MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2025-027
Item to be Scouted	Lighting and Appliance Panelboards
Days to be scouted	15
Response Due By	02/13/2025
Description	Circuit breaker type lighting and appliance branch circuit panelboards as shown on drawings.
Notify Requester Immediately	No
State item to be used in	Alabama

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Designing and engineering the panel layout, cutting and preparing the metal enclosure, bending and shaping the metal pieces to create the panel enclosure, punching holes for mounting components and wire entry points, applying finishes, installing electrical components like breakers and bus bars, wiring connections, quality testing, and final assembly.
Provide dimensions / size / tolerances / performance specifications for the item	Please see attached information sheet for list of specifications, dimensions, etc.
List required materials needed to make the product, including materials of product components	Incoming feeder lugs, cooper conductors, filler plates, wiring terminals, pressure wire connectors, ground bus, insulated neutral bus, paint, galvanized steel, and self adjusting trim clamps.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other stndards, requirements, etc.?	Yes
Details	NECA 407 - Recommended Practice for Installing and Maintaining Panelboards NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum) NEMA AB 1 - Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit Breaker Enclosures NEMA PB 1 - Panelboards NEMA PB 1.1 - General Instructions for Proper Installation, Operation, and Maintenance of Panelboards Rated 600 Volts or Less NFPA 70 - National Electrical Code UL 50 - Enclosures for Electrical Equipment UL 67 - Panelboards UL 486A-486B - Wire Connectors UL 489 - Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit Breaker Enclosures UL 869A - Reference Standard for Service Equipment
NAICS 1	335313 Switchgear and switchboard apparatus manufacturing
NAICS 2	
Additional Technical Comments	Products shall comply with BABBA.

Section 4: Business Information

Estimated potential business volume	One-time purchase of 4 Lighting/appliance panelboards
Estimated target price / unit cost information (if unavailable explain)	As this is related to BABA, acceptable pricing is to be determined in negotiation.
When is it needed by?	9/1/2025
Describe packaging requirements	Store in clean, dry space. Maintain factory wrapping or provide additional canvas or plastic cover to protect from dirt, water, construction debris, and traffic.
Where will this item be shipped?	Tuscaloosa, Alabama

Additional Comments

Is there other information you would like to include?	State of Alabama, University of Alabama For information related to BABBA requirements please contact: University of Alabama Joshua Bollinger- Senior Project Manager, Construction Administration jsbollinger@ua.edu

CTHP1

MAIN TYPE: MCB | MAIN RATING: 100 A | BUS RATING: 100 A
VOLTAGE: 480 Delta | 3 PHASE | 3 WIRE | MOUNTING: Surface | ENCLOSURE: Type 1
LOCATION: LEVEL 01, | FED FROM: CTDP-1 | SCCR: 35 kA | CALCULATED AVAILABLE FAULT...: 19.0 kA

REMARKS:

DESCRIPTION	BRKR NOTES	BRKR AMP	POLES	CKT NO	LEFT SIDE, kVA A	B	C	RIGHT SIDE, kVA A	B	C	CKT NO	POLES	BRKR AMP	BRKR NOTES	DESCRIPTION
SPARE		20 A	3	1	0.00			--			2	1	--		SPACE
--	--	--	--	3		0.00			--		4	1	--		SPACE
--	--	--	--	5			0.00			--	6	1	--		SPACE
SPARE		20 A	3	7	0.00			--			8	1	--		SPACE
--	--	--	--	9		0.00			--		10	1	--		SPACE
--	--	--	--	11			0.00			--	12	1	--		SPACE
SPARE		20 A	3	13	0.00			--			14	1	--		SPACE
--	--	--	--	15		0.00			--		16	1	--		SPACE
--	--	--	--	17			0.00			--	18	1	--		SPACE
SPACE		--	1	19	--			--			20	1	--		SPACE
SPACE		--	1	21		--			--		22	1	--		SPACE
SPACE		--	1	23			--			--	24	1	--		SPACE
SPACE		--	1	25	--			--			26	1	--		SPACE
SPACE		--	1	27		--			--		28	1	--		SPACE
SPACE		--	1	29			--			--	30	1	--		SPACE
SPACE		--	1	31	--			--			32	1	--		SPACE
SPACE		--	1	33		--			--		34	1	--		SPACE
SPACE		--	1	35			--			--	36	1	--		SPACE
SPACE		--	1	37	--			--			38	1	--		SPACE
SPACE		--	1	39		--			--		40	1	--		SPACE
SPACE		--	1	41			--			--	42	1	--		SPACE

	A	B	C
PHASE SUBTOTAL (kVA)	0.00 kVA	0.00 kVA	0.00 kVA
PHASE SUBTOTAL (AMPS)	0 A	0 A	0 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	0.00 kVA	100%	0.00 kVA
LIGHTING	0.00 kVA	100%	0.00 kVA
MOTOR	0.00 kVA	125% LARGEST, 100% OTHER	0.00 kVA
RECEPTACLE	0.00 kVA	100% FIRST 10KVA, 50% OTHER	0.00 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	0.00 kVA		0.00 kVA
TOTAL AMPS	0 A		0 A

3

2SPL1

MAIN TYPE: MCB | MAIN RATING: 100 A | BUS RATING: 100 A
VOLTAGE: 120/208 Wye | 3 PHASE | 4 WIRE | MOUNTING: Recessed | ENCLOSURE: Type 1
LOCATION: LAB BUILD/TEST/BURN-IN 239 | FED FROM: 1SPL1 | SCCR: 10 kA | CALCULATED AVAILABLE FAULT...: 4.3 kA

REMARKS:

DESCRIPTION	BRKR NOTES	BRKR AMP	POLES	CKT NO	LEFT SIDE, kVA A	B	C	RIGHT SIDE, kVA A	B	C	CKT NO	POLES	BRKR AMP	BRKR NOTES	DESCRIPTION
REC - LAB BUILD/TEST #2011		20 A	1	1	0.18			1.00			2	1	20 A		BAS CONTROL PANEL - CUP
REC - LEADERSHIP CLASS #2016		20 A	1	3		0.90			0.50		4	1	20 A		BAS CONTROL PANEL - CUP
REC - SMR LAB BUILD/TEST #2011		20 A	1	5			0.72			0.50	6	1	20 A		BAS CONTROL PANEL - HPC ELEC
REC - SMR LAB BUILD/TEST #2011		30 A	2	7	1.00			0.00			8	1	20 A		SPARE
--	--	--	--	9		1.00			0.00		10	1	20 A		SPARE
REC - SMR LAB BUILD/TEST #2011		30 A	2	11			1.00			0.00	12	1	20 A		SPARE
--	--	--	--	13	1.00			0.00			14	1	20 A		SPARE
REC - SMR LAB BUILD/TEST #2011		30 A	2	15		1.00			0.00		16	1	20 A		SPARE
--	--	--	--	17			1.00			0.00	18	1	20 A		SPARE
SPARE		20 A	1	19	0.00			0.00			20	1	20 A		SPARE
SPARE		20 A	1	21		0.00			0.00		22	1	20 A		SPARE
SPARE		20 A	1	23			0.00			0.00	24	1	20 A		SPARE
SPARE		20 A	1	25	0.00			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPARE		20 A	1	37	0.00			0.00			38	1	20 A		SPARE
SPARE		20 A	1	39		0.00			0.00		40	1	20 A		SPARE
SPARE		20 A	1	41			0.00			0.00	42	1	20 A		SPARE

