TIME OF BID. NO CONSIDERATIONS WILL BE GRANTED TO THE CONTRACTOR AFTER THE BID HAS BEEN ACCEPTED.

4. CONTRACTOR SHALL VERIFY WITH THE MANUFACTURER THE REQUIREMENTS FOR THE HIGH RESISTANCE GROUND (HRG) SYSTEM PRIOR TO BID AND INSTALLATION. CONTRACTOR SHALL SHALL SUBMIT COMPLETE SUBMITTAL WITH CONDUCTOR REQUIREMENTS, WIRING SCHEMATIC AND TERMINATION DIAGRAM PRIOR TO INSTALLATION. CONDUCTORS SHOWN ARE AN APPROXIMATE IN SIZE AND QUANTITY, AND CONTRACTOR SHALL VERIFY PRIOR TO BID AND INSTALLATION. B NOT IN CONTRACT

PANELBOARD SCHEDULE (277/480V 3ø)

MARK: "DP"

CKT #	LOAD DESCRIPTION	BREAKER P	TRIP	FEEDER/CONDUIT FEED	GRD	SIZE	PHASE (VA) A	B	C	PHASE (VA) A	B	C	FEEDER/CONDUIT FEED	GRD	SIZE	BREAKER P	TRIP	LOAD DESCRIPTION	CKT #
1							50,000			2,100			–	–	–	–	–	NORTH/SOUTH FILTER LTG	2
3	150kVA XFMR	3	250	250	4	2½		50,000			1,500		–	–	–	–	–	ISOLATION VALVE/STAIRS LTG	4
5									50,000			–	–	–	–	–	–	SPACE	6
7							12,500			–			–	–	–	–	–	SPACE	8
9	37.5kVA XFMR PANEL P3	3	40	6	8	1		12,500			–		–	–	–	–	–	SPACE	10
11									12,500			–	–	–	–	–	–	SPACE	12
13	SPACE	–	–	–	–	–	–			–			–	–	–	–	–	SPACE	14
15	SPACE	–	–	–	–	–		–			–		–	–	–	–	–	SPACE	16
17	SPACE	–	–	–	–	–			–			–	–	–	–	–	–	SPACE	18
19	SPACE	–	–	–	–	–	–			–			–	–	–	–	–	SPACE	20
21	SPACE	–	–	–	–	–		–			–		–	–	–	–	–	SPACE	22
23	SPACE	–	–	–	–	–			–			–	–	–	–	–	–	SPACE	24
25	SPACE	–	–	–	–	–	–			–			–	–	–	–	–	SPACE	26
27	SPACE	–	–	–	–	–		–			–		–	–	–	–	–	SPACE	28
29	SPACE	–	–	–	–	–			–			–	–	–	–	–	–	SPACE	30
31							11,085			11,085									32
33	RTU-1	3	50	4	8	1		11,085			11,085		4	8	1	3	50	RTU-2	34
35									11,085			11,085							36
37							4,435			8,335									38
39	I/O RACK	3	20	12	12	½		4,435			8,335		2	6	1	3	60	25kVA 480V-120/208 XFMR SAMPLER TOWER	40
41									4,435			8,335							42
							78,020	78,020	78,020	21,520	20,920	19,420							

A NOT IN CONTRACT
B NOT IN CONTRACT
B NOT IN CONTRACT
NOT IN CONTRACT
B NOT IN CONTRACT

TOTAL (kVA) øA 99.54 øB 98.94 øC 97.44
TOTAL CONNECTED LOAD (kVA) 290.92
HIGH PHASE (AMPS) 359.4
TOTAL LOAD (AMPS) 355.9

PANELBOARD SCHEDULE (120/208V 3ø)

MARK: "LP"

