NAME: 7-3-MSB-1-PNL-1

LOCATION: ELEC. ROOM 2-143 | **FED FROM:** | **MOUNTING:** SURFACE
MAINS RATING: 125 A | **VOLTAGE:** 480/277 Wye | **ENCLOSURE:** NEMA 1
MAINS TYPE: MCB | **PHASE:** 3 | **AFC:** 65 kA
FEED THROUGH LUGS: No | **WIRE:** 4 | **SCCR:** 65 kA

#	CIRCUIT DESCRIPTION	CONDUIT & WIRE	LC	T	P	A	B	C	P	T	LC	CONDUIT & WIRE	CIRCUIT DESCRIPTION	#
1	LTG DH 7 MECH GALLERY			20 A	1	0.72 0.88			1	20 A			LTG CORRIDOR DH 7	2
3	LTG ELEC ROOM DH 7			20 A	1		1.31 3.05		1	20 A			LTG DH 7 ZONE a,b,f	4
5	LTG DH 7 ZONE d			20 A	1			2.15 2.55	1	20 A			LTG DH 7 ZONE e	6
7	LTG DH 7 ZONE c			20 A	1	2.75								8
9														10
11														12
13														14
15														16
17														18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

BRANCH CIRCUIT LOAD (KVA):	4.25 kVA	4.26 kVA	4.7 kVA
FEED THROUGH LUGS LOAD:	0 kVA	0 kVA	0 kVA
TOTAL PANEL LOAD (KVA):	4.25 kVA	4.26 kVA	4.7 kVA
TOTAL LOAD (AMPS):	15.3 A	15.4 A	17.0 A
PHASE LOAD BALANCE	90.38%		

LEGEND

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	12.35 kVA	15.44 kVA	TOTAL CONNECTED LOAD (AMPS):	16 A
Other	0.88 kVA	0.88 kVA	TOTAL CODE LOAD (AMPS):	20 A
			PERCENT LOADED:	15.65%
TOTAL KVA	13.18 kVA	16.27 kVA		

LOAD CLASSIFICATION (LC) LEGEND
R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, C-CSNR/MMR LOADS

NAME: A-1-INV-1-PNL-7-1

LOCATION: ELEC. ROOM 2-145 | **FED FROM:** | **MOUNTING:** SURFACE
MAINS RATING: 100 A | **VOLTAGE:** 480/277 Wye | **ENCLOSURE:** NEMA 1
MAINS TYPE: MLO | **PHASE:** 3 | **AFC:** 65 kA
FEED THROUGH LUGS: No | **WIRE:** 4 | **SCCR:** 65 kA

#	CIRCUIT DESCRIPTION	CONDUIT & WIRE	LC	T	P	A	B	C	P	T	LC	CONDUIT & WIRE	CIRCUIT DESCRIPTION	#
1	EM LTG DH 7 ZONE c			20 A	1	0.05 0.45			1	20 A			EM LTG DH 7 MECH GALLERY	2
3	EM LTG CORRIDOR DH 7			20 A	1		0.63 1.15		1	20 A			EM LTG DH 7 ZONE a,b,f	4
5	EM LTG DH 7 ZONE d			20 A	1			0.65 1.05	1	20 A			EM LTG DH 7 ZONE e	6
7	EM LTG ELEC ROOM DH 7			20 A	1	1.22								8
9														10
11														12
13														14
15														16
17														18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

BRANCH CIRCUIT LOAD (KVA):	1.71 kVA	1.74 kVA	1.7 kVA
FEED THROUGH LUGS LOAD:	0 kVA	0 kVA	0 kVA
TOTAL PANEL LOAD (KVA):	1.71 kVA	1.74 kVA	1.7 kVA
TOTAL LOAD (AMPS):	6.2 A	6.3 A	6.1 A
PHASE LOAD BALANCE	97.68%		

LEGEND

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
LIGHTING	4.46 kVA	5.57 kVA	TOTAL CONNECTED LOAD (AMPS):	6 A
Other	0.63 kVA	0.63 kVA	TOTAL CODE LOAD (AMPS):	7 A
			PERCENT LOADED:	7.43%
TOTAL KVA	5.07 kVA	6.18 kVA		