	A	B	C
PHASE SUBTOTAL (kVA)	3.18 kVA	3.40 kVA	3.22 kVA
PHASE SUBTOTAL (AMPS)	27 A	28 A	27 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	0.00 kVA	100%	0.00 kVA
LIGHTING	0.00 kVA	100%	0.00 kVA
MOTOR	0.00 kVA	125% LARGEST, 100% OTHER	0.00 kVA
RECEPTACLE	9.80 kVA	100% FIRST 10KVA, 50% OTHER	9.80 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	9.80 kVA		9.80 kVA
TOTAL AMPS	27 A		27 A

1EPL1

MAIN TYPE: MCB | MAIN RATING: 70 A | BUS RATING: 100 A
VOLTAGE: 120/208 Wye | 3 PHASE | 4 WIRE | MOUNTING: Surface | ENCLOSURE: Type 1
LOCATION: LEVEL 01,HPC ELECTRICAL... | FED FROM: 1EH-INV | SCCR: 14 kA | CALCULATED AVAILABLE FAULT...: < 1 kA

REMARKS: FA - BREAKER SERVES FIRE ALARM SYSTEM (RED WITH LOCK-ON ATTACHMENT)

DESCRIPTION	BRKR NOTES	BRKR AMP	POLES	CKT NO	LEFT SIDE, kVA A	B	C	RIGHT SIDE, kVA A	B	C	CKT NO	POLES	BRKR AMP	BRKR NOTES	DESCRIPTION
FA CONTROL PANEL - RM #1004	FA	20 A	1	1	0.50			0.97			2	1	20 A		LIGHTS - LEVEL 1 - EQPM ROOMS
FA NAC PANEL - RM #1004	FA	20 A	1	3		0.50			0.72		4	1	20 A		LIGHTS - LEVEL 1 - EQPM ROOMS
SPARE		20 A	1	5			0.00			0.37	6	1	20 A		LIGHTS - LEVEL 1 - CIRCULATION
ASD POWER SUPPLY - RM #1004	FA	20 A	1	7	0.50			0.17			8	1	20 A		LIGHTS - STAIR #2
ASD POWER SUPPLY - RM #1017	FA	20 A	1	9		0.50			0.24		10	1	20 A		LIGHTS - STAIR #2
ASD POWER SUPPLY - RM #1018	FA	20 A	1	11			0.50			0.48	12	1	20 A		LIGHTS - LEVEL 2
ASD POWER SUPPLY - RM #2016	FA	20 A	1	13	0.50			0.38			14	1	20 A		LIGHTS - LEVEL 2
PREACTION - N2 GEN - RM #1015	FA	30 A	1	15		2.00			0.07		16	1	20 A		LIGHTS - L2 - FUTURE SCIF
PREACTION - CTRL - RM #1015	FA	20 A	1	17			0.50			0.58	18	1	20 A		LIGHTS - EXTERIOR
FA NAC PANEL - RM #2008A	FA	20 A	1	19	0.50			0.11			20	1	20 A		LIGHTS - ENTRPZ DC HVAC - SHELL
SPARE		20 A	1	21		0.00			0.11		22	1	20 A		LIGHTS - ENTRPZ DC - SHELL
ERRCS - RM #1004		20 A	1	23			0.50			0.00	24	1	20 A		SPARE
REFRIG PURGE CTRL - CUP		20 A	1	25	0.50			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
EF-3 (REFRIG PURGE)		15 A	3	29			0.94			0.00	30	1	20 A		SPARE
--	--	--	--	31	0.94			0.00			32	1	20 A		SPARE
--	--	--	--	33		0.94			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPARE		20 A	1	37	0.00			0.00			38	1	20 A		SPARE
SPARE		20 A	1	39		0.00			0.00		40	1	20 A		SPARE
SPARE		20 A	1	41			0.00			0.00	42	1	20 A		SPARE

	A	B	C
PHASE SUBTOTAL (kVA)	5.06 kVA	5.08 kVA	3.85 kVA
PHASE SUBTOTAL (AMPS)	44 A	44 A	32 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	5.50 kVA	100%	5.50 kVA
LIGHTING	4.07 kVA	100%	4.07 kVA
MOTOR	2.81 kVA	125% LARGEST, 100% OTHER	3.51 kVA
RECEPTACLE	1.50 kVA	100% FIRST 10KVA, 50% OTHER	1.50 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	13.99 kVA		14.69 kVA
TOTAL AMPS	39 A		41 A

CTLP1

MAIN TYPE: MCB | MAIN RATING: 100 A | BUS RATING: 100 A
VOLTAGE: 120/208 Wye | 3 PHASE | 4 WIRE | MOUNTING: Surface | ENCLOSURE: Type 1
LOCATION: LEVEL 01, | FED FROM: T-CTLP1 | SCCR: 10 kA | CALCULATED AVAILABLE FAULT...: 1.77 kA

REMARKS: EG - EQUIPMENT GROUND FAULT PROTECTION (30 mA)

DESCRIPTION	BRKR NOTES	BRKR AMP	POLES	CKT NO	LEFT SIDE, kVA A	B	C	RIGHT SIDE, kVA A	B	C	CKT NO	POLES	BRKR AMP	BRKR NOTES	DESCRIPTION
HEAT TRACE CONTROL CT-1	EG	20 A	2	1	1.00			0.50			2	1	20 A		PAD-MOUNT MV SWITCH CTRLS
--	--	--	--	3		1.00			2.00		4	1	20 A		DS-GSA AUX POWER
HEAT TRACE CONTROL CT-2 - ALT.	EG	20 A	2	5			1.00			2.00	6	1	20 A		CT1 COND WTR VALVE
--	--	--	--	7	1.00			2.00			8	1	20 A		CT2 COND WTR VALVE
HEAT TRACE CONTROL 24" TWS	EG	20 A	1	9		1.40			0.36		10	1	20 A		EQUIP YRD SEC CAMERAS
REC - WALK-IN EQUIP ENCLOSURE		20 A	1	11			0.54			0.00	12	1	20 A		SPARE
REC - EQUIPMENT YARD		20 A	1	13	1.08			0.00			14	1	20 A		SPARE
LTS - EQUIPMENT YARD		20 A	1	15		0.24			0.00		16	1	20 A		SPARE
LTS - WALK-IN EQUIP ENCLOSURE		20 A	1	17			0.11			0.00	18	1	20 A		SPARE
SPARE		20 A	1	19	0.00			0.00			20	1	20 A		SPARE
SPARE		20 A	1	21		0.00			0.00		22	1	20 A		SPARE
SPARE		20 A	1	23			0.00			0.00	24	1	20 A		SPARE
SPARE		20 A	1	25	0.00			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPACE		--	1	37	--			--			38	1	--		SPACE
SPACE		--	1	39		--			--		40	1	--		SPACE
SPACE		--	1	41			--			--	42	1	--		SPACE