CKT #	LOAD DESCRIPTION	BREAKER P	TRIP	FEEDER/CONDUIT FEED	GRD	SIZE	PHASE (VA) A	B	C	PHASE (VA) A	B	C	FEEDER/CONDUIT FEED	GRD	SIZE	BREAKER P	TRIP	LOAD DESCRIPTION	CKT #
1	INTERIOR RECEPT	1	20	12	12	½	180			1,785			12	12	½	1	20	INTERIOR LIGHTING	2
3	INTERIOR RECEPT	1	20	12	12	½		180			1,040		12	12	¾	1	20	EXTERIOR LIGHTING	4
5	INTERIOR RECEPT	1	20	12	12	½			180			1,920	10	12	¾	1	20	INTERFACE CONTROL PANEL PWR	6
7	INTERIOR RECEPT	1	20	12	12	½	180			25			12	12	¾	1	20	EXIT/EMERGENCY LTG	8
9	INTERIOR RECEPT	1	20	12	12	½		180			180		12	12	¾	1	20	INTERIOR RECEPT	10
11	EXTERIOR RECEPT	1	20	12	12	½			180			180	12	12	¾	1	20	INTERIOR RECEPT	12
13	EXTERIOR RECEPT	1	20	12	12	½	180			180			12	12	¾	1	20	INTERIOR RECEPT	14
15	EXTERIOR RECEPT	1	20	12	12	½		180			180		12	12	¾	1	20	INTERIOR RECEPT	16
17	EXTERIOR RECEPT	1	20	12	12	½			180			180	12	12	¾	1	20	INTERIOR RECEPT	18
19	SPACE	–	–	–	–	–	–			180			12	12	¾	1	20	INTERIOR RECEPT	20
21	SPACE	–	–	–	–	–		–			–		–	–	–	–	–	SPACE	22
23	SPACE	–	–	–	–	–			–			–	–	–	–	–	–	SPACE	24
25	SPACE	–	–	–	–	–	–			–			–	–	–	–	–	SPACE	26
27	SPACE	–	–	–	–	–		–			–		–	–	–	–	–	SPACE	28
29	SPACE	–	–	–	–	–			–			–	–	–	–	–	–	SPACE	30
31	HRG CONTROL	1	20	10	12	¾	500			–			–	–	–	–	–	SPACE	32
33	SYSTEM CONTROL PANEL	1	20	10	12	½		1,920			–		–	–	–	–	–	SPACE	34
35	PASSIVE VALVES CP05 PANEL	1	20	10	12	¾			1,200			–	–	–	–	–	–	SPACE	36
37	LTG CONTROL	1	20	12	12	½	500			–			–	–	–	–	–	SPACE	38
39	SPARE	1	20	–	–	–		–			–		–	–	–	–	–	SPACE	40
41	SPARE	1	20	–	–	–			–			180	12	12	¾	1	20	RTU RECEPT	42
							1,540	2,460	1,740	2,170	1,580	2,460							

B NOT IN CONTRACT
C NOT IN CONTRACT

TOTAL (kVA) øA 3.71 øB 4.04 øC 4.20
TOTAL CONNECTED LOAD (kVA) 11.92
HIGH PHASE (AMPS) 35.0
TOTAL LOAD (AMPS) 33.2

PANELBOARD COORDINATION SCHEDULE

MARK	TYPE	MOUNTING	VOLTAGE	ø	WIRE	MAIN	SERVICE RATED	kAIC RATING	BUS RATING	NEUTRAL RATING	C/B TYPE	FEEDER CONDUCTORS	FEEDER GROUND	FEEDER CONDUIT
DP	NEMA-12	SURFACE	277/480	3	4	MLO	NO	65	600	600	BOLT-ON	(4)#4/0AWG	#1AWG	2½
LP	NEMA-12	SURFACE	120/208	3	4	600M.B.	NO	12	600	600	BOLT-ON	(2)350MCM ø/N	(2)#1AWG	(2)3

PANELBOARD NOTES:

1. ALL BUSSING COPPER, INCLUDING NEUTRAL AND GROUND. ALL LUGS 100 AMPS AND GREATER SHALL BE COPPER. ALL LUGS ON CIRCUIT BREAKERS GREATER THAN 400 AMPS SHALL BE COPPER.

