1 Branch Panel: 25DP

Location: PIPE BASEMENT Z002
Supply From: 25-XF2-BLDG 25
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Rating: 600 A
Mains: 600A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL 25L01A	250 A	3	0 VA	0 VA					3	250 A	PANEL 25L1A	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	PANEL 25L2	250 A	3	0 VA	4253...					3	20 A	25-117AB	8
9	--	--	--			0 VA	3735...			--	--	--	10
11	--	--	--					0 VA	3533...	--	--	--	12
13	25-204BB	20 A	3	4253...	4253...					3	20 A	25-313AB	14
15	--	--	--			3735...	3735...			--	--	--	16
17	--	--	--					3533...	3533...	--	--	--	18
		Total Load:		12760 VA		11206 VA		10600 VA					
		Total Amps:		107 A		94 A		88 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	1800 VA	100.00%	1800 VA		
Receptacle	30000 VA	66.67%	20000 VA	**Total Conn. Load:**	34566 VA
Power	2766 VA	100.00%	2766 VA	**Total Est. Demand:**	24566 VA
				Total Conn.:	96 A
				Total Est. Demand:	68 A

Notes:

Branch Panel: 25-DP-TRA

Location: CORRIDOR H102
Supply From: ATS1-EDP25
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65k
Mains Rating: 225 A
Mains: 225A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL 25-117AA	100 A	3	4253...	4253...					3	100 A	PANEL 25-204BA	2
3	--	--	--			3533...	3533...			--	--	--	4
5	--	--	--					3533...	3533...	--	--	--	6
7	PANEL 25-313AA	100 A	3	4253...	0 VA					1	20 A	SPARE	8
9	--	--	--			3533...	0 VA			1	20 A	SPARE	10
11	--	--	--					3533...	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
		Total Load:		12960 VA		10800 VA		10800 VA					
		Total Amps:		108 A		90 A		90 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	2400 VA	100.00%	2400 VA		
Receptacle	32160 VA	65.55%	21080 VA	**Total Conn. Load:**	34560 VA
				Total Est. Demand:	23480 VA
				Total Conn.:	96 A
				Total Est. Demand:	65 A

Notes:

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

1. EXISTING POWER DISTRIBUTION EQUIPMENT TO BE MODIFIED AS SHOWN. REFERENCE ONELINE DIAGRAM ON SHEET 25EP601 FOR ADDITIONAL INFORMATION. ALL CIRCUITS SHALL BE EXISTING UNLESS OTHERWISE NOTED. THIS SCHEDULE IS PROVIDED TO SHOW BRANCH CIRCUITING ONLY AND IS NOT PROVIDED TO SHOW OVERALL LOAD OF PANEL.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES
SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITSKO
STATE OF WASHINGTON
55681
2-3-22
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 25 - ELECTRICAL SCHEDULES
Approved:

Phase: CONSTRUCTION DOCUMENTS

Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO
Issue Date: 03/31/2022
Checked: LRL/WNM
Drawn: LLT/JPS

Project Number: 657-21-701JB
Building Number: 25
Drawing Number: 25EP701

VA FORM 08 - 6231

Branch Panel: 51-DP-TRA

Location:
Supply From: DP-51
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kAIC
Mains Rating: 225 A
Mains: 225A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	4253...					3	100 A	PANEL 51-1A102A	2
3	SPARE	20 A	1			0 VA	3735...			--	--	--	4
5	PANEL 51-BE111A	100 A	3					4253...	3533...	--	--	--	6
7	--	--	--	3735...	4253...					3	100 A	PANEL 51-1A139A	8
9	--	--	--			3533...	3735...			--	--	--	10
11	PANEL 51-1A183A	100 A	3					4253...	3533...	--	--	--	12
13	--	--	--	3735...	0 VA					1	20 A	SPARE	14
15	--	--	--			3533...	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	100 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	100 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	100 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	100 VA	--	--	--	42
			Total Load:	16177 VA		14737 VA		15773 VA					
			Total Amps:	136 A		123 A		133 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3000 VA	100.00%	3000 VA		
Receptacle	42880 VA	61.66%	26440 VA	**Total Conn. Load:**	46688 VA
Lighting	808 VA	100.00%	808 VA	**Total Est. Demand:**	30248 VA
				Total Conn.:	130 A
				Total Est. Demand:	84 A

Notes:

Branch Panel: 51-DP-TRB

Location:
Supply From: DP-51
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65kAIC
Mains Rating: 225 A
Mains: 225A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	4253...					3	100 A	PANEL 51-1A102B	2
3	SPARE	20 A	1			0 VA	3533...			--	--	--	4
5	PANEL 51-BE111B	100 A	3					4253...	3533...	--	--	--	6
7	--	--	--	3533...	4253...					3	100 A	PANEL 51-1A139B	8
9	--	--	--			3533...	3533...			--	--	--	10
11	PANEL 51-1A183B	100 A	3					4253...	3533...	--	--	--	12
13	--	--	--	3533...	0 VA					1	20 A	SPARE	14
15	--	--	--			3533...	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	0 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	0 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	0 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	0 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	0 VA	--	--	--	42
			Total Load:	15573 VA		14133 VA		15573 VA					
			Total Amps:	132 A		118 A		132 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	2400 VA	100.00%	2400 VA		
Receptacle	42880 VA	61.66%	26440 VA	**Total Conn. Load:**	45280 VA
				Total Est. Demand:	28840 VA
				Total Conn.:	126 A
				Total Est. Demand:	80 A

Notes:

Branch Panel: DP-51 (2)

Location: BE-114
Supply From: 51-ATS51
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Rating: 800 A
Mains: 800A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	225 A	3	0 VA	0 VA					3	250 A	51-PANEL-PP4	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	SPARE	225 A	3	0 VA	0 VA					3	250 A	51-PANEL-PP2	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	SPARE	50 A	3	0 VA	0 VA					3	225 A	SPARE	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	51-PANEL-DP2	225 A	3	0 VA	0 VA					3	100 A	51-PANEL-LP4	20
21	--	--	--			0 VA	0 VA			--	--	--	22
23	--	--	--					0 VA	0 VA	--	--	--	24
25	51-PANEL-DP1	400 A	3	0 VA	1617...					3	400 A	51-DP-TRA	26
27	--	--	--			0 VA	1473...			--	--	--	28
29	--	--	--					0 VA	1577...	--	--	--	30
31	SPARE	250 A	3	0 VA									32
33	--	--	--			0 VA							34
35	--	--	--					0 VA					36
			Total Load:	16177 VA		14737 VA		15773 VA					
			Total Amps:	136 A		123 A		133 A					

(1) — 51-DP-TRA, CKT 26

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3000 VA	100.00%	3000 VA		
Receptacle	42880 VA	61.66%	26440 VA	**Total Conn. Load:**	46688 VA
Lighting	808 VA	100.00%	808 VA	**Total Est. Demand:**	30248 VA
				Total Conn.:	130 A
				Total Est. Demand:	84 A

Notes:

Branch Panel: CB51 (2)

Location:
Supply From: 51-XF2-BLDG 51
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Rating: 225 A
Mains: 800A/3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	600 A	3	0 VA	1557...					3	400 A	51-DP-TRB	2
3	--	--	--			0 VA	1413...			--	--	--	4
5	--	--	--					0 VA	1557...	--	--	--	6
7	PNL-MP51 (TAPPED OFF BUS)	--	3	--	--					3	--	SPACE	8
9	--	--	--			--	--			--	--	--	10
11	--	--	--					--	--	--	--	--	12
13	SPACE	--	3	--	--					3	--	SPACE	14
15	--	--	--			--	--			--	--	--	16
17	--	--	--					--	--	--	--	--	18
19	SPACE	--	3	--	--					3	--	SPACE	20
21	--	--	--			--	--			--	--	--	22
23	--	--	--					--	--	--	--	--	24
25	SPACE	--	3	--	--					3	--	SPACE	26
27	--	--	--			--	--			--	--	--	28
29	--	--	--					--	--	--	--	--	30
			Total Load:	15573 VA		14133 VA		15573 VA					
			Total Amps:	132 A		118 A		132 A					

(3) — 51-DP-TRB, CKT 2

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	2400 VA	100.00%	2400 VA		
Receptacle	42880 VA	61.66%	26440 VA	**Total Conn. Load:**	45280 VA
				Total Est. Demand:	28840 VA
				Total Conn.:	126 A
				Total Est. Demand:	80 A

Notes:

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

(1) UTILIZE EXISTING SPARE CIRCUIT BREAKER TO SUPPLY NEW LOAD.

