PANEL A1

PANEL: A1 | TYPE: NQOD | LOCATION: ELECTRICAL RM | VOLTAGE: 208Y/120 | PHASE 3 WIRES 4 | AIC 10,000 AMPS | MOUNTING: FLUSH / X SURFACE | FEED: TOP / X BOTTOM | MAINS: 225 AMP, X LUGS, BREAKER | DIMS.: 20" W, 5.75" D, 35" H | SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BRKR, NEMA 3R, SURGE PROTECTOR

CIR NO.	CIRCUIT DESCRIPTION	CODE	LTS	CO	MIS	P	AMP	WIRE SIZE	CIRCUIT LOAD	A	B	C	CIRCUIT LOAD	WIRE SIZE	AMP	P	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	GEN RECEPTS			3		1	20	12	540	1140			600	12	20	1			X	4	ELEVATOR LTG	2
3	GEN RECEPTS			2		1	20	12	360		7817		7457		-	-					---	4
5	REST RM RECEPTS			2		1	20	12	360			7817	7457		100	3	1			1	ELEVATOR	6
7	GEN RECEPTS			4		1	20	12	720	8177			7457		-	-					---	8
9	GEN RECEPTS			6		1	20	12	1080		1200		120	12	15	1	1				FAN COIL	10
11	BLG A EXT REC			2		1	20	12	360			610	250	12	20	1		1	X		ELEV. EQ RM	12
13	GEN RECEPTS			4		1	20	12	720	840			120	12	15	1	1				FAN COIL	14
15	GEN RECEPTS			4		1	20	12	720		4320		3600		30	1	1			1	WATER HEATER	16
17	GEN RECEPTS			3		1	20	12	540			4140	3600		30	1	1			1	WATER HEATER	18
19	TELEPHONE BRD			2		1	20	12	720	4320			3600		30	1	1			1	WATER HEATER	20
21	AIR COMPRESSOR	1			1	2	30		2631		6231		3600		30	1	1			1	WATER HEATER	22
23	---					-	-		2631			6791	4160		40	2	1			1	WATER HEATER	24
25	WATER COOLER				1	1	20	12	600	4760			4160		-	-					---	26
27	GEN RECEPTS			3		1	20	12	540		1040		500	12	20	1				4	FACP	28
29	LIFT	1			1	2	20		1920			1920			20	1					SPARE	30
31	---					-	-		1920	1920					20	1					SPARE	32
33	LIFT	1			1	2	20		1920		1920				20	1					SPARE	34
35	---					-	-		1920			1920			20	1					SPARE	36
37	SPARE					1	20			0					20	1					SPARE	38
39	SPARE					1	20				0				20	1					SPARE	40
41	SPARE					1	20					0			20	1					SPARE	42

NOTE:

PHASE TOTALS	A	B	C	CONN LOAD
VA	21157	22528	23198	67 KVA
DIV				AV. AMPS
AMPS	176	188	193	186 A

CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = SUBFEED BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER; 6 = GFEP BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

PANEL A2

PANEL: A2 | TYPE: NQOD | LOCATION: ELECTRICAL RM | VOLTAGE: 208Y/120 | PHASE 3 WIRES 4 | AIC 10,000 AMPS | MOUNTING: FLUSH / X SURFACE | FEED: TOP / X BOTTOM | MAINS: 225 AMP, X LUGS, BREAKER | DIMS.: 20" W, 5.75" D, 35" H | SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BRKR, NEMA 3R, SURGE PROTECTOR

