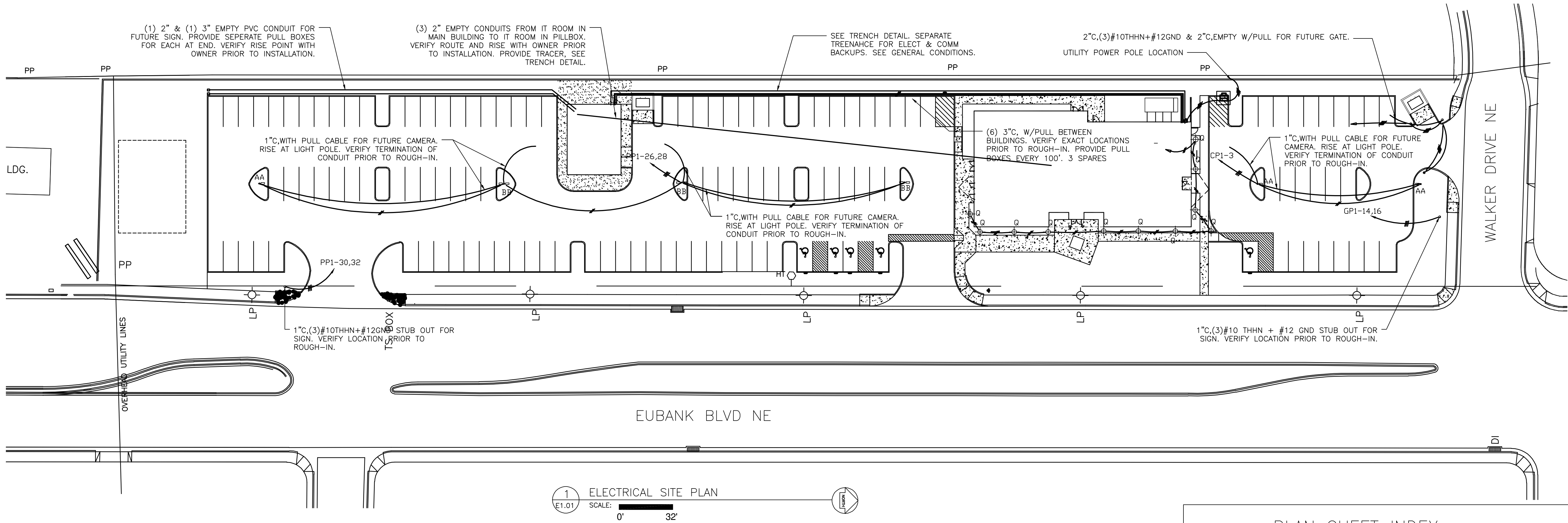


11/23/2010 11:37:25 AM

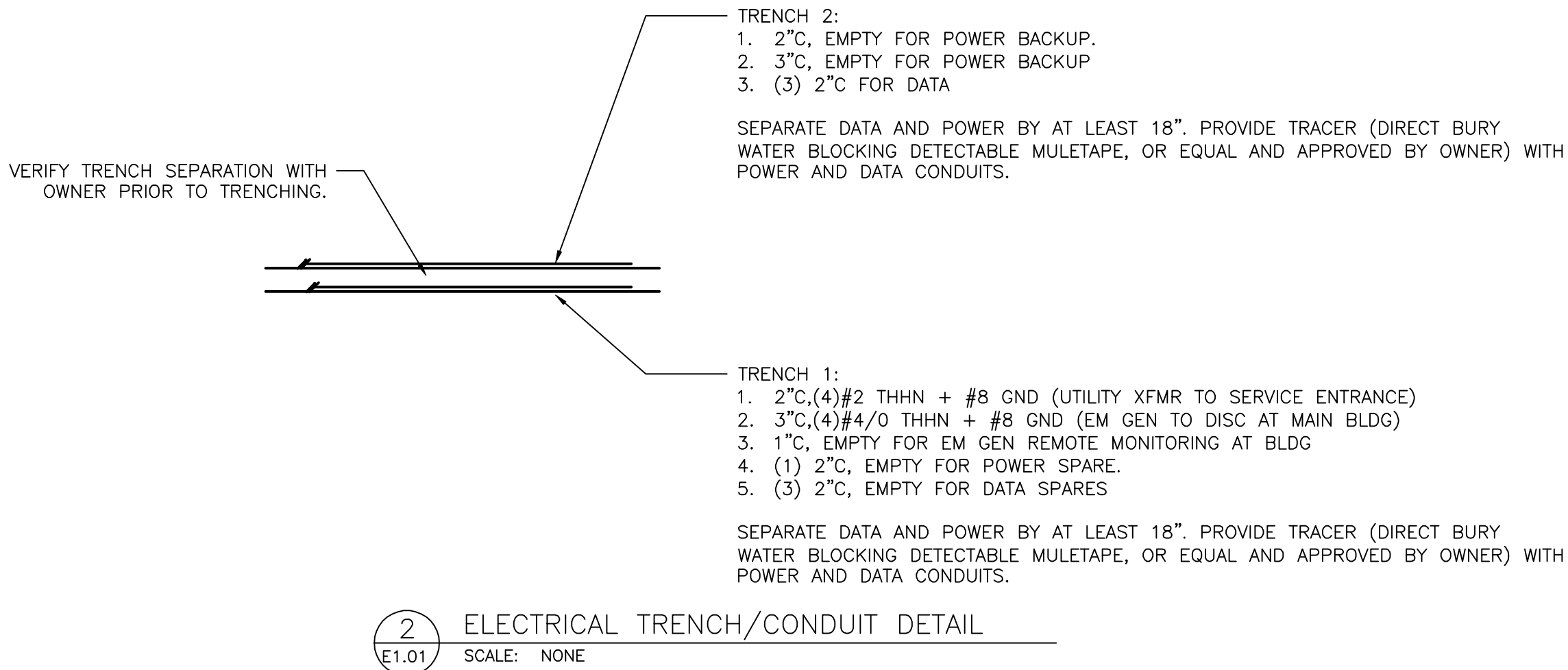
ELECTRICAL SITE LIGHTING FIXTURE SCHEDULE										
Quantity	KEY	ID	DESCRIPTION	ELECTRICAL DATA		LAMP DATA		BASIS OF DESIGN		NOTES
				LOAD VA	VOLTAGE	QTY	WATTAGE	MANUFACTURER	MODEL OR SERIES	
3	■	AA	SINGLE MOUNT SITE FIXTURE 25' POLE	400.0	208/1/60	1	400.0	SPAULDING	CR1-A-P40-H3-F-Q-BL	
3	▣	BB	DUAL MOUNT SITE FIXTURE 25' POLE	800.0	208/1/60	2	400.0	SPAULDING	(2)CR1-A-P40-H3-F-Q-BL	
11	⊕	Q	ROUND ALUMINUM BOLLARD	70.0	120/1/60	1	70.0	KIM	VRB3-X-BL	

NOTES:

- HUBBELL & LITHONIA ARE APPROVED EQUAL AS MANUFACTURER. FIXTURES SHALL BE AS SPECIFIED OR EQUAL IN QUALITY AND IN APPEARANCE. SUPPLIER MAY BE REQUIRED TO PROVIDE PHOTOMETRIC ANALYSES TO PROVE EQUAL IN PERFORMANCE.



ELECTRICAL SYMBOLS		
	GFI	DUPLEX RECEPTACLE
		GROUND FAULT RECEPTACLE
		SWITCHED RECEPTACLE
		SINGLE RECEPTACLE
		FOUR-PLEX RECEPTACLE
		FLOOR RECEPTACLE
		SPECIAL RECEPTACLE
		ELECTRICAL PANEL
		ELECTRICAL EQUIP SCHED ITEM
		MOTOR WITH DISCONNECT
		DISCONNECT SWITCH
		DISCONNECT SWITCH - FUSED
		FIRE ALARM REMOTE PANEL
		FIRE ALARM ANNUNCIATOR
		FIRE ALARM CONTROL PANEL
		HORN STROBE
		SINGLE POLE SNAP SWITCH
		FIRE ALARM STROBE
		HEAT DETECTOR
		SMOKE DETECTOR
		MAGNETIC HOLD OPEN
		MAG HOLD OPEN WALL MTD
		FIRE ALARM HORN
		MANUAL PULL STATION
		DUCT SMOKE DETECTOR
		DUCT HEAT DETECTOR
		FIXED TEMP HEAT DETECTOR
		TAMPER DETECTOR SWITCH
		SMOKE DETECTOR - IONIZATION
		TAMPER DETECTOR
		SWITCH
		PHOTO CELL
		TIME CLOCK
		CARD READER



PLAN SHEET INDEX	
E1.01	ELECTRICAL INDEX & SITE PLAN
E2.01	ELECTRICAL MAIN BUILDING 1ST FLOOR LIGHTING PLAN
E2.02	ELECTRICAL MAIN BUILDING 2ND FLOOR LIGHTING PLAN
E2.03	ELECTRICAL PILL BOX LIGHTING & POWER PLAN
E3.01	ELECTRICAL MAIN BUILDING 1ST FLOOR POWER PLAN
E3.02	ELECTRICAL MAIN BUILDING 2ND FLOOR POWER PLAN
E3.03	ELECTRICAL SNOW MELT SYSTEM
E4.01	ELECTRICAL CABLE TRAY PLAN
E5.01	ELECTRICAL PANELBOARD SCHEDULES SHEET 1 OF 2
E5.02	ELECTRICAL PANELBOARD SCHEDULES SHEET 2 OF 2
E5.03	ELECTRICAL LIGHT FIXTURE SCHEDULE & 1-LINE DIAGRAM
E6.01	ELECTRICAL COMCHECK REPORT

REV: July 14, 2010

© 2010 McElheney Architects, P.C.

