PANEL: MDP
LOCATION: COOLER ROOM
FEEDER SOURCE: CLECO TRANSFORMER

VOLTAGE: 480/277V, 1600A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3 5	3-#3 1-#8 G	T #1, 75 KVA TRANSFORMER	90	3	75,000		75,000	3	90	T #2, 75 KVA TRANSFORMER	3-#3 1-#8 G	2 4 6
7 9 11	6-300 MCM 1-2/0 G	480V #1 PANEL , 600A	600	3	325,313		18882	3	225	480V #2 PANEL , 225A	3-3/0 1-#4 G	8 10 12
13 15 17	3-#3 1-#8 G	480V #3 PANEL , 100A	100	3	66,510		208,719	3	225	480V #4 PANEL , 225A	3-3/0 1-#4 G	14 16 18
19 21 23	3-3/0 1-#4 G	480V #5 PANEL , 225A	225	3	134,855		-	3	-	SPACE	:	20 22 24
25 27 29	:	SPACE	-	3	-		-	3	-	SPACE	:	26 28 30
31 33 35	:	SPACE	-	3	-		-	3		SPACE	:	32 34 36
37 39 41	:	SPACE		3	-		-	3		SPACE	:	38 40 42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 301,426 BØ= 301,426 CØ= 301,426
GROUND BUS
GROUND WIRE (G)

PANEL: 480V #1
LOCATION: COOLER ROOM
FEEDER SOURCE: MDP 7, 9, 11

VOLTAGE: 480/277V, 600A 3Ø, 4W
ENCLOSURE: SURFACE MOUNT W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3 5	3 #8 1 #10	RTU 1 10 TON, 480V, 3Ø, 24 KW HEAT	45	3	36251		30913	3	40	RTU 2 5 TON, 480V, 3Ø, 15KW HEAT	3 #8 1 #10	2 4 6
7 9 11	3 #8 1 #10	RTU 3 10 TON, 480V, 3Ø, 24 KW HEAT	45	3	36251		24921	3	30	RTU 4 4 TON, 480V, 3Ø, 16 KW HEAT	3 #8 1 #10	8 10 12
13 15 17	3 #3 1 #8	RTU 5 4 TON, 480V, 3Ø , 16 KW HEAT	30	3	24921		24921	3	30	RTU 6 4 TON, 480V, 3Ø, 16 KW HEAT	3 #8 1 #10	14 16 18
19 21 23	3 #8 1 #10	RTU 7 6 TON, 480V, 3Ø, 24 KW HEAT	50	3	40738		40738	3	50	RTU 8 6 TON, 480V, 3Ø, 24KW HEAT	3 #8 1 #10	20 22 24
25 27 29	3 #8 1 #10	RTU 9 6 TON, 480V, 3Ø, 24 KW HEAT	50	3	40738		40738	3	50	RTU 13 6 TON, 480V, 3Ø , 16 KW HEAT	3 #8 1 #10	26 28 30
31 33 35	3 #8 1 #10	RTU 14 4 TON, 480V, 3Ø, 16 KW HEAT	30	3	24921		- - -	1 1 1	20 20 20	SPACE SPACE SPACE	: : :	32 34 36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 108,438 BØ= 108,438 CØ= 108,438
GROUND BUS
GROUND WIRE (G)

PANEL: 480V #2
LOCATION: COOLER ROOM
FEEDER SOURCE: MDP 8, 10, 12

VOLTAGE: 480/277V, 225A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3 5	:	SPACE	-	3	-		-	3	-	SPACE	-	2 4 6
7 9 11	:	SPACE	-	3	-		-	3	-	SPACE	-	8 10 12
13 15 17	:	SPACE	-	3	-		-	3	-	SPACE	-	14 16 18
19 21 23	:	SPACE	-	3	-		-	3	-	SPACE	-	20 22 24
25 27 29	:	SPACE	-	3	-		-	3	-	SPACE	-	26 28 30
31 33 35	:	SPACE	-	3	-		-	3	-	SPACE	-	32 34 36
37 39 41	:	SPACE	-	3	-		-	3	-	SPACE	-	38 40 42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= - BØ= - CØ= -
GROUND BUS
GROUND WIRE (G)

