Panel Schedule 400 PANEL A — 3 Phase 4 Wire — Voltage LL: 208 Voltage LG: 120

OC Devices: BREAKERS — Device Family: BOLT ON — Mounting: SURFACE — Enclosure: NEMA 1
Comments: 350A MCB — Bus Rating: 600 — Available Fault Duty: 9773 A 3 Phase

Ckt No	Description/ Location	*Load Type	Criteria* Ea	Qty	Dem	Total VA	Remarks	Device Amps	P	H	Device Amps	P	Remarks	Total VA	*Load Type	Criteria* Ea	Qty	Dem	Description/ Location	Ckt No
1	LIGHTING-104-106,108	LTS		2		1875		20	1	A	20	1		1894	LTS		2		LIGHTING-103,109-111	2
3	LIGHTING-102,115	LTS		2		1870		20	1	B	20	1		1250	LTS		2		EXT LIGHTING	4
5	LIGHTING-118,120-122	LTS		2		783		20	1	C	20	1		1600	REC		3		RECEP-106,108	6
7	RECEP-110,111	REC		3		1600		20	1	A	20	1		1600	REC		3		RECEP-104,105	8
9	RECEP-109,110,115	REC		3		1800		20	1	B	20	1		1600	REC		3		RECEP-103	10
11	RECEP-EXT,115	REC		3		1600		20	1	C	20	1		1800	REC		3		RECEP-120,124,127,EX	12
13	EWC	MOT		9		1590		20	1	A	20	1		1590	MOT		9		EWC	14
15	VENDING MACHINE	REC		3		1000		20	1	B	20	1		1000	REC		3		RECEP-118	16
17	VENDING MACHINE	REC		3		1000		20	1	C	20	1		600	REC		3		MICROWAVE OVEN	18
19	VENDING MACHINE	REC		3		1000		20	1	A	20	1		1000	REC		3		REFRIGERATOR	20
21	HEAT TAPE	HTR		5		1000		20	1	B	20	1		1000	HTR		5		HEAT TAPE	22
23	HEAT TAPE	HTR		5		1000		20	1	C	20	1		1000	HTR		5		HEAT TAPE	24
25	UH-1	MOT		9		850		20	1	A	35	1		1800	MOT		9		RAF & EF-1	26
27	CWP	MOT		9		830		20	1	B	20	1		500	GEN		1		WA. WAT. H. LEV. AL	28
29	EF-2	MOT		9		505		20	1	C	20	1		1000	GEN		1		WA. WAT. LEAK PANEL	30
31	EH-1 & EH-2	MOT		9		1400		20	1	A	20	1		1000	GEN		1		TCP-1, TCP-2	32
33	LTNG 123,124,126,127	LTG		2		1157		20	1	B	20	1		1000	SPR		4		SPARE	34
35	SPARE	SPR		4		1000		20	1	C	20	1		1000	SPR		4		SPARE	36
37	SPARE	SPR		4		1000		20	1	A	20	1		1000	SPR		4		SPARE	38
39	SPARE	SPR		4		1000		20	1	B	20	1		1000	SPR		4		SPARE	40
41	SPARE	SPR		4		1000		20	1	C	20	1		1000	SPR		4		SPARE	42

ENDUSE LOADS:	PHASE A VA	19199.	PHASE B VA	16007.	PHASE C VA 14888.
TOTAL LOADS:	CONNECTED KVA	106.8	DEMAND KVA	92.8	DESIGN KVA 109.5
	CONNECTED FLA	296.6	DEMAND FLA	257.6	DESIGN FLA 303.9

THIS IS A SPLIT PANEL, IT IS COMBINED WITH PANEL A2

Panel Schedule 401 PANEL A2 — 3 Phase 4 Wire — Voltage LL: 208 Voltage LG: 120

OC Devices: BREAKERS — Device Family: BOLT ON — Mounting: SURFACE — Enclosure: NEMA 1
Comments: — Bus Rating: 600 — Available Fault Duty: 9680 A 3 Phase

