PANEL "HL1"

SERVICE: 277/480V 3Φ 4W | MAIN BKR.: 200A | BUS: 225A | LOC.: SEE PLAN
SQUARE D "NF" PANELBOARD | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LIG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LIG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
HP-L1	5540					1	3	25	1	2	1	20							SPARE
.....		5540				1	----	----	3	4	1	20							SPARE
.....			5540			1	----	----	5	6	1	20							SPARE
SPARE							1	20	7	8	1	20							SPARE
SPARE							1	20	9	10	1	20							SPARE
SPARE							1	20	11	12	1	20							SPARE
SPARE							1	20	13	14	1	20							SPARE
SPARE							1	20	15	16	1	20							SPARE
SPARE							1	20	17	18	1	20							SPARE
SPARE							1	20	19	20	1	20							SPARE
SPARE							1	20	21	22	1	20							SPARE
SPARE							1	20	23	24	1	20							SPARE
SPARE							1	20	25	26	1	20							SPARE
SPARE							1	20	27	28	1	20							SPARE
SPARE							1	20	29	30	1	20							SPARE
SPARE							1	20	31	32									SPACE
SPARE							1	20	33	34									SPACE
SPARE							1	20	35	36									SPACE
PANEL "HL2"	1326						3	60	37	38	100	3				13331			TRANSFORMER LL1
.....		4755					----	----	39	40	----	----					11292		
.....			681				----	----	41	42	----	----						10301	
	6866	10295	6221													13331	11292	10301	
TOTAL WATTS=	58306			ΦA=	20197						ΦB=	21587						ΦC=	16522
AMPS=	70.13	MINIMUM BKR A.I.C. RATING= 14,000 AMPS SYM																	

PANEL "HN1"

SERVICE: 277/480V 3Φ 4W | MAIN BKR.: 225A | BUS: 225A | LOC.: SEE PLAN
SQUARE D "NF" PANELBOARD | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LIG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LIG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
SPARE							1	20	1	2	30	3		1	6400				HP-N1
SPARE							1	20	3	4	----	----		1		6400			.....
SPARE							1	20	5	6	----	----		1			6400		.....
SPARE							1	20	7	8	30	3		1	6400				HP-N2
SPARE							1	20	9	10	----	----		1		6400			.....
SPARE							1	20	11	12	----	----		1			6400		.....
SPARE							1	20	13	14	30	3		1	6400				HP-N3
SPARE							1	20	15	16	----	----		1		6400			.....
SPARE							1	20	17	18	----	----		1			6400		.....
SPARE							1	20	19	20	30	3		1	6400				HP-N4
SPARE							1	20	21	22	----	----		1		6400			.....
SPARE							1	20	23	24	----	----		1			6400		.....
SPARE							1	20	25	26	20	1							SPARE
SPARE							1	20	27	28	20	1							SPARE
SPARE							1	20	29	30	20	1							SPARE
SPARE							1	20	31	32	20	1							SPARE
SPARE							1	20	33	34	20	1							SPARE
SPARE							1	20	35	36	20	1							SPARE
PANEL "HN2"	5356									38	150	3			28948				TRANSFORMER "LN1"
.....		3294					----	----	39	40	----	----					26008		.....
.....			2288				----	----	41	42	----	----						26586	.....
	5356	3294	2288												54548	51608	52186		
TOTAL WATTS=	2E+05			ΦA=	59904						ΦB=	54902						ΦC=	54474
AMPS=	203.6	MINIMUM BKR A.I.C. RATING= 14,000 AMPS SYM																	

PANEL "HL2"

SERVICE: 277/480V 3Φ 4W | MAIN BKR.: 60A | BUS: 100A | LOC.: SEE PLAN
LUTRON XPS12-2774ML-20 | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LIG	MISC	POLE	TRIP	CIRC		CIRC	TRIP	POLE	REC	LIG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
EXTERIOR	208				8		1	20	1		2	20	1		28		1118			OFFICE
PARKING LOT		3112			15		1	20	3		4	20	1		29			1643		OFFICE
SPARE							1	20	5		6	20	1		29				672	CORRIDOR
SPARE							1	20	7		8	20	1							SPARE
SPARE							1	20	9		10	20	1							SPARE
EXIT & EMERGENCY			9		3		1	20	11	✱	12	20	1							SPARE
	208	3112	9														1118	1643	672	
TOTAL WATTS=	6762			ΦA=	1326							ΦB=	4755						ΦC=	681
AMPS=	8.133	MINIMUM BKR A.I.C. RATING= 14,000 AMPS SYM																		

✱BREAKER ONLY PAINT BREAKER RED

PANEL "HN2"