(2) EXISTING POWER DISTRIBUTION EQUIPMENT TO BE MODIFIED AS SHOWN. REFERENCE ONE-LINE DIAGRAM ON SHEET 51EP602 FOR ADDITIONAL INFORMATION. ALL CIRCUITS SHALL BE EXISTING UNLESS OTHERWISE NOTED. THIS SCHEDULE IS PROVIDED TO SHOW BRANCH CIRCUITING ONLY AND IS NOT PROVIDED TO SHOW OVERALL LOAD OF PANEL.

(3) PROVIDE NEW CIRCUIT BREAKER TO SUPPLY NEW LOAD.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 2-1-23 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 51, 51A, AND 51T - ELECTRICAL SCHEDULES
Approved:

Phase: CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO
Issue Date: 03/31/2022
Checked: LRL/WNM
Drawn: LLT/JPS

Project Number: 657-21-701JB
Building Number: 51
Drawing Number: 51EP701
287 OF 435

VA FORM 08 - 6231

PANEL: B51T (EXISTING)
VOLT: 240/120V 1 PHASE 3 WIRE
BUS: 400 AMP
MAIN 400 AMP, 2P

SURFACE MOUNTED
10 KAIC
NEMA 1 ENCLOSURE

	CKT	LOAD	NUM	KEY	BREAKER AMP	BREAKER POLE	VA PER PHASE A	VA PER PHASE B	BREAKER POLE	BREAKER AMP	KEY	NUM	LOAD	CKT	
DESCRIPTION															DESCRIPTION
UNKNOWN	1	0		O	20	1	0		1	20	O		0	2	UNKNOWN
UNKNOWN	3	0		O	20	1		0	1	20	O		0	4	UNKNOWN
UNKNOWN	5	0		O	20	1	0		1	20	O		0	6	UNKNOWN
UNKNOWN	7	0		O	20	1		0	1	20	O		0	8	UNKNOWN
UNKNOWN	9	0		O	20	1	0		1	20	O		0	10	UNKNOWN
UNKNOWN	11	0		O	20	1		0	1	20	O		0	12	UNKNOWN
UNKNOWN	13	0		O	20	1	0		1	20	O		0	14	UNKNOWN
UNKNOWN	15	0		O	30	2		0	1	20	O		0	16	UNKNOWN
"	17	0		O	"	"	0		2	110	O		0	18	UNKNOWN
UNKNOWN	19	0		O	110	2		0	"	"	O		0	20	UNKNOWN
"	21	0		O	"	"	0		1	20	O		0	22	UNKNOWN
UNKNOWN	23	0		O	20	1		0	-	-	O		0	24	SPACE
(1) UPS RECEPTACLE	25	2880		O	30	1	2880		-	-	O		0	26	SPACE
TRANSFER FAN	27	1176		O	20	1		1176	-	-	O		0	28	SPACE
SPACE	29	0		O	-	-	0		-	-	O		0	30	SPACE
M: MOTOR LOAD	N: NO CALCULATION/ INTERLOCKED						0	0	PANEL:	NONE			LUGGED LOAD		
S: SUBFED LOAD	L: LIGHTING LOAD O: OTHER						2880	1176	DOWNSTREAM SUBFED AND PANEL LOAD						
R: RECEPTACLE LOAD	K: KITCHEN LOAD						2880	1176	TOTAL PANEL LOAD						

LOAD TYPE	DEMAND	DESIGN	CONNECTED	VALUE	TOTALS
L- GENERAL LIGHTING LOAD	125 %	0	0	59.2	% MAX PHASE IMBALANCE
R- RECEPTACLE LOAD (PER NEC ART. 220-13)	0	0	0	4.1	TOTAL CONNECTED kVA
M- MOTOR LOADS	100 %	0	0	16.9	TOTAL CONNECTED AMPS
K- KITCHEN RECEPTACLES 0 AT 0 %	0 %	0	0	0.0	25% OF LARGEST MOTOR AMPS
O-ALL OTHER LOADS	100 %	4056	4056	16.9	TOTAL DESIGN AMPS

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

(1) PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE TO SUPPLY NEW LOAD.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES
SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAO
STATE OF WASHINGTON
55681
3-31-22
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 51, 51A, AND 51T - ELECTRICAL SCHEDULES

Approved:

Phase: CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO

Issue Date: 03/31/2022

Checked: LRL/WNM

Drawn: LLT/JPS

Project Number: 657-21-701JB

Building Number:

Drawing Number: 51EP702

VA FORM 08 - 6231

Branch Panel: 52-DP-TRA

Location: MECH GS09
Supply From: ATS52-DP52CR
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65k
Mains Rating: 250 A
Mains: 250A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	4253...					3	100 A	PANEL 52-2N86BA	2
3	SPARE	20 A	1			0 VA	3735...			--	--	--	4
5	PANEL 52-GN29AA	100 A	3					4253...	3533...	--	--	--	6
7	--	--	--	3735...	4253...					3	100 A	PANEL 52-2N91A	8
9	--	--	--			3533...	3735...			--	--	--	10
11	PANEL 52-1N82AA	100 A	3					4253...	3533...	--	--	--	12
13	--	--	--	3735...	0 VA					1	20 A	SPARE	14
15	--	--	--			3533...	0 VA			1	20 A	SPARE	16
17	PANEL 52-1S33A	100 A	3					4253...	0 VA	1	20 A	SPARE	18
19	--	--	--	3735...	0 VA					1	20 A	SPARE	20
21	--	--	--			3533...	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	100 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	100 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	100 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	100 VA	--	--	--	42
		Total Load:		19913 VA		18271 VA		20027 VA					
		Total Amps:		168 A		152 A		169 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3600 VA	100.00%	3600 VA		
Receptacle	53600 VA	59.33%	31800 VA	**Total Conn. Load:**	58210 VA
Lighting	1010 VA	100.00%	1010 VA	**Total Est. Demand:**	36410 VA
				Total Conn.:	162 A
				Total Est. Demand:	101 A

Notes:

Branch Panel: 52-DP-TRB

Location: MECH GS09
Supply From: MCB
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65k
Mains Rating: 250 A
Mains: 250A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	4253...					3	100 A	PANEL 52-1N82AB	2
3	SPARE	20 A	1			0 VA	3533...			--	--	--	4
5	PANEL 52-GN29AB	100 A	3					4253...	3533...	--	--	--	6
7	--	--	--	3533...	4253...					3	100 A	PANEL 52-2N86BB	8
9	--	--	--			3533...	3533...			--	--	--	10
11	PANEL 52-1S33B	100 A	3					4253...	3533...	--	--	--	12
13	--	--	--	3533...	0 VA					1	20 A	SPARE	14
15	--	--	--			3533...	0 VA			1	20 A	SPARE	16
17	PANEL 52-2N91B	100 A	3					4253...	0 VA	1	20 A	SPARE	18
19	--	--	--	3533...	0 VA					1	20 A	SPARE	20
21	--	--	--			3533...	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	100 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	100 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	100 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	100 VA	--	--	--	42
		Total Load:		19307 VA		17867 VA		20027 VA					
		Total Amps:		163 A		149 A		169 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3600 VA	100.00%	3600 VA		
Receptacle	53600 VA	59.33%	31800 VA	**Total Conn. Load:**	57200 VA
				Total Est. Demand:	35400 VA
				Total Conn.:	159 A
				Total Est. Demand:	98 A

Notes:

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES

SPEESDESIGNBUILD

STAMP

LOUIS R. LITSAO
STATE OF WASHINGTON
55681
2-21-22
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 52 - ELECTRICAL SCHEDULES

Approved:

Phase: CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO

Issue Date: 03/31/2022
Checked: LRL/WNM
Drawn: LLT/JPS

Project Number: 657-21-701JB
Building Number: 52
Drawing Number: 52EP701

VA FORM 08 - 6231

PANEL: NSR251 (EXISTING) (2) **VOLT:** 240/120V 1 PHASE 3 WIRE **BUS:** 400 AMP **MAIN** 400 AMP, 2P

SURFACE MOUNTED
10 KAIC
NEMA 1 ENCLOSURE

DESCRIPTION	CKT	LOAD	NUM	KEY	BREAKER AMP	POLE	VA PER PHASE A	VA PER PHASE B	BREAKER POLE	BREAKER AMP	KEY	NUM	LOAD	CKT	DESCRIPTION
UNKNOWN	1	0		O	20	1	0		1	20	O		0	2	UNKNOWN
UNKNOWN	3	0		O	20	1		0	1	20	O		0	4	UNKNOWN
UNKNOWN	5	0		O	20	1	0		1	20	O		0	6	UNKNOWN
UNKNOWN	7	0		O	20	1		0	1	20	O		0	8	UNKNOWN
UNKNOWN	9	0		O	20	1	0		1	20	O		0	10	UNKNOWN
UNKNOWN	11	0		O	20	1		0	1	20	O		0	12	UNKNOWN
UNKNOWN	13	0		O	20	1	0		1	20	O		0	14	UNKNOWN
UNKNOWN	15	0		O	30	2		0	1	20	O		0	16	UNKNOWN
"	17	0		O	"	"	0		2	110	O		0	18	UNKNOWN
UNKNOWN	19	0		O	110	2		0	"	"	O		0	20	UNKNOWN
"	21	0		O	"	"	0		1	20	O		0	22	UNKNOWN
UNKNOWN	23	0		O	20	1		0	1	20	O		0	24	UNKNOWN
(3) UPS RECEPTACLE	25	2880		O	30	1	2880		1	20	O		0	26	UNKNOWN
TRANSFER FAN	27	1176		O	20	1		1176	-	-	O		0	28	SPACE
SPACE	29	0		O	-	-	0		-	-	O		0	30	SPACE