	A	B	C
PHASE SUBTOTAL (kVA)	5.58 kVA	5.00 kVA	3.65 kVA
PHASE SUBTOTAL (AMPS)	48 A	43 A	30 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	11.90 kVA	100%	11.90 kVA
LIGHTING	0.35 kVA	100%	0.35 kVA
MOTOR	0.00 kVA	125% LARGEST, 100% OTHER	0.00 kVA
RECEPTACLE	1.98 kVA	100% FIRST 10KVA, 50% OTHER	1.98 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	14.23 kVA		14.23 kVA
TOTAL AMPS	39 A		39 A

1UPHM

MAIN TYPE: MCB | MAIN RATING: 225 A | BUS RATING: 225 A
VOLTAGE: 480 Delta | 3 PHASE | 3 WIRE | MOUNTING: Surface | ENCLOSURE: Type 1
LOCATION: LEVEL 01,CUP ELEC 1010 | FED FROM: UPS MECH | SCCR: 35 kA | CALCULATED AVAILABLE FAULT...: 26.5 kA

REMARKS:

DESCRIPTION	BRKR NOTES	BRKR AMP	POLES	CKT NO	LEFT SIDE, kVA A	B	C	RIGHT SIDE, kVA A	B	C	CKT NO	POLES	BRKR AMP	BRKR NOTES	DESCRIPTION
P-HPCW-1		100 A	3	1	18.01			0.00			2	3	20 A		SPARE
--	--	--	--	3		18.01			0.00		4	--	--	--	--
--	--	--	--	5			18.01			0.00	6	--	--	--	--
P-PCHW-S-1		100 A	3	7	18.01			0.00			8	3	20 A		SPARE
--	--	--	--	9		18.01			0.00		10	--	--	--	--
--	--	--	--	11			18.01			0.00	12	--	--	--	--
SPARE		60 A	3	13	0.00			0.00			14	3	20 A		SPARE
--	--	--	--	15		0.00			0.00		16	--	--	--	--
--	--	--	--	17			0.00			0.00	18	--	--	--	--
SPARE		100 A	3	19	0.00			0.00			20	3	20 A		SPARE
--	--	--	--	21		0.00			0.00		22	--	--	--	--
--	--	--	--	23			0.00			0.00	24	--	--	--	--
SPARE		20 A	3	25	0.00			0.00			26	3	20 A		SPARE
--	--	--	--	27		0.00			0.00		28	--	--	--	--
--	--	--	--	29			0.00			0.00	30	--	--	--	--
SPACE		--	1	31	--			--			32	1	--		SPACE
SPACE		--	1	33		--			--		34	1	--		SPACE
SPACE		--	1	35			--			--	36	1	--		SPACE
SPACE		--	1	37	--			--			38	1	--		SPACE
SPACE		--	1	39		--			--		40	1	--		SPACE
SPACE		--	1	41			--			--	42	1	--		SPACE

	A	B	C
PHASE SUBTOTAL (kVA)	36.03 kVA	36.03 kVA	36.03 kVA
PHASE SUBTOTAL (AMPS)	130 A	130 A	130 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	0.00 kVA	100%	0.00 kVA
LIGHTING	0.00 kVA	100%	0.00 kVA
MOTOR	108.08 kVA	125% LARGEST, 100% OTHER	121.59 kVA
RECEPTACLE	0.00 kVA	100% FIRST 10KVA, 50% OTHER	0.00 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	108.08 kVA		121.59 kVA
TOTAL AMPS	130 A		146 A

1SPH1

MAIN TYPE: MCB | MAIN RATING: 125 A | BUS RATING: 150 A
VOLTAGE: 480/277 Wye | 3 PHASE | 4 WIRE | MOUNTING: Surface | ENCLOSURE: Type 1
LOCATION: CUP ELEC 1010 | FED FROM: T-1SPH1 | SCCR: 14 kA | CALCULATED AVAILABLE FAULT...: 2.3 kA

REMARKS:

DESCRIPTION	BRKR NOTES	BRKR AMP	POLES	CKT NO	LEFT SIDE, kVA A	B	C	RIGHT SIDE, kVA A	B	C	CKT NO	POLES	BRKR AMP	BRKR NOTES	DESCRIPTION
FCU-1010		35 A	3	1	7.57			0.25			2	1	20 A		LIGHTS - L1 - MDF ROOMS
--	--	--	--	3		7.57			0.19		4	1	20 A		LIGHTS - ELEV 1 - SHAFT
--	--	--	--	5			7.57			0.29	6	1	20 A		LIGHTS - ELEV 2 - SHAFT
SPARE		20 A	1	7	0.00			0.00			8	1	20 A		SPARE
SPARE		20 A	1	9		0.00			1.48		10	1	20 A		LIGHTS - CUP/ELEC
SPARE		20 A	1	11			0.00			0.00	12	1	20 A		SPARE
SPARE		20 A	1	13	0.00			0.00			14	1	20 A		SPARE
SPARE		20 A	1	15		0.00			0.00		16	1	20 A		SPARE
SPARE		20 A	1	17			0.00			0.00	18	1	20 A		SPARE
SPARE		20 A	1	19	0.00			0.00			20	1	20 A		SPARE
SPARE		20 A	1	21		0.00			0.00		22	1	20 A		SPARE
SPARE		20 A	1	23			0.00			0.00	24	1	20 A		SPARE
SPARE		20 A	1	25	0.00			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
GEN AUX PNL 1GPLA MTS		80 A	3	37	0.00			0.00			38	1	20 A		SPARE
--	--	--	--	39		0.00			0.00		40	1	20 A		SPARE
--	--	--	--	41			0.00			0.00	42	1	20 A		SPARE