CIR NO.	CIRCUIT DESCRIPTION	CODE	LTS	CO	MIS	P	AMP	WIRE SIZE	CIRCUIT LOAD	A	B	C	CIRCUIT LOAD	WIRE SIZE	AMP	P	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	AREA A LTG UPPER		X			1	20	10	1000	2424			1424	10	20	1			X		AREA B LTG	2
3	AREA C LTG		X			1	20	10	1330		2754		1424	10	20	1			X		AREA B LTG	4
5	AREA C LTG		X			1	20	10	1424			2848	1424	10	20	1			X		AREA B LTG	6
7	AREA C LTG		X			1	20	10	1424	2848			1424	10	20	1			X		AREA B LTG	8
9	AREA C LTG		X			1	20	10	1424		2848		1424	10	20	1			X		AREA B LTG	10
11	AREA C LTG		X			1	20	10	1330			3134	1710	10	20	1			X		AREA B LTG	12
13	AREA A LTG		X			1	20	10	1330	3040			1710	10	20	1			X		AREA B LTG	14
15	AREA A LTG		X			1	20	12	1888		2168		280	12	20	1		1	X		ELEVATOR PIT	16
17	AREA A LTG		X			1	20	12	1540			1848	308	10	20	1			X		EXTERIOR LTG	18
19	AREA A LTG		X			1	20	12	632	2382			1750	10	20	1					BLDG D EXT LTG	20
21	LTG CONT PANEL					1	20	12	200		200				20	1					SPARE	22
23	BLDG A SIGN					1	20	12	600			600			20	1					SPARE	24
25	BLDG A SIGN					1	20	12	600	600					20	1					SPARE	26
27	BLDG B SIGN					1	20	10	1000		1000				20	1					SPARE	28
29	BLDG B SIGN					1	20	10	1000			1000			20	1					SPARE	30
31	MONUMENT SIGN					1	20	8	2000	6780			4780		80	3	1			1	RHP-72	32
33	-					1	20	-	2000		6780		4780		-	-					---	34
35	SPARE					1	20					4780	4780		-	-					---	36
37	SPARE					1	20			4780			4780		80	3	1			1	RHP-72	38
39	SPARE					1	20				4780		4780		-	-					---	40
41	SPARE					1	20					4780	4780		-	-					---	42

NOTE:

PHASE TOTALS	A	B	C	CONN LOAD
VA	22854	20530	18990	62 KVA
DIV				AV. AMPS
AMPS	190	171	158	173 A

CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = SUBFEED BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER; 6 = GFEP BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

PANEL A3

PANEL: A3 | TYPE: NQOD | LOCATION: ELECTRICAL RM | VOLTAGE: 208Y/120 | PHASE 3 WIRES 4 | AIC 10,000 AMPS | MOUNTING: FLUSH / X SURFACE | FEED: TOP / X BOTTOM | MAINS: 225 AMP, X LUGS, BREAKER | DIMS.: 20" W, 5.75" D, 35" H | SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BRKR, NEMA 3R, SURGE PROTECTOR

CIR NO.	CIRCUIT DESCRIPTION	CODE	LTS	CO	MIS	P	AMP	WIRE SIZE	CIRCUIT LOAD	A	B	C	CIRCUIT LOAD	WIRE SIZE	AMP	P	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	---					-	-		4780	6548			1768		20	2	1			1	CONDENSING UNIT	2
3	RHP-72	1				3	80		4780		6548		1768		-	-					---	4
5	---					-	-		4780			6548	1768		20	2	1			1	CONDENSING UNIT	6
7	---					-	-		478	2246			1768		-	-					---	8
9	RHP-72	1				3	80		4780		4780				20	1					SPARE	10
11	---					-	-		4780			4780			20	1					SPARE	12
13	COND UNIT	1				2	20		1768	1768					20	1					SPARE	14
15	---					-	-		1768		1768				20	1					SPARE	16
17	COND UNIT	1				2	20		1768			1768			20	1					SPARE	18
19	---					-	-		1768	1768					20	1					SPARE	20
21	WATER HEATER	1				2	30		3120		3120				20	1					SPARE	22
23	---					-	-		3120			3120			20	1					SPARE	24
25	HVAC SERVICE REC			1		1	20	12	180	180					20	1					SPARE	26
27	DUCT SMOKE DET	4			4	1	20	12	200		200				20	1					SPARE	28
29	---					-	-		3338			3338			20	1					SPARE	30
31	HEATER	1			1	3	30		3338	3338					20	1					SPARE	32
33	---					-	-		3338		3338				20	1					SPARE	34
35	SPARE					1	20					0			20	1					SPARE	36
37	SPARE					1	20			0					20	1					SPARE	38
39	SPARE					1	20				0				20	1					SPARE	40
41	SPARE					1	20					0			20	1					SPARE	42

NOTE:

PHASE TOTALS	A	B	C	CONN LOAD
VA	15848	19754	19554	55 KVA
DIV				AV. AMPS
AMPS	132	165	163	153 A

CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = SUBFEED BREAKER; 4 = PROVIDE LOCK ON DEVICE; 5 = GFCI BREAKER; 6 = GFEP BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