2. CONTRACTOR SHALL FURNISH AND INSTALL NEW ARC-FLASH WARNING LABEL ON NEW ELECTRICAL EQUIPMENT AND ANY EXISTING ELECTRICAL EQUIPMENT THAT HAS BEEN MODIFIED. ELECTRICAL EQUIPMENT IS LISTED AS SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES AND MOTOR CONTROL CENTERS AS PER NEC 110.16(6)

3. NEW PANELBOARD SUPPLIED BY A FEEDER SHALL BE PERMANENTLY MARKED TO INDICTAE EQUIPMENT WHERE THE POWER ORIGINATES AS PER NEC 480.4(B). THE LABEL SHALL BE PERMANENTLY AFFIXED, OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIROMENT INVOLVED, AND NOT HANDWRITTEN.

REV.	DESCRIPTION	DATE	BY	CHK'D
C	ITEMS NOT IN CONTRACT	11/04/26	WES	JJM
B	ITEMS NOT IN CONTRACT	10/22/26	WES	JJM
A	ISSUED FOR BID	09/11/26	WES	JJM

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PROJECT
McDUFFIE COAL TERMINAL
NEW EAST ELECTRICAL BUILDING
McDUFFIE COAL TERMINAL
MOBILE, ALABAMA

TITLE
ELECTRICAL MOTOR CONTROL CENTER AND PANELBOARD SCHEDULE

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DATE 05/27/26 22x34 REV. C
DRAWING NUMBER 4643E-E8

ELECTRICAL SPECIFICATIONS:

PART 1 – GENERAL SCOPE

FURNISHING OF ALL LABOR, MATERIAL, EQUIPMENT, SUPPLIES, AND SERVICES NECESSARY TO CONSTRUCT AND INSTALL THE COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN. WORK SHALL INCLUDE BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING ITEMS:

22.9kV–4160V TRANSFORMER/TERMINATION
5kV HIGH RESISTANCE GROUND INSTALLATION/TERMINATION
22.9kV–480/277V TRANSFORMER/TERMINATION
MAIN 4160V SWITCHGEAR INSTALLATION/TERMINATION
MAIN 480/277V SWITCHBOARD INSTALLATION/TERMINATION
LIGHTING INSTALLATION/TERMINATION
INTERIOR/EXTERIOR CIRCUIT DISTRIBUTION
PANELBOARD 480/277V INSTALLATION/TERMINATION
480V–120/208V TRANSFORMER INSTALLATION/TERMINATION
PANELBOARD 120/208V INSTALLATION/TERMINATION
EQUIPMENT INSTALLATION/TERMINATION
RECEPTACLE INSTALLATION/TERMINATION
CONDUIT INSTALLATION
CONDUCTOR INSTALLATION/TERMINATION
UNDERGROUND DUCTBANK/EXCAVATION WITH GPR (GROUND PENETRATING RADAR)

JOB CONDITIONS

EXISTING CONDITIONS: ALL UTILITIES, EXISTING SYSTEMS, AND CONDITIONS SHOWN ON THE PLANS AS EXISTING ARE APPROXIMATE, AND THE CONTRACTOR SHALL VERIFY BEFORE ANY WORK IS STARTED.

CODES, PERMITS AND INSPECTIONS

THE INSTALLATION SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL INSTALLATION AND WITH THE REGULATIONS OF THE LATEST ACCEPTED PUBLISHED EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C. 2017) WHERE SUCH REGULATIONS DO NOT CONFLICT WITH THOSE LAWS AND ORDINANCES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES, AND AFTER COMPLETION OF THE WORK, SHALL FURNISH THE ARCHITECT A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM THE APPLICABLE LOCAL INSPECTION AUTHORITIES. ANY CHARGES BY A UTILITY FOR PROVIDING SERVICE AS SHOWN SHALL BE INCLUDED IN THE BID AND PAID BY THE CONTRACTOR.