	A	B	C
PHASE SUBTOTAL (kVA)	7.82 kVA	9.24 kVA	7.85 kVA
PHASE SUBTOTAL (AMPS)	28 A	33 A	28 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	0.00 kVA	100%	0.00 kVA
LIGHTING	2.21 kVA	100%	2.21 kVA
MOTOR	0.00 kVA	125% LARGEST, 100% OTHER	0.00 kVA
RECEPTACLE	0.00 kVA	100% FIRST 10KVA, 50% OTHER	0.00 kVA
HEATING	22.70 kVA	100%	22.70 kVA
TOTAL LOAD	24.91 kVA		24.91 kVA
TOTAL AMPS	30 A		30 A

1UPLM

MAIN TYPE: MCB | MAIN RATING: 100 A | BUS RATING: 100 A
VOLTAGE: 120/208 Wye | 3 PHASE | 4 WIRE | MOUNTING: Surface | ENCLOSURE: Type 1
LOCATION: LEVEL 01,CUP ELEC 1010 | FED FROM: T-1UPLM | SCCR: 10 kA | CALCULATED AVAILABLE FAULT...: <1 kA

REMARKS:

DESCRIPTION	BRKR NOTES	BRKR AMP	POLES	CKT NO	LEFT SIDE, kVA A	B	C	RIGHT SIDE, kVA A	B	C	CKT NO	POLES	BRKR AMP	BRKR NOTES	DESCRIPTION
CONTROLS - RTU-2		20 A	1	1	0.50			0.00			2	1	20 A		SPARE
CONTROLS - RTU-1		20 A	1	3		0.50			0.00		4	1	20 A		SPARE
CONTROLS - DOAS-1		20 A	1	5			0.50			0.00	6	1	20 A		SPARE
SPARE		20 A	1	7	0.00			0.00			8	1	20 A		SPARE
SPARE		20 A	1	9		0.00			0.00		10	1	20 A		SPARE
SPARE		20 A	1	11			0.00			0.00	12	1	20 A		SPARE
SPARE		20 A	1	13	0.00			0.00			14	1	20 A		SPARE
SPARE		20 A	1	15		0.00			0.00		16	1	20 A		SPARE
SPARE		20 A	1	17			0.00			0.00	18	1	20 A		SPARE
SPARE		20 A	1	19	0.00			0.00			20	1	20 A		SPARE
SPARE		20 A	1	21		0.00			0.00		22	1	20 A		SPARE
SPARE		20 A	1	23			0.00			0.00	24	1	20 A		SPARE
SPARE		20 A	1	25	0.00			0.00			26	1	20 A		SPARE
SPARE		20 A	1	27		0.00			0.00		28	1	20 A		SPARE
SPARE		20 A	1	29			0.00			0.00	30	1	20 A		SPARE
SPARE		20 A	1	31	0.00			0.00			32	1	20 A		SPARE
SPARE		20 A	1	33		0.00			0.00		34	1	20 A		SPARE
SPARE		20 A	1	35			0.00			0.00	36	1	20 A		SPARE
SPARE		20 A	1	37	0.00			0.00			38	1	20 A		SPARE
SPARE		20 A	1	39		0.00			0.00		40	1	20 A		SPARE
SPARE		20 A	1	41			0.00			0.00	42	1	20 A		SPARE

	A	B	C
PHASE SUBTOTAL (kVA)	0.50 kVA	0.50 kVA	0.50 kVA
PHASE SUBTOTAL (AMPS)	4 A	4 A	4 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	1.50 kVA	100%	1.50 kVA
LIGHTING	0.00 kVA	100%	0.00 kVA
MOTOR	0.00 kVA	125% LARGEST, 100% OTHER	0.00 kVA
RECEPTACLE	0.00 kVA	100% FIRST 10KVA, 50% OTHER	0.00 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	1.50 kVA		1.50 kVA
TOTAL AMPS	4 A		4 A

1SPL1

MAIN TYPE: MCB | MAIN RATING: 250 A | BUS RATING: 250 A
VOLTAGE: 120/208 Wye | 3 PHASE | 4 WIRE | MOUNTING: Surface | ENCLOSURE: Type 1
LOCATION: LEVEL 01,CUP ELEC 1010 | FED FROM: T-1SPL1 | SCCR: 10 kA | CALCULATED AVAILABLE FAULT...: 5.3 kA

REMARKS: EG - EQUIPMENT GROUND FAULT PROTECTION (30 mA)

DESCRIPTION	BRKR NOTES	BRKR AMP	POLES	CKT NO	LEFT SIDE, kVA A	B	C	RIGHT SIDE, kVA A	B	C	CKT NO	POLES	BRKR AMP	BRKR NOTES	DESCRIPTION
REC - ELEV #1 PIT		20 A	1	1	0.18			0.50			2	1	20 A	EG	HEAT TRACE TES TANK
REC - ELEV #1 MACHINE RM #1006		20 A	1	3		0.18			0.15		4	1	20 A	EG	HEAT TRACE RTU-1/2 AND DOAS-1
ELEV CAB LTG - ELEV #1		20 A	1	5			0.18			0.36	6	1	15 A		FCU-1004 - MDF-S
REC - ELEV #2 PIT		20 A	1	7	0.18			0.36			8	1	15 A		FCU-1006 - ELEV 1 MACHINE RM
REC - ELEV #2 MACHINE RM #1014		20 A	1	9		0.18			0.36		10	1	15 A		FCU-1014 - ELEV 2 MACHINE RM
ELEV CAB LTG - ELEV #2		20 A	1	11			0.18			0.36	12	1	15 A		FCU-1017 - MDF-L
REC - CUP ELEC #1010		20 A	1	13	0.72			2.00			14	2	30 A		REC - MDF-S #1004
SMR REC - MDF-S #1004		20 A	1	15		0.72			2.00		16	--	--	--	--
SMR REC - MDF-S #1004		20 A	1	17			0.54			2.00	18	2	30 A		REC - MDF-S #1004
REC - CUP #1011		20 A	1	19	0.90			2.00			20	--	--	--	--
REC - CUP #1011		20 A	1	21		0.90			2.00		22	2	30 A		REC - MDF-L #1017
SMR REC - MDF-L #1017		20 A	1	23			0.90			2.00	24	--	--	--	--
SMR REC - MDF-L #1017		20 A	1	25	0.90			2.00			26	2	30 A		REC - MDF-L #1017
SUMP PUMP ELEV #1		20 A	1	27		1.18			2.00		28	--	--	--	--
SUMP PUMP ELEV #2		20 A	1	29			1.18			2.00	30	2	30 A		REC - MDF-L #1017
REC - HVAC #1019, ELEC #1018 WALL		20 A	1	31	1.08			2.00			32	--	--	--	--
REC - ELEC #1018 UNISTRUT		20 A	1	33		0.72			2.00		34	2	30 A		REC - MDF-L #1017
REC - WAT. ENTRY/FIRE RIS. #1015		20 A	1	35			0.36			2.00	36	--	--	--	--
2SPL1	BL	100 A	3	37	3.18			0.50			38	1	20 A		SITE SEC CAMERAS
--	--	--	--	39		3.40			0.00		40	1	20 A		SPARE
--	--	--	--	41			3.22			0.00	42	1	20 A		SPARE