M: MOTOR LOAD N: NO CALCULATION/ INTERLOCKED — A: 0, B: 0 — PANEL: NONE — LUGGED LOAD
S: SUBFED LOAD L: LIGHTING LOAD O: OTHER — A: 2880, B: 1176 — DOWNSTREAM SUBFED AND PANEL LOAD
R: RECEPTACLE LOAD K: KITCHEN LOAD — A: 2880, B: 1176 — TOTAL PANEL LOAD

LOAD TYPE	DEMAND	DESIGN	CONNECTED	VALUE	TOTALS
L- GENERAL LIGHTING LOAD	125 %	0	0	59.2	% MAX PHASE IMBALANCE
R- RECEPTACLE LOAD (PER NEC ART. 220-13)	0	0	0	4.1	TOTAL CONNECTED kVA
M- MOTOR LOADS	100 %	0	0	16.9	TOTAL CONNECTED AMPS
K- KITCHEN RECEPTACLES 0 AT 0 %	0 %	0	0	0.0	25% OF LARGEST MOTOR AMPS
O-ALL OTHER LOADS	100 %	4056	4056	16.9	TOTAL DESIGN AMPS

Branch Panel: 53-SWBD (2)

Location: MECH RM GS12 **Supply From:** 53-ATS-53 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: **Mains Rating:** 800 A **Mains:** LUGS ONLY

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	800 A	3	0 VA	0 VA					3	225 A	53-PANEL-1A-1, 53-PANEL-2A-1	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	53-PANEL-P2	400 A	3	0 VA	0 VA					3	100 A	53-PANEL-KP	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	53-PANEL-GP	400 A	3	0 VA	0 VA					3	600 A	53-PANEL-MCC	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	53-PANEL-GB, 53-PANEL-1B, 53-PANEL-2B-1	400 A	3	0 VA	0 VA					3	225 A	53-PANEL-GC-1	20
21	--	--	--			0 VA	0 VA			--	--	--	22
23	--	--	--					0 VA	0 VA	--	--	--	24
25	53-PANEL-GA	100 A	3	0 VA	0 VA					3	225 A	53-PANEL-2C	26
27	--	--	--			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
31	53-PANEL-GB1-1	200 A	3	0 VA	0 VA					3	800 A	SPARE	32
33	--	--	--			0 VA	0 VA			--	--	--	34
35	--	--	--					0 VA	0 VA	--	--	--	36
37	SPARE	800 A	3	0 VA	2043...					3	225 A	53-DP-TRA	38
39	--	--	--			0 VA	1847...			--	--	--	40
41	--	--	--					0 VA	1930...	--	--	--	42
43	SPARE	800 A	3	0 VA	0 VA					3	800 A	SPARE	44
45	--	--	--			0 VA	0 VA			--	--	--	46
47	--	--	--					0 VA	0 VA	--	--	--	48
		Total Load:		20431 VA		18473 VA		19307 VA					
		Total Amps:		171 A		154 A		162 A					

(1)

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3600 VA	100.00%	3600 VA		
Receptacle	53600 VA	59.33%	31800 VA	**Total Conn. Load:**	58210 VA
Lighting	1010 VA	100.00%	1010 VA	**Total Est. Demand:**	36410 VA
				Total Conn.:	162 A
				Total Est. Demand:	101 A

Notes:

Branch Panel: 53-DP-TRB

Location: MECH RM GS12 **Supply From:** 53-PANEL-MDP-53 **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 65kAIC **Mains Rating:** 225 A **Mains:** 225A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	4253...					3	100 A	PANEL 53-1S002B	2
3	SPARE	20 A	1			0 VA	3533...			--	--	--	4
5	PANEL 53-GS10B	100 A	3					4253...	3533...	--	--	--	6
7	--	--	--	3533...	4253...					3	100 A	PANEL 53-2S001B	8
9	--	--	--			3533...	3533...			--	--	--	10
11	PANEL 53-1S01B	100 A	3					4253...	3533...	--	--	--	12
13	--	--	--	3533...	4253...					3	100 A	PANEL 53-GS02AB	14
15	--	--	--			3533...	3533...			--	--	--	16
17	SPARE	20 A	1					0 VA	3533...	--	--	--	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	100 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	100 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	100 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	100 VA	--	--	--	42
		Total Load:		20027 VA		17867 VA		19307 VA					
		Total Amps:		169 A		149 A		163 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3600 VA	100.00%	3600 VA		
Receptacle	53600 VA	59.33%	31800 VA	**Total Conn. Load:**	57200 VA
				Total Est. Demand:	35400 VA
				Total Conn.:	159 A
				Total Est. Demand:	98 A

Notes:

Branch Panel: 53-DP-TRA

Location: MECH RM GS12 **Supply From:** BLDG 53-SWBD **Mounting:** Surface **Enclosure:** Type 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4
A.I.C. Rating: 65kAIC **Mains Rating:** 225 A **Mains:** 225A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	4253...					3	100 A	PANEL 53-1S002A	2
3	SPARE	20 A	1			0 VA	3735...			--	--	--	4
5	PANEL 53-GS10A	100 A	3					4253...	3533...	--	--	--	6
7	--	--	--	3735...	4253...					3	100 A	PANEL 53-2S001A	8
9	--	--	--			3533...	3735...			--	--	--	10
11	PANEL 53-1S01A	100 A	3					4253...	3533...	--	--	--	12
13	--	--	--	3735...	4253...					3	100 A	PANEL 53-GS02AA	14
15	--	--	--			3533...	3735...			--	--	--	16
17	SPARE	20 A	1					0 VA	3533...	--	--	--	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	100 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	100 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	100 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	100 VA	--	--	--	42
		Total Load:		20431 VA		18473 VA		19307 VA					
		Total Amps:		171 A		154 A		162 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3600 VA	100.00%	3600 VA		
Receptacle	53600 VA	59.33%	31800 VA	**Total Conn. Load:**	58210 VA
Lighting	1010 VA	100.00%	1010 VA	**Total Est. Demand:**	36410 VA
				Total Conn.:	162 A
				Total Est. Demand:	101 A

Notes:

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

(1) PROVIDE NEW CIRCUIT BREAKER TO SUPPLY NEW LOAD.

(2) EXISTING POWER DISTRIBUTION EQUIPMENT TO BE MODIFIED AS SHOWN. REFERENCE ONELINE DIAGRAM ON SHEET 53EP701 FOR ADDITIONAL INFORMATION. ALL CIRCUITS SHALL BE EXISTING UNLESS OTHERWISE NOTED. THIS SCHEDULE IS PROVIDED TO SHOW BRANCH CIRCUITING ONLY AND IS NOT PROVIDED TO SHOW OVERALL LOAD OF PANEL.