LOAD CLASSIFICATION (LC) LEGEND
R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, C-CSNR/MMR LOADS

NAME: 7-2-MSB-1-PNL-1

LOCATION: ELEC. ROOM 2-144 | **FED FROM:** | **MOUNTING:** SURFACE
MAINS RATING: 100 A | **VOLTAGE:** 120/208 Wye | **ENCLOSURE:** NEMA 1
MAINS TYPE: MCB | **PHASE:** 3 | **AFC:** 22 kA
FEED THROUGH LUGS: No | **WIRE:** 4 | **SCCR:** 22 kA

#	CIRCUIT DESCRIPTION	CONDUIT & WIRE	LC	T	P	A	B	C	P	T	LC	CONDUIT & WIRE	CIRCUIT DESCRIPTION	#
1	RECPT. ELEC. ROOM 2-149			20 A	1	1.08 0.72			1	20 A			RECPT. MECHANICAL 2-152	2
3	RECPT. ELEC. ROOM 2-148			20 A	1		1.08 0.72		1	20 A			RECPT. MECHANICAL 2-155	4
5	RECPT. ELEC. ROOM 2-147			20 A	1			1.08 0.54	1	20 A			RECPT. STORAGE 2-154	6
7	RECPT. ELEC. ROOM 2-146			20 A	1	1.08 0.54			1	20 A			RECPT. STORAGE 2-154	8
9	RECPT. CORRIDOR 1-223			20 A	1		0.72 1.08		1	20 A			RECPT. DATA HALL-7 2-153	10
11	RECPT. CORRIDOR 1-223			20 A	1			0.54 1.08	1	20 A			RECPT. DATA HALL-7 2-153	12
13	RECPT. EQUIP. PLATFORM			20 A	1	0.72 0.72			1	20 A			RECPT. EQUIP. PLATFORM	14
15	RECPT. EQUIP. PLATFORM			20 A	1		0.9							16
17														18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

BRANCH CIRCUIT LOAD (KVA):	4.86 kVA	4.5 kVA	3.24 kVA
FEED THROUGH LUGS LOAD:	0 kVA	0 kVA	0 kVA
TOTAL PANEL LOAD (KVA):	4.86 kVA	4.5 kVA	3.24 kVA
TOTAL LOAD (AMPS):	42.1 A	39.1 A	27.0 A
PHASE LOAD BALANCE	64.11%		

LEGEND

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
RECPT.	12.6 kVA	12.6 kVA	TOTAL CONNECTED LOAD (AMPS):	35 A
			TOTAL CODE LOAD (AMPS):	35 A
			PERCENT LOADED:	34.97%
TOTAL KVA	12.6 kVA	12.6 kVA		

LOAD CLASSIFICATION (LC) LEGEND
R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, C-CSNR/MMR LOADS

NAME: 7-1-UPS-1-UDP-1

LOCATION: ELEC. ROOM 2-149 | **FED FROM:** | **MOUNTING:** SURFACE
MAINS RATING: 400 A | **VOLTAGE:** 480/277 | **ENCLOSURE:** NEMA 1
MAINS TYPE: MCB | **PHASE:** 3 | **AFC:** 65 kA
FEED THROUGH LUGS: No | **WIRE:** 3 | **SCCR:** 65 kA

#	CIRCUIT DESCRIPTION	CONDUIT & WIRE	LC	T	P	A	B	C	P	T	LC	CONDUIT & WIRE	CIRCUIT DESCRIPTION	#
1						16.74 16.74								2
3	FWU-7-1			70 A	3		16.74 16.74		3	70 A			FWU-7-10	4
5								16.74 16.74						6
7						10.95 10.95								8
9	CDU-7-1			50 A	3		10.95 10.95		3	50 A			CDU-7-4	10
11								10.95 10.95						12
13						11.08 11.08								14
15	CHWP-1-7-4			100 A	3		11.08 11.08		3	100 A			CHWP-1-7-8	16
17								11.08 11.08						18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