PANEL B1

PANEL: B1 | TYPE: NQOD | LOCATION: SERVICE BAYS | VOLTAGE: 208Y/120 | PHASE 3 WIRES 4 | AIC 10,000 AMPS | MOUNTING: FLUSH / X SURFACE | FEED: TOP / X BOTTOM | MAINS: 225 AMP, X LUGS, BREAKER | DIMS.: 20" W, 5.75" D, 35" H | SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BRKR, NEMA 3R, SURGE PROTECTOR

CIR NO.	CIRCUIT DESCRIPTION	CODE	LTS	CO	MIS	P	AMP	WIRE SIZE	CIRCUIT LOAD	A	B	C	CIRCUIT LOAD	WIRE SIZE	AMP	P	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	LIFT	1			1	2	20		1920	2920			1000	12	20	1	1				MECH STATION	2
3	---					-	-		1920		2920		1000	12	20	1	1				MECH STATION	4
5	LIFT	1			1	2	20		1920			2920	1000	12	20	1	1				MECH STATION	6
7	---					-	-		1920	6420			4500		50	2	1			1	WELDER	8
9	LIFT	1			1	2	20		1920		6420		4500		-	-					---	10
11	---					-	-		1920			4720	2800		30	2	1			1	WELDER	12
13	EXTERIOR REC			4		1	20	12	720	3520			2800		-	-					---	14
15	EXTERIOR REC			3		1	20	12	900		1837		937		-	-					---	16
17	GEN RECEPT			2		1	20	12	720			1657	937		15	3	1			1	EF-2	18
19	GEN RECEPT			2		1	20	12	720	1657			937		-	-					---	20
21	GEN RECEPT	5		2		1	20	12	720		864		144	12	20	1	1				EC-1 PUMP	22
23	GEN RECEPT	5		2		1	20	12	720			1621	901		-	-					---	24
25	WATER COOLER				1	1	20	12	600	1501			901		20	3	1			1	EC-1 BLOWER	26
27	---					-	-		3338		4239		901		-	-					---	28
29	HEATER	1			1	3	30		3338			3698	360	12	20	1		1			GEN RECEPT	30
31	---					-	-		3338	3698			360	12	20	1		1			GEN RECEPT	32
33	---					-	-		3338		5738		2400	10	30	1					CBU-1	34
35	HEATER	1			1	3	30		3338			3338			20	1					SPARE	36
37	---					-	-		3338	3338					20	1					SPARE	38
39	WATER HEATER	1				2	40		4160		4160				20	1					SPARE	40
41	---					-	-		4160			4160			20	1					SPARE	42

NOTE:

PHASE TOTALS	A	B	C	CONN LOAD
VA	23054	26178	22114	71 KVA
DIV				AV. AMPS
AMPS	192	218	184	198 A

CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = SUBFEED BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER; 6 = GFEP BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

PANEL B2

PANEL: B2 | TYPE: NQOD | LOCATION: SERVICE BAYS | VOLTAGE: 208Y/120 | PHASE 3 WIRES 4 | AIC 10,000 AMPS | MOUNTING: FLUSH / X SURFACE | FEED: TOP / X BOTTOM | MAINS: 225 AMP, X LUGS, BREAKER | DIMS.: 20" W, 5.75" D, 35" H | SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BRKR, NEMA 3R, SURGE PROTECTOR