DAVID A. EYE
NEW MEXICO
17593
LICENSED PROFESSIONAL ENGINEER

David A. Eye
July 14, 2010

ELECTRICAL INDEX & SITE PLAN

McELHENEY Architects

2001 CARLISLE BLVD. NE, SUITE B
ALBUQUERQUE, NM 87110-4943
V: 505.262.0193 F: 505.881.9114 E: bobmacarch@mac.com

New Mexico One Call Inc

1021 Eubank Blvd NE
Albuquerque, NM 87111

SHEET NO.

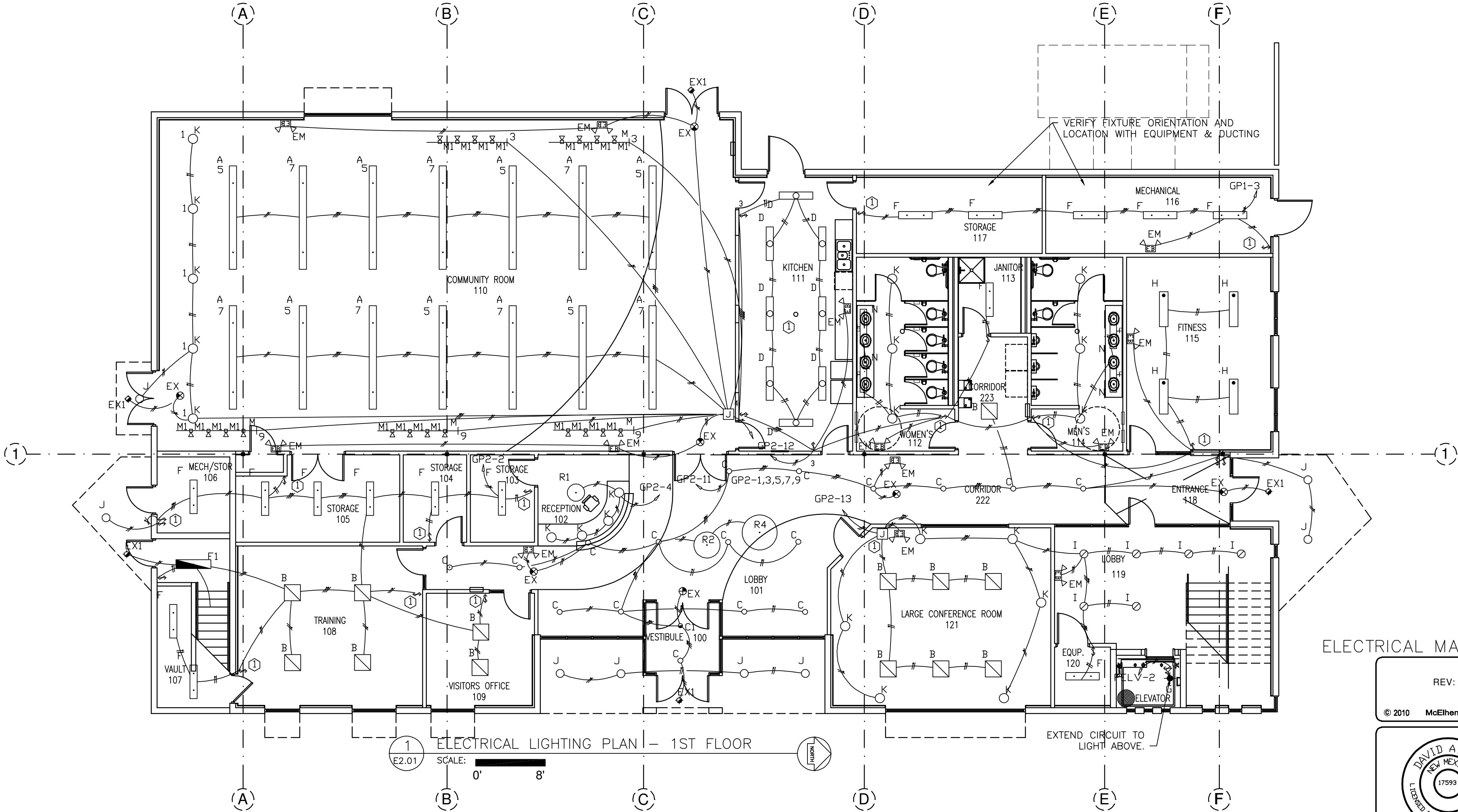
E1.01

ONE-CALL 1st FLOOR LIGHT FIXTURE SCHEDULE										
Quantity	KEY	ID	DESCRIPTION	ELECTRICAL DATA		LAMP DATA		BASIS OF DESIGN		NOTES
				LOAD VA	VOLTAGE	QTY	WATTAGE	MANUFACTURER	MODEL OR SERIES	
14		A	12' LINEAR. WHITE BAFFLE. 2 CKT.	300.0	120/1/60	9	32.0	FINELITE	S4-12'-2T8-SC-91W-120-ACX-X-.88	
13		B	2X2 ACRYLIC LENS, 2 CKT	65.0	120/1/60	3	17.0	LEDALITE	3222-D1-ST-T317-S-2-1-E	
17		C	6" LED CYLINDER	70.0	120/1/60	2	32.0	CREE	LR6-SC6	
1		C1	6" LED CYLINDER	70.0	120/1/60	2	32.0	CREE	LR6-SC6	
8		D	1X4 SURFACE MOUNT	64.0	120/1/60	2	32.0	COLUMBIA	SM14-232-FSA12125-EU	
13		EM	EMERGENCY LIGHT	20.0	120/1/60	2	12.0	DUALITE	LZ2	
7		EX	EXIT SIGN, WHITE THERMOPLASTIC	10.0	120/1/60	1	10.0	DUALITE	LXURWE	
6		EX1	EGRESS EMERGENCY	20.0	120/1/60	1	20.0			
15		F	4' STRIP WITH WIREGUARD	32.0	120/1/60	1	32.0	COLUMBIA	CS4-132-EU-CSWG4	
1		F1	4' STRIP WITH WIREGUARD	32.0	120/1/60	1	32.0	COLUMBIA	CS4-132-EU-CSWG4	
1		G	JAR & GUARD	60.0	120/1/60	1	60.0	HUBBELL	VX-151	
4		H	4' CEILING MOUNT	100.0	120/1/60	3	32.0	KENALL	MLRS8-48-F-CBA-PIA-232-RS-1-120	
8		I	DECORATIVE PENDANT	70.0	120/1/60	2	32.0	D'AC	D5238-1FC40-120-CBA-COIL	
8		J	6" OPEN DOWNLIGHT	55.0	120/1/60	2	26.0	PRESCOLITE	LF6CFV32EB-6CFV-B24	
21		K	6" OPEN DOWNLIGHT	55.0	120/1/60	2	26.0	PRESCOLITE	LF6CFV32EB-6CFV-B24	
5		M	MONORAIL	0.0	120/1/60	0	0.0	LBL	RAIL-ST-SC-X	
20		M1	MR16 HEAD	50.0	120/1/60	1	42.0	HE441-SC-X-1A-50-MRL	LBL	
4		N	4' SLIM VANITY	55.0	120/1/60	2	32.0	AXIS	ARS-W-4-T8-2-CBA-E-120-1	
1		R1	2' DIA RECESSED CONVEX LENS'	0.0	120/1/60	2	0.0	FOCAL POINT	FSD-22-D-2BXX-E-120-U-CX-HW	
1		R2	3' DIA SURFACE MT CONVEX LENS	0.0	120/1/60	0	0.0	FOCAL POINT	FSD-33-D-3T86-E-120-SM-CX-WH	
1		R4	4' DIA PENDANT CONVEX LENS	170.0	120/1/60	5	32.0	FOCAL POINT	FSD-44-D-5T8U6-E-120-XX-CX-WH	

NOTES:
1. COOPER & LITHONIA ARE APPROVED EQUAL AS MANUFACTURER. FIXTURES SHALL BE AS SPECIFIED OR EQUAL IN QUALITY AND IN APPEARANCE. SUPPLIER MAY BE REQUIRED TO PROVIDE PHOTOMETRIC ANALYSES TO PROVE EQUAL IN PERFORMANCE.

1ST FLOOR GENERAL NOTES

1. PROVIDE MOTION CONTROL SWITCHES ON ALL OFFICES, BATHROOMS, STORAGE ROOMS AND OTHER AREAS IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES.
2. OPERATION OF THE FACILITY LIGHTING CONTROLLER SHALL BE IN FULL ACCORDANCE WITH LOCAL, STATE AND NATIONAL ENERGY CODES.



ELECTRICAL MAIN BUILDING 1ST FLOOR LIGHTING PLAN

REV: July 14, 2010

© 2010 McElheney Architects, P.C.

DAVID A. ENE
NEW MEXICO
LICENSED PROFESSIONAL ENGINEER
17593
David A. Ene
July 14, 2010

McELHENEY
Architects

2001 CARLISLE BLVD. NE, SUITE B
ALBUQUERQUE, NM 87110-4943
V: 505.262.0193 F: 505.881.9114 E: bobmacarch@mac.com

New Mexico One Call Inc

1021 Eubank Blvd NE
Albuquerque, NM 87111

SHEET NO.