Ckt No	Description/ Location	*Load Type	Criteria* Ea	Qty	Dem	Total VA	Remarks	Device Amps	P	H	Device Amps	P	Remarks	Total VA	*Load Type	Criteria* Ea	Qty	Dem	Description/ Location	Ckt No
43	MZU HEAT COIL	HTR		5		9134		100	3	A	20	3		685	MOT		9		MZU FAN	44
45	MZU HEAT COIL	HTR		5		9134	W/CKT 13			B			W/CKT 14	685	MOT		9		MZU FAN	46
47	MZU HEAT COIL	HTR		5		9134	W/CKT 13			C			W/CKT 14	685	MOT		9		MZU FAN	48
49	EXT. LIGHTS	LTS		2		1860		30	3	A	20	3		1395	LTS		2		EXT. LIGHTS	50
51	EXT. LIGHTS	LTS		2		1860	W/CKT 49			B			W/CKT 50	1395	LTS		2		EXT. LIGHTS	52
53	EXT. LIGHTS	LTS		2		1860	W/CKT 49			C			W/CKT 50	1395	LTS		2		EXT. LIGHTS	54
55	SPARE	SPR		4		1000		20	1	A	70	3		6000	HTR		5		EWH	56
57	SPARE	SPR		4		1000		20	1	B			W/CKT 56	6000	HTR		5		EWH	58
59	SPARE	SPR		4		1000		20	1	C			W/CKT 56	6000	HTR		5		EWH	60

ENDUSE LOADS:	PHASE A VA	20074.	PHASE B VA	20074.	PHASE C VA 20074.
TOTAL LOADS:	CONNECTED KVA	59.3	DEMAND KVA	57.9	DESIGN KVA 71.6
	CONNECTED FLA	164.6	DEMAND FLA	160.7	DESIGN FLA 198.7

THIS IS THE SECOND HALF OF THE SPLIT PANEL A

Panel Schedule 600 PANEL B — 3 Phase 4 Wire — Voltage LL: 208 Voltage LG: 120

OC Devices: BREAKERS — Device Family: BOLT ON — Mounting: SURFACE — Enclosure: NEMA 1
Comments: 150A MCB — Bus Rating: 225 — Available Fault Duty: 5959 A 3 Phase

Ckt No	Description/ Location	*Load Type	Criteria* Ea	Qty	Dem	Total VA	Remarks	Device Amps	P	H	Device Amps	P	Remarks	Total VA	*Load Type	Criteria* Ea	Qty	Dem	Description/ Location	Ckt No
1	LIGHTING-116,117	LTS		2		1554		20	1	A	20	1		1200	REC		3		RECEP-125	2
3	RECEP-117	REC		3		1000		20	1	B	20	1		1800	GEN		1		ADMIN CAMERAS	4
5	RECEP-117	REC		3		1000		20	1	C	20	1		1800	GEN		1		POL CAMERAS	6
7	RECEP-125	REC		3		1000		20	1	A	30	1		1410	MOT		9		FCU	8
9	TELEPHONE	REC		3		500		20	1	B	20	1		1000	REC		3		T-4	10
11	T-5	REC		3		1000		20	1	C	20	1		1000	REC		3		T-6	12
13	FUME HOOD (EF-3)	MOT		9		1590		35	1	A	30	2		1200	REC		3		FUME HOOD RECP	14
15	RECPTACLES	REC		3		500		20	1	B			W/CKT 14	1200	REC		3		FUME HOOD RECP	16
17	TCP-3	GEN		1		500		20	1	C	20	1		500	GEN		1		FIRE ALARM CONT PNL	18
19	DOOR CLOSER	GEN		1		1000		20	1	A	20	1		195	MOT		9		EF 4	20
21	A/C	MOT		9		1600		20	1	B	20	1		800	GEN		1		TANK CAMERAS	22
23	LIGHTING 125	LTG		2		1000		20	1	C	20	1		1000	REC		3		RECEP COMP 116	24
25	RECEP 116	REC		3		800		20	1	A	20	1		1000	SPR		4		SPARE	26
27	SPARE	SPR		4		1000		20	1	B	20	1		1000	SPR		4		SPARE	28
29	SPARE	SPR		4		1000		20	1	C	20	1		1000	SPR		4		SPARE	30
31	HV-1 HEAT COIL	HTR		5		5133		60	3	A	20	1		830	MOT		9		HV-1 FAN	32
33	HV-1 HEAT COIL	HTR		5		5133	W/CKT 31			B				1000	SPR		4		SPARE	34
35	HV-1 HEAT COIL	HTR		5		5133	W/CKT 31			C				1000	SPR		4		SPARE	36
37	SPARE	SPR		4		767		20	3	A	20	3		767	SPR		4		SPARE	38
39	SPARE	SPR		4		767	W/CKT 37			B			W/CKT 38	767	SPR		4		SPARE	40
41	SPARE	SPR		4		767	W/CKT 37			C			W/CKT 38	767	SPR		4		SPARE	42