PANEL: 480V #3
LOCATION: FIREPUMP HOUSE
FEEDER SOURCE: MDP 13, 15, 17

VOLTAGE: 480/277V, 150A 3Ø, 4W; WITH 110A MAIN BRKR
ENCLOSURE: SURFACE MOUNT W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3 5	3 #8 1 #10	T #3, 45 KVA TRANSFORMER	55	3	45000		-	3	-	EXISTING	:	2 4 6
7 9 11		EXISTING	-	3	-		-	3	-	EXISTING	:	8 10 12
13 15 17		EXISTING	-	3	-		-	3	-	EXISTING	:	14 16 18
19	:	SPARE	20	1	-		-	1	20	SPARE	:	20
21	:	SPARE	20	1	-		-	1	20	SPARE	:	22
23	:	SPARE	20	1	-		-	1	20	SPARE	:	24
25	:	SPACE	20	1	-		-	1	20	SPACE	:	26
27	:	SPACE	20	1	-		-	1	20	SPACE	:	28
29	:	SPACE	20	1	-		-	1	20	SPACE	:	30
31	:	SPACE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= - BØ= - CØ= -
GROUND BUS
GROUND WIRE (G)

PANEL: 480V #4
LOCATION: ELECTRICAL MEZZANINE
FEEDER SOURCE: MDP 14, 16, 18

VOLTAGE: 480/277V, 225A 3Ø, 4W; WITH 225A MAIN BRKR
ENCLOSURE: SURFACE MOUNT W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3 5	3 #3 1 #8	RTU 11 15 TON, 480V, 3Ø , 35 KW HEAT	90	3	58720		75000	3	90	T #4, 75KVA	3 #8 1 #10	2 4 6
7 9 11	: : :	SPARE SPARE SPARE	20 20 20	1 1 1	- - -		75000	3	90	T #5, 75KVA	3 #8 1 #10	8 10 12
13	:	SPACE	20	1	-		-	1	20	SPARE	:	14
15	:	SPACE	20	1	-		-	1	20	SPARE	:	16
17	:	SPACE	20	1	-		-	1	20	SPARE	:	18
19	:	SPARE	20	1	-		-	1	20	SPARE	:	20
21	:	SPARE	20	1	-		-	1	20	SPARE	:	22
23	:	SPARE	20	1	-		-	1	20	SPARE	:	24
25	:	SPACE	20	1	-		-	1	20	SPACE	:	26
27	:	SPACE	20	1	-		-	1	20	SPACE	:	28
29	:	SPACE	20	1	-		-	1	20	SPACE	:	30
31	:	SPACE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 69,573 BØ= 69,573 CØ= 69,573
GROUND BUS
GROUND WIRE (G)

PANEL: 480V #5
LOCATION: ELECTRICAL MEZZANINE
FEEDER SOURCE: MDP 13, 15, 17

VOLTAGE: 480/277V, 225A 3Ø, 4W; WITH 225A MAIN BRKR
ENCLOSURE: SURFACE MOUNT W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3 5	:	EXISTING PARKING LOT LIGHTS	100	3	62353		36251	3	45	RTU 10 10 TON, 480V, 3Ø, 24 KW HEAT	3 #8 1 #10	2 4 6
7 9 11	: : :	SPARE SPARE SPARE	20 20 20	1 1 1	- - -		36251	3	45	RTU 12 10 TON, 480V, 3Ø, 24 KW HEAT	3 #8 1 #10	8 10 12
13	:	SPACE	20	1	-		-	1	20	SPARE	:	14
15	:	SPACE	20	1	-		-	1	20	SPARE	:	16
17	:	SPACE	20	1	-		-	1	20	SPARE	:	18
19	:	SPARE	20	1	-		-	1	20	SPARE	:	20
21	:	SPARE	20	1	-		-	1	20	SPARE	:	22
23	:	SPARE	20	1	-		-	1	20	SPARE	:	24
25	:	SPACE	20	1	-		-	1	20	SPACE	:	26
27	:	SPACE	20	1	-		-	1	20	SPACE	:	28
29	:	SPACE	20	1	-		-	1	20	SPACE	:	30
31	:	SPACE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 44,951 BØ= 44,951 BØ= 44,951
GROUND BUS
GROUND WIRE (G)