E2.01

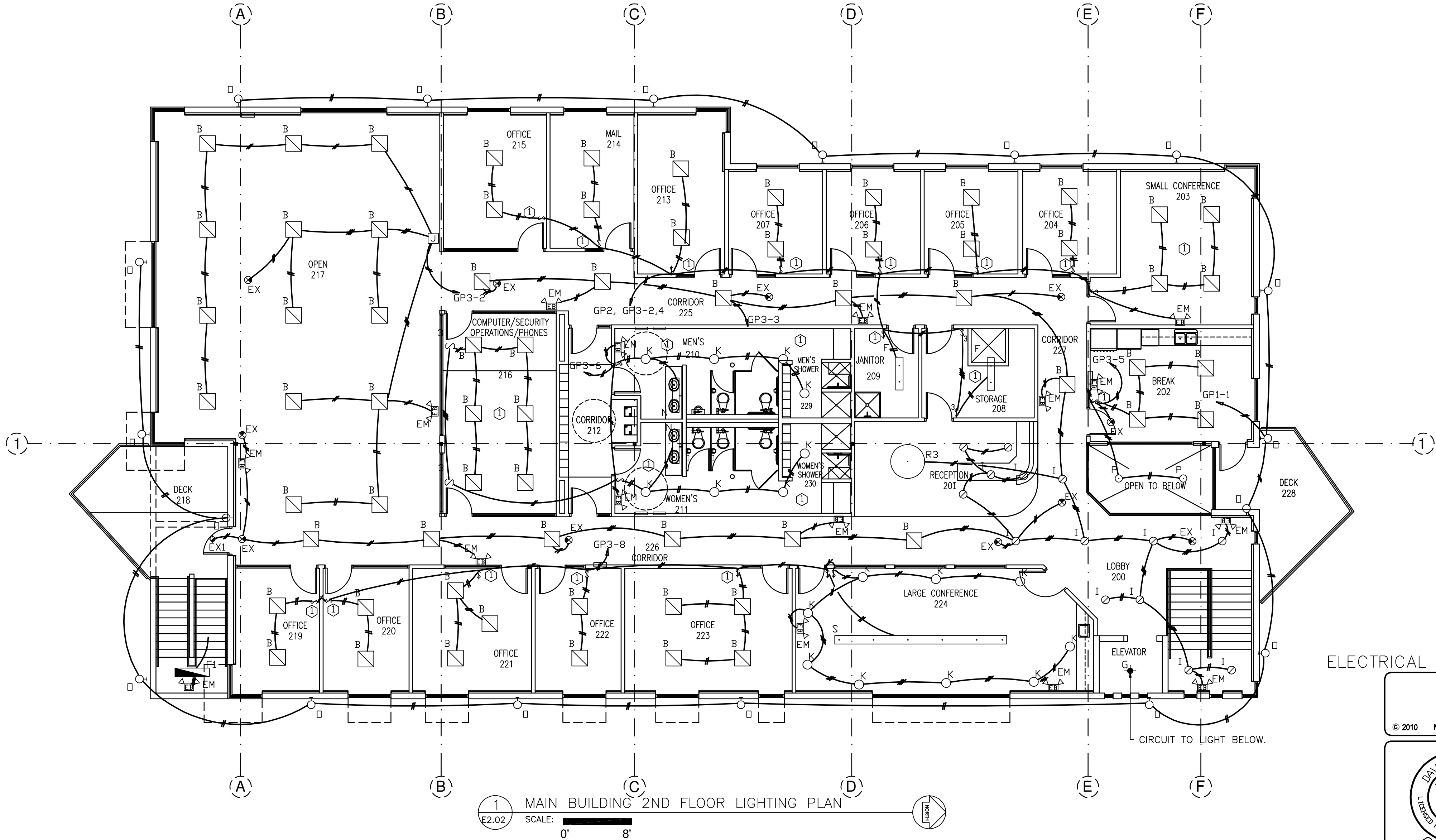
ONE-CALL 2ND FLOOR LIGHT FIXTURE SCHEDULE										
Quantity	KEY	ID	DESCRIPTION	ELECTRICAL DATA		LAMP DATA		BASIS OF DESIGN		NOTES
				LOAD VA	VOLTAGE	QTY	WATTAGE	MANUFACTURER	MODEL OR SERIES	
67	☐	B	2X2 ACRYLIC LENS, 2 CKT	65.0	120/1/60	3	17.0	LEDALITE	3222-D1-ST-T317-S-2-1-E	
16	☐	EM	EMERGENCY LIGHT	20.0	120/1/60	2	12.0	DUALITE	LZ2	
11	☐	EX	EXIT SIGN, WHITE THERMOPLASTIC	10.0	120/1/60	1	10.0	DUALITE	LXURWE	
1	☐	EX1	EGRESS EMERGENCY	20.0	120/1/60	1	20.0			
2	☐	F	4' STRIP WITH WIREGUARD	32.0	120/1/60	1	32.0	COLUMBIA	CS4-132-EU-CSWG4	
1	☐	F1	4' STRIP WITH WIREGUARD	32.0	120/1/60	1	32.0	COLUMBIA	CS4-132-EU-CSWG4	
1	☐	G	JAR & GUARD	60.0	120/1/60	1	60.0	HUBBELL	VX-151	
14	☐	I	DECORATIVE PENDANT	70.0	120/1/60	2	32.0	D'AC	D5238-1FC40-120-CBA-COIL	
1	☐	J	6" OPEN DOWNLIGHT	55.0	120/1/60	2	26.0	PRESCOLITE	LF6CFV32EB-6CFV-B24	
17	☐	K	6" OPEN DOWNLIGHT	55.0	120/1/60	2	26.0	PRESCOLITE	LF6CFV32EB-6CFV-B24	
2	☐	N	4' SLIM VANITY	55.0	120/1/60	2	32.0	AXIS	ARS-W-4-T8-2-CBA-E-120-1	
18	☐	O	ARCHITECTURAL WALLPACK	70.0	120/1/60	1	70.0	KIM	WFXX-70MH120-X	
2	☐	P	DECORATIVE PENDANT	170.0	120/1/60	1	150.0	D'AC	D5239-2F26-120-X	
1	☐	R3	4' DIA SURFACE MT CONVEX LENS	170.0	120/1/60	5	32.0	FOCAL POINT	FSD-44-5T8-U6-E-120-SM-CX-WH	
1	☐	S	20' LINEAR, POLYMER BAFFLES	320.0	120/1/60	10	32.0	AXIS	SP-L-20'-T8-2-X-120-E-1-CAX	

NOTES:

1. COOPER & LITHONIA ARE APPROVED EQUAL AS MANUFACTURER. FIXTURES SHALL BE AS SPECIFIED OR EQUAL IN QUALITY AND IN APPEARANCE. SUPPLIER MAY BE REQUIRED TO PROVIDE PHOTOMETRIC ANALYSES TO PROVE EQUAL IN PERFORMANCE.

2ND FLOOR GENERAL NOTES

1. PROVIDE MOTION CONTROL SWITCHES ON ALL OFFICES, BATHROOMS, STORAGE ROOMS AND OTHER AREAS IN ACCORDANCE WITH LOCAL, STATE AND NATIONAL CODES.
2. OPERATION OF THE FACILITY LIGHTING CONTROLLER SHALL BE IN FULL ACCORDANCE WITH LOCAL, STATE AND NATIONAL ENERGY CODES.



ELECTRICAL MAIN BUILDING 2ND FLOOR LIGHTING PLAN

REV: July 14, 2010
© 2010 McElheney Architects, P.C.



McELHENY
Architects
2001 CARLISLE BLVD. NE, SUITE B
ALBUQUERQUE, NM 87110-4943
V: 505.262.0193 F: 505.881.9114 E: bobmacarch@mac.com