(3) PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE TO SUPPLY NEW LOAD.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES

SPEESDESIGNBUILD

STAMP

LOUIS R. LITSAO — STATE OF WASHINGTON — 55681 — 2-21-22 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 53 AND 53T - ELECTRICAL SCHEDULES
Approved:
Phase: CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO
Issue Date: 03/31/2022
Checked: LRL/WNM
Drawn: LLT/JPS
Project Number: 657-21-701JB
Building Number: 53
Drawing Number: 53EP701
290 OF 435

VA FORM 08 - 6231

Branch Panel: 55-DP-TRA

Location: MECH 1M 1a
Supply From: DP/55-C1
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65k
Mains Rating: 400 A
Mains: 400A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL 55-1A129A	100 A	3	4253...	4253...					3	100 A	PANEL 55-1B104A	2
3	--	--	--			3735...	3735...			--	--	--	4
5	--	--	--					3533...	3533...	--	--	--	6
7	PANEL 55-1C132A	100 A	3	4253...	4253...					3	100 A	PANEL 55-2A136A	8
9	--	--	--			3735...	3735...			--	--	--	10
11	--	--	--					3533...	3533...	--	--	--	12
13	PANEL 55-2C144A	100 A	3	4253...	4253...					3	100 A	PANEL 55-3A120A	14
15	--	--	--			3735...	3735...			--	--	--	16
17	--	--	--					3533...	3533...	--	--	--	18
19	PANEL 55-3C149A	100 A	3	4253...	0 VA					1	20 A	SPARE	20
21	--	--	--			3735...	0 VA			1	20 A	SPARE	22
23	--	--	--					3533...	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	100 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	100 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	100 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	100 VA	--	--	--	42
		Total Load:		29973 VA		26347 VA		24933 VA					
		Total Amps:		252 A		221 A		208 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	4800 VA	100.00%	4800 VA		
Receptacle	75040 VA	56.66%	42520 VA	**Total Conn. Load:**	81254 VA
Lighting	1414 VA	100.00%	1414 VA	**Total Est. Demand:**	48734 VA
				Total Conn.:	226 A
				Total Est. Demand:	135 A

Notes:

Branch Panel: 55-DP-TRB

Location: ELEC 1C 111
Supply From: DP/55-1N3
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22k
Mains Rating: 400 A
Mains: 400A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL 55-1A129B	100 A	3	4253...	4253...					3	100 A	PANEL 55-1B104B	2
3	--	--	--			3533...	3533...			--	--	--	4
5	--	--	--					3533...	3533...	--	--	--	6
7	PANEL 55-1C132B	100 A	3	4253...	4253...					3	100 A	PANEL 55-2A136B	8
9	--	--	--			3533...	3533...			--	--	--	10
11	--	--	--					3533...	3533...	--	--	--	12
13	PANEL 55-2C144B	100 A	3	4253...	4253...					3	100 A	PANEL 55-3A120B	14
15	--	--	--			3533...	3533...			--	--	--	16
17	--	--	--					3533...	3533...	--	--	--	18
19	PANEL 55-3C149B	100 A	3	4253...	0 VA					1	20 A	SPARE	20
21	--	--	--			3533...	0 VA			1	20 A	SPARE	22
23	--	--	--					3533...	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	100 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	100 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	100 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	100 VA	--	--	--	42
		Total Load:		29973 VA		24933 VA		24933 VA					
		Total Amps:		250 A		208 A		208 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	4800 VA	100.00%	4800 VA		
Receptacle	75040 VA	56.66%	42520 VA	**Total Conn. Load:**	79840 VA
				Total Est. Demand:	47320 VA
				Total Conn.:	222 A
				Total Est. Demand:	131 A

Notes:

Branch Panel: DP 55-C1

Location:
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 480/277 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42k
Mains Rating: 400 A
Mains: 400A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL 55-1C1	100 A	3	0 VA	0 VA					3	100 A	PANEL 55-2C3	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	PANEL 55-1C3	100 A	3	0 VA	0 VA					3	100 A	PANEL 55-3C1	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	PANEL 55-2C1	100 A	3	0 VA	0 VA					3	100 A	PANEL 55-3C3	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	SPARE	60 A	3	0 VA	2997...					3	225 A	55-DP-TRA VIA XFMR	20
21	--	--	--			0 VA	2634...			--	--	--	22
23	--	--	--					0 VA	2493...	--	--	--	24
25	SPARE	60 A	3	0 VA									26
27	--	--	--			0 VA							28
29	--	--	--					0 VA					30
31	SPACE	--	1	--									32
		Total Load:		29973 VA		26347 VA		24933 VA					
		Total Amps:		109 A		96 A		90 A					

(1) — CKT 20, CKT 22, CKT 24

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	4800 VA	100.00%	4800 VA		
Receptacle	75040 VA	56.66%	42520 VA	**Total Conn. Load:**	81254 VA
Lighting	1414 VA	100.00%	1414 VA	**Total Est. Demand:**	48734 VA
				Total Conn.:	98 A
				Total Est. Demand:	59 A

Notes:

Branch Panel: DP/55-1N3

Location:
Supply From: TR-55-1N3
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22k
Mains Rating: 500 A
Mains: LUGS ONLY

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	55-3N3-1	200 A	3	0 VA	0 VA					3	150 A	55-2N3-1	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	55-1N3-1	200 A	3	0 VA	2997...					3	400 A	55-DP-TRB	8
9	--	--	--			0 VA	2493...			--	--	--	10
11	--	--	--					0 VA	2493...	--	--	--	12
		Total Load:		29973 VA		24933 VA		24933 VA					
		Total Amps:		250 A		208 A		208 A					

(1) — CKT 8, CKT 10

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	4800 VA	100.00%	4800 VA		
Receptacle	75040 VA	56.66%	42520 VA	**Total Conn. Load:**	79840 VA
				Total Est. Demand:	47320 VA
				Total Conn.:	222 A
				Total Est. Demand:	131 A

Notes:

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

(1) EXISTING PANELBOARD TO BE MODIFIED; PROVIDE CIRCUIT BREAKER AS INDICATED.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES

SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKO — STATE OF WASHINGTON — 55681 — 3-31-23 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 55 - ELECTRICAL SCHEDULES
Approved:

Phase: CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO
Issue Date: 03/31/2022
Checked: LRL/WNM
Drawn: LLT/JPS

Project Number: 657-21-701JB
Building Number: 55
Drawing Number: 55EP701
291 OF 435

VA FORM 08 - 6231

Branch Panel: 56-DP-TRB

Location: BB 129
Supply From: TR-56-DP-TRAB
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65k
Mains Rating: 225 A
Mains: 225A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	4253...					3	100 A	PANEL 56-1A109B	2
3	SPARE	20 A	1			0 VA	3533...			--	--	--	4
5	PANEL 56-BA105B	100 A	3					4253...	3533...	--	--	--	6
7	--	--	--	3533...	4253...					3	100 A	PANEL 56-3A122B	8
9	--	--	--			3533...	3533...			--	--	--	10
11	PANEL 56-2A122B	100 A	3					4253...	3533...	--	--	--	12
13	--	--	--	3533...	0 VA					1	20 A	SPARE	14
15	--	--	--			3533...	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	0 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	0 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	0 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	0 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	0 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	0 VA	--	--	--	42
		Total Load:		15573 VA		14133 VA		15573 VA					
		Total Amps:		132 A		118 A		132 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	2400 VA	100.00%	2400 VA		
Receptacle	42880 VA	61.66%	26440 VA	**Total Conn. Load:**	45280 VA
				Total Est. Demand:	28840 VA
				Total Conn.:	126 A
				Total Est. Demand:	80 A

Notes:

Branch Panel: DP 56-C (2)

Location: EMERG ELEC BB 129
Supply From: TR-56-C
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 42k
Mains Rating: 1600 A
Mains: 1600A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL 56-CR	60 A	3	0 VA	0 VA					3	60 A	PANEL 56-SP1	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	PANEL 56-1CR	60 A	3	0 VA	0 VA					3	60 A	PANEL 56-2CR	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	PANEL 56-3CR	60 A	3	0 VA	1617...					3	225 A	56-DP-TRA	14
15	--	--	--			0 VA	1473...			--	--	--	16
17	--	--	--					0 VA	1577...	--	--	--	18
		Total Load:		16177 VA		14737 VA		15773 VA					
		Total Amps:		136 A		123 A		133 A					

(1)

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3000 VA	100.00%	3000 VA		
Receptacle	42880 VA	61.66%	26440 VA	**Total Conn. Load:**	46688 VA
Lighting	808 VA	100.00%	808 VA	**Total Est. Demand:**	30248 VA
				Total Conn.:	130 A
				Total Est. Demand:	84 A

Notes:

Branch Panel: 56-DP-TRA

Location: BB 129
Supply From: DP/56C
Mounting: SURFACE
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 65k
Mains Rating: 225 A
Mains: 225A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0 VA	4253...					3	100 A	PANEL 56-1A109A	2
3	SPARE	20 A	1			0 VA	3735...			--	--	--	4
5	PANEL 56-BA105A	100 A	3					4253...	3533...	--	--	--	6
7	--	--	--	3735...	4253...					3	100 A	PANEL 56-3A122A	8
9	--	--	--			3533...	3735...			--	--	--	10
11	PANEL 56-2A122A	100 A	3					4253...	3533...	--	--	--	12
13	--	--	--	3735...	0 VA					1	20 A	SPARE	14
15	--	--	--			3533...	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	20
21	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	22
23	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	24
25	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	32
33	SPARE	20 A	1			0 VA	100 VA			--	--	--	34
35	SPARE	20 A	1					0 VA	100 VA	--	--	--	36
37	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	38
39	SPARE	20 A	1			0 VA	100 VA			--	--	--	40
41	SPARE	20 A	1					0 VA	100 VA	--	--	--	42
		Total Load:		16177 VA		14737 VA		15773 VA					
		Total Amps:		136 A		123 A		133 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	3000 VA	100.00%	3000 VA		
Receptacle	42880 VA	61.66%	26440 VA	**Total Conn. Load:**	46688 VA
Lighting	808 VA	100.00%	808 VA	**Total Est. Demand:**	30248 VA
				Total Conn.:	130 A
				Total Est. Demand:	84 A

Notes:

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

(1) REMOVE EXISTING SPARE CIRCUIT BREAKER AND INSTALL NEW CIRCUIT BREAKER TO SUPPLY NEW LOAD.