	A	B	C
PHASE SUBTOTAL (kVA)	16.50 kVA	15.79 kVA	15.28 kVA
PHASE SUBTOTAL (AMPS)	138 A	132 A	127 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	4.31 kVA	100%	4.31 kVA
LIGHTING	0.00 kVA	100%	0.00 kVA
MOTOR	0.50 kVA	125% LARGEST, 100% OTHER	0.56 kVA
RECEPTACLE	42.76 kVA	100% FIRST 10KVA, 50% OTHER	42.76 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	47.57 kVA		47.63 kVA
TOTAL AMPS	132 A		132 A

ALABAMA LICENSED No. 22836 PROFESSIONAL ENGINEER WILLIAM D. HENNER
11/08/2024

HIGH PERFORMANCE COMPUTING AND DATA CENTER

THE UNIVERSITY OF ALABAMA
TUSCALOOSA, ALABAMA

DAVIS
Gensler

OWNER
THE UNIVERSITY OF ALABAMA
1205 14TH STREET / BOX 87023
TUSCALOOSA, ALABAMA 35487
205.348.3573
ATTN: JOSHUA BOLLINGER

ARCHITECT OF RECORD
DAVIS ARCHITECTS, INC.
120 23RD STREET SOUTH
BIRMINGHAM, AL 35233
205-322-7482
ATTN: SKYLAR HOWARD / COURTNEY PITTMAN

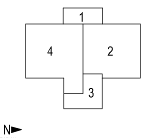
DATA CENTER ARCHITECT
GENSLER
999 PEACHTREE STREET NORTH EAST, SUITE 1400
ATLANTA, GA 30309
410-230-7712
ATTN: NATHANIAL PALL / SHAWN REICHART

MECHANICAL/ ELECTRICAL/PLUMBING/TECHNOLOGY ENGINEER
AFFILIATED ENGINEERS, INC
1414 RALEIGH ROAD, SUITE 305
CHAPLE HILL, NC 27517
919-609-6469
ATTN: BART HOGGE

CIVIL ENGINEER
DUNCAN COKER ASSOCIATES, P.C.
302 MERCHANTS WALK, SUITE 250
TUSCALOOSA, AL 35406
205.561.0808
ATTN: JASON COKER / JC WILHITE

STRUCTURAL ENGINEER
MBA ENGINEERS, INC.
300 20TH STREET NORTH, SUITE 100
BIRMINGHAM, AL 35203
205-909-6040
ATTN: ANDREW MARLIN

LANDSCAPE ARCHITECT
JOHNSON AND COMPANY
2413 2ND AVENUE SOUTH
BIRMINGHAM, AL 35233
205-324-4447
ATTN: WILLIAM JOHNSON



KEY PLAN

REV	DATE	DESCRIPTION
1	09-04-2024	ADDENDUM 2
2	09-20-2024	ADDENDUM 5
3	11-08-2024	ASI #4

DATE: 10-11-2024
PHASE: CONFORMING SET
ISSUED FOR: ASI #4
ISSUED BY: DAVIS & GENSLER | PROJECT NO.: 4014

SHEET TITLE: ELECTRICAL EQUIPMENT SCHEDULES - PANELBOARDS

DRAWING NO.: E608

NOTE: SHEET CONTAINS COLOR ELEMENTS AND MUST BE PRINTED IN COLOR. ARCHITECT IS NOT RESPONSIBLE FOR ERRORS MADE DUE TO IMPROPER PRINTING

1NPL1

MAIN TYPE MCB | **MAIN RATING** 250 A | **BUS RATING** 250 A
VOLTAGE 120/208 Wye | 3 **PHASE** 4 **WIRE** | **MOUNTING** SURFACE | **ENCLOSURE** Type 1
LOCATION LEVEL 01,CUP ELEC 1010 | **FED FROM** T-1NPL1 | **SCCR** 10 kA | **CALCULATED AVAILABLE FAULT...** 5.3 kA

REMARKS:

LEFT SIDE, kVA						RIGHT SIDE, kVA										
DESCRIPTION	BRKR NOTES	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	BRKR NOTES	DESCRIPTION
EWH-1 - CUSTODIAL #1009		40 A 2	1	3.00			0.90			2	1 20 A		SMR REC - MDF-S #1004
--	--	-- --	3		3.00			0.72		4	1 20 A		SMR REC - MDF-S #1004
PP-2 - CUSTODIAL #1009		15 A 1	5			0.60			1.08	6	1 20 A		SMR REC - MDF-L #1017
REC - #1001, #1002		20 A 1	7	0.72			0.90			8	1 20 A		SMR REC - MDF-L #1017
REC - #1003		20 A 1	9		0.72			0.50		10	1 20 A		UV LIGHTS - DOAS-1
REC - BR #1007, #1008, JAN. #1009		20 A 1	11			0.54			0.50	12	1 20 A		UV LIGHTS - RTU-1
REC - #C002		20 A 1	13	0.54			1.50			14	1 20 A		DAMPERS - DOAS-1
REC - #C001A, 1001, 1005		20 A 1	15		0.72			0.50		16	1 20 A		OIL SEPARATOR CTRL - CUP
REC - HPC HVAC #1019		20 A 1	17			0.54			0.36	18	1 20 A		REC - ENTRPZ DC HVAC - SHELL
REC - HPC ELEC #1018 WALL		20 A 1	19	0.54			0.27			20	1 20 A		LIGHTS - L1 - RESTROOMS
LIGHTS - HPC ELEC #1018 UNISTRUT		20 A 1	21		0.72			0.46		22	1 20 A		LIGHTS - L2 - RESTROOMS/NURSING
REC - CUP #1011		20 A 1	23			1.44			0.50	24	1 20 A		LIGHTS/RECS - DOAS-1
WATER FOUNTAIN - CORR. #C003	GF	20 A 1	25	0.50			0.00			26	1 20 A		SPARE
REC - #1013, #1012, #1015		20 A 1	27		1.26			0.00		28	1 20 A		SPARE
REC - CORR. #C003		20 A 1	29			1.08			0.00	30	1 20 A		SPARE
REC - EAST EXTERIOR		20 A 1	31	0.72			8.86			32	3 100 A	BL	1NPL2
EF-1		20 A 1	33		0.70			5.51		34	-- --	--	--
EF-2		20 A 1	35			1.18			5.51	36	-- --	--	--
REC - CUP ELEC. #1010		20 A 1	37	0.72			8.56			38	3 100 A	BL	2NPL1
LIGHTS/RECS - RTU-1 & 2		20 A 1	39		1.00			8.84		40	-- --	--	--
UV LIGHTS - RTU-2		20 A 1	41			0.50			6.76	42	-- --	--	--