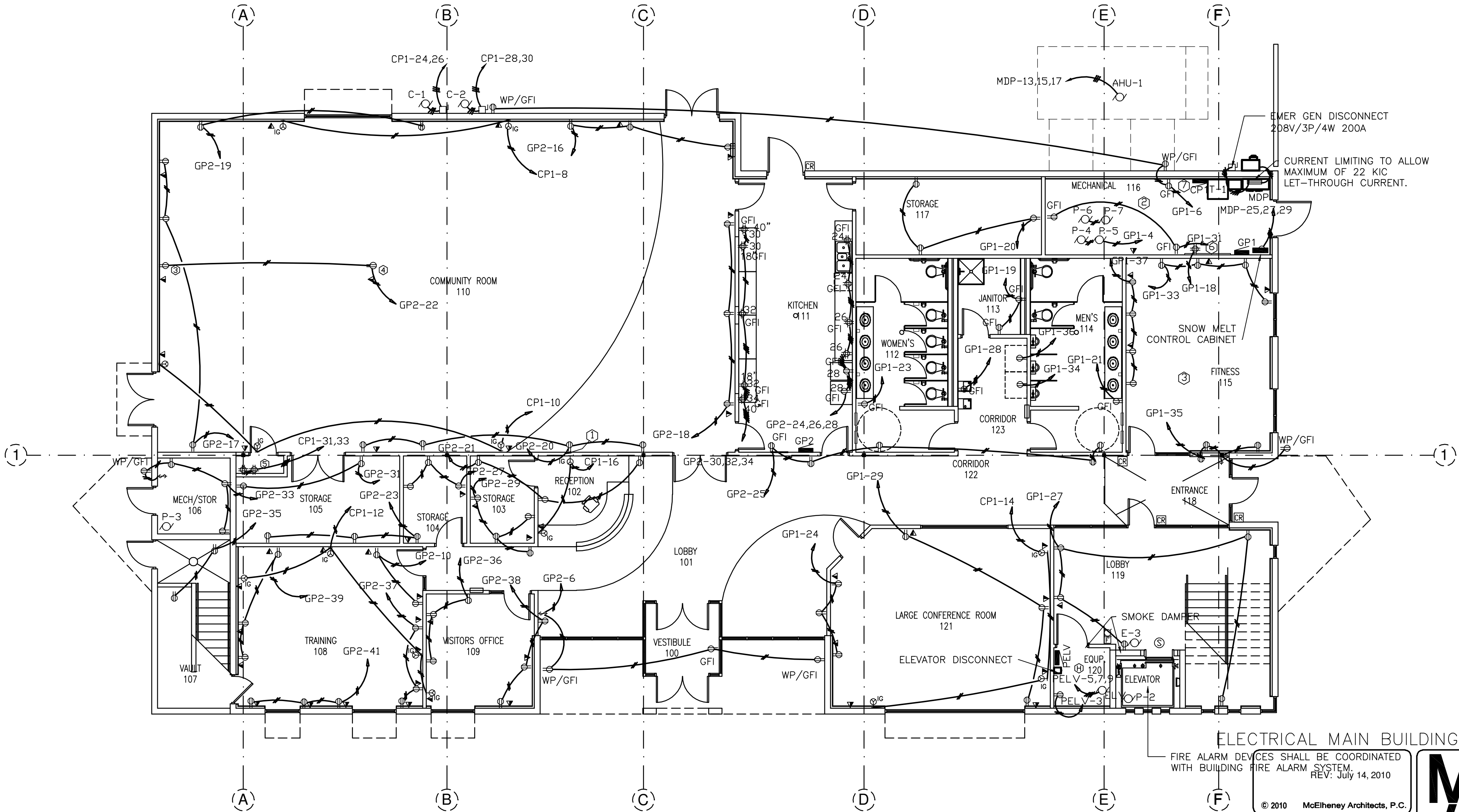
New Mexico One Call Inc
1021 Eubank Blvd NE
Albuquerque, NM 87111

SHEET NO.
E2.02

ONE-CALL MAIN BUILDING 1ST FLOOR ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE															
ID	KEY	ELECTRICAL DATA		LOCATION	BASIS OF DESIGN				FED FROM	CKT #	LOAD	DISCONNECT	CONTROL	REMARKS	NOTES
		MOCP AMPS	VOLTAGE		MANUFACTURER	MODEL NUMBER	DESCRIPTION	CONDUIT & WIRE							
AHU-1	⊗	300	208/3/60	NW EXTERIOR	AAON	RN-040-8-0-EA09	GND MTD ROOFTOP UNIT	3"C,(3)300KCMIL+ #4GND	MDP	13,15,17	85800	YES	OTHERS		
C-1	⊗	30	208/1/60	WEST EXTERIOR			CONDENSING UNIT	3/4"C,(2) #10 THHN + #10 GND	CP1	24,26	3800	YES	OTHERS		
C-2	⊗	30	208/1/60	WEST EXTERIOR			CONDENSING UNIT	3/4"C,(2) #10 THHN + #10 GND	CP1	28,30	3800	YES	OTHERS		
E-3	⊗	20	120/1/60	AT ELEV RM		SERIES 100	EXHAUST FAN	3/4"C,(2) #10 THHN + #12 GND	PELV	2	200	YES	OTHERS		
ELV	⊗	0	208/3/60	RM 120			ELEVATOR MOTOR	1 1/4"C,(3) #4 + #8 GND	PELV	5,7,9	15000	YES	OTHERS		
P-2	⊗	20	120/1/60	ELEVATOR PIT	WEIL	1408	SUBMERSIBLE PUMP	3/4"C,(2) #10 THHN + #12 GND	PELV	4	900	YES	OTHERS		
P-3	⊗	20	120/1/60	RM 106		SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	4	400	YES	OTHERS		
P-4	⊗	20	120/1/60	MECH RM 116	BELL & GOSSETT	SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	4	400	YES	OTHERS		
P-5	⊗	20	120/1/60	MECH RM 116	BELL & GOSSETT	SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	4	400	YES	OTHERS		
P-6	⊗	20	120/1/60	MECH RM 116	BELL & GOSSETT	SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	2	400	YES	OTHERS		
P-7	⊗	20	120/1/60	MECH RM 116	BELL & GOSSETT	SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	2	400	YES	OTHERS		

1. (2) EMPTY 2" CONDUITS TO PILL BOX. RISE IN WALL TO IT ROOM ABOVE. RISE IN WALL OF IT ROOM AND PROVIDE PULL/J-BOX AT 12" AFF. VERIFY LOCATION WITH OWNER PRIOR TO ROUGH-IN.
2. SIX (6) 2" CONDUITS UP TO CEILING OF 2ND FLOOR. COORDINATE WITH MECHANICAL EQUIPMENT. EXTEND AS NECESSARY TO CLEAR MECHANICAL EQUIPMENT.
3. RECEPTACLE & DATA HIGH. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
4. RECEPTACLE & DATA AT CEILING. VERIFY EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN. PROVIDE 1" CONDUIT DOWN TO 18" AFF ON SOUTH WALL. PROVIDE 4" SQUARE FLUSH J-BOX FOR VIDEO CABLE.
5. PROVIDE 4'WX8'HX3/4"THICK PLYWOOD BACKBOARD. MOUNT (2) QUADRAPLEX OUTLETS @ 48" & 60" AFF. EXTEND CONDUITS TO EDGE OF BACKBOARD.
6. 4'X4'X3/4" TELCO BACKBOARD. PROVIDE 3" CONDUIT TO WEST PROPERTY LINE.
7. STORM COOPER COMPONENTS SCGB-7KT .25"X4"X16" (OR EQUAL) GROUND BAR. CONNECT TO MAIN BUILDING GROUND SYSTEM

- 1ST FLOOR GENERAL NOTES
1. PANEL CP1 SHALL BE ISOLATED GROUND PANEL. ALL RECEPTACLES CONNECTED TO THIS PANEL SHALL BE ISOLATED GROUND WITH AN INDIVIDUAL, DEDICATED, GROUND BACK TO THE PANEL.

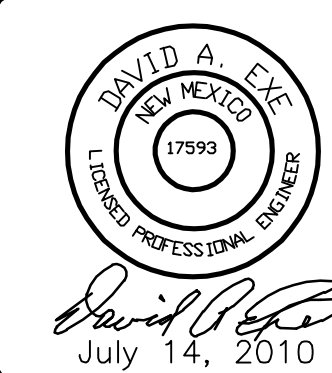


1 ELECTRICAL POWER PLAN 1ST FLOOR
E3.01 SCALE: 0' 8'

ELECTRICAL MAIN BUILDING 1ST FLOOR POWER PLAN

FIRE ALARM DEVICES SHALL BE COORDINATED WITH BUILDING FIRE ALARM SYSTEM. REV. July 14, 2010

© 2010 McElheney Architects, P.C.



McELHENEY
Architects

2001 CARLISLE BLVD. NE, SUITE B
ALBUQUERQUE, NM 87110-4943
V: 505.262.0193 F: 505.881.9114 E: bobmacarch@mac.com

New Mexico One Call Inc
1021 Eubank Blvd NE
Albuquerque, NM 87111

SHEET NO.