(2) EXISTING POWER DISTRIBUTION EQUIPMENT TO BE MODIFIED AS SHOWN. REFERENCE ONE-LINE DIAGRAM ON SHEET 56EP601 FOR ADDITIONAL INFORMATION. ALL CIRCUITS SHALL BE EXISTING UNLESS OTHERWISE NOTED. THIS SCHEDULE IS PROVIDED TO SHOW BRANCH CIRCUITING ONLY AND IS NOT PROVIDED TO SHOW OVERALL LOAD OF PANEL.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES
SPEESDESIGNBUILD

STAMP

LOUIS R. LITTAO
STATE OF WASHINGTON
556881
3-31-22
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title	BLDG 56 - ELECTRICAL SCHEDULES
Approved:	
Phase	CONSTRUCTION DOCUMENTS
	FULLY SPRINKLERED
Project Title	EHRM - INFRASTRUCTURE UPGRADES
Location	ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO
Issue Date	03/31/2022
Checked	LRL/WNM
Drawn	LLT/JPS
Project Number	657-21-701JB
Building Number	56
Drawing Number	56EP701
	292 OF 435

VA FORM 08 - 6231

Branch Panel: 57-1N4 (1)

Location: ELEC 1B 137
Supply From: TR 57-1N4
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10k
Mains Rating: 225 A
Mains: 150A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES - 1B 136	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLES - 1B 136	2
3	RECEPTACLES - 1B 138c,g	20 A	1			0 VA	0 VA			1	20 A	RECEPTACLES - 1B 138a,b	4
5	SINK - 1B 138a	20 A	1					0 VA	0 VA	1	20 A	SINK - 1B 138b	6
7	REFRIGERATOR - 1B 138c	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLE - 1B 138c	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	COFFEE - 1B 138c	10
11	MICROWAVE - 1B 138c	20 A	1					0 VA	0 VA	1	20 A	EWC - 1B 138g	12
13	DOOR HARDWARE	20 A	1	0 VA	0 VA					1	20 A	FIRE ALARM EQPT - 1B 137	14
15	57-FCU-7	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	RECEPTACLES - C1-16,C1-18	20 A	1					0 VA	0 VA	1	20 A	RECEPTACLES - 1B 138,143	18
19	RECEPTACLES - MEZZANINE	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLES - MEZZANINE	20
21	RECEPTACLES - ROOF	20 A	1			0 VA	0 VA			2	20 A	HEATING WATER PUMP 57-HWP-3	22
23	RESERVED FOR DDC SYSTEM	20 A	1					0 VA	0 VA	--	--	--	24
25	RESERVED FOR DDC SYSTEM	20 A	1	0 VA	0 VA					1	20 A	SPARE	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	SPARE	20 A	1	0 VA	4253...					3	100 A	57-1B139A	32
33	SPARE	20 A	1			0 VA	3735...			--	--	--	34
35	SPARE	20 A	1					0 VA	3533...	--	--	--	36
37	IT PANEL 57-1T4-1 - 1B 140	60 A	3	0 VA	920 VA					3	100 A	57-1B139B	38
39	--	--	--			0 VA	200 VA			--	--	--	40
41	--	--	--					0 VA	200 VA	--	--	--	42
		Total Load:		5173 VA		3935 VA		3733 VA					
		Total Amps:		43 A		33 A		31 A					

(2) 37 (4) 41

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	1200 VA	100.00%	1200 VA		
Receptacle	11440 VA	93.71%	10720 VA	**Total Conn. Load:**	12842 VA
Lighting	202 VA	100.00%	202 VA	**Total Est. Demand:**	12122 VA
				Total Conn.:	36 A
				Total Est. Demand:	34 A

Notes:

Branch Panel: 57-1N6 (1)

Location: ELEC 1B 117
Supply From: TR 57-1N4
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10k
Mains Rating: 225 A
Mains: 225A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES - C1-1,2,31	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLES - 1B 117	2
3	RECEPTACLES - 1B 114	20 A	1			0 VA	0 VA			1	20 A	RECEPTACLES - 1B 113	4
5	RECEPTACLES - 1B 112	20 A	1					0 VA	0 VA	1	20 A	RECEPTACLES - 1B 111	6
7	RECEPTACLES - 1B 110	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLES - 1B 109	8
9	RECEPTACLES - 1B 108	20 A	1			0 VA	0 VA			1	20 A	RECEPTACLES - 1B 107	10
11	RECEPTACLES - 1B 101	20 A	1					0 VA	0 VA	1	20 A	RECEPTACLES - 1B 102	12
13	RECEPTACLES - 1B 103	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLES - 1B 104	14
15	RECEPTACLES - 1B 105	20 A	1			0 VA	0 VA			1	20 A	RECEPTACLES - 1B 115	16
17	RECEPTACLES - 1B 116	20 A	1					0 VA	0 VA	1	20 A	RECEPTACLES - C1-4,5	18
19	RECEPTACLES - 1B 100	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLES - C1-4,31	20
21	RECEPTACLES - 1B 106	20 A	1			0 VA	0 VA			1	20 A	RECEPTACLES - 1B 106	22
23	RECEPTACLES - C1-3,4	20 A	1					0 VA	0 VA	1	20 A	RECEPTACLES - C1-3,4,31	24
25	RECEPTACLES - 1B 118	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLES - 1B 119	26
27	SPARE	20 A	1			0 VA	0 VA			1	20 A	DOOR POWER	28
29	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	30
31	RECEPTACLES - C1-12	20 A	1	0 VA	0 VA					1	20 A	SINKS - 1B 123,124	32
33	RECEPTACLES - 1B 123,124	20 A	1			0 VA	0 VA			1	20 A	RECEPTACLES - 1B 125a	34
35	RECEPTACLES - 1B 125a	20 A	1					0 VA	0 VA	1	20 A	RECEPTACLES - 1B 125	36
37	RECEPTACLES - 1B 122	20 A	1	0 VA	0 VA					1	20 A	RECEPTACLE - 1B 122	38
39	TOASTER - 1B 122	20 A	1			0 VA	0 VA			1	20 A	MICROWAVE - 1B 122	40
41	COFFEE - 1B 122	20 A	1					0 VA	0 VA	1	20 A	VENDING MACH - 1B 122	42
43	RECEPTACLE - EAST EXTERIOR	20 A	1	0 VA	0 VA					1	20 A	VENDING - 1B 122	44
45	OVERHEAD DOOR - 1A 100	20 A	1			0 VA	0 VA			1	20 A	RECEPTACLES - C1-8	46
47	COPIER - 1B 106a	20 A	1					0 VA	0 VA	1	20 A	TV - 1B 100	48
49	SHRED IT - 1B 106a	20 A	1	0 VA	0 VA					1	20 A	VENDING - 1B 122	50
51	EWC - C1-12	20 A	1			0 VA	0 VA			1	20 A	PLOTTER - 1B 125	52
53	RESERVED FOR DDC SYSTEM	20 A	1					0 VA	0 VA	1	20 A	TRACK HOIST - 1A 100a	54
55	RESERVED FOR DDC SYSTEM	20 A	1	0 VA	0 VA					1	20 A	DOOR HARDWARE	56
57	DOOR HARDWARE	20 A	1			0 VA	0 VA			1	20 A	FIRE ALARM EQPT - 1B 117	58
59	57-FCU-3	20 A	1					0 VA	0 VA	1	20 A	57-FCU-4	60
61	57-UH-4	20 A	1	0 VA	0 VA					1	20 A	57-UH-5	62
63	WALK-THRU METAL DET C1-1	20 A	1			0 VA	0 VA			1	20 A	HEAT TRACE - ROOF DRAWIN	64
65	COUNTER RECEPT 1B 106A	20 A	1					0 VA	0 VA	1	20 A	SPARE	66
67	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	68
69	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	70
71	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	72
73	57-1B120A	100 A	3	4253...	0 VA					1	20 A	SPARE	74
75	--	--	--			3735...	0 VA			1	20 A	SPARE	76
77	--	--	--					3533...	0 VA	1	20 A	SPARE	78
79	57-1B120B	100 A	3	920 VA	0 VA					3	60 A	IT PANEL 571T6-2 - 1B 121	80
81	--	--	--			200 VA	0 VA			--	--	--	82
83	--	--	--					200 VA	0 VA	--	--	--	84
		Total Load:		5173 VA		3935 VA		3733 VA					
		Total Amps:		43 A		33 A		31 A					