PANEL: EXISTING PARKING LOT LIGHTS
LOCATION: ELECTRICAL MEZZANINE
FEEDER SOURCE: MDP 13, 15, 17

VOLTAGE: 480/277V, 225A 3Ø, 4W
ENCLOSURE: SURFACE MOUNT W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1	:	EXISTING	20	1	-		-	1	20	EXISTING	:	2
3	:	EXISTING	20	1	-		-	1	20	EXISTING	:	4
5	:	EXISTING	20	1	-		-	1	20	EXISTING	.	6
7	:	EXISTING	20	1	-		-	1	20	EXISTING	:	8
9	:	EXISTING	20	1	-		-	1	20	EXISTING	:	10
11	:	EXISTING	20	1	-		-	1	20	EXISTING	.	12
13	:	EXISTING	20	1	-		-	1	20	EXISTING	:	14
15	:	EXISTING	20	1	-		-	1	20	EXISTING	:	16
17	:	EXISTING	20	1	-		-	1	20	EXISTING	.	18

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= - BØ= - CØ= -
GROUND BUS
GROUND WIRE (G)

PANEL: 208V #1
LOCATION: COOLER ROOM
FEEDER SOURCE: 120/208V TRANSFORMER

VOLTAGE: 208/120V, 225A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
WITH BOLT-ON BREAKERS
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3 5	: : :	SPARE SPARE SPARE	20 20 20	1 1 1	- - -		40060	3	100	A/V DISTRIBUTION PANEL	:	2 4 6
7	:	SPARE	20	1	-		-	2	20	SPARE	:	8
9	:	SPARE	20	1	-		-	2	20	SPARE	:	10
11	:	SPARE	20	1	-		-	2	20	SPARE	:	12
13	:	SPARE	20	1	-		-	2	20	SPARE	.	14
15	:	SPARE	20	1	-		-	2	20	SPARE	:	16
17	:	SPARE	20	1	-		-	2	20	SPARE	:	18
19	:	SPARE	20	1	-		-	2	20	SPARE	.	20
21	:	SPARE	20	1	-		-	2	20	SPARE	:	22
23	:	SPARE	20	1	-		-	2	20	SPARE	:	24
25	:	SPARE	20	1	-		-	1	20	SPARE	:	26
27	:	SPARE	20	1	-		-	1	20	SPARE	:	28
29	:	SPARE	20	1	-		-	1	20	SPARE	:	30
31	:	SPARE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 13,353 BØ= 13,353 CØ= 13,353
GROUND BUS
GROUND WIRE (G)

PANEL: 208V #2 (FUTURE)
LOCATION: COOLER ROOM
FEEDER SOURCE: 120/208V TRANSFORMER

VOLTAGE: 208/120V, 225A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
WITH BOLT-ON BREAKERS
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1	:	SPARE	20	1	-		-	2	20	SPARE	:	2
3	:	SPARE	20	1	-		-	2	20	SPARE	:	4
5	:	SPARE	20	1	-		-	1	20	SPARE	:	6
7	:	SPARE	20	1	-		-	1	20	SPARE	:	8
9	:	SPARE	20	1	-		-	1	20	SPACE	:	10
11	:	SPARE	20	1	-		-	1	20	SPACE	:	12
13	:	SPARE	20	1	-		-	1	20	SPACE	:	14
15	:	SPARE	20	1	-		-	1	20	SPACE	:	16
17	:	SPARE	20	1	-		-	1	20	SPACE	:	18
19	:	SPARE	20	1	-		-	2	20	SPARE	.	20
21	:	SPARE	20	1	-		-	2	20	SPARE	:	22
23	:	SPARE	20	1	-		-	2	20	SPARE	:	24
25	:	SPARE	20	1	-		-	1	20	SPARE	:	26
27	:	SPARE	20	1	-		-	1	20	SPARE	:	28
29	:	SPARE	20	1	-		-	1	20	SPARE	:	30
31	:	SPARE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= - BØ= - CØ= -
GROUND BUS
GROUND WIRE (G)