STANDARDS OF MATERIALS AND WORKMANSHIP

ALL MATERIALS SHALL BE NEW AND SHALL BE LISTED AND APPROVED BY THE UNDERWRITERS' LABORATORIES, INC., IN EVERY CASE WHERE A STANDARD HAS BEEN ESTABLISHED FOR A PARTICULAR TYPE OF MATERIAL IN QUESTION. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT APPEARANCE.

SHOP DRAWINGS

THE CONTRACTOR SHALL SUBMIT A LIST OF ITEMS PROPOSED FOR USE. HE SHALL ALSO SUBMIT CATALOG DATA AND SHOP DRAWINGS ON PROPOSED SYSTEMS AND THEIR COMPONENTS, PANELBOARDS, SAFETY SWITCHES, LIGHTING FIXTURES, AND WIRING DEVICES. WHERE SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS, THE CONTRACTOR SHALL DEFRAY ALL ITEMS OF COST FOR THE REVISED DESIGN AND CONSTRUCTION INCLUDING COSTS TO ALL ALLIED TRADES INVOLVED.

TYPE OF PERMANENT ELECTRICAL SERVICE

EXISTING FACILITY ELECTRICAL SERVICE 22.9kV, 3 PHASE, 3 WIRE SERVED FROM AN EXISTING NORTH 32 BUILDING DISTRIBUTION SWITCH. CONTRACTOR SHALL VERIFY ALL DETAILS OF ELECTRICAL SERVICE WITH THE OWNER PRIOR TO BID. INTERFACE WITH OTHER CONTRACTS IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COOPERATE WITH ALL OTHER CRAFTS WORKING ON THIS PROJECT. ALL CUTTING, TRENCHING, BACKFILL, AND STRUCTURAL REMOVALS TO PERMIT ENTRY OF THE ELECTRICAL SYSTEM COMPONENTS SHALL BE DONE BY THIS CONTRACTOR. ALL PATCHING AND FINISHING SHALL BE DONE BY THE GENERAL CONTRACTOR.

TYPE OF TEMPORARY ELECTRICAL SERVICE

TEMPORARY ELECTRICAL SERVICE FOR THE NEW EAST ELECTRICAL BUILDING SHALL BE 100A, 480V, 3 PHASE, 4 WIRE SERVED FROM AN EXISTING EAST ELECTRICAL BUILDING 480/277V PANELBOARD. CONTRACTOR SHALL SEE 4643E–E1 FOR REQUIREMENTS. INTERFACE WITH OTHER CONTRACTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COOPERATE WITH ALL OTHER CRAFTS WORKING ON THIS PROJECT. ALL CUTTING, TRENCHING, BACKFILL, AND STRUCTURAL REMOVALS TO PERMIT ENTRY OF THE ELECTRICAL SYSTEM COMPONENTS SHALL BE DONE BY THIS CONTRACTOR. ALL PATCHING AND FINISHING SHALL BE DONE BY THE GENERAL CONTRACTOR.

EQUIPMENT FURNISHED UNDER OTHER SECTIONS

THE CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE ELECTRICAL ROUGHING–IN AND CONNECTION TO ALL EQUIPMENT FURNISHED UNDER OTHER SECTIONS AS INDICATED ON DRAWINGS. THE CONTRACTOR SHALL VERIFY AND INSTALL PROPER SIZE SERVICE AS REQUIRED FOR ALL ACTUAL EQUIPMENT PURCHASED. ALL SUCH EQUIPMENT SHALL BE SET IN PLACE AS WORK OF OTHER SECTIONS.