SERVICE: 277/480V 3Φ 4W | MAIN BKR.: 60A | BUS: 100A | LOC.: SEE PLAN
LUTRON XPS12-2774ML-20 | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LIG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LIG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
EXTERIOR	884				34		1	20	1	2	20	1		42		2184			LUTRON SAVR NODE
SUPPORT		1006			19		1	20	3	4	20	1		44			2288		LUTRON SAVR NODE
SPARE							1	20	5	6	20	1		44				2288	LUTRON SAVR NODE
SPARE							1	20	7	8	20	1		44		2288			LUTRON SAVR NODE
SPARE							1	20	9	10	20	1							SPARE
SPARE							1	20	11	12	20	1							SPARE
	884	1006	0													4472	2288	2288	
TOTAL WATTS=	10938			ΦA=	5356						ΦB=	3294						ΦC=	2288
AMPS=	13.16	MINIMUM BKR A.I.C. RATING= 14,000 AMPS SYM																	

PANEL "HM1"

SERVICE: 277/480V 3Φ 4W | MAIN BKR.: 400A | BUS: 400A | LOC.: SEE PLAN
SQUARE D "NF" PANELBOARD | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LIG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LIG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
HP-M1	5263					1	3	25	1	2	20	1							SPARE
.....		5263				1	----	----	3	4	20	1							SPARE
.....			5263			1	----	----	5	6	20	1							SPARE
HP-M2	5263					1	3	25	7	8	20	1							SPARE
.....		5263				1	----	----	9	10	20	1							SPARE
.....			5263			1	----	----	11	12	20	1							SPARE
SPARE							1	20	13	14	20	1							SPARE
SPARE							1	20	15	16	20	1							SPARE
SPARE							1	20	17	18	20	1							SPARE
SPARE							1	20	19	20	20	1							SPARE
SPARE							1	20	21	22	20	1							SPARE
SPARE							1	20	23	24	20	1							SPARE
SPARE							1	20	25	26	20	1							SPARE
SPARE							1	20	27	28	20	1							SPARE
SPARE							1	20	29	30	20	1							SPARE
SPARE							1	20	31	32	20	1							SPARE
SPARE							1	20	33	34	20	1							SPARE
SPARE							1	20	35	36	20	1							SPACE
PANEL "HM2"	2054						3	60	37	38	100	3				9692			TRANSFORMER "LM1"
.....		1352					----	----	39	40	----	----					10088		.....
.....			2570				----	----	41	42	----	----						8038	.....
	12580	11878	13096													9692	10088	8038	
TOTAL WATTS=	65372			ΦA=	22272						ΦB=	21966						ΦC=	21134
AMPS=	78.63	MINIMUM BKR A.I.C. RATING= 14,000 AMPS SYM																	

PANEL "HP1"

SERVICE: 277/480V 3Φ 4W | MAIN BKR.: 300A | BUS 400A | LOC.: SEE PLAN
SQUARE D "NF" PANELBOARD | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LIG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LIG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
SPARE							1	20	1	2	30	3		1	6400				HP-P1
SPARE							1	20	3	4	----	----		1		6400			.....
SPARE							1	20	5	6	----	----		1			6400		.....
SPARE							1	20	7	8	20	3		1	4432				HP-P2
SPARE							1	20	9	10	----	----		1		4432			.....
SPARE							1	20	11	12	----	----		1			4432		.....
SPARE							1	20	13	14	30	3		1	6400				HP-P3
SPARE							1	20	15	16	----	----		1		6400			.....
SPARE							1	20	17	18	----	----		1			6400		.....
SPARE							1	20	19	20	20	3		1	4432				HP-P4
SPARE							1	20	21	22	----	----		1		4432			.....
SPARE							1	20	23	24	----	----		1			4432		.....
SPARE							1	20	25	26									SPACE
SPARE							1	20	27	28									SPACE
SPARE							1	20	29	30									SPACE
SPARE							1	20	31	32									SPACE
SPARE							1	20	33	34									SPACE
SPARE							1	20	35	36									SPACE
PANEL "HP2"	3652						3	60	37	38	150	3			31912				TRANSFORMER "LP1"
.....		2777					----	----	39	40	----	----					31844		.....
.....			2673				----	----	41	42	----	----						33344	.....
	3652	2777	2673												53576	53508	55008		
TOTAL WATTS=	2E+05			ΦA=	57228						ΦB=	56285						ΦC=	57681
AMPS=	205.9	MINIMUM BKR A.I.C. RATING= 14,000 AMPS SYM																	

PANEL "HM2"