BRANCH CIRCUIT LOAD (KVA):	77.53 kVA	77.53 kVA	77.53 kVA
FEED THROUGH LUGS LOAD:	0 kVA	0 kVA	0 kVA
TOTAL PANEL LOAD (KVA):	77.53 kVA	77.53 kVA	77.53 kVA
TOTAL LOAD (AMPS):	279.8 A	279.8 A	279.8 A
PHASE LOAD BALANCE	100%		

LEGEND

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Power	232.6 kVA	232.6 kVA	TOTAL CONNECTED LOAD (AMPS):	280 A
			TOTAL CODE LOAD (AMPS):	280 A
			PERCENT LOADED:	69.94%
TOTAL KVA	232.6 kVA	232.6 kVA		

LOAD CLASSIFICATION (LC) LEGEND
R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, C-CSNR/MMR LOADS

NAME: 7-1-MSB-1-MDP-1

LOCATION: ELEC. ROOM 2-149 | **FED FROM:** | **MOUNTING:** SURFACE
MAINS RATING: 600 A | **VOLTAGE:** 480/277 | **ENCLOSURE:** NEMA 1
MAINS TYPE: MLO | **PHASE:** 3 | **AFC:** 65 kA
FEED THROUGH LUGS: No | **WIRE:** 3 | **SCCR:** 65 kA

#	CIRCUIT DESCRIPTION	CONDUIT & WIRE	LC	T	P	A	B	C	P	T	LC	CONDUIT & WIRE	CIRCUIT DESCRIPTION	#
1						16.74 16.74								2
3	FWU-7-3			70 A	3		16.74 16.74		3	70 A			FWU-7-6	4
5								16.74 16.74						6
7						16.74 3.41								8
9	FWU-7-14			70 A	3		16.74 3.41		3	15 A			CHW-7-4A	10
11								16.74 3.41						12
13						3.41								14
15	CHW-7-4B			15 A	3		3.41							16
17								3.41						18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

BRANCH CIRCUIT LOAD (KVA):	57.02 kVA	57.02 kVA	57.02 kVA
FEED THROUGH LUGS LOAD:	0 kVA	0 kVA	0 kVA
TOTAL PANEL LOAD (KVA):	57.02 kVA	57.02 kVA	57.02 kVA
TOTAL LOAD (AMPS):	205.8 A	205.8 A	205.8 A
PHASE LOAD BALANCE	100%		

LEGEND

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Power	171.07 kVA	171.07 kVA	TOTAL CONNECTED LOAD (AMPS):	206 A
			TOTAL CODE LOAD (AMPS):	206 A
			PERCENT LOADED:	34.29%
TOTAL KVA	171.07 kVA	171.07 kVA		

LOAD CLASSIFICATION (LC) LEGEND
R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, C-CSNR/MMR LOADS

NAME: 7-2-UPS-1-UDP-1

LOCATION: ELEC. ROOM 2-148 | **FED FROM:** | **MOUNTING:** SURFACE
MAINS RATING: 400 A | **VOLTAGE:** 480/277 | **ENCLOSURE:** NEMA 1
MAINS TYPE: MCB | **PHASE:** 3 | **AFC:** 65 kA
FEED THROUGH LUGS: No | **WIRE:** 3 | **SCCR:** 65 kA

#	CIRCUIT DESCRIPTION	CONDUIT & WIRE	LC	T	P	A	B	C	P	T	LC	CONDUIT & WIRE	CIRCUIT DESCRIPTION	#
1						16.74 16.74								2
3	FWU-7-4			70 A	3		16.74 16.74		3	70 A			FWU-7-12	4
5								16.74 16.74						6
7						10.95 10.95								8
9	CDU-7-2			50 A	3		10.95 10.95		3	50 A			CDU-7-5	10
11								10.95 10.95						12
13						11.08 11.08								14
15	CHWP-1-7-5			100 A	3		11.08 11.08		3	100 A			CHWP-1-7-7	16
17								11.08 11.08						18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