(2) 73 (3) 79

SECTION 1 / SECTION 2

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	1200 VA	100.00%	1200 VA		
Receptacle	11440 VA	93.71%	10720 VA	**Total Conn. Load:**	12842 VA
Lighting	202 VA	100.00%	202 VA	**Total Est. Demand:**	12122 VA
				Total Conn.:	36 A
				Total Est. Demand:	34 A

Notes:

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

(1) EXISTING POWER DISTRIBUTION EQUIPMENT TO BE MODIFIED AS SHOWN. REFERENCE ONELINE DIAGRAM ON SHEET 57EP601 FOR ADDITIONAL INFORMATION. ALL CIRCUITS SHALL BE EXISTING UNLESS OTHERWISE NOTED. THIS SCHEDULE IS PROVIDED TO SHOW BRANCH CIRCUITING ONLY AND IS NOT PROVIDED TO SHOW OVERALL LOAD OF PANEL.

(2) REMOVE EXISTING SPARE CIRCUIT BREAKERS AND INSTALL NEW CIRCUIT BREAKER TO SUPPLY NEW LOAD.

(3) REMOVE EXISTING CIRCUIT BREAKER FEEDING EXISTING PANEL 57-1T6-1. INSTALL NEW CIRCUIT BREAKER TO SUPPLY NEW LOAD.

(4) REMOVE EXISTING CIRCUIT BREAKER FEEDING EXISTING PANEL 57-1T4-2. INSTALL NEW CIRCUIT BREAKER TO SUPPLY NEW LOAD.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES

SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAO — STATE OF WASHINGTON — 55681 — 3-31-22 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 57 - ELECTRICAL SCHEDULES
Approved:

Phase: CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO
Issue Date: 03/31/2022
Checked: LRL/WNM
Drawn: LLT/JPS

Project Number: 657-21-701JB
Building Number: 57
Drawing Number: 57EP701
293 OF 435

VA FORM 08 - 6231

Branch Panel: MDP-58 (2)

Location:
Supply From:
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating:
Mains Rating: 1000 A
Mains: LUGS ONLY

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL DP-1	400 A	3	0 VA	0 VA					3	225 A	PANEL 58L1	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	PANEL 58P1	225 A	3	0 VA	0 VA					3	225 A	PANEL 58L2	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	PANEL 58P2	400 A	3	0 VA	0 VA					3	100 A	PANEL 58P4	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	SPD	60 A	3	0 VA	4253...					3	100 A	PANEL 58-104A	20
21	--	--	--			0 VA	3735...			--	--	--	22
23	--	--	--					0 VA	3533...	--	--	--	24
25	SPACE	--	3	--	920 VA					3	100 A	PANEL 58-104B	26
27	--	--	--			--	200 VA			--	--	--	28
29	--	--	--					--	200 VA	--	--	--	30
31													32
33													34
35													36
37													38
39													40
41													42
		Total Load:		5173 VA		3935 VA		3733 VA					
		Total Amps:		43 A		33 A		31 A					

(1)

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	1200 VA	100.00%	1200 VA		
Receptacle	11440 VA	93.71%	10720 VA	**Total Conn. Load:**	12842 VA
Lighting	202 VA	100.00%	202 VA	**Total Est. Demand:**	12122 VA
				Total Conn.:	36 A
				Total Est. Demand:	34 A

Notes:

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

(1) INSTALL NEW CIRCUIT BREAKER TO SUPPLY NEW LOAD.

(2) EXISTING POWER DISTRIBUTION EQUIPMENT TO BE MODIFIED AS SHOWN. REFERENCE ONELINE DIAGRAM ON SHEET 58EP601 FOR ADDITIONAL INFORMATION. ALL CIRCUITS SHALL BE EXISTING UNLESS OTHERWISE NOTED. THIS SCHEDULE IS PROVIDED TO SHOW BRANCH CIRCUITING ONLY AND IS NOT PROVIDED TO SHOW OVERALL LOAD OF PANEL.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES
SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAO
STATE OF WASHINGTON
55681
3-31-22
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 58 - ELECTRICAL SCHEDULES

Approved:

Phase: CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: JEFFERSON BARRACKS - 1 JEFFERSON BARRACKS DRIVE - ST. LOUIS, MO 63125

Issue Date: 03/31/2022
Checked: LRL/WNM
Drawn: LLT/JPS

Project Number: 657-21-701JB
Building Number: 58
Drawing Number: 58EP701

VA FORM 08 - 6231

PANEL: MDP-60T (EXISTING) (3) — **SURFACE MOUNTED**
VOLT: 240/120V — 1 PHASE — 3 WIRE — **10 KAIC**
BUS: 400 AMP — **NEMA 1 ENCLOSURE**
MAIN 400 AMP, 2P

	CKT	LOAD	NUM	KEY	BREAKER AMP	POLE	VA PER PHASE A	VA PER PHASE B	BREAKER POLE	BREAKER AMP	KEY	NUM	LOAD	CKT	DESCRIPTION
LIGHTS RM'S 1-7, HALL, EXT	1	0		O	20	1	0		1	20	O		0	2	LIGHTS RM'S 8-15, HALL, EXT
LIGHTS RM'S 16-21	3	0		O	20	1		0	1	20	O		0	4	RECEPS RM 1,2,HALL
RECEPS RM'S 3-4	5	0		O	20	1	0		1	20	O		0	6	RECEPS RM'S 4,5
RECEPS RM'S 5-7	7	0		O	20	1		0	1	20	O		0	8	RECEPS RM 7
RECEPS RM 8	9	0		O	20	1	0		1	20	O		0	10	RECEPS RM'S 9-10
RECEPS RM'S 7,11-14	11	0		O	20	1		0	1	20	O		0	12	RECEPS RM 15, HALL
RECEPS RM 16, HALL	13	0		O	20	1	0		1	20	O		0	14	RECEPS RM 17
RECEPS RM'S 17-19	15	0		O	20	1		0	1	20	O		0	16	RECEPS RM'S 19-20
RECEPS RM 21	17	0		O	20	1	0		2	110	O		0	18	HVAC-1, 5 TON, 20 kW
HVAC-2, 5 TON, 20 kW	19	0		O	110	2		0	"	"	O		0	20	"
"	21	0		O	"	"	0		2	30	O		0	22	WATER HEATER (20 GAL)
FIRE ALARM CONTROL PANEL	23	0		O	20	1		0	"	"	O		0	24	"
UPS RECEP	25	0		O	20	1	0		1	20	O		0	26	RECEPS 109
(2) UPS RECEPTACLE	27	2880		O	30	1		2880	1	20	O		0	28	RECEPS 109
TRANSFER FAN	29	1176		O	20	1	1176		1	20	O		0	30	SPARE

M: MOTOR LOAD — N: NO CALCULATION/ INTERLOCKED — 0 — 0 — PANEL: NONE — LUGGED LOAD
S: SUBFED LOAD — L: LIGHTING LOAD — O: OTHER — 1176 — 2880 — DOWNSTREAM SUBFED AND PANEL LOAD
R: RECEPTACLE LOAD — K: KITCHEN LOAD — 1176 — 2880 — TOTAL PANEL LOAD

LOAD TYPE	DEMAND	DESIGN	CONNECTED	VALUE	TOTALS
L- GENERAL LIGHTING LOAD	125 %	0	0	59.2	% MAX PHASE IMBALANCE
R- RECEPTACLE LOAD (PER NEC ART. 220-13)	0	0	0	4.1	TOTAL CONNECTED kVA
M- MOTOR LOADS	100 %	0	0	16.9	TOTAL CONNECTED AMPS
K- KITCHEN RECEPTACLES 0 AT 0 %	0 %	0	0	0.0	25% OF LARGEST MOTOR AMPS
O-ALL OTHER LOADS	100 %	4056	4056	16.9	TOTAL DESIGN AMPS

Branch Panel: MDP-60 (3)