	A	B	C
PHASE SUBTOTAL (kVA)	27.73 kVA	24.65 kVA	20.59 kVA
PHASE SUBTOTAL (AMPS)	236 A	211 A	172 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	24.50 kVA	100%	24.50 kVA
LIGHTING	0.74 kVA	100%	0.74 kVA
MOTOR	7.36 kVA	125% LARGEST, 100% OTHER	7.98 kVA
RECEPTACLE	40.02 kVA	100% FIRST 10KVA, 50% OTHER	40.02 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	72.98 kVA		73.60 kVA
TOTAL AMPS	203 A		204 A

1NPH1

MAIN TYPE MCB | **MAIN RATING** 100 A | **BUS RATING** 100 A
VOLTAGE 480/277 Wye | 3 **PHASE** 4 **WIRE** | **MOUNTING** Surface | **ENCLOSURE** Type 1
LOCATION CUP ELEC 1010 | **FED FROM** T-1NPH1 | **SCCR** 14 kA | **CALCULATED AVAILABLE FAULT...** 2.3 kA

REMARKS:

LEFT SIDE, kVA						RIGHT SIDE, kVA										
DESCRIPTION	BRKR NOTES	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	BRKR NOTES	DESCRIPTION
LIGHTS - L1 - HPC ELEC		20 A 1	1	1.40						2			
LIGHTS - L1 - LOADING DOCK		20 A 1	3		1.16					4			
LIGHTS - CUP		20 A 1	5			1.67				6			
LIGHTS - LOBBY		20 A 1	7	1.60						8			
LIGHTS - L1 SHELL (FUTURE)		20 A 1	9		0.00					10			
LIGHTS - L2 - CORR/OFFICE		20 A 1	11			1.53				12			
LIGHTS - L2 - DATA HALL		20 A 1	13	2.13						14			
LIGHTS - L2 - DATA HALL		20 A 1	15		2.13					16			
LIGHTS - L2 - CONF/LAB/NOC		20 A 1	17			1.31				18			
LIGHTS - L2 - SHELL		20 A 1	19	0.18						20			
LIGHTS - EXTERIOR		20 A 1	21		2.14					22			
LIGHTS - ENTRPZ DC HVAC - SHELL		20 A 1	23			0.29				24			
LIGHTS - ENTRPZ DC - SHELL		20 A 1	25	0.25						26			
			27							28			
			29							30			
			31							32			
			33							34			
			35							36			
SPACE		-- 1	37	--			--			38	1 --		SPACE
SPACE		-- 1	39		--			--		40	1 --		SPACE
SPACE		-- 1	41			--			--	42	1 --		SPACE

	A	B	C
PHASE SUBTOTAL (kVA)	5.56 kVA	5.43 kVA	4.80 kVA
PHASE SUBTOTAL (AMPS)	20 A	20 A	17 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	0.00 kVA	100%	0.00 kVA
LIGHTING	15.53 kVA	100%	15.53 kVA
MOTOR	0.00 kVA	125% LARGEST, 100% OTHER	0.00 kVA
RECEPTACLE	0.00 kVA	100% FIRST 10KVA, 50% OTHER	0.00 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	15.78 kVA		15.78 kVA
TOTAL AMPS	19 A		19 A

1NPL2

MAIN TYPE MCB | **MAIN RATING** 100 A | **BUS RATING** 100 A
VOLTAGE 120/208 Wye | 3 **PHASE** 4 **WIRE** | **MOUNTING** SURFACE | **ENCLOSURE** Type 1
LOCATION CUP ELEC 1010 | **FED FROM** 1NPL1 | **SCCR** 10 kA | **CALCULATED AVAILABLE FAULT...** 5.2 kA

REMARKS:

LEFT SIDE, kVA						RIGHT SIDE, kVA										
DESCRIPTION	BRKR NOTES	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	BRKR NOTES	DESCRIPTION
EV CHARGING STATION 1		40 A 2	1	3.35			0.50			2	1 20 A		IRRIGATION CONTROLLER
--	--	-- --	3		3.35			0.50		4	1 20 A		VEHICLE RSTRNT CTRL - DOCK
EV CHARGING STATION 2		40 A 2	5			3.35			0.50	6	1 20 A		VEHICLE RSTRNT CTRL - DOCK
--	--	-- --	7	3.35			0.00			8	1 20 A		SPARE
SPARE		20 A 1	9		0.00			0.00		10	1 20 A		SPARE
SPARE		20 A 1	11			0.00			0.00	12	1 20 A		SPARE
DOCK LEVELER 1		15 A 3	13	0.83			0.00			14	1 20 A		SPARE
--	--	-- --	15		0.83			0.00		16	1 20 A		SPARE
--	--	-- --	17			0.83			0.00	18	1 20 A		SPARE
DOCK LEVELER 2		15 A 3	19	0.83			0.00			20	1 20 A		SPARE
--	--	-- --	21		0.83			0.00		22	1 20 A		SPARE
--	--	-- --	23			0.83			0.00	24	1 20 A		SPARE
SPACE		-- 1	25	--			--			26	1 --		SPACE
SPACE		-- 1	27		--			--		28	1 --		SPACE
SPACE		-- 1	29			--			--	30	1 --		SPACE
SPACE		-- 1	31	--			--			32	1 --		SPACE
SPACE		-- 1	33		--			--		34	1 --		SPACE
SPACE		-- 1	35			--			--	36	1 --		SPACE
SPACE		-- 1	37	--			--			38	1 --		SPACE
SPACE		-- 1	39		--			--		40	1 --		SPACE
SPACE		-- 1	41			--			--	42	1 --		SPACE

	A	B	C
PHASE SUBTOTAL (kVA)	8.86 kVA	5.51 kVA	5.51 kVA
PHASE SUBTOTAL (AMPS)	74 A	46 A	46 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	13.40 kVA	100%	13.40 kVA
LIGHTING	0.00 kVA	100%	0.00 kVA
MOTOR	5.48 kVA	125% LARGEST, 100% OTHER	6.10 kVA
RECEPTACLE	1.00 kVA	100% FIRST 10KVA, 50% OTHER	1.00 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	19.88 kVA		20.50 kVA
TOTAL AMPS	55 A		57 A