PANEL: A/V DISTRIBUTION
LOCATION: WEST WALL, WORSHIP CENTER
FEEDER SOURCE: 120/208V TRANSFORMER

VOLTAGE: 208/120V, 150A 3Ø, 4W; WITH 100 MAIN BRKR
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
WITH BOLT-ON BREAKERS
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3 5		DIMMER PANEL	30	3	38460		400 400 400	1 1 1	20 20 20	WORSHIP CENTER RM. 113 QUAD RECEPT. (ISOL. GROUND) WORSHIP CENTER RM. 113 QUAD RECEPT. (ISOL. GROUND) BACKSTAGE RM. 133 QUAD RECEPT. (ISOLATED GROUND)		2 4 6
7		BACKSTAGE RM. 133 QUAD RECEPT. (ISOLATED GROUND)	20	1	400		-	2	20	SPARE	.	8
9	.	SPARE		1	-		-	2	20	SPARE	.	10
11	:	SPARE	20	1	-		-	2	20	SPARE	.	12
13	.	SPARE	20	1	-		-	2	20	SPARE	.	14
15	:	SPARE	20	1	-		-	2	20	SPARE	.	16
17	:	SPARE	20	1	-		-	2	20	SPARE		18
19	:	SPARE	20	1	-		-	2	20	SPARE	.	20
21	:	SPARE	20	1	-		-	2	20	SPARE	:	22
23	:	SPARE	20	1	-		-	2	20	SPARE	:	24
25	:	SPARE	20	1	-		-	1	20	SPARE	:	26
27	:	SPARE	20	1	-		-	1	20	SPARE	:	28
29	:	SPARE	20	1	-		-	1	20	SPARE	:	30
31	:	SPARE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 13,620 BØ= 13,220 CØ= 13,220
GROUND BUS
GROUND WIRE (G)

PANEL: FP #1
LOCATION: COOLER ROOM
FEEDER SOURCE: 120/208V TRANSFORMER

VOLTAGE: 208/120V, 150A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
WITH BOLT-ON BREAKERS
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3	:	EXISTING	-	2	-		-	2	-	EXISTING	:	2 4
5 7	:	EXISTING	-	2	-		-	2	-	EXISTING	:	6 8
9	:	EXISTING	-	1	-		-	1	-	EXISTING	:	10
11	:	SPARE	20	1	-		-	2	-	EXISTING	:	12
13	:	SPARE	20	1	-		-	2	20	SPARE	.	14
15	:	SPARE	20	1	-		-	2	20	SPARE	:	16
17	:	SPARE	20	1	-		-	2	20	SPARE	:	18
19	:	SPARE	20	1	-		-	2	20	SPARE	.	20
21	:	SPARE	20	1	-		-	2	20	SPARE	:	22
23	:	SPARE	20	1	-		-	2	20	SPARE	:	24
25	:	SPARE	20	1	-		-	1	20	SPARE	:	26
27	:	SPARE	20	1	-		-	1	20	SPARE	:	28
29	:	SPARE	20	1	-		-	1	20	SPARE	:	30
31	:	SPARE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= - BØ= - CØ= -
GROUND BUS
GROUND WIRE (G)

PANEL: 208V #4
LOCATION: ELECTRICAL MEZZANINE
FEEDER SOURCE: 120/208V TRANSFORMER

VOLTAGE: 208/120V, 225A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
WITH BOLT-ON BREAKERS
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3	:	SPARE	100	2	.		6200	2	100	PANEL PL3 (ZONE 3)	2 #3 1 #8	2 4
5 7	:	SPARE	100	2	.		11200	2	100	PANEL PL4 (ZONE 4)	2 #3 1 #8	6 8
9	:	SPARE	20	1	-		-	1	20	SPARE	2 #12 1 #12	10
11	:	SPARE	20	1	-		-	2	20	SPARE	:	12
13	:	SPARE	20	1	-		-	2	20	SPARE	:	14
15	:	SPARE	20	1	-		-	2	20	SPARE	:	16
17	:	SPARE	20	1	-		-	2	20	SPARE	:	18

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 7100 BØ= 3300 CØ= 7000
GROUND BUS
GROUND WIRE (G)