CIR NO.	CIRCUIT DESCRIPTION	CODE	LTS	CO	MIS	P	AMP	WIRE SIZE	CIRCUIT LOAD	A	B	C	CIRCUIT LOAD	WIRE SIZE	AMP	P	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	LIFT	1			1	2	20		1920	2920			1000	12	20	1	1				MECH STATION	2
3	---					-	-		1920		2920		1000	12	20	1	1				MECH STATION	4
5	LIFT	1			1	2	20		1920			2920	1000	12	20	1	1				MECH STATION	6
7	---					-	-		1920	6420			4500		50	2	1			1	WELDER	8
9	LIFT	1			1	2	20		1920		6420		4500		-	-					---	10
11	---					-	-		1920			4720	2800		30	2	1			1	WELDER	12
13	LIFT	1			1	2	20		1920	4720			2800		-	-					---	14
15	---					-	-		1920		2920		1000	12	20	1	1				MECH STATION	16
17	GEN RECEPT			2		1	20	12	360			1360	1000	12	20	1	1				MECH STATION	18
19	GEN RECEPT			2		1	20	12	360	504			144	12	20	1	1				EC-1 PUMP	20
21	GEN RECEPT			2		1	20	12	360		1261		901		-	-					---	22
23	GEN RECEPT			2		1	20	12	360			1261	901		20	3	1			1	EC-1 BLOWER	24
25	GEN RECEPT			2		1	20	12	360	1261			901		-	-					---	26
27	GEN RECEPT			2		1	20	12	360		4860		4500		50	2	1			1	WELDER	28
29	---					-	-		3338			7838	4500		-	-					---	30
31	HEATER	1			1	3	30		3338	3338					20	1					SPARE	32
33	---					-	-		3338		3338				20	1					SPARE	34
35	---					-	-		3338			3338			20	1					SPARE	36
37	HEATER	1			1	3	30		3338	3338					20	1					SPARE	38
39	---					-	-		3338		3338				20	1					SPARE	40
41	EXTERIOR REC			4		1	20	12	720			720			20	1					SPARE	42

NOTE:

PHASE TOTALS	A	B	C	CONN LOAD
VA	22501	25057	22157	70 KVA
DIV				AV. AMPS
AMPS	188	209	185	194 A

CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = SUBFEED BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER; 6 = GFEP BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

PANEL C1

PANEL: C1 | TYPE: NQOD | LOCATION: SERVICE BAYS | VOLTAGE: 208Y/120 | PHASE 3 WIRES 4 | AIC 22,000 AMPS | MOUNTING: FLUSH / X SURFACE | FEED: TOP / X BOTTOM | MAINS: 225 AMP, X LUGS, BREAKER | DIMS.: 20" W, 5.75" D, 35" H | SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BRKR, NEMA 3R, SURGE PROTECTOR

CIR NO.	CIRCUIT DESCRIPTION	CODE	LTS	CO	MIS	P	AMP	WIRE SIZE	CIRCUIT LOAD	A	B	C	CIRCUIT LOAD	WIRE SIZE	AMP	P	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	LIFT	1			1	2	20		1920	2920			1000	12	20	1	1				MECH STATION	2
3	---					-	-		1920		2920		1000	12	20	1	1				MECH STATION	4
5	LIFT	1			1	2	20		1920			2920	1000	12	20	1	1				MECH STATION	6
7	---					-	-		1920	6420			4500		50	2	1			1	WELDER	8
9	LIFT	1			1	2	20		1920		6420		4500		-	-					---	10
11	---					-	-		1920			4720	2800		30	2	1			1	WELDER	12
13	EXTERIOR REC			4		1	20	12	720	3520			2800		-	-					---	14
15	EXTERIOR REC			3		1	20	12	540		1477		937		-	-					---	16
17	GEN RECEPT			2		1	20	12	360			1297	937		15	3	1			1	EF-2	18
19	GEN RECEPT			2		1	20	12	360	1297			937		-	-					---	20
21	GEN RECEPT			2		1	20	12	360		504		144	12	20	1	1				EC-1 PUMP	22
23	GEN RECEPT			2		1	20	12	360			1261	901		-	-					---	24
25	WATER COOLER				1	1	20	12	600	1501			901		20	3	1			1	EC-1 BLOWER	26
27	---					-	-		3338		4239		901		-	-					---	28
29	HEATER	1			1	3	30		3338			3338			20	1					SPARE	30
31	---					-	-		3338	3338					20	1					SPARE	32
33	---					-	-		3338		5738		2400		30	1					CBU-1	34
35	HEATER	1			1	3	30		3338			3338			20	1					SPARE	36
37	---					-	-		3338	3338					20	1					SPARE	38
39	WATER HEATER	1				2	40		4160		4160				20	1					SPARE	40
41	---					-	-		4160			4160			20	1					SPARE	42

NOTE:

PHASE TOTALS	A	B	C	CONN LOAD
VA	22334	25458	21034	69 KVA
DIV				AV. AMPS
AMPS	186	212	175	191 A

CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = SUBFEED BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER; 6 = GFEP BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