E3.01

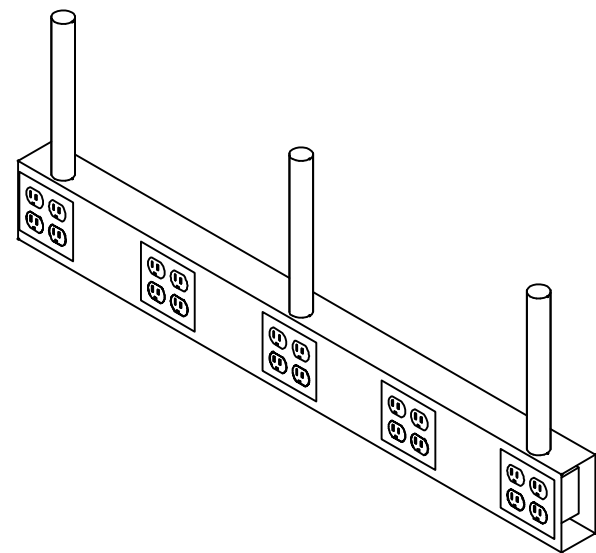
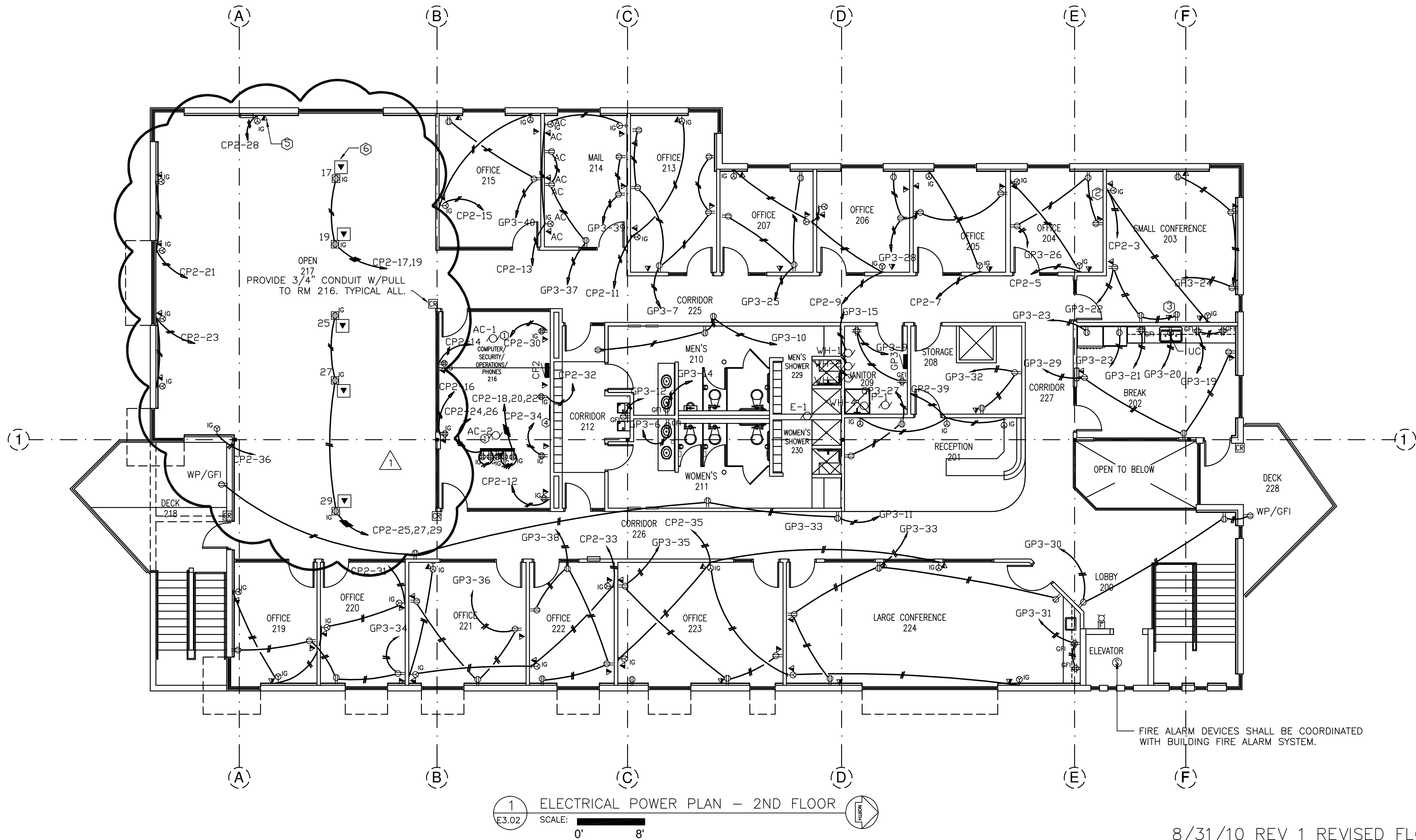
ONE-CALL MAIN BUILDING 2ND FLOOR ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE																
ID	KEY	ELECTRICAL DATA		LOCATION	BASIS OF DESIGN				FED FROM	CKT #	LOAD	DISCONNECT	CONTROL	REMARKS	NOTES	
		MOCP AMPS	VOLTAGE		MANUFACTURER	MODEL NUMBER	DESCRIPTION	CONDUIT & WIRE								
AC-1	⌘	20	120/1/60	IT 216	MITSUBISHI	PKA-A12GAL	SPLIT SYSTEM A/C	3/4"C,(2)#10 THHN + #12 GND	CP1	24,26	600	YES	OTHERS	CIRCUIT THROUGH COMPRESSOR		
AC-2	⌘	20	120/1/60	IT 216	MITSUBISHI	PKA-A12GAL	SPLIT SYSTEM A/C	3/4"C,(2)#10 THHN + #12 GND	CP1	28,30	600	YES	OTHERS	CIRCUIT THROUGH COMPRESSOR		
E-1	⌘	20	120/1/60	2ND FLOOR BATH	COOKE	CED 120C15D	EXHAUST FAN	3/4"C,(2) #10 THHN + #12 GND	GP3	13	600	YES	OTHERS	WITH MOTORIZED DAMPER		
WH-1	⌘	20	120/1/60	JANITOR 209			GAS WATER HEATER	3/4"C,(2)#12 THHN + #12 GND	GP3	15	120	YES	OTHERS			
WH-2	⌘	20	120/1/60	JANITOR 209			GAS WATER HEATER	3/4"C,(2)#12 THHN + #12 GND	GP3	15	120	YES	OTHERS			
WH-3	⌘	20	120/1/60	JANITOR 209			GAS WATER HEATER	3/4"C,(2)#12 THHN + #12 GND	GP3	15	120	YES	OTHERS			
WH-4	⌘	20	208/1/60	JANITOR 209			6 GALLON WATER HEATER	3/4"C,(2)#10 THHN + #12 GND	GP3	16,18	3000	YES	OTHERS	ABOVE CEILING		

Ⓢ 2ND FLOOR KEY NOTES

1. AC UNIT TO BE WIRED FROM ASSOCIATED OUTSIDE CONDENSING UNIT. SEE MANUFACTURER'S INSTRUCTIONS FOR DETAILS.
2. SIX (6) 2" CONDUITS DOWN TO MECHANICAL ROOM. EXTEND TO ABOVE CEILING AND CAP.
3. DUPLEX & DATA HIGH FOR PROJECTION.
4. STORM COOPER COMPONENTS SCGB-7KT .25"x4"x16" (OR EQUAL) GROUND BAR. VERIFY LOCATION AND ORIENTATION WITH OWNER PRIOR TO INSTALL. CONNECT TO MAIN BUILDING GROUND BAR IN MECHANICAL ROOM WITH 1" X .35 FLAT BRAIDED COPPER, IN CONDUIT & CONTINUOUS BETWEEN BUS BARS. ARCOR UPB 1.0 OR EQUAL AND APPROVED.
5. TEL/DATA OUTLET. PROVIDE 1" CONDUIT UP TO EXPOSED CEILING (TYP ALL). PROVIDE PULL CABLE.
6. FLOOR TEL/DATA. PROVIDE CONDUIT THROUGH FLOOR AND UP WALL TO EXPOSED CEILING. LABEL AND PROVIDE PULL CABLE.

2ND FLOOR GENERAL NOTES

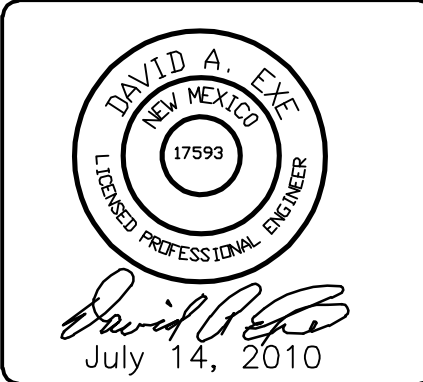
1. PANEL CP2 SHALL BE ISOLATED GROUND PANEL. ALL RECEPTACLES CONNECTED TO THIS PANEL SHALL BE ISOLATED GROUND WITH AN INDIVIDUAL DEDICATED, GROUND BACK TO THE PANEL.