PANEL: 208V #5
LOCATION: ELECTRICAL MEZZANINE
FEEDER SOURCE: 120/208V TRANSFORMER

VOLTAGE: 208/120V, 225A 3Ø, 4W
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
WITH BOLT-ON BREAKERS
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ CØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1 3	2 #3 1 #8	PANEL PL1 (ZONE 1)	100	2	14,400		-	2	100	SPARE	:	2 4
5 7	2 #3 1 #8	PANEL PL2 (ZONE 2)	100	2	18000		-	2	100	SPARE	:	6 8
9	:	SPARE	20	1	-		-	1	20	SPARE	:	10
11	:	SPARE	20	1	-		-	1	20	SPARE	:	12
13	:	SPARE	20	1	-		-	1	20	SPARE	:	14
15	:	SPARE	20	1	-		-	1	20	SPARE	:	16
17	:	SPARE	20	1	-		-	1	20	SPARE	:	18

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 14500 BØ= 7400 CØ= 10500
GROUND BUS
GROUND WIRE (G)

PANEL: PL1 (ZONE 1)
LOCATION: NORTHEAST CORNER, BACKSTAGE, ROOM 133
FEEDER SOURCE: DISTRIBUTION, PANEL "A" (MSB)

VOLTAGE: 240/120V, 225A 1Ø, 3W; WITH 100 AMP MAIN
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1	2 #12 1 #12	WORSHIP CENTER RM. 113 RECEPT.	20	1	1400		1400	1	20	WORSHIP CENTER RM. 113 RECEPT.	2 #12 1 #12	2
3	2 #12 1 #12	WORSHIP CENTER RM. 113 RECEPT.	20	1	1400		1400	1	20	RM. 133 RECEPT.	2 #12 1 #12	4
5	2 #12 1 #12	JANITOR RM. 117 GFI RECEPT.	20	1	200		-	1	20	SPARE	:	6
7	:	SPARE	20	1	-		-	1	20	SPARE	:	8
9	:	SPARE	20	1	-		200	1	20	RESTROOM RM. 131 GFI RECEPT.	2 #12 1 #12	10
11	2 #12 1 #12	WORSHIP CENTER RM. 113 CEILING FANS	20	1	900		800	1	20	VESTIBULE RM. 136 RECEPT.	2 #12 1 #12	12
13	2 #12 1 #12	RESTROOM RM. 131 LIGHT	20	1	100		1400	1	20	YOUTH WORSHIP RM. 114 RECEPT.	2 #12 1 #12	14
15	2 #12 1 #12	BACKSTAGE RM. 133 LIGHTS	20	1	900		900	1	20	WORSHIP CENTER RM. 113 CEILING FANS	2 #12 1 #12	16
17	2 #12 1 #12	YOUTH CENTER RM. 114 LIGHTS	20	1	1000		300	1	20	VESTIBULE, RM. 118 JANITOR RM. 117 LIGHTS	2 #12 1 #12	18
19	2 #12 1 #12	EXTERIOR WALL SCONCE LIGHTS	20	1	200		900	1	20	EXIT/ EMERGENCY LIGHTS	2 #12 1 #12	20
21	2 #12 1 #12	SMOKE DETECTORS	20	1	900		100	1	20	NIGHT LIGHTS	2 #12 1 #12	22
23	:	SPARE	20	1	-		-	1	20	SPARE	:	24
25	:	SPARE	20	1	-		-	1	20	SPARE	:	26
27	:	SPARE	20	1	-		-	1	20	SPARE	:	28
29	:	SPARE	20	1	-		-	1	20	SPARE	:	30
31	:	SPARE	20	1	-		-	1	20	SPARE	:	32
33	:	SPARE	20	1	-		-	1	20	SPARE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 7,000 BØ= 7,400
GROUND BUS
GROUND WIRE (G)

PANEL: PL2 (ZONE 2)
LOCATION:
FEEDER SOURCE: DISTRIBUTION, PANEL "A" (MSB)