PANEL C2

PANEL: C2 | TYPE: NQOD | LOCATION: SERVICE BAYS | VOLTAGE: 208Y/120 | PHASE 3 WIRES 4 | AIC 22,000 AMPS | MOUNTING: FLUSH / X SURFACE | FEED: TOP / X BOTTOM | MAINS: 225 AMP, X LUGS, BREAKER | DIMS.: 20" W, 5.75" D, 35" H | SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BRKR, NEMA 3R, SURGE PROTECTOR

CIR NO.	CIRCUIT DESCRIPTION	CODE	LTS	CO	MIS	P	AMP	WIRE SIZE	CIRCUIT LOAD	A	B	C	CIRCUIT LOAD	WIRE SIZE	AMP	P	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	LIFT	1			1	2	20		1920	2920			1000	12	20	1	1				MECH STATION	2
3	---					-	-		1920		2920		1000	12	20	1	1				MECH STATION	4
5	LIFT	1			1	2	20		1920			2920	1000	12	20	1	1				MECH STATION	6
7	---					-	-		1920	6420			4500		50	2	1			1	WELDER	8
9	LIFT	1			1	2	20		1920		6420		4500		-	-					---	10
11	---					-	-		1920			4720	2800		30	2	1			1	WELDER	12
13	LIFT	1			1	2	20		1920	4720			2800		-	-					---	14
15	---					-	-		1920		4551		2631		30	2	1			1	AIR COMPRESSOR	16
17	GEN RECEPT			2		1	20	12	360			2991	2631		-	-					---	18
19	GEN RECEPT			2		1	20	12	360	504			144	12	20	1	1				EC-1 PUMP	20
21	GEN RECEPT			2		1	20	12	360		1261		901		-	-					---	22
23	GEN RECEPT	5		2		1	20	12	360			1261	901		20	3	1			1	EC-1 BLOWER	24
25	GEN RECEPT			3		1	20	12	540	1441			901		-	-					---	26
27	WATER COOLER				1	1	20	12	600		4760		4160		40	2	1			1	WATER HEATER	28
29	---					-	-		3338			7498	4160		-	-					---	30
31	HEATER	1			1	3	30		3338	3338					20	1					SPARE	32
33	---					-	-		3338		3338				20	1					SPARE	34
35	---					-	-		3338			3338			20	1					SPARE	36
37	HEATER	1			1	3	30		3338	3338					20	1					SPARE	38
39	---					-	-		3338		3338				20	1					SPARE	40
41	SPARE					1	20					0			20	1					SPARE	42

NOTE:

PHASE TOTALS	A	B	C	CONN LOAD
VA	22681	26588	22728	72 KVA
DIV				AV. AMPS
AMPS	189	222	189	200 A

CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = SUBFEED BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER; 6 = GFEP BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

PANEL D

PANEL: D | TYPE: NQOD | LOCATION: CASHIER DESK | VOLTAGE: 208Y/120 | PHASE 3 WIRES 4 | AIC 22,000 AMPS | MOUNTING: X FLUSH / SURFACE | FEED: TOP / X BOTTOM | MAINS: 200 AMP, X LUGS, BREAKER | DIMS.: 20" W, 5.75" D, 35" H | SPECIAL EQUIPMENT: X GROUND BUS, SUB-FEED BRKR, NEMA 3R, SURGE PROTECTOR