2 IT ROOM CEILING PLUG MOLD DETAIL
SCALE:

8/31/10 REV 1 REVISED FLOOR POWER LAYOUT
ELECTRICAL MAIN BUILDING 2ND FLOOR POWER PLAN

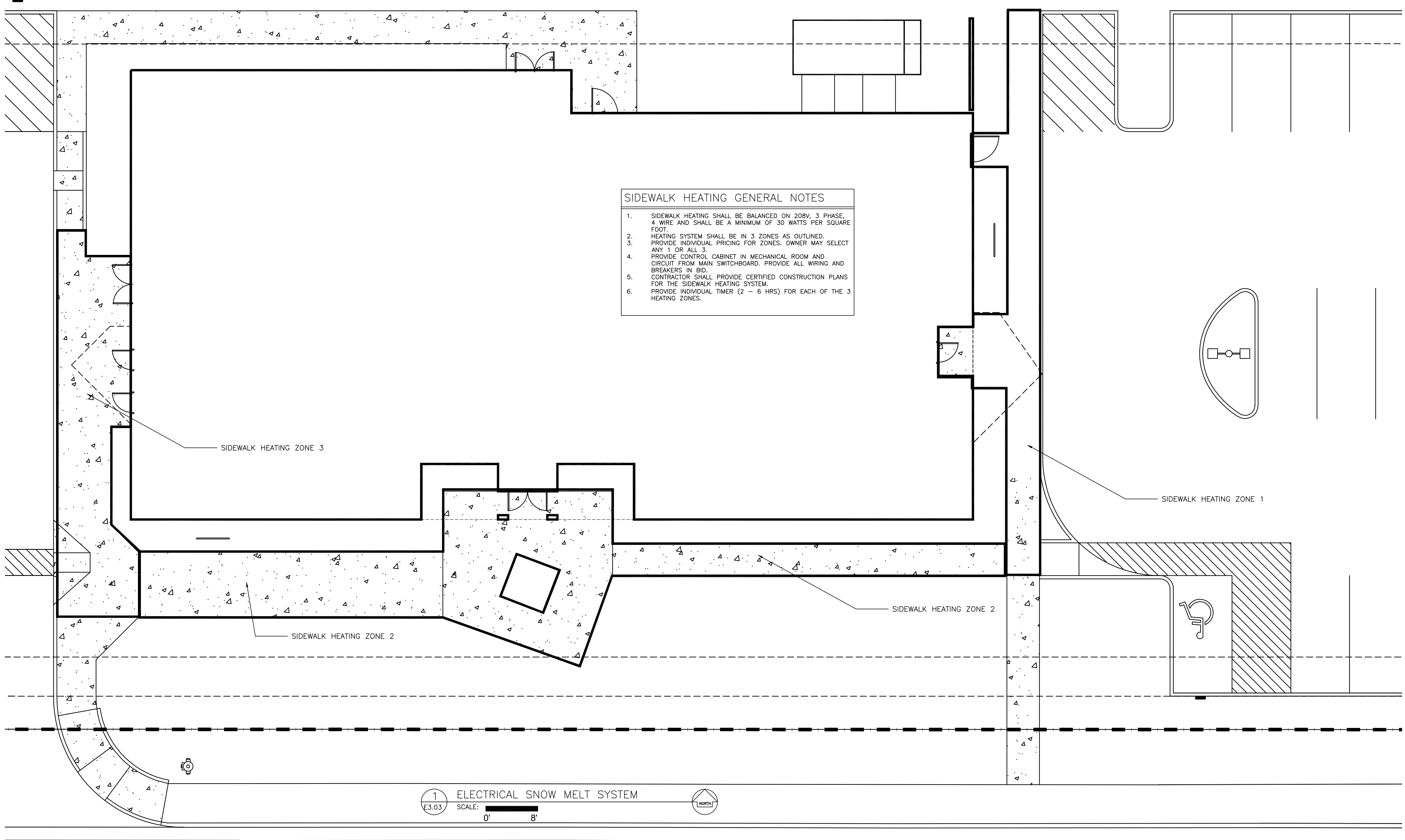
REV: July 14, 2010
© 2010 McElheney Architects, P.C.



McELHENEY Architects
2001 CARLISLE BLVD. NE, SUITE B
ALBUQUERQUE, NM 87110-4943
V: 505.262.0193 F: 505.881.9114 E: bobmacarch@mac.com

New Mexico One Call Inc
1021 Eubank Blvd NE
Albuquerque, NM 87111

SHEET NO.
E3.02



ELECTRICAL SNOW MELT SYSTEM

REV: July 14, 2010

© 2010 McElheney Architects, P.C.

McELHENEY
Architects

2001 CARLISLE BLVD. NE, SUITE B
ALBUQUERQUE, NM 87110-4943
V: 505.262.0193 F: 505.881.9114 E: bobmacarch@mac.com

New Mexico One Call Inc
1021 Eubank Blvd NE
Albuquerque, NM 87111

SHEET NO.
E3.03

DAVID A. EYE
NEW MEXICO
17593
LICENSED PROFESSIONAL ENGINEER
David A. Eye
July 14, 2010

1. COORDINATE LOCATION OF "T" WITH IT DEPARTMENT PRIOR TO INSTALLATION.
2. SIX (6) 2" EMPTY CONDUITS UP FROM LOWER LEVEL. COORDINATE WITH CABLE TRAY.
3. SIX (6) 2" CONDUITS UP FROM MECHANICAL ROOM TO ABOVE CEILING. CAP AND LABEL.
4. EMPTY CONDUITS EXTENDING TO PILL BOX BUILDING.



1. CONDUITS UP TO 2ND FLOOR CABLE TRAY.
2. CONDUITS FROM PILL BOX BUILDING AND UP TO IT ROOM ABOVE. VERIFY LOCATION AND TERMINATION AT IT ROOM.
3. SIX (6) 2" CONDUITS UP TO 2ND FLOOR TO ABOVE CEILING. CAP AND LABEL.



New Mexico One Call Inc
1021 Eubank Blvd NE
Albuquerque, NM 87111

ONE-CALL MAIN BUILDING ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE																
ID	KEY	ELECTRICAL DATA		LOCATION	BASIS OF DESIGN				FED FROM	CKT #	LOAD	DISCONNECT	CONTROL	REMARKS	NOTES	
		MOCP AMPS	VOLTAGE		MANUFACTURER	MODEL NUMBER	DESCRIPTION	CONDUIT & WIRE								
AC-1	✓	20	120/1/60	IT 216	mitsubishi	PKA-A12GAL	SPLIT SYSTEM A/C	3/4"C,(2)#10 THHN + #12 GND	CP1	24,26	600	YES	OTHERS	CIRCUIT THROUGH COMPRESSOR		
AC-2	✓	20	120/1/60	IT 216	mitsubishi	PKA-A12GAL	SPLIT SYSTEM A/C	3/4"C,(2)#10 THHN + #12 GND	CP1	28,30	600	YES	OTHERS	CIRCUIT THROUGH COMPRESSOR		
AHU-1	✓	300	208/3/60	NW EXTERIOR	AAON	RN-040-8-0-EA09	GND MTD ROOFTOP UNIT	3"C,(3)300KCMIL+#4GND	MDP	13,15,17	85800	YES	OTHERS			
C-1	✓	30	208/1/60	WEST EXTERIOR			CONDENSING UNIT	3/4"C,(2) #10 THHN + #10 GND	CP1	24,26	3800	YES	OTHERS			
C-2	✓	30	208/1/60	WEST EXTERIOR			CONDENSING UNIT	3/4"C,(2) #10 THHN + #10 GND	CP1	28,30	3800	YES	OTHERS			
E-1	✓	20	120/1/60	2ND FLOOR BATH	COOKE	CED 120C15D	EXHAUST FAN	3/4"C,(2) #10 THHN + #12 GND	GP3	13	600	YES	OTHERS	WITH MOTORIZED DAMPER		
E-3	✓	20	120/1/60	AT ELEV RM		SERIES 100	EXHAUST FAN	3/4"C,(2) #10 THHN + #12 GND	PELV	2	200	YES	OTHERS			
ELV	✓	0	208/3/60	RM 120			ELEVATOR MOTOR	1 1/4"C,(3) #4 + #8 GND	PELV	5,7,9	15000	YES	OTHERS			
P-1	✓	20	120/1/60	RM 209	BELL & GOSSETT	SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	2	400	YES	OTHERS			
P-2	✓	20	120/1/60	ELEVATOR PIT	WEIL	1408	SUBMERSIBLE PUMP	3/4"C,(2) #10 THHN + #12 GND	PELV	4	900	YES	OTHERS			
P-3	✓	20	120/1/60	RM 106		SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	4	400	YES	OTHERS			
P-4	✓	20	120/1/60	MECH RM 116	BELL & GOSSETT	SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	4	400	YES	OTHERS			
P-5	✓	20	120/1/60	MECH RM 116	BELL & GOSSETT	SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	4	400	YES	OTHERS			
P-6	✓	20	120/1/60	MECH RM 116	BELL & GOSSETT	SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	2	400	YES	OTHERS			
P-7	✓	20	120/1/60	MECH RM 116	BELL & GOSSETT	SERIES 100	HOT WATER CIRCULATING PUMP	3/4"C,(2) #10 THHN + #12 GND	GP1	2	400	YES	OTHERS			
WH-1	✓	20	120/1/60	JANITOR 209			GAS WATER HEATER	3/4"C,(2)#12 THHN + #12 GND	GP3	15	120	YES	OTHERS			
WH-2	✓	20	120/1/60	JANITOR 209			GAS WATER HEATER	3/4"C,(2)#12 THHN + #12 GND	GP3	15	120	YES	OTHERS			
WH-3	✓	20	120/1/60	JANITOR 209			GAS WATER HEATER	3/4"C,(2)#12 THHN + #12 GND	GP3	15	120	YES	OTHERS			
WH-4	✓	20	208/1/60	JANITOR 209			6 GALLON WATER HEATER	3/4"C,(2)#10 THHN + #12 GND	GP3	16,18	3000	YES	OTHERS	ABOVE CEILING		