ENDUSE LOADS:	PHASE A VA	18446.	PHASE B VA	18067.	PHASE C VA 17467.
TOTAL LOADS:	CONNECTED KVA	52.5	DEMAND KVA	40.6	DESIGN KVA 44.9
	CONNECTED FLA	145.6	DEMAND FLA	112.8	DESIGN FLA 124.7

Panel Schedule 800 PANEL C — 3 Phase 4 Wire — Voltage LL: 208 Voltage LG: 120

OC Devices: BREAKERS — Device Family: BOLT ON — Mounting: SURFACE — Enclosure: NEMA 1
Comments: 50A MCB — Bus Rating: 100 — Available Fault Duty: 1031 A 3 Phase

Ckt No	Description/ Location	*Load Type	Criteria* Ea	Qty	Dem	Total VA	Remarks	Device Amps	P	H	Device Amps	P	Remarks	Total VA	*Load Type	Criteria* Ea	Qty	Dem	Description/ Location	Ckt No
1	COMPUTER RECP-104	REC		3		1000		20	1	A	20	1		1000	REC		3		COMPUTER RECP-108	2
3	COMPUTER RECP-103	REC		3		1000		20	1	B	20	1		500	REC		3		COMPUTER RECP-109	4
5	COMPUTER RECP-106	REC		3		1000		20	1	C	20	1		500	REC		3		COMPUTER RECP-110	6
7	COMPUTER RECP-112	REC		3		500		20	1	A	20	1		500	REC		3		COMPUTER RECP-103	8
9	COMPUTER RECP-103	REC		3		500		20	1	B	20	1		500	REC		3		COMPUTER RECP-103	10
11	COMPUTER RECP-103	REC		3		500		20	1	C	20	1		500	REC		3		COMPUTER RECP-103	12
13	COMPUTER RECP-126	REC		3		500		20	1	A	20	1		1000	SPR		4		SPARE	14
15	COMPUTER RECP-126	REC		3		500		20	1	B	20	1		1000	REC		3		COMPUTER RECP-111	16
17	COMPUTER RECP-126	REC		3		500		20	1	C	20	1		1000	SPR		4		SPARE	18
19	SPARE	SPR		4		1000		20	1	A	20	1		1000	SPR		4		SPARE	20
21	SPARE	SPR		4		1000		20	1	B	20	1		1000	SPR		4		SPARE	22
23	SPARE	SPR		4		1000		20	1	C	20	1		1000	SPR		4		SPARE	24
25	SPACE	SPC							1	A		1			SPC				SPACE	26
27	SPACE	SPC							1	B		1			SPC				SPACE	28
29	SPACE	SPC							1	C		1			SPC				SPACE	30