CIR NO.	CIRCUIT DESCRIPTION	CODE	LTS	CO	MIS	P	AMP	WIRE SIZE	CIRCUIT LOAD	A	B	C	CIRCUIT LOAD	WIRE SIZE	AMP	P	MIS	CO	LTS	CODE	CIRCUIT DESCRIPTION	CIR NO.
1	GEN RECEPT			4		1	20	12	720	720					20	1					SPARE	2
3	GEN RECEPT			2	1	1	20	12	1560		3354		1794	12	20	1			X		GEN LIGHTING	4
5	WARR MGR REC			2	1	1	20	12	1560			5965	4405		-	-					---	6
7	WATER COOLER				1	1	20	12	1200	5605			4405		80	3	1			1	RHP-60	8
9	RESTROOM REC			2		1	20	12	360		4765		4405		-	-					---	10
11	GEN RECEPT			3		1	20	12	540			540			20	1					SPARE	12
13	CUSTOMER REC			2		1	20	12	360	360					20	1					SPARE	14
15	CUSTOMER REC			2	1	1	20	12	960		960				20	1					SPARE	16
17	CASHIER REC			2	1	1	20	12	1560			1560			20	1					SPARE	18
19	OFFICE 1 REC			2	1	1	20	12	1560	1560					20	1					SPARE	20
21	OFFICE 2 REC			2	1	1	20	12	1560		1560				20	1					SPARE	22
23	SERVICE REC			1		1	20	12	180			180			20	1					SPARE	24
25	SERVICE REC			1		1	20	12	180	180					20	1					SPARE	26
27	SPARE					1	20				0				20	1					SPARE	28
29	SPARE					1	20					0			20	1					SPARE	30
31	SPARE					1	20			0					20	1					SPARE	32
33	SPARE					1	20				0				20	1					SPARE	34
35	SPARE					1	20					0			20	1					SPARE	36
37	SPARE					1	20			0					20	1					SPARE	38
39	SPARE					1	20				0				20	2					SPARE	40
41	SPARE					1	30					0			-	-					---	42

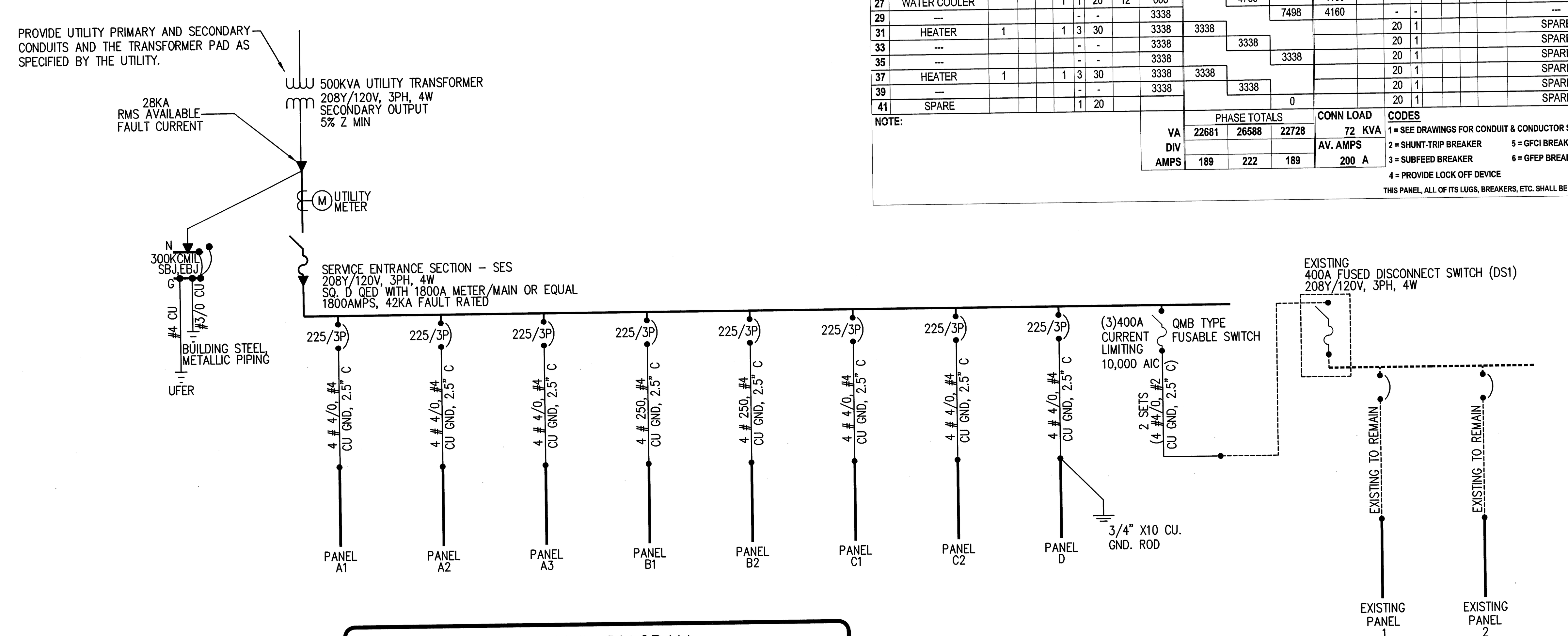
NOTE:

PHASE TOTALS	A	B	C	CONN LOAD
VA	8425	10639	8245	27 KVA
DIV				AV. AMPS
AMPS	70	89	69	76 A

CODES: 1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE; 2 = SHUNT-TRIP BREAKER; 3 = SUBFEED BREAKER; 4 = PROVIDE LOCK OFF DEVICE; 5 = GFCI BREAKER; 6 = GFEP BREAKER
THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75° C

FAULT CALCULATION

208 Volt												
Panel	SES	Panel A1	Panel A2	Panel A3	Panel B1	Panel B2	Panel C1	Panel C2	Panel D	EX DS1	EX PANEL 1	EX PANEL 2
Feed From	Transformer	SES	SES	SES	SES	SES	SES	SES	SES	SES	EX DS1	EX DS1
Available Fault Current	27758	26652	26652	26652	26652	26652	26652	26652	26652	26652	12504	12504
(L) Length to panel	10	190	190	190	230	230	95	95	120	170	10	10
Conduit Type (P,S)	P	P	P	P	P	P	P	P	P	P	P	P
Conductor Size	3\0	4\0	4\0	4\0	250	250	4\0	4\0	4\0	4\0	4\0	4\0
Conductor Type (c,a)	C	C	C	C	C	C	C	C	C	C	C	C
No of Runs	4	1	1	1	1	1	1	1	1	2	1	1
C - from chart	13923	16673	16673	16673	18593	18593	16673	16673	16673	16673	16673	16673
Voltage	208	208	208	208	208	208	208	208	208	208	208	208
f	0.0415031	2.529022	2.529022	2.529022	2.7453083	2.7453083	1.264511	1.264511	1.5972771	1.1314046	0.0624501	0.0624501
m	0.9601508	0.2833646	0.2833646	0.2833646	0.2670007	0.2670007	0.4415964	0.4415964	0.3850186	0.4691742	0.9412207	0.9412207
I s.c. at PaneL	26652	7552	7552	7552	7116	7116	11769	11769	10261	12504	11769	11769



ONE-LINE DIAGRAM
SCALE: NO SCALE

SERVICE LOAD CALCULATIONS

DESCRIPTION	LOAD	DEMAND	NEW LOAD	AMPS
CONTINUOUS	30138	1.25	37673	
NON-CONTINUOUS	152192	1	152192	
RECEPTACLES	10000	1	10000	
RECEPTACLES > 10K	21560	0.5	10780	
LARGEST MOTOR	22371	1.25	27964	
MOTORS	213560	1	213560	
WELDERS (2 LARGEST)	18000	1	18000	
WELDERS (3RD LARGEST)	9000	0.85	7650	
WELDERS (REMAINING)	37000	0.6	22200	
EXISTING LOAD(DS1)*	71600	1.25	89500	
TOTAL SERVICE LOAD			589518 = 1636.4	

* PEAK DEMAND PER POWER CO. 71.6KVA IN DEC 2006

Western Architecture Design Group, Inc.
2 West St. George Blvd.
Ancestor Square Suite 10
St. George Utah 84770
435/656.1312 fax 656.1355
westerndesign@qwest.net

CONSULTANTS
VAN BOERUM & FRANK ASSOCIATES INC.
CONSULTING ENGINEERS
WWW.VBFA.COM
Salt Lake City · Logan · St. George · Tempe · Pocatello
1070 W 1600 S, Ste. #104 435.674.4800 T
St. George, UT 84770 435.674.2708 F
VBFA Project Number:8108

LICENSED PROFESSIONAL ENGINEER
No. 353492
LADD M. BIRCH
06-06-08
STATE OF UTAH

PAINTER'S SERVICE CENTER

1600 HILTON DR.
ST. GEORGE, UTAH 84770

JIM PAINTER

MARK	DATE	DESCRIPTION
CD		
PP		
DD	/ /	

PROJECT NO: VBFA-8108
MODEL FILE:
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CHK'D BY: L.REMBER
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SHEET TITLE
ONE-LINE AND PANEL SCHEDULES

SHEET E4.1 OF