1NPHM1

MAIN TYPE MCB | **MAIN RATING** 250 A | **BUS RATING** 250 A
VOLTAGE 480 Delta | 3 **PHASE** 3 **WIRE** | **MOUNTING** Surface | **ENCLOSURE** Type 1
LOCATION LEVEL 01,CUP ELEC 1010 | **FED FROM** SWBD M1 | **SCCR** 50 kA | **CALCULATED AVAILABLE FAULT...** 40.1 kA

REMARKS:

LEFT SIDE, kVA						RIGHT SIDE, kVA										
DESCRIPTION	BRKR NOTES	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	BRKR NOTES	DESCRIPTION
CHILLED WATER PUMP LT-1		30 A 3	1	3.05			3.00			2	3 20 A		AT-C001, 1001 & 1002 - LOBBY
--	--	-- --	3		3.05			3.00		4	-- --	--	--
--	--	-- --	5			3.05			3.00	6	-- --	--	--
CHILLED WATER PUMP LT-2		30 A 3	7	3.05			3.67			8	3 20 A		AT-1012 - STAGING 1012
--	--	-- --	9		3.05			3.67		10	-- --	--	--
--	--	-- --	11			3.05			3.67	12	-- --	--	--
DOAS-1		40 A 3	13	6.10			2.17			14	3 15 A		AT-C003-1 & 2 - LEVEL 1 CORR
--	--	-- --	15		6.10			2.17		16	-- --	--	--
--	--	-- --	17			6.10			2.17	18	-- --	--	--
DOAS ELECTRIC REHEAT		50 A 3	19	8.67			--			20	1 --		SPACE
--	--	-- --	21		8.67			--		22	1 --		SPACE
--	--	-- --	23			8.67			--	24	1 --		SPACE
FCU-1018A		15 A 3	25	2.03			--			26	1 --		SPACE
--	--	-- --	27		2.03			--		28	1 --		SPACE
--	--	-- --	29			2.03			--	30	1 --		SPACE
FCU-1015		15 A 3	31	2.03			--			32	1 --		SPACE
--	--	-- --	33		2.03			--		34	1 --		SPACE
--	--	-- --	35			2.03			--	36	1 --		SPACE
CUH-C120		15 A 3	37	1.00			9.00			38	3 60 A		GEN AUX PNL 1GPLA MTS
--	--	-- --	39		1.00			0.00		40	-- --	--	--
--	--	-- --	41			1.00			0.00	42	-- --	--	--

	A	B	C
PHASE SUBTOTAL (kVA)	34.76 kVA	34.76 kVA	34.76 kVA
PHASE SUBTOTAL (AMPS)	125 A	125 A	125 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	67.68 kVA	100%	67.68 kVA
LIGHTING	0.00 kVA	100%	0.00 kVA
MOTOR	36.60 kVA	125% LARGEST, 100% OTHER	41.18 kVA
RECEPTACLE	0.00 kVA	100% FIRST 10KVA, 50% OTHER	0.00 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	104.28 kVA		108.86 kVA
TOTAL AMPS	125 A		131 A

2NPL1

MAIN TYPE MCB | **MAIN RATING** 100 A | **BUS RATING** 100 A
VOLTAGE 120/208 Wye | 3 **PHASE** 4 **WIRE** | **MOUNTING** Recessed | **ENCLOSURE** Type 1
LOCATION LEVEL 02,LAB... | **FED FROM** 1NPL1 | **SCCR** 10 kA | **CALCULATED AVAILABLE FAULT...** 4.4 kA

REMARKS:

LEFT SIDE, kVA						RIGHT SIDE, kVA										
DESCRIPTION	BRKR NOTES	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	BRKR NOTES	DESCRIPTION
MICROWAVE - BRK RM #2001		20 A 1	1	0.18			0.18			2	1 20 A		REC - AIRLOCK #2015
COFFEE - BRK RM #2001		20 A 1	3		0.18			0.18		4	1 20 A		REC - HPC(RESERVED) #2016A
FRIDGE - BRK RM #2001	GF	20 A 1	5			0.18			0.90	6	1 20 A		REC - NOC #2014 WEST
PRINTER - COPY/PRINT #2002B		20 A 1	7	0.18			0.90			8	1 20 A		REC - NOC #2014 EAST
REC - #2001, #2002B COUNTERTOP		20 A 1	9		0.36			0.18		10	1 20 A		REC - NOC #2014 DED NORTH
REC - OPEN OFFICE #2002		20 A 1	11			1.26			0.18	12	1 20 A		REC - NOC #2014 DED SOUTH
REC - PRIV. OFFICE #2003		20 A 1	13	1.26			0.36			14	1 20 A		REC - SHELL SPACE #2013
REC - PRIV. OFFICE #2004		20 A 1	15		1.08			0.36		16	1 20 A		REC - IT STORAGE #2012
REC - CLOSET #2002A		20 A 1	17			0.36			0.00	18	1 20 A		SPARE
REC - PUBLIC CORR. #C200		20 A 1	19	0.90			0.90			20	1 20 A		REC - ROOF
REC - BR #2005/06/07, JAN #2008/08A		20 A 1	21		1.08			0.90		22	1 20 A		REC - ROOF
WATER FOUNTAIN - CORR. #C201	GF	20 A 1	23			0.36			0.18	24	1 20 A		REC - PUBLIC CORR. #C200 AV
REC - MOTHERS #2009		20 A 1	25	0.36			0.18			26	1 20 A		REC - OPEN OFFICE #2002 AV
REC - CONF. AV #2010B		20 A 1	27		0.18			0.54		28	1 20 A		REC - BRK RM #2001
REC - CONF. #2010 WEST WALL		20 A 1	29			0.72			0.36	30	1 20 A		REC - PUBLIC CORR #C200
REC - CONF. #2010 NORTH AND...		20 A 1	31	1.08			0.90			32	1 20 A		REC - SMR LAB BUILD/TEST #2011
REC - CONF. #2010 SOUTH FLOOR		20 A 1	33		0.72			1.00		34	2 30 A		REC - SMR LAB BUILD/TEST #2011
REC - CONF. #2010 NORTH FLOOR		20 A 1	35			0.72			1.00	36	-- --	--	--
REC - LAB BUILD/TEST #2011		20 A 1	37	0.18			1.00			38	2 30 A		REC - SMR LAB BUILD/TEST #2011
REC - LEADERSHIP CLASS #2016		20 A 1	39		1.08			1.00		40	-- --	--	--
REC - PUBLCI CORR. #C200 SOUTH		20 A 1	41			0.54			0.00	42	1 20 A		SPARE