SERVICE: 277/480V 3Φ 4W | MAIN BKR.: 60A | BUS: 100A | LOC.: SEE PLAN
LUTRON XPS12-2774ML-20 | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LIG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LIG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
EXTERIOR	702				27		1	20	1	2	20	1		26		1352			LUTRON SAVR NODE
SPARE							1	20	3	4	20	1		26			1352		LUTRON SAVR NODE
SPARE							1	20	5	6	20	1		21				1466	SUPPORT
SPARE							1	20	7	8	20	1							SPARE
SPARE							1	20	9	10	20	1							SPARE
EXIT & EMERGENCY			1104		24		1	20	11	12	20	1							SPARE
	702	0	1104													1352	1352	1466	
TOTAL WATTS=	5976			ΦA=	2054						ΦB=	1352						ΦC=	2570
AMPS=	7.188	MINIMUM BKR A.I.C. RATING= 14,000 AMPS SYM																	

PANEL "HP2"

SERVICE: 277/480V 3Φ 4W | MAIN BKR.: 60A | BUS: 100A | LOC.: SEE PLAN
LUTRON XPS12-2774ML-20 | MTG.: FLUSH

REMARKS	LOAD ΦA	LOAD ΦB	LOAD ΦC	REC	LIG	MISC	POLE	TRIP	CIRC	CIRC	TRIP	POLE	REC	LIG	MISC	LOAD ΦA	LOAD ΦB	LOAD ΦC	REMARKS
EXTERIOR	676				26				1	2				11		584			SUPPORT
LUTRON SAVR NODE		2288			44				3	4				4			385		BUILDING 'Q'
LUTRON SAVR NODE			2288		44				5	6				4				385	BUILDING 'R'
LUTRON SAVR NODE	2288				44				7	8				11		104			BUILDING 'Q' EXTERIOR
SPARE									9	10				11			104		BUILDING 'R' EXTERIOR
SPARE									11	12									SPARE
	2964	2288	2288													688	489	385	
TOTAL WATTS=	9102			ΦA=	3652						ΦB=	2777						ΦC=	2673
AMPS=	10.95	MINIMUM BKR A.I.C. RATING= 14,000 AMPS SYM																	

ORDIZ MELBY
ARCHITECTS, INC.
5500 MING AVENUE SUITE 280
BAKERSFIELD, CALIFORNIA 93309
TELEPHONE (661) 832-5258
FACSIMILE (661) 832-4291

LICENSED ARCHITECT DANSY ESPINOSA ORDIZ No. C-14728 MAY 31, 2013 RENEWAL DATE STATE OF CALIFORNIA

DANSY E. ORDIZ, AIA
ARCHITECT C-14,728
WILLIAM J. MELBY, AIA
ARCHITECT C-16,835

CONSULTANT

IDENTIFICATION STAMP
DIVISION OF STATE ARCHITECT
OFFICE OF REGULATION SERVICES
APPL. # :02-112027
FILE # : 15-6
AC FD SS CR
DATE JAN 2 0 2012

NEW ELEMENTARY SCHOOL
9801 HIGHLAND KNOLLS DR
BAKERSFIELD
CALIFORNIA
93306

NEW MIDDLE SCHOOL
4115 VINELAND ROAD
BAKERSFIELD
CALIFORNIA
93306

FOR:

BAKERSFIELD CITY SCHOOL DISTRICT
1300 BAKER STREET
BAKERSFIELD
CALIFORNIA
93305

JMPE
ELECTRICAL ENGINEERING
LIGHTING DESIGN
CA REGISTRATION NO E13080J
10244
5500 MING AVENUE
SUITE 250
BAKERSFIELD CA 93309
(661) 831-7885
FAX (661) 831-7813
EMAIL: mickey@jmpe.net
www.jmpe.net

REGISTERED PROFESSIONAL ENGINEER MICKEY MALONE FOR ELECTRICAL STATE OF CALIFORNIA

MARK	DATE	DESCRIPTION
△		
△		
△		
△		
△		

JOB NUMBER:
20101244
CAD DRAWING FILE.

DRAWN BY:
AC
CHECKED BY.
PH

CHECK AND VERIFY ALL DIMENSIONS BEFORE PROCEEDING WITH THE WORK. REPORT DESCREPANCIES TO THE ARCHITECT.

THE DRAWINGS, IDEAS, AND DESIGNS REPRESENTED ON THIS SHEET ARE THE PROPERTY OF THE ARCHITECT.

COPYRIGHT
ORDIZ-MELBY ARCHITECTS, INC 2010

SHEET TITLE
PANELS

SHEET IDENTIFICATION NUMBER
E-014
SHEET OF

JMPE/JOB#:10244/DATE:12-30-11 AC