FIRE ALARM SYSTEM

CONTRACTOR SHALL FURNISH AND INSTALL FIRE DETECTION SYSTEM AS REQUIRED BY THE NATIONAL FIRE PROTECTION ASSOCIATION. SYSTEM SHALL HAVE VISUAL AND HORN NOTIFICATION. FIRE DETECTION SYSTEM SHALL HAVE ALARM BELLS/HORNS AS REQUIRED BY LOCAL FIRE MARSHALL OR A.H.J.. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY DRAWINGS TO OBTAIN PERMITS FOR FIRE SYSTEM INSTALLATION. AN ELECTRONIC AUTOCAD FILE OF THE FLOOR PLAN WILL BE PROVIDED TO THE CONTRACTOR FOR LOCATING ALL FIRE DETECTION SYSTEM ALARM BELLS, PULL STATIONS, CONTROL PANELS, ETC. ALL FIRE ALARM CONTRACTORS MUST SUBMIT THROUGH A BIDDING ELECTRICAL CONTRACTOR WHO SHALL INCLUDE ALL BOXES, CONDUIT, WIRE, ETC. TO COMPLETE THE FIRE ALARM PACKAGE. THE ALARM CONTRACTOR IS REQUIRED TO SUBMIT TO THE ARCHITECT AND THE LOCAL CITY FIRE INSPECTOR SHOP DRAWINGS OF THE CODE COMPLIANT SYSTEM STAMPED BY A QUALIFIED FIRE ALARM ENGINEER/DESIGNER ACCEPTABLE TO THE LOCAL FIRE INSPECTOR.

GROUNDING

PROVIDE GROUNDING AND BONDING SYSTEMS IN STRICT ACCORDANCE WITH THE LATEST ACCEPTED PUBLISHED EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C. 2017), EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE SPECIFIED HEREIN. INTER–CONNECTION OF NEUTRAL AND GROUND IS NOT PERMITTED EXCEPT AT SERVICE ENTRANCE EQUIPMENT. INSTALL GROUNDING CONDUCTORS TO PERMIT SHORTEST AND MOST DIRECT PATH TO GROUND. CONCEALED JOINTS SHALL BE MADE BY CADWELD METHOD. WHERE GROUNDING CONDUCTORS ARE IN RACEWAY, BOND CONDUCTOR AND RACEWAY AT BOTH ENDS. GROUNDING AND BONDING FITTINGS USED SHALL BE UL LISTED AND BE COMPATIBLE WITH METALS USED IN SYSTEM. SHEET METAL TYPE STRAP ARE NOT ACCEPTABLE.

A GREEN INSULATED GROUND CONDUCTOR SHALL BE RUN IN ALL BRACH CIRCUIT AND FEEDER CONDUIT WITH PHASE AND/OR NEUTRAL CONDUCTORS. GROUND CONDUCTOR SHALL BE SIZED PER NEC OR AS NOTED ON DRAWINGS. MINIMUM SIZE #12 AWG. CONDUIT BOX TO DEVICE STRAP OR YOKE SCREW CONNECTION IS NOT SUFFICIENT. PROVIDE AN INSULATED GROUNDING JUMPER FOR RECEPTACLE CIRCUITS.

GUARANTEE AND SERVICE

UPON COMPLETION OF ALL TESTS AND ACCEPTANCE, THE CONTRACTOR SHALL FURNISH THE OWNER OF A WRITTEN GUARANTEE COVERING THE ELECTRICAL WORK DONE FOR A PERIOD OF TWO (2) YEARS FROM DATE OF ACCEPTANCE. GUARANTEE INCLUDES EQUIPMENT CAPACITY AND PERFORMANCE RATINGS SPECIFIED WITHOUT EXCESSIVE NOISE LEVELS. UPON NOTICE FROM THE ARCHITECT OR THE OWNER, THE CONTRACTOR SHALL, DURING THE GUARANTEE PERIOD, RECTIFY AND REPLACE ANY DEFECTIVE MATERIAL OR WORKMANSHIP AND REPAIR ANY DAMAGE CAUSED THEREBY WITHOUT ADDITIONAL COST.