VOLTAGE: 240/120V, 225A 1Ø, 3W; WITH 100 AMP MAIN
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1	2 #12 1 #12	CORRIDOR RM. 138, 139 RECEPT.	20	1	1200		1200	1	20	CORRIDOR RM. 138 RECEPT.	2 #12 1 #12	2
3	2 #12 1 #12	CLASSROOM RM. 123 RECEPT.	20	1	1000		1000	1	20	CLASSROOM RM. 124 RECEPT.	2 #12 1 #12	4
5	2 #12 1 #12	CLASSROOM RM. 125, VESTIBULE RM. 134 RECEPT.	20	1	1200		1200	1	20	CLASSROOM RM. 126 RECEPT.	2 #12 1 #12	6
7	2 #12 1 #12	CLASSROOM RM. 121, VESTIBULE RM. 135 RECEPT.	20	1	1200		1000	1	20	CLASSROOM RM. 122 RECEPT.	2 #12 1 #12	8
9	2 #12 1 #12	CLASSROOM RM. 119, VESTIBULE RM. 138 RECEPT.	20	1	1200		1000	1	20	CLASSROOM RM. 120 RECEPT.	2 #12 1 #12	10
11	2 #12 1 #12	CORRIDOR RM. 138, 139 LIGHTS	20	1	600		700	1	20	CORRIDOR RM. 138 LIGHTS	2 #12 1 #12	12
13	2 #12 1 #12	CORRIDOR RM. 138 LIGHTS	20	1	500		400	1	20	CLASSROOM RM. 123 LIGHTS	2 #12 1 #12	14
15	2 #12 1 #12	CLASSROOM RM. 124 LIGHTS	20	1	400		400	1	20	CLASSROOM RM. 125 LIGHTS	2 #12 1 #12	16
17	2 #12 1 #12	CLASSROOM RM. 126 LIGHTS	20	1	400		400	1	20	CLASSROOM RM. 119 LIGHTS	2 #12 1 #12	18
19	2 #12 1 #12	CLASSROOM RM. 120 LIGHTS	20	1	400		700	1	20	NIGHT LIGHTS (ALWAYS ON)	2 #12 1 #12	20
21	2 #12 1 #12	EXIT/ EMERGENCY LIGHTS	20	1	1300		500	1	20	SMOKE DETECTORS	2 #12 1 #12	22
23	2 #12 1 #12	EXTERIOR WALL SCONCE LIGHT	20	1	100		-	1	20	SPARE	:	24
25	:	SPARE	20	1	-		-	1	20	SPARE	:	26
27	:	SPARE	20	1	-		-	1	20	SPARE	:	28
29	:	SPARE	20	1	-		-	1	20	SPARE	:	30
31	:	SPARE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 10,500 BØ= 7,500
GROUND BUS
GROUND WIRE (G)

PANEL: PL3 (ZONE 3)
LOCATION:
FEEDER SOURCE: DISTRIBUTION, PANEL "A" (MSB)

VOLTAGE: 240/120V, 225A 1Ø, 3W, WITH 100 AMP MAIN
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1	2 #12 1 #12	CORRIDOR RM. 138 RECEPTACLES	20	1	300		1200	1	20	CHILDREN'S WORSHIP RM. 115 PLATFORM AREA RECEPT.	2 #12 1 #12	2
3	2 #12 1 #12	CHILDREN'S WORSHIP RM. 115 RECEPT.	20	1	1000		1000	1	20	CLASSROOM RM. 129 RECEPT.	2 #12 1 #12	4
5	2 #12 1 #12	CLASSROOM RM. 130 RECEPT.	20	1	600		200	1	20	CORRIDOR RM. 138 LIGHTS	2 #12 1 #12	6
7	2 #12 1 #12	NIGHT LIGHTS (ALWAYS ON)	20	1	100		300	1	20	CLASSROOM RM. 129 LIGHTS	2 #12 1 #12	8
9	2 #12 1 #12	CLASSROOM RM. 130 LIGHTS	20	1	300		700	1	20	EXIT/ EMERGENCY LIGHTS	2 #12 1 #12	10
11	2 #12 1 #12	SMOKE DETECTORS	20	1	500		-	1	20	SPARE	:	12
13	:	SPARE	20	1	-		-	1	20	SPARE	:	14
15	:	SPARE	20	1	-		-	1	20	SPARE	:	16
17	:	SPARE	20	1	-		-	1	20	SPARE	:	18
19	:	SPARE	20	1	-		-	1	20	SPARE	:	20
21	:	SPARE	20	1	-		-	1	20	SPARE	:	22
23	:	SPARE	20	1	-		-	1	20	SPARE	:	24
25	:	SPARE	20	1	-		-	1	20	SPARE	:	26
27	:	SPACE	20	1	-		-	1	20	SPACE	:	28
29	:	SPACE	20	1	-		-	1	20	SPACE	:	30
31	:	SPACE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 3,300 BØ= 2,900
GROUND BUS
GROUND WIRE (G)