	A	B	C
PHASE SUBTOTAL (kVA)	8.56 kVA	8.84 kVA	6.76 kVA
PHASE SUBTOTAL (AMPS)	74 A	76 A	56 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	0.00 kVA	100%	0.00 kVA
LIGHTING	0.00 kVA	100%	0.00 kVA
MOTOR	0.00 kVA	125% LARGEST, 100% OTHER	0.00 kVA
RECEPTACLE	24.16 kVA	100% FIRST 10KVA, 50% OTHER	24.16 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	24.16 kVA		24.16 kVA
TOTAL AMPS	67 A		67 A

1NPHM2

MAIN TYPE MCB | **MAIN RATING** 250 A | **BUS RATING** 250 A
VOLTAGE 480 Delta | 3 **PHASE** 3 **WIRE** | **MOUNTING** Surface | **ENCLOSURE** Type 1
LOCATION LEVEL 01,CUP ELEC 1010 | **FED FROM** SWBD M2 | **SCCR** 50 kA | **CALCULATED AVAILABLE FAULT...** 40.4 kA

REMARKS:

LEFT SIDE, kVA						RIGHT SIDE, kVA										
DESCRIPTION	BRKR NOTES	BRKR AMP, POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP, POLES	BRKR NOTES	DESCRIPTION
RTU-1 - SUPPLY FAN ARRAY		80 A 3	1	12.20			2.66			2	3 20 A		RTU-1 - RELIEF FAN ARRAY
--	--	-- --	3		12.20			2.66		4	-- --	--	--
--	--	-- --	5			12.20			2.66	6	-- --	--	--
RTU-1 REHEAT		50 A 3	7	10.33			0.73			8	3 15 A		HUMIDIFIER - DOAS-1
--	--	-- --	9		10.33			0.73		10	-- --	--	--
--	--	-- --	11			10.33			0.73	12	-- --	--	--
FCU-2013A - SHELL #2013A		15 A 3	13	2.03			1.67			14	3 15 A		AT-2001/02/03/04 - OPEN OFFICE
--	--	-- --	15		2.03			1.67		16	-- --	--	--
--	--	-- --	17			2.03			1.67	18	-- --	--	--
FCU-2014 - NOC #2014		15 A 3	19	0.31			2.00			20	3 15 A		AT-C110 - STAIR #1
--	--	-- --	21		0.31			2.00		22	-- --	--	--
--	--	-- --	23			0.31			2.00	24	-- --	--	--
FCU-2016A - SHELL #2016A		15 A 3	25	2.03			2.50			26	3 20 A		AT-C200/2009/2010
--	--	-- --	27		2.03			2.50		28	-- --	--	--
--	--	-- --	29			2.03			2.50	30	-- --	--	--
OH BUS (480/277V) - LAB #2011	BL	100 A 3	31	0.00			0.83			32	3 15 A		AT-C203 - LEVEL 2 CORR
--	--	-- --	33		0.00			0.83		34	-- --	--	--
--	--	-- --	35			0.00			0.83	36	-- --	--	--
T-1NPHTB (415/240V) - LAB #2011	BL	125 A 3	37	0.00			1.17			38	3 15 A		AT-2012 - RM #2011 & 2012
--	--	-- --	39		0.00			1.17		40	-- --	--	--
--	--	-- --	41			0.00			1.17	42	-- --	--	--

	A	B	C
PHASE SUBTOTAL (kVA)	38.46 kVA	38.46 kVA	38.46 kVA
PHASE SUBTOTAL (AMPS)	139 A	139 A	139 A

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	70.80 kVA	100%	70.80 kVA
LIGHTING	0.00 kVA	100%	0.00 kVA
MOTOR	44.58 kVA	125% LARGEST, 100% OTHER	53.73 kVA
RECEPTACLE	0.00 kVA	100% FIRST 10KVA, 50% OTHER	0.00 kVA
HEATING	0.00 kVA	100%	0.00 kVA
TOTAL LOAD	115.38 kVA		124.53 kVA
TOTAL AMPS	139 A		150 A

ALABAMA LICENSED PROFESSIONAL ENGINEER WILLIAM D. HENNEN
12/19/2024

HIGH PERFORMANCE COMPUTING AND DATA CENTER

THE UNIVERSITY OF ALABAMA
TUSCALOOSA, ALABAMA

DAVIS
Gensler

OWNER
THE UNIVERSITY OF ALABAMA
1205 14TH STREET / BOX 87023
TUSCALOOSA, ALABAMA 35487
205.348.3573
ATTN: JOSHUA BOLLINGER

ARCHITECT OF RECORD
DAVIS ARCHITECTS, INC.
120 23RD STREET SOUTH
BIRMINGHAM, AL 35233
205-322-7482
ATTN: SKYLAR HOWARD / COURTNEY PITTMAN

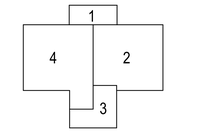
DATA CENTER ARCHITECT
GENSLER
999 PEACHTREE STREET NORTH EAST, SUITE 1400
ATLANTA, GA 30309
410-230-7712
ATTN: NATHANIAL PALL / SHAWN REICHART

MECHANICAL/ ELECTRICAL/PLUMBING/TECHNOLOGY ENGINEER
AFFILIATED ENGINEERS, INC.
1414 RALEIGH ROAD, SUITE 305
CHAPLE HILL, NC 27517
919-609-6469
ATTN: BART HOGGE

CIVIL ENGINEER
DUNCAN COKER ASSOCIATES, P.C.
302 MERCHANTS WALK, SUITE 250
TUSCALOOSA, AL 35406
205.561.0808
ATTN: JASON COKER / JC WILHITE

STRUCTURAL ENGINEER
MBA ENGINEERS, INC.
300 20TH STREET NORTH, SUITE 100
BIRMINGHAM, AL 35203
205-909-6040
ATTN: ANDREW MARLIN

LANDSCAPE ARCHITECT
JOHNSON AND COMPANY
2413 2ND AVENUE SOUTH
BIRMINGHAM, AL 35233
205-324-4447
ATTN: WILLIAM JOHNSON



N
KEY PLAN

REV	DATE	DESCRIPTION
1	09-20-2024	ADDENDUM 5
2	12-19-2024	ASI #6

DATE 10-11-2024
PHASE CONFORMING SET
ISSUED FOR ASI #6
ISSUED BY DAVIS & GENSLER
PROJECT NO. 4014

SHEET TITLE
ELECTRICAL EQUIPMENT SCHEDULES - PANELBOARDS

DRAWING NO.
E609

NOTE: SHEET CONTAINS COLOR ELEMENTS AND MUST BE PRINTED IN COLOR. ARCHITECT IS NOT RESPONSIBLE FOR ERRORS MADE DUE TO IMPROPER PRINTING