PART 2 – PRODUCTS

GENERAL

ALL EQUIPMENT AND MATERIALS SHALL HAVE RATINGS ESTABLISHED BY THE RECOGNIZED INDEPENDENT AGENCY OR LABORATORY. THE CONTRACTOR SHALL APPLY THE ITEMS USED ON THE PROJECT WITHIN THE RATINGS AND SUBJECT TO ANY STIPULATIONS OR EXCEPTIONS ESTABLISHED BY THE INDEPENDENT AGENCY OR LABORATORY. USE OF EQUIPMENT OR MATERIALS IN APPLICATIONS BEYOND THAT CERTIFIED BY THE AGENCY OR BEYOND THAT RECOMMENDED BY THE MANUFACTURER SHALL BE CAUSE FOR REMOVAL AND REPLACEMENT OF SUCH MISAPPLIED ITEMS.

RACEWAY AND FITTINGS

CONDUIT SYSTEMS: ACCEPTABLE TYPES OF CONDUIT:

HOT DIPPED GALVANIZED RIGID STEEL (GRS)	(1/2" MIN. TRADE SIZE)
ELECTRICAL METALLIC TUBING (EMT)	(1/2" MIN. TRADE SIZE)
POLYVINYL CHLORIDE – SCHEDULE 40 (PVC 40)	(1/2" MIN. TRADE SIZE)
FLEXIBLE METALLIC CONDUIT (FLEX)	(1/2" MIN. TRADE SIZE)
LIQUID TIGHT FLEXIBLE METALLIC CONDUIT (LQFLEX)	(1/2" MIN. TRADE SIZE)
MC METAL CLAD CABLE (MC)	(#12AWG MIN TRADE SIZE)

CABLE TRAY AND FITTINGS (NOT IN CONTRACT)
24" WIDE WITH 6" SIDE RAIL AND 5" LOADING DEPTH AND FITTINGS
36" WIDE WITH 6" SIDE RAIL AND 5" LOADING DEPTH AND FITTINGS

EMT OR GRS SHALL BE THE MAIN HOME RUN RACEWAY FOR ELECTRICAL CIRCUITS FROM PANELBOARDS TO ELECTRICAL DEVICES AND/OR JUNCTION BOX. MC CABLE CAN BE USED AS A SECONDARY INTERIOR CIRCUIT RACEWAY FROM THE MAIN HOME RUN JUNCTION BOX TO RECEPTACLES AND/OR LIGHT FIXTURE. CONDUITS INSTALLED IN EARTH FILL, IN CONCRETE, OR IN SOLID MASONRY STRUCTURES SHALL BE PVC 40. WHERE PVC 40 IS USED, THE 90° ELBOWS RISING ABOVE GRADE OR EXTENDING THROUGH THE CONCRETE ENVELOPE SHALL BE GRS. CONDUITS INSTALLED IN MOIST AND/OR DAMP LOCATIONS SHALL BE PVC 40. CONDUITS SUBJECT TO MECHANICAL INJURY SHALL BE GRS. CONDUITS RUN CONCEALED IN THE HOLLOW SPACE OF NON–MASONRY WALL OR ABOVE SUSPENDED CEILINGS SHALL BE EMT. IN ALL CASES, CONDUITS/MC SHALL BE RUN AT RIGHT ANGLES TO OR PARALLEL WITH BUILDING LINES AND EXPOSED STRUCTURE. IN ALL CASES, CONDUIT/MC RUNS SHALL BE GROUPED TOGETHER WHERE POSSIBLE AND SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE, NOT FOR ANY SUSPENDED CEILING SUPPORT SYSTEM.

CONDUCTORS: ALL LOW VOLTAGE CONDUCTORS SHALL BE INSTALLED IN CONDUIT/MC. CONDUCTORS FOR BUILDING WIRING SHALL HAVE THHN/THWN, 600 VOLT INSULATION AND SHALL BE SOFT–DRAWN COPPER OF STANDARD AMERICAN WIRE GAUGE (AWG) SIZE. MINIMUM SIZE SHALL BE NO. 12. ALL WIRE NO. 8 AND LARGER SHALL BE STRANDED. ALL BRANCH CIRCUITS NO. 10 AND SMALLER SHALL BE WIRED WITH COLOR–CODED WIRE WITH THE SAME COLOR USED FOR A SYSTEM THROUGHOUT THE BUILDING. POWER FEEDERS AND BRANCH CIRCUITS LARGER THAN NO. 10 SHALL EITHER BE FULLY COLOR CODED OR SHALL HAVE BLACK INSULATION AND BE SIMILARLY COLOR CODED WITH TAPE OR PAINT IN ALL JUNCTION BOXES AND PANELS. TAPE OR PAINT SHALL COMPLETELY COVER THE FULL VISIBLE LENGTH OF CONDUCTOR INSULATION WITHIN THE BOX OR PANEL. COLOR CODING OF ALL CONDUCTORS SHALL BE AS FOLLOWS:

GROUNDING:	BARE, GREEN OR GREEN W/YELLOW STRIP
120/208V 3ø CONDUCTORS:	øA–BLACK, øB–RED, øC–BLUE
277/480V 3ø CONDUCTORS:	øA–BROWN, øB–ORANGE, øC–YELLOW
120/208V NEUTRAL:	WHITE
277/480V NEUTRAL:	GRAY

MEDIUM VOLTAGE CONDUCTORS SHALL BE IDENTIFIED BY THE INSULATION TYPE, EPR/PVC, AND RATING, MANUFACTURER LABEL, VOLTAGE RATING. PHASE COLOR SHALL BE ADDED BY THE CONTRACTOR AT THE TIME OF INSULATION TO HELP KEEP THE PHASES IN THE CORRECT INSTALLATION ORDER.

PART 3 – EXECUTION

PAINTING

CONTRACTOR SHALL TOUCH–UP OR REFINISH ALL ITEMS OF ELECTRICAL EQUIPMENT FURNISHED WITH A FACTORY FINISH COAT OF PAINT AND WHICH MAY HAVE BEEN DAMAGED REGARDLESS OF CAUSE.

TESTING AND BALANCING

BALANCE ALL SINGLE PHASE LOADS CONNECTED TO ALL PANELBOARDS TO ENSURE AN APPROXIMATE EQUAL DIVISION ON THESE LOADS ON MAIN POWER SUPPLY SERVING BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARDS OF THE IEEE AND THE NEC. THE INSTALLATION SHALL BE TESTED FOR PERFORMANCE, GROUNDS AND INSULATION RESISTANCE. "MEGGER" TYPE INSTRUMENTS SHALL BE USED. CONTRACTOR SHALL PERFORM CIRCUIT CONTINUITY AND OPERATIONAL TESTS ON ALL EQUIPMENT FURNISHED OR CONNECTED BY CONTRACTOR. THE TESTS SHALL BE MADE PRIOR TO FINAL INSPECTION. THE CONTRACTOR SHALL PROVIDE ALL TESTING EQUIPMENT AND ALL COSTS SHALL BE BORNE BY HIM. WRITTEN REPORTS SHALL BE MADE OF ALL TESTS. THESE REPORTS SHALL BE TURNED OVER TO THE ARCHITECT AT TIME OF FINAL INSPECTION. ALL FAULTS SHALL BE CORRECTED IMMEDIATELY.

CLEANING UP

THE CONTRACTOR SHALL REMOVE ALL OIL, GREASE, OR OTHER STAINS RESULTING FROM HIS WORK PERFORMED IN THE BUILDING OR THE EXTERIOR THEREOF.

REV.	DESCRIPTION	DATE	BY	CHK'D
C	FIRE ALARM REQUIREMENT REMOVED	10/29/26	WES	JJM
B	ITEMS NOT IN CONTRACT. TEMP POWER ADDED	10/22/26	WES	JJM
A	ISSUED FOR BID	09/11/26	WES	JJM

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PROJECT
McDUFFIE COAL TERMINAL
NEW EAST ELECTRICAL BUILDING

McDUFFIE COAL TERMINAL
MOBILE, ALABAMA

TITLE
ELECTRICAL SPECIFICATION

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DATE 05/27/26 22x34 REV. C

DRAWING NUMBER 4643E–E10