PANEL: PL4 (ZONE 4)
LOCATION:
FEEDER SOURCE: DISTRIBUTION, PANEL "A" (MSB)

VOLTAGE: 240/120V, 225A 1Ø, 3W, WITH 100 AMP MAIN
ENCLOSURE: SURFACE MOUNTED W/EQUIPMENT GND BAR
SQUARE D TYPE QO LOAD CENTER OR EQUAL
22K AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	AØ BØ	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1	2 #12 1 #12	COFFEE SHOP RM. 101 BACK ROOM RECEPTACLES	20	1	800		800	1	20	COFFEE SHOP RM. 101 RECEPT.	2 #12 1 #12	2
3	2 #12 1 #12	WELCOME CENTER RM. 126 RECEPT.	20	1	1000		600	1	20	WELCOME CENTER RM. 126 RECEPT.	2 #12 1 #12	4
5	2 #12 1 #12	MENS RESTROOM RM. 102 GFI RECEPT.	20	1	200		200	1	20	WOMENS RESTROOM RM. 103 GFI RECEPT.	2 #12 1 #12	6
7	2 #12 1 #12	WOMENS RESTROOM RM. 103 GFI RECEPT.	20	1	200		200	1	20	MENS RESTROOM RM. 102 GFI RECEPT.	2 #12 1 #12	8
9	2 #12 1 #12	RESTROOM RM. 137 GFI RECEPT.	20	1	200		600	1	20	CLASSROOM RM. RECEPT.	2 #12 1 #12	10
11	2 #12 1 #12	CLASSROOM RM. RECEPT.	20	1	600		400	1	20	CLASSROOM RM. RECEPT.	2 #12 1 #12	12
13	2 #12 1 #12	CLASSROOM RM. RECEPT.	20	1	600		1200	1	20	CLASSROOM RM. RECEPT.	2 #12 1 #12	14
15	2 #12 1 #12	EXHAUST FAN EF-1	20	1	1000		200	1	20	EMERGENCY/ EXIT LIGHTS	2 #12 1 #12	16
17	2 #12 1 #12	CLASSROOM RM. LIGHTS	20	1	1200		1200	1	20	CLASSROOM RM. LIGHTS	2 #12 1 #12	18
19	:	SPARE	20	1	-		-	1	20	SPARE	:	20
21	:	SPARE	20	1	-		-	1	20	SPARE	:	22
23	:	SPARE	20	1	-		-	1	20	SPARE	:	24
25	:	SPARE	20	1	-		-	1	20	SPARE	:	26
27	:	SPARE	20	1	-		-	1	20	SPARE	:	28
29	:	SPARE	20	1	-		-	1	20	SPARE	:	30
31	:	SPACE	20	1	-		-	1	20	SPACE	:	32
33	:	SPACE	20	1	-		-	1	20	SPACE	:	34
35	:	SPACE	20	1	-		-	1	20	SPACE	:	36
37	:	SPACE	20	1	-		-	1	20	SPACE	:	38
39	:	SPACE	20	1	-		-	1	20	SPACE	:	40
41	:	SPACE	20	1	-		-	1	20	SPACE	:	42

SOLID NEUTRAL
NEUTRAL WIRE (W)
TOTAL CONNECTED LOAD (VA)
AØ= 7,000 BØ= 4,200
GROUND BUS
GROUND WIRE (G)

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PANEL SCHEDULES

REV:03-23-09
SCALE: AS NOTED
JOB#: 1988
DATE: 09-30-08
SHEET

E-9

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