BRANCH CIRCUIT LOAD (KVA):	77.53 kVA	77.53 kVA	77.53 kVA
FEED THROUGH LUGS LOAD:	0 kVA	0 kVA	0 kVA
TOTAL PANEL LOAD (KVA):	77.53 kVA	77.53 kVA	77.53 kVA
TOTAL LOAD (AMPS):	279.8 A	279.8 A	279.8 A
PHASE LOAD BALANCE	100%		

LEGEND

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Power	232.6 kVA	232.6 kVA	TOTAL CONNECTED LOAD (AMPS):	280 A
			TOTAL CODE LOAD (AMPS):	280 A
			PERCENT LOADED:	69.94%
TOTAL KVA	232.6 kVA	232.6 kVA		

LOAD CLASSIFICATION (LC) LEGEND
R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, C-CSNR/MMR LOADS

NAME: 7-2-MSB-1-MDP-1

LOCATION: ELEC. ROOM 2-148 | **FED FROM:** | **MOUNTING:** SURFACE
MAINS RATING: 600 A | **VOLTAGE:** 480/277 | **ENCLOSURE:** NEMA 1
MAINS TYPE: MLO | **PHASE:** 3 | **AFC:** 65 kA
FEED THROUGH LUGS: No | **WIRE:** 3 | **SCCR:** 65 kA

#	CIRCUIT DESCRIPTION	CONDUIT & WIRE	LC	T	P	A	B	C	P	T	LC	CONDUIT & WIRE	CIRCUIT DESCRIPTION	#
1						16.74 16.74								2
3	FWU-7-8			70 A	3		16.74 16.74		3	70 A			FWU-7-9	4
5								16.74 16.74						6
7						16.74 3.41								8
9	FWU-7-16			70 A	3		16.74 3.41		3	15 A			CHW-7-3A	10
11								16.74 3.41						12
13						3.41								14
15	CHW-7-3B			15 A	3		3.41							16
17								3.41						18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

BRANCH CIRCUIT LOAD (KVA):	57.02 kVA	57.02 kVA	57.02 kVA
FEED THROUGH LUGS LOAD:	0 kVA	0 kVA	0 kVA
TOTAL PANEL LOAD (KVA):	57.02 kVA	57.02 kVA	57.02 kVA
TOTAL LOAD (AMPS):	205.8 A	205.8 A	205.8 A
PHASE LOAD BALANCE	100%		

LEGEND

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Power	171.07 kVA	171.07 kVA	TOTAL CONNECTED LOAD (AMPS):	206 A
			TOTAL CODE LOAD (AMPS):	206 A
			PERCENT LOADED:	34.29%
TOTAL KVA	171.07 kVA	171.07 kVA		

LOAD CLASSIFICATION (LC) LEGEND
R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, C-CSNR/MMR LOADS

NAME: 7-3-UPS-1-UDP-1

LOCATION: ELEC. ROOM 2-147 | **FED FROM:** | **MOUNTING:** SURFACE
MAINS RATING: 400 A | **VOLTAGE:** 480/277 | **ENCLOSURE:** NEMA 1
MAINS TYPE: MCB | **PHASE:** 3 | **AFC:** 65 kA
FEED THROUGH LUGS: No | **WIRE:** 3 | **SCCR:** 65 kA

#	CIRCUIT DESCRIPTION	CONDUIT & WIRE	LC	T	P	A	B	C	P	T	LC	CONDUIT & WIRE	CIRCUIT DESCRIPTION	#
1						16.74 16.74								2
3	FWU-7-7			70 A	3		16.74 16.74		3	70 A			FWU-7-15	4
5								16.74 16.74						6
7						10.95 10.95								8
9	CDU-7-3			50 A	3		10.95 10.95		3	50 A			CDU-7-6	10
11								10.95 10.95						12
13						11.08 11.08								14
15	CHWP-1-7-11			100 A	3		11.08 11.08		3	100 A			CHWP-1-7-13	16
17								11.08 11.08						18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

BRANCH CIRCUIT LOAD (KVA):	77.53 kVA	77.53 kVA	77.53 kVA
FEED THROUGH LUGS LOAD:	0 kVA	0 kVA	0 kVA
TOTAL PANEL LOAD (KVA):	77.53 kVA	77.53 kVA	77.53 kVA
TOTAL LOAD (AMPS):	279.8 A	279.8 A	279.8 A
PHASE LOAD BALANCE	100%		