ONE-CALL PILL BOX ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE																
ID	KEY	ELECTRICAL DATA		LOCATION	BASIS OF DESIGN				FED FROM	CKT #	LOAD	DISCONNECT	CONTROL	REMARKS	NOTES	
		MOCP AMPS	VOLTAGE		MANUFACTURER	MODEL NUMBER	DESCRIPTION	CONDUIT & WIRE								
AC-3	✓	20	120/1/60	IT 216	mitsubishi	PKA-A12GAL	SPLIT SYSTEM A/C	3/4"C,(2) #10 THHN + # 12 GND	PP1	25,27	600	YES	OTHERS	CIRCUIT THROUGH COMPRESSOR		
AC-4	✓	20	120/1/60	IT 216	mitsubishi	PKA-A12GAL	SPLIT SYSTEM A/C	3/4"C,(2) #10 THHN + # 12 GND	PP1	29,31	600	YES	OTHERS	CIRCUIT THROUGH COMPRESSOR		
AH-1	✓	20	208/3/60	RM 302	BRYANT	350AAV024060	AIR HANDLING UNIT	3/4"C,(2) #10 THHN + # 12 GND	PP1	37	200	YES	OTHERS			
C-3	✓	20	208/1/60	WEST EXTERIOR	mitsubishi	PUY-A12NHA	CONDENSING UNIT	3/4"C,(2) #10 THHN + # 12 GND	PP1	25,27	3000	YES	OTHERS	PROVIDE DISCONNECT AT WALL		
C-5	✓	25	208/1/60	WEST EXTERIOR	BRYANT	213ANA024	CONDENSING UNIT	3/4"C,(2) #10 THHN + # 12 GND	PP1	33,35	3000	YES	OTHERS	PROVIDE DISCONNECT AT WALL		
E-2	✓	20	208/1/60	303	PANASONIC	FV-11VF2	EXHAUST FAN	3/4"C,(2) #10 THHN + # 12 GND	PP1	22	400	YES	OTHERS	CIRCUIT WITH LIGHT		
E-4	✓	20	208/1/60	302	PANASONIC	FV-11VF2	EXHAUST FAN	3/4"C,(2) #10 THHN + # 12 GND	PP1	8	400	YES	OTHERS	CIRCUIT WITH LIGHT		
EH-1	✓	20	120/1/60	WALL 303			ELECTRIC BASEBOARD	3/4"C,(2) #10 THHN + # 12 GND	PP1	18	1000	YES	OTHERS	SUPPLIED & INSTALLED BY OTHERS		
M1	✓	20	120/1/60	WALL 304			MOTORIZED DAMPER	3/4"C,(2) #12 THHN + # 12 GND	PP1	36	400	YES	OTHERS	INTERLOCK WITH GENERATOR		
M2	✓	20	120/1/60	WALL 304			MOTORIZED DAMPER	3/4"C,(2) #12 THHN + # 12 GND	PP1	36	400	YES	OTHERS	INTERLOCK WITH GENERATOR		
WH-5	✓	20	208/1/60	302	PANASONIC	FV-11VF2	WATER HEATER	3/4"C,(2) #10 THHN + # 12 GND	PP1	30,32	3000	YES	OTHERS	CIRCUIT WITH LIGHT		

ELECTRICAL TRANSFORMER SCHEDULE																		
TAG	PRIMARY								SECONDARY							GROUNDING		NOTES
	KVA	CURRENT RATING	PROTECTION	VOLTAGE	WIRE SIZE			CONDUIT SIZE	CURRENT RATING	PROTECTION	VOLTAGE	WIRE SIZE			CONDUIT SIZE	WIRE SIZE	CONDUIT SIZE	
		FLA			PHASE	NEUTRAL	GROUND		FLA			PHASE	NEUTRAL	GROUND		GROUND		
T-1	75	200.0	200	208/3/60	3/0	500	6	2 1/2"	200.0	200	208/3/60	3/0	500	6	2 1/2"	6	1"	

11/23/2010 11:39:54 AM

ELECTRICAL SCHEDULES & DETAILS SHEET 2

REV: July 14, 2010

© 2010 McElheney Architects, P.C.

DAVID A. EYE
NEW MEXICO
17593
LICENSED PROFESSIONAL ENGINEER

David A. Eye
July 14, 2010

M

c

ELHENEY

Architects

2001 CARLISLE BLVD. NE, SUITE B
ALBUQUERQUE, NM 87110-4943
V: 505.262.0193 F: 505.881.9114 E: bobmacarch@mac.com

New Mexico One Call Inc

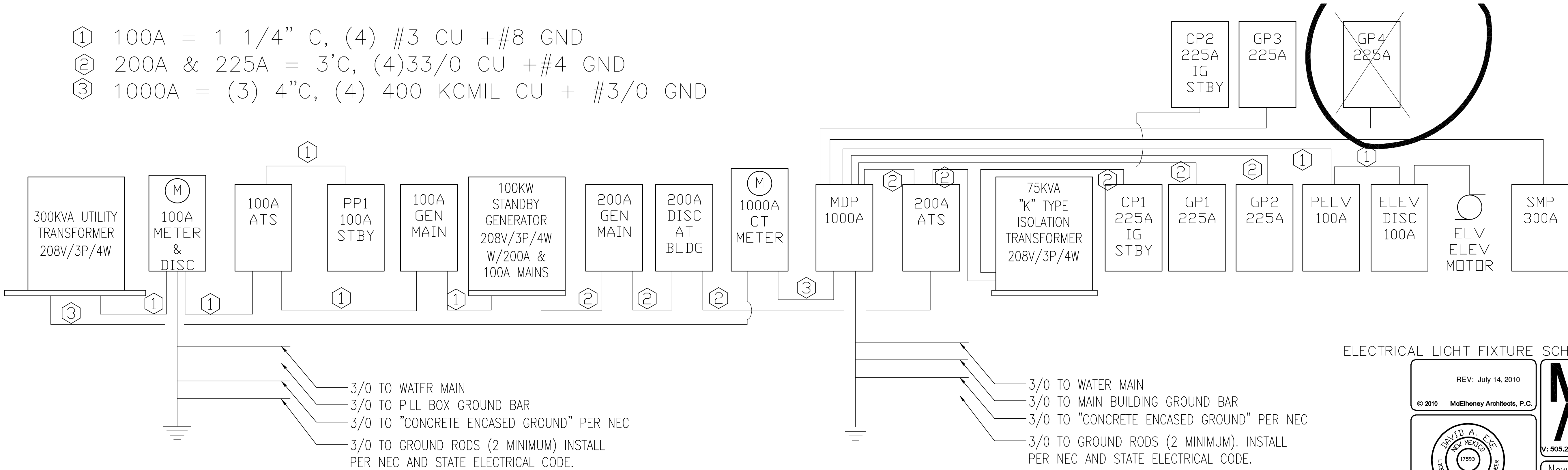
1021 Eubank Blvd NE
Albuquerque, NM 87111

SHEET NO.

E5.02

ONE-CALL COMPOSITE LIGHT FIXTURE SCHEDULE										
Quantity	KEY	ID	DESCRIPTION	ELECTRICAL DATA		LAMP DATA		BASIS OF DESIGN		NOTES
				LOAD VA	VOLTAGE	QTY	WATTAGE	MANUFACTURER	MODEL OR SERIES	
14		A	12' LINEAR. WHITE BAFFLE. 2 CKT.	300.0	120/1/60	9	32.0	FINELITE	S4-12'-2T8-SC-91W-120-ACX-X-.88	
3		AA	SINGLE MOUNT SITE FIXTURE 25' POLE	400.0	208/1/60	1	400.0	SPAULDING	CR1-A-P40-H3-F-Q-BL	
88		B	2X2 ACRYLIC LENS, 2 CKT	65.0	120/1/60	3	17.0	LEDALITE	3222-D1-ST-T317-S-2-1-E	
3		BB	DUAL MOUNT SITE FIXTURE 25' POLE	800.0	208/1/60	2	400.0	SPAULDING	(2)CR1-A-P40-H3-F-Q-BL	
17		C	6" LED CYLINDER	70.0	120/1/60	2	32.0	CREE	LR6-SC6	
1		C1	6" LED CYLINDER	70.0	120/1/60	2	32.0	CREE	LR6-SC6	
14		D	1X4 SURFACE MOUNT	64.0	120/1/60	2	32.0	COLUMBIA	SM14-232-FSA12125-EU	
32		EM	EMERGENCY LIGHT	20.0	120/1/60	2	12.0	DUALITE	LZ2	
20		EX	EXIT SIGN, WHITE THERMOPLASTIC	10.0	120/1/60	1	10.0	DUALITE	LXURWE	
8		EX1	EGRESS EMERGENCY	20.0	120/1/60	1	20.0			
21		F	4' STRIP WITH WIREGUARD	32.0	120/1/60	1	32.0	COLUMBIA	CS4-132-EU-CSWG4	
2		F1	4' STRIP WITH WIREGUARD	32.0	120/1/60	1	32.0	COLUMBIA	CS4-132-EU-CSWG4	
2		G	JAR & GUARD	60.0	120/1/60	1	60.0	HUBBELL	VX-151	
4		H	4' CEILING MOUNT	100.0	120/1/60	3	32.0	KENALL	MLRS8-48-F-CBA-PIA-232-RS-1-120	
20		I	DECORATIVE PENDANT	70.0	120/1/60	2	32.0	D'AC	D5238-1FC40-120-CBA-COIL	
8		J	6" OPEN DOWNLIGHT	55.0	120/1/60	2	26.0	PRESCOLITE	LF6CFV32EB-6CFV-B24	
38		K	6" OPEN DOWNLIGHT	55.0	120/1/60	2	26.0	PRESCOLITE	LF6CFV32EB-6CFV-B24	
5		M	MONORAIL	0.0	120/1/60	0	0.0	LBL	RAIL-ST-SC-X	
20		M1	MR16 HEAD	50.0	120/1/60	1	42.0	HE441-SC-X-1A-50-MRL	LBL	
6		N	4' SLIM VANITY	55.0	120/1/60	2	32.0	AXIS	ARS-W-4-T8-2-CBA-E-120-1	
24		O	ARCHITECTURAL WALLPACK	70.0	120/1/60	1	70.0	KIM	WFXX-70MH120-X	
2		P	DECORATIVE PENDANT	170.0	120/1/60	1	150.0	D'AC	D5239-2F26-120-X	
11		Q	ROUND ALUMINUM BOLLARD	70.0	120/1/60	1	70.0	KIM	VRB3-X-BL	
1		R1	2' DIA RECESSED CONVEX LENS'	0.0	120/1/60	2	0.0	FOCAL POINT	FSD-22-D-2BXX-E-120-U-CX-HW	
1		R2	3' DIA SURFACE MT CONVEX LENS	0.0	120/1/60	0	0.0	FOCAL POINT	FSD-33-D-3T86-E-120-SM-CX-WH	
1		R3	4' DIA SURFACE MT CONVEX LENS	170.0	120/1/60	5	32.0	FOCAL POINT	FSD-44-5T8-U6-E-120-SM-CX-WH	
1		R4	4' DIA PENDANT CONVEX LENS	170.0	120/1/60	5	32.0	FOCAL POINT	FSD-44-D-5T8U6-E-120-XX-CX-WH	
1		S	20' LINEAR, POLYMER BAFFLES	320.0	120/1/60	10	32.0	AXIS	SP-L-20'-T8-2-X-120-E-1-CAX	

- ① 100A = 1 1/4" C, (4) #3 CU + #8 GND
② 200A & 225A = 3'C, (4)33/0 CU + #4 GND
③ 1000A = (3) 4"C, (4) 400 KCMIL CU + #3/0 GND



1 ELECTRICAL 1-LINE DIAGRAM
E5.03 SCALE: NONE

ELECTRICAL LIGHT FIXTURE SCHEDULE & 1-LINE DIAGRAM

REV: July 14, 2010
© 2010 McElheney Architects, P.C.