ENDUSE LOADS:	PHASE A VA	6500.	PHASE B VA	6000.	PHASE C VA 6000.
TOTAL LOADS:	CONNECTED KVA	18.5	DEMAND KVA	9.2	DESIGN KVA 9.2
	CONNECTED FLA	51.3	DEMAND FLA	25.6	DESIGN FLA 25.6

LIGHTING FIXTURE SCHEDULE

CONTRACT DRAWING FIXTURE MARK	STD.DWG.SERIES 40-06-04 SH. NO./TYPE — DETAIL NO. OR LETTER	LAMP ORDERING DESIGNATION OR CODE	NO. AND SIZE OF LAMPS, INPUT WATTS PER FIXTURE		MOUNTING HEIGHT	APPROX. CEILING HEIGHT	REFERENCE NOTES
126B1	SHEET 16, TYPE 126B1	A-17, 75A/67/SS	1-75	75	RECESSED	8	
200	SHEET 17, TYPE 200	SEE SPEC		50			
204A1A	SHEET 19, TYPE 204A1A	F40CW/RS/SS	2-34	100	RECESSED	8	3
204B1	SHEET 19, TYPE 204B1	F40CW/RS/SS	2-34	100	RECESSED	8	
206B1	SHEET 20, TYPE 206B1	F40CW/RS/SS	3-34	150	RECESSED	8	
206B1A	SHEET 20, TYPE 206B1A	F40CW/RS/SS	3-34	150	RECESSED	8	3
223A	SHEET 32, TYPE 223A	F20CW/RS/SS	2-34	100			4
224	SHEET 33, TYPE 224	F40CW/RS/SS	1-34	50	ABOVE MIRROR	8	
224A	SHEET 33, TYPE 224A	F20CW/RS/SS	1-34	50	7	8	1
230A1	SHEET 36, TYPE 230A1	F40CW	2-40	100	10	12	
232	SHEET 38, TYPE 232	F40CW/RS/SS	2-34	100	RECESSED	8	
234A	SHEET 39, TYPE 234A	F40CW/RS/SS	2-34	100	RECESSED	VARIES	
234A1	SHEET 39, TYPE 234A1	F40CW/RS/SS	2-34	100	RECESSED	9	3
234B	SHEET 39, TYPE 234B	F40CW/RS/SS	3-34	150	RECESSED	8	
240A	SHEET 41, TYPE 240A	FB40/CW/6/SS	1-34	75	RECESSED	VARIES	
240A1	SHEET 41, TYPE 240A1	FB40/CW/6/SS	1-34	75	RECESSED	VARIES	3
305D	SHEET 47, TYPE 305D	LU70	1-70	100	10	EXT.	5
604A3	SHEET 66, TYPE 604A3	LED			ABOVE DOORS	VARIES	2

NOTES:
1. SIMILAR TO TYPE 224 EXCEPT SHALL BE 24" IN LENGTH.
2. SIMILAR CONSTRUCTION, ILLUMINATED BY LED.
3. FIXTURE SHALL BE PROVIDED WITH TYPE 200 EMERGENCY UNIT.
4. SIMILAR TO TYPE 223A EXCEPT SHALL BE 24" IN LENGTH.
   SEE ARCH. PLANS FOR MOUNTING AND LOCATION.
5. FIXTURE SHALL BE 12" ROUND WITH FRESNEL LENS.

EXAMPLE 100% DESIGN

$$ – THINK VALUE ENGINEERING – $$

Revisions

Symbol	Descriptions	Date	Approved

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
OMAHA, NEBRASKA

Designed by: XXX
Drawn by: XXX
Checked by: XXX.
Reviewed by: XXX
Submitted by:
Chief: ELECTRICAL Section

SITE NAME: OMAHA DISTRICT DESIGN GUIDE
SITE LOCATION

SCHEDULES

Plot Scale Ratio: 12:1
Design File: oddga001.dgn
Date: JUNE 2002
Spec. No.: DACA 45
Contract No.: DACA 45
Drawing Code: X
Sheet reference number: E6.01

COMPUTER AIDED DESIGN & DRAFTING