LEGEND

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Power	232.6 kVA	232.6 kVA	TOTAL CONNECTED LOAD (AMPS):	280 A
			TOTAL CODE LOAD (AMPS):	280 A
			PERCENT LOADED:	69.94%
TOTAL KVA	232.6 kVA	232.6 kVA		

LOAD CLASSIFICATION (LC) LEGEND
R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, C-CSNR/MMR LOADS

NAME: 7-3-MSB-1-MDP-1

LOCATION: ELEC. ROOM 2-147 | **FED FROM:** | **MOUNTING:** SURFACE
MAINS RATING: 600 A | **VOLTAGE:** 480/277 | **ENCLOSURE:** NEMA 1
MAINS TYPE: MLO | **PHASE:** 3 | **AFC:** 65 kA
FEED THROUGH LUGS: No | **WIRE:** 3 | **SCCR:** 65 kA

#	CIRCUIT DESCRIPTION	CONDUIT & WIRE	LC	T	P	A	B	C	P	T	LC	CONDUIT & WIRE	CIRCUIT DESCRIPTION	#
1						16.74 16.74								2
3	FWU-7-2			70 A	3		16.74 16.74		3	70 A			FWU-7-5	4
5								16.74 16.74						6
7						16.74 16.74								8
9	FWU-7-11			70 A	3		16.74 16.74		3	70 A			FWU-7-13	10
11								16.74 16.74						12
13						3.41 3.41								14
15	CHW-7-2A			15 A	3		3.41 3.41		3	15 A			CHW-7-2B	16
17								3.41 3.41						18
19														20
21														22
23														24
25														26
27														28
29														30
31														32
33														34
35														36
37														38
39														40
41														42

BRANCH CIRCUIT LOAD (KVA):	73.76 kVA	73.76 kVA	73.76 kVA
FEED THROUGH LUGS LOAD:	0 kVA	0 kVA	0 kVA
TOTAL PANEL LOAD (KVA):	73.76 kVA	73.76 kVA	73.76 kVA
TOTAL LOAD (AMPS):	266.2 A	266.2 A	266.2 A
PHASE LOAD BALANCE	100%		

LEGEND

LOAD CLASSIFICATION	CONNECTED LOAD	ESTIMATED DEMAND	PANEL TOTALS	
Power	221.28 kVA	221.28 kVA	TOTAL CONNECTED LOAD (AMPS):	266 A
			TOTAL CODE LOAD (AMPS):	266 A
			PERCENT LOADED:	44.36%
TOTAL KVA	221.28 kVA	221.28 kVA		

LOAD CLASSIFICATION (LC) LEGEND
R - RECEPTACLE, L - LIGHTING, K - KITCHEN, M - MOTORS/HVAC, H - HEATERS, O - OTHER, E - EXISTING, C-CSNR/MMR LOADS

PANEL SCHEDULE LEGEND

7-3-MSB-1-PNL-1	A-1-INV-1-PNL-7-1	7-2-MSB-1-PNL-1
-	-	-
-	-	-

serverfarm
CORGAN
TGRWA STRUCTURAL ENGINEERS
kW Mission Critical Engineering Member of WSP
EP ENGINEERING PLUS
Kimley»Horn

ISSUES

1	11/12/2025	CONCEPTUAL DESIGN
2	12/12/2025	SCHEMATIC DESIGN
3	12/17/2025	STEEL MILL ORDER
4	1/23/2026	DESIGN DEVELOPMENT

REVISIONS

kW Mission Critical Engineering
Contact: David Adams | Phone: 703.926.0715
Engineer: Matthew Fagert
License #: 123456 | Exp. Date: 00/00/0000

NOT FOR CONSTRUCTION
Date: 00/00/0000

SERVERFARM
Clarksville, AR

L	K	J	
G	E	C	A
H	F	D	B
P	N	M	

PANEL SCHEDULES - 2C

JOB US0049903.5614
SHEET
E05-16