David A. McElheney
Professional Engineer
July 14, 2010

McELHENEY
Architects

2001 CARLISLE BLVD. NE, SUITE B
ALBUQUERQUE, NM 87110-4943
V: 505.262.0193 F: 505.881.9114 E: bobmacarch@mac.com

New Mexico One Call Inc
1021 Eubank Blvd NE
Albuquerque, NM 87111

SHEET NO.
E5.03



COMcheck Software Version 3.7.1 Exterior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**
Project Title: **New Mexico One Call**
Exterior Lighting Zone: **2 (Neighborhood business district)**

Construction Site:
1021 Eubank Ave NE
Albuquerque, NM 87111

Owner/Agent:

Designer/Contractor:

Section 2: Exterior Lighting Area/Surface Power Calculation

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (C x D)	F Proposed Watts
Parking area	75000 ft2	0.06	Yes	4500	4370
Walkway >= 10 feet wide	6350 ft2	0.14	Yes	1169	1680
		Total Tradable Watts* =		5669	6050
		Total Allowed Watts =		5669	
		Total Allowed Supplemental Watts** =		600	

* Wattage tradeoffs are only allowed between tradable areas/surfaces.
** A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Section 3: Exterior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamp/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Parking area (75000 ft2): Tradable Wattage				
HID 1: Metal Halide 400W / Pulse start	1	3	400	1200
HID 2: Metal Halide 400W / Pulse start	2	3	800	2400
HID 3: Metal Halide 70W / Pulse start	1	11	70	770
Walkway >= 10 feet wide (6350 ft2): Tradable Wattage				
HID 4: Metal Halide 70W / Pulse start	1	24	70	1680
		Total Tradable Proposed Watts =		6050

Section 4: Requirements Checklist

Lighting Wattage:

- ☐ 1. Within each non-tradable area/surface, total proposed watts must be less than or equal to total allowed watts. Across all tradable areas/surfaces, total proposed watts must be less than or equal to total allowed watts.
Compliance: Passes using supplemental allowance watts.

Controls, Switching, and Wiring:

- ☐ 2. All exemption claims are associated with fixtures that have a control device independent of the control of the nonexempt lighting.
☐ 3. Lighting not designated for dusk-to-dawn operation is controlled by either a photosensor (with time switch), or an astronomical time switch.
☐ 4. Lighting designated for dusk-to-dawn operation is controlled by an astronomical time switch or photosensor.
☐ 5. All time switches are capable of retaining programming and the time setting during loss of power for a period of at least 10 hours.

Project Title: New Mexico One Call
Data filename: C:\active\51100 mcelheney briscoe architecture\51106 one-call\comcheck\51106 NMOC comcheck.cck
Report date: 07/13/10
Page 4 of 5

- Sleeping units, patient care areas; and spaces where automatic shutoff would endanger safety or security.
☐ 10. Photocell/astronomical time switch on exterior lights.
Exceptions:
Lighting intended for 24 hour use.
☐ 11. Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).
Exceptions:
Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.

David A. Exe, P.E.

Signature

July 14, 2010
Date



Project Title: New Mexico One Call
Data filename: C:\active\51100 mcelheney briscoe architecture\51106 one-call\comcheck\51106 NMOC comcheck.cck
Report date: 07/13/10
Page 2 of 5



COMcheck Software Version 3.7.1 Interior Lighting Compliance Certificate

2009 IECC

Section 1: Project Information

Project Type: **New Construction**
Project Title: **New Mexico One Call**

Construction Site:
1021 Eubank Ave NE
Albuquerque, NM 87111

Owner/Agent:

Designer/Contractor:

Section 2: General Information

Building Use Description by: **Activity Type**

Activity Type(s) **Floor Area**
Office **17200**

Section 3: Requirements Checklist

Interior Lighting:

- ☐ 1. Total proposed watts must be less than or equal to total allowed watts.
Allowed Watts **17200** Proposed Watts **15202** Complies **YES**

Controls, Switching, and Wiring:

- ☐ 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.
☐ 3. Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:
Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.
Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

- ☐ 4. Independent controls for each space (switch/occupancy sensor).

Exceptions:
Areas designated as security or emergency areas that must be continuously illuminated.
Lighting in stairways or corridors that are elements of the means of egress.

- ☐ 5. Master switch at entry to hotel/motel guest room.
☐ 6. Individual dwelling units separately metered.
☐ 7. Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.

- ☐ 8. Each space provided with a manual control to provide uniform light reduction by at least 50%.

Exceptions:
Only one luminaire in space;
An occupant-sensing device controls the area;
The area is a corridor, storeroom, restroom, public lobby or sleeping unit.

Areas that use less than 0.8 Watts/sq.ft.

- ☐ 9. Automatic lighting shutoff control in buildings larger than 5,000 sq.ft.

Exceptions:

Project Title: New Mexico One Call
Data filename: C:\active\51100 mcelheney briscoe architecture\51106 one-call\comcheck\51106 NMOC comcheck.cck
Report date: 07/13/10
Page 1 of 5

Exterior Lighting Efficacy:

- ☐ 5. All exterior building grounds luminaires that operate at greater than 100W have minimum efficacy of 60 lumen/watt.
Exceptions:
Controlled by motion sensor or exempt from consideration under the provisions of Section 505.6.2.

Exterior Lighting PASSES: Design 0.0% better than code.

Section 5: Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.7.1 and to comply with the mandatory requirements in the Requirements Checklist.

David A. Exe, P.E.

Signature

July 14, 2010
Date



Project Title: New Mexico One Call
Data filename: C:\active\51100 mcelheney briscoe architecture\51106 one-call\comcheck\51106 NMOC comcheck.cck
Report date: 07/13/10
Page 5 of 5



COMcheck Software Version 3.7.1 Interior Lighting Application Worksheet

2009 IECC

Section 1: Allowed Lighting Power Calculation

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B x C)
Office	17200	1	17200
		Total Allowed Watts =	
		17200	

Section 2: Proposed Lighting Power Calculation

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamp/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Office (17200 sq.ft.)				
Linear Fluorescent 1: 48" T8 32W (Super T8) / Electronic	8	14	250	3500
Linear Fluorescent 2: 24" T8 17W / Electronic	3	88	51	4488
Linear Fluorescent 3: 48" T8 32W (Super T8) / Electronic	2	14	64	696
Linear Fluorescent 5: 48" T8 32W (Super T8) / Electronic	1	23	32	736
Linear Fluorescent 6: 48" T8 32W (Super T8) / Electronic	3	4	96	384
Linear Fluorescent 7: 48" T8 32W (Super T8) / Electronic	2	6	64	384
Linear Fluorescent 8: 48" T8 32W (Super T8) / Electronic	8	1	250	250
Compact Fluorescent 1: Triple 4-pin 32W / Electronic	1	18	32	576
Compact Fluorescent 2: Triple 4-pin 32W / Electronic	2	20	64	1280
Compact Fluorescent 3: Triple 4-pin 20W / Electronic	2	36	53	1908
HID 1: Metal Halide 150W / Pulse start	1	2	160	320
Compact Fluorescent 4: Triple 4-pin 32W / Electronic	2	1	64	64
Compact Fluorescent 5: Triple 4-pin 32W / Electronic	3	1	96	96
Compact Fluorescent 6: Triple 4-pin 32W / Electronic	5	2	160	320
		Total Proposed Watts =		15202

Section 3: Compliance Calculation

If the Total Allowed Watts minus the Total Proposed Watts is greater than or equal to zero, the building complies.

Total Allowed Watts = 17200
Total Proposed Watts = 15202
Project Compliance = 1998

Interior Lighting PASSES: Design 12% better than code.

Project Title: New Mexico One Call
Data filename: C:\active\51100 mcelheney briscoe architecture\51106 one-call\comcheck\51106 NMOC comcheck.cck
Report date: 07/13/10
Page 3 of 5

ELECTRICAL COMCHECK REPORT

REV: July 14, 2010	McELHENEY Architects	2001 CARLSLE BLVD. NE, SUITE B ALBUQUERQUE, NM 87110-4943 V: 505.262.0193 F: 505.881.9114 E: bobmacarch@mac.com
© 2010 McElheney Architects, P.C.		
	New Mexico One Call Inc 1021 Eubank Blvd NE Albuquerque, NM 87111	SHEET NO. E6.01