Location: TRANSFORMER RM 119 — **Volts:** 120/208 Wye — **A.I.C. Rating:**
Supply From: 60-XF2-BLDG 60 — **Phases:** 3 — **Mains Rating:** 1600 A
Mounting: Surface — **Wires:** 4 — **Mains:** 1600
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	90-ATS 90-1	400 A	3	0 VA	0 VA					3	800 A	90-ATS 90-2	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	SPARE	20 A	3	0 VA	0 VA					3	100 A	SPARE	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	SPARE	100 A	3	0 VA	0 VA					3	100 A	SPARE	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	SPARE	100 A	3	0 VA	2587...					3	100 A	60-102B	20
21	--	--	--			0 VA	1867...			--	--	--	22
23	--	--	--					0 VA	1867...	--	--	--	24
25	SPARE	100 A	3	0 VA	0 VA					3	400 A	SPARE	26
27	--	--	--			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
31	SPARE	400 A	3	0 VA									32
33	--	--	--			0 VA							34
35	--	--	--					0 VA					36
		Total Load:		2587 VA		1867 VA		1867 VA					
		Total Amps:		22 A		16 A		16 A					

(1)

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	6320 VA	100.00%	6320 VA		
				Total Conn. Load:	6320 VA
				Total Est. Demand:	6320 VA
				Total Conn.:	18 A
				Total Est. Demand:	18 A

Notes:

Branch Panel: DP-60EM (3)

Location: — **Volts:** 120/208 Wye — **A.I.C. Rating:**
Supply From: 90-ATS 90-2 — **Phases:** 3 — **Mains Rating:** 1200 A
Mounting: Surface — **Wires:** 4 — **Mains:** 800A/3P
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PNL-B	400 A	3	0 VA	0 VA					3	400 A	60-P2	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	GB BLDG 90	225 A	3	0 VA	0 VA					3	100 A	EXHAUST HOODS	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	EM LIGHTS	100 A	3	0 VA	0 VA					3	400 A	MDP-60T	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	60-B1	225 A	3	0 VA	0 VA					3	100 A	P4A	20
21	--	--	--			0 VA	0 VA			--	--	--	22
23	--	--	--					0 VA	0 VA	--	--	--	24
25	60-102A	20 A	3	2587...									26
27	--	--	--			2069...							28
29	--	--	--					1867...					30
		Total Load:		2587 VA		2069 VA		1867 VA					
		Total Amps:		22 A		17 A		16 A					

(1)

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	6320 VA	100.00%	6320 VA		
Lighting	202 VA	100.00%	202 VA		
				Total Conn. Load:	6522 VA
				Total Est. Demand:	6522 VA
				Total Conn.:	18 A
				Total Est. Demand:	18 A

Notes:

GENERAL NOTES

1. ALL CIRCUITS EXISTING UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
3. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

(1) UTILIZE EXISTING SPARE CIRCUIT BREAKER TO SUPPLY NEW LOAD.
(2) PROVIDE NEW CIRCUIT BREAKER IN EXISTING SPACE TO SUPPLY NEW LOAD.
(3) EXISTING POWER DISTRIBUTION EQUIPMENT TO BE MODIFIED AS SHOWN. REFERENCE ONELINE DIAGRAM ON SHEET 60EP601 FOR ADDITIONAL INFORMATION. ALL CIRCUITS SHALL BE EXISTING UNLESS OTHERWISE NOTED. THIS SCHEDULE IS PROVIDED TO SHOW BRANCH CIRCUITING ONLY AND IS NOT PROVIDED TO SHOW OVERALL LOAD OF PANEL.

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD
A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES
SDB SPEESDESIGNBUILD

STAMP
LOUIS R. LITZAU — STATE OF WASHINGTON — 55681 — 6-30-23 — REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 60 AND 60T - ELECTRICAL SCHEDULES
Approved:
Phase: CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO
Issue Date: 03/31/2022
Checked: LRL/WNM
Drawn: LLT/JPS
Project Number: 657-21-701JB
Building Number: 60
Drawing Number: 60EP701
295 OF 435

VA FORM 08 - 6231

Branch Panel: 75-DP-TRAB

Location: BOILER BAY 1A 101
Supply From: TR 75N
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22k
Mains Rating: 200 A
Mains: 200A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	PANEL 75-1B105A	100 A	3	4253...	4253...					3	100 A	PANEL 75-1B105B	2
3	--	--	--			3735...	3533...			--	--	--	4
5	--	--	--					3533...	3533...	--	--	--	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
		Total Load:		8707 VA		7469 VA		7267 VA					
		Total Amps:		73 A		62 A		61 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	1800 VA	100.00%	1800 VA		
Receptacle	21440 VA	73.32%	15720 VA	**Total Conn. Load:**	23442 VA
Lighting	202 VA	100.00%	202 VA	**Total Est. Demand:**	17722 VA
				Total Conn.:	65 A
				Total Est. Demand:	49 A

Notes:

GENERAL NOTES

1. CONTRACTOR SHALL UPDATE ALL PANEL CIRCUIT DIRECTORIES TO INDICATE ANY AND ALL CHANGES; ALL REVISED CIRCUIT DIRECTORIES SHALL BE TYPEWRITTEN.
2. REFERENCE SHEETS EP701 AND EP702 FOR ALL TYPICAL TR SOURCE-A AND SOURCE-B PANEL SCHEDULES.

KEY NOTES

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES
SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAO
STATE OF WASHINGTON
55681
3-31-22
REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: BLDG 75 - ELECTRICAL SCHEDULES
Approved:
Phase: CONSTRUCTION DOCUMENTS
FULLY SPRINKLERED
Project Title: EHRM INFRASTRUCTURE UPGRADES
Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS, MO
Issue Date: 03/31/2022
Checked: LRL/WNM
Drawn: LLT/JPS
Project Number: 657-21-701JB
Building Number: 75
Drawing Number: 75EP701
296 OF 435

VA FORM 08 - 6231

GENERAL NOTES

KEY NOTES

1 TYPICAL PANEL SCHEDULE. REFERENCE PLANS FOR ALL LOCATIONS USED.

Branch Panel: SOURCE A POWER TR PANEL, TYPICAL - TYPE 3

Location: SEE PANEL SCHEDULE NOTE (1) **Volts:** 120/208 Wye **A.I.C. Rating:**
Supply From: SEE PANEL SCHEDULE NOTE **Phases:** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains:** 100A / 3P
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SERVER RACK RACEPTACLE	60 A	3	5000...	720 VA					1	20 A	RECEPTACLES - TR ROOM	2
3	--	--	--			5000...	202 VA			1	20 A	LIGHTING - TR ROOM	4
5	--	--	--					5000...	1768...	2	20 A	DUCTLESS SPLIT COOLING UNIT	6
7	SPARE	20 A	1	0 VA	1768...					--	--	--	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
			Total Load:	7688 VA		5402 VA		6968 VA					
			Total Amps:	66 A		45 A		60 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	3536 VA	125.00%	4420 VA		
Other	15600 VA	100.00%	15600 VA	**Total Conn. Load:**	20058 VA
Receptacle	720 VA	100.00%	720 VA	**Total Est. Demand:**	20942 VA
Lighting	202 VA	100.00%	202 VA	**Total Conn.:**	56 A
				Total Est. Demand:	58 A

Notes:

Branch Panel: SOURCE A POWER TR PANEL, TYPICAL - TYPE 2

Location: SEE PANEL SCHEDULE NOTE (1) **Volts:** 120/208 Wye **A.I.C. Rating:**
Supply From: SEE PANEL SCHEDULE NOTE **Phases:** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains:** 100A / 3P
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SERVER RACK RACEPTACLE	30 A	3	3333...	720 VA					1	20 A	RECEPTACLES - TR ROOM	2
3	--	--	--			3333...	202 VA			1	20 A	LIGHTING - TR ROOM	4
5	--	--	--					3333...	1768...	2	20 A	DUCTLESS SPLIT COOLING UNIT	6
7	SPARE	20 A	1	0 VA	1768...					--	--	--	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
			Total Load:	6021 VA		3736 VA		5301 VA					
			Total Amps:	52 A		31 A		46 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	3536 VA	125.00%	4420 VA		
Other	10600 VA	100.00%	10600 VA	**Total Conn. Load:**	15058 VA
Receptacle	720 VA	100.00%	720 VA	**Total Est. Demand:**	15942 VA
Lighting	202 VA	100.00%	202 VA	**Total Conn.:**	42 A
				Total Est. Demand:	44 A

Notes:

Branch Panel: SOURCE A POWER TR PANEL, TYPICAL - TYPE 1

Location: SEE PANEL SCHEDULE NOTE (1) **Volts:** 120/208 Wye **A.I.C. Rating:** 22k
Supply From: SEE PANEL SCHEDULE NOTE **Phases:** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains:** 100A / 3P
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SERVER RACK RACEPTACLE	20 A	3	1667...	720 VA					1	20 A	RECEPTACLES - TR ROOM	2
3	--	--	--			1667...	202 VA			1	20 A	LIGHTING - TR ROOM	4
5	--	--	--					1667...	1768...	2	20 A	DUCTLESS SPLIT COOLING UNIT	6
7	SPARE	20 A	1	0 VA	1768...					--	--	--	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
			Total Load:	4355 VA		2069 VA		3635 VA					
			Total Amps:	38 A		17 A		32 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	3536 VA	125.00%	4420 VA		
Other	5600 VA	100.00%	5600 VA	**Total Conn. Load:**	10058 VA
Receptacle	720 VA	100.00%	720 VA	**Total Est. Demand:**	10942 VA
Lighting	202 VA	100.00%	202 VA	**Total Conn.:**	28 A
				Total Est. Demand:	30 A

Notes:

Branch Panel: SOURCE B POWER TR PANEL, TYPICAL - TYPE 3

Location: SEE PANEL SCHEDULE NOTE (1) **Volts:** 120/208 Wye **A.I.C. Rating:** 22k
Supply From: SEE PANEL SCHEDULE NOTE **Phases:** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains:** 100A / 3P
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SERVER RACK RACEPTACLE	60 A	3	5000...	720 VA					1	20 A	RECEPTACLES - TR ROOM	2
3	--	--	--			5000...	0 VA			1	20 A	SPARE	4
5	--	--	--					5000...	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
			Total Load:	5920 VA		5200 VA		5200 VA					
			Total Amps:	49 A		43 A		43 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	15600 VA	100.00%	15600 VA		
Receptacle	720 VA	100.00%	720 VA	**Total Conn. Load:**	16320 VA
				Total Est. Demand:	16320 VA
				Total Conn.:	45 A
				Total Est. Demand:	45 A

Notes:

Branch Panel: SOURCE B POWER TR PANEL, TYPICAL - TYPE 2

Location: SEE PANEL SCHEDULE NOTE (1) **Volts:** 120/208 Wye **A.I.C. Rating:** 22k
Supply From: SEE PANEL SCHEDULE NOTE **Phases:** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains:** 100A / 3P
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SERVER RACK RACEPTACLE	30 A	3	3333...	720 VA					1	20 A	RECEPTACLES - TR ROOM	2
3	--	--	--			3333...	0 VA			1	20 A	SPARE	4
5	--	--	--					3333...	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
			Total Load:	4253 VA		3533 VA		3533 VA					
			Total Amps:	35 A		29 A		29 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	10600 VA	100.00%	10600 VA		
Receptacle	720 VA	100.00%	720 VA	**Total Conn. Load:**	11320 VA
				Total Est. Demand:	11320 VA
				Total Conn.:	31 A
				Total Est. Demand:	31 A

Notes:

Branch Panel: SOURCE B POWER TR PANEL, TYPICAL - TYPE 1

Location: SEE PANEL SCHEDULE NOTE (1) **Volts:** 120/208 Wye **A.I.C. Rating:** 22k
Supply From: SEE PANEL SCHEDULE NOTE **Phases:** 3 **Mains Rating:** 100 A
Mounting: Surface **Wires:** 4 **Mains:** 100A / 3P
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SERVER RACK RACEPTACLE	20 A	3	1667...	720 VA					1	20 A	RECEPTACLES - TR ROOM	2
3	--	--	--			1667...	0 VA			1	20 A	SPARE	4
5	--	--	--					1667...	0 VA	1	20 A	SPARE	6
7	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	8
9	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	10
11	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
			Total Load:	2587 VA		1867 VA		1867 VA					
			Total Amps:	22 A		16 A		16 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	5600 VA	100.00%	5600 VA		
Receptacle	720 VA	100.00%	720 VA	**Total Conn. Load:**	6320 VA
				Total Est. Demand:	6320 VA
				Total Conn.:	18 A
				Total Est. Demand:	18 A

Notes:

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES

SPEESDESIGNBUILD

STAMP

LOUIS R. LITZKO STATE OF WASHINGTON 55681 REGISTERED PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

U.S. Department of Veterans Affairs

Drawing Title: TYPICAL ELECTRICAL SCHEDULES

Approved:

Phase: CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title: EHRM INFRASTRUCTURE UPGRADES

Location: ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS MO

Issue Date: 03/31/2022 **Checked:** LRL/WNM **Drawn:** LLT/JPS

Project Number: 657-21-701JB

Building Number: -

Drawing Number: EP701

297 OF 435

VA FORM 08 - 6231

GENERAL NOTES

KEY NOTES

1 TYPICAL PANEL SCHEDULE. REFERENCE PLANS FOR ALL LOCATIONS USED.

Branch Panel: SOURCE A POWER TR PANEL, TYPICAL - TYPE 1.1

Location: SEE PANEL SCHEDULE NOTE 1
Supply From: SEE PANEL SCHEDULE NOTE
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22k
Mains Rating: 100 A
Mains: 100A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667...	720 VA					1	20 A	RECEPTACLES - TR ROOM	2
3	--	--	--			1667...	202 VA			1	20 A	LIGHTING - TR ROOM	4
5	--	--	--					1667...	1768...	2	20 A	DUCTLESS SPLIT COOLING UNIT	6
7	SERVER RACK RECEPTACLE	20 A	3	1667...	1768...					--	--	--	8
9	--	--	--			1667...	0 VA			1	20 A	SPARE	10
11	--	--	--					1667...	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
			Total Load:	6021 VA		3736 VA		5301 VA					
			Total Amps:	52 A		31 A		46 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	3536 VA	125.00%	4420 VA		
Other	600 VA	100.00%	600 VA	**Total Conn. Load:**	15058 VA
Receptacle	10720 VA	96.64%	10360 VA	**Total Est. Demand:**	15582 VA
Lighting	202 VA	100.00%	202 VA	**Total Conn.:**	42 A
				Total Est. Demand:	43 A

Notes:

Branch Panel: SOURCE B POWER TR PANEL, TYPICAL - TYPE 1.1

Location: SEE PANEL SCHEDULE NOTE 1
Supply From: SEE PANEL SCHEDULE NOTE
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22k
Mains Rating: 100 A
Mains: 100A / 3P

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	SERVER RACK RECEPTACLE	20 A	3	1667...	720 VA					1	20 A	RECEPTACLES - TR ROOM	2
3	--	--	--			1667...	0 VA			1	20 A	SPARE	4
5	--	--	--					1667...	0 VA	1	20 A	SPARE	6
7	SERVER RACK RECEPTACLE	20 A	3	1667...	0 VA					1	20 A	SPARE	8
9	--	--	--			1667...	0 VA			1	20 A	SPARE	10
11	--	--	--					1667...	0 VA	1	20 A	SPARE	12
13	SPARE	20 A	1	0 VA	0 VA					1	20 A	SPARE	14
15	SPARE	20 A	1			0 VA	0 VA			1	20 A	SPARE	16
17	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	18
19	SPARE	20 A	1	0 VA	100 VA					3	20 A	DIGITAL POWER METER	20
21	SPARE	20 A	1			0 VA	100 VA			--	--	--	22
23	SPARE	20 A	1					0 VA	100 VA	--	--	--	24
25	SPARE	20 A	1	0 VA	100 VA					3	20 A	SPD	26
27	SPARE	20 A	1			0 VA	100 VA			--	--	--	28
29	SPARE	20 A	1					0 VA	100 VA	--	--	--	30
			Total Load:	4253 VA		3533 VA		3533 VA					
			Total Amps:	35 A		29 A		29 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	600 VA	100.00%	600 VA		
Receptacle	10720 VA	96.64%	10360 VA	**Total Conn. Load:**	11320 VA
				Total Est. Demand:	10960 VA
				Total Conn.:	31 A
				Total Est. Demand:	30 A

Notes:

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

A/E:
SPEES DESIGN BUILD
625 1ST AVE, STE 301
SEATTLE, WA 98104
(206) 590-2118
RAY SPEES

SDB SPEESDESIGNBUILD

STAMP

LOUIS R. LITZAU
STATE OF WASHINGTON
55681
6-30-23
REGISTERED
PROFESSIONAL ENGINEER

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title
TYPICAL ELECTRICAL SCHEDULES

Approved:

Phase
CONSTRUCTION DOCUMENTS

FULLY SPRINKLERED

Project Title
EHRM INFRASTRUCTURE UPGRADES

Location
ST. LOUIS VA MEDICAL CENTER - JEFFERSON BARRACKS MO

Issue Date 03/31/2022
Checked LRL/WNM
Drawn LLT/JPS

Project Number 657-21-701JB
Building Number
Drawing Number EP702

VA FORM 08 - 6231