LEGEND AND ABBREVIATIONS

(NOTE: THIS IS A MASTER SYMBOL LIST AND NOT ALL SYMBOLS INDICATED HAVE BEEN USED ON PLANS)

LIGHTING FIXTURES

	FLUORESCENT CEILING FIXTURE
	FLUORESCENT: OPEN STRIP
	CEILING SURFACE OR RECESSED DOWNLIGHT
	WALL MOUNTED FIXTURE OR SCONCE
	WALL WASHER
	TRACK MOUNTED FIXTURES (TRACK LENGTHS AS INDICATED WITH FITTINGS AND CONNECTORS AS REQUIRED)
	BOLLARD LUMINAIRE
	POLE OR POST MOUNTED CUTOFF LUMINAIRE
	EMERGENCY LIGHTING UNIT: MOUNT AT LOWER OF +96" AFF OR 12" BELOW CEILING
	COMBINATION EMERGENCY LIGHTING UNIT & EXIT LIGHT
, ETC.	EXIT LIGHT: FACES AND ARROWS AS INDICATED ON PLANS
	LOW LEVEL EXIT LIGHT: MOUNT AT BETWEEN +6" & +8" A.F.F. TO BOTTOM OF FIXTURE; & 4" MAX. FROM EDGE OF FIXTURE TO LATCH SIDE OF DOOR OR EXIT WAY OPENING.
	"ON AIR" NOTIFICATION LIGHTED SIGN

RECEPTACLES

	SINGLE: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON
	DUPLEX: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON
	SINGLE: 30A, 250V, NEMA 6-30R, +15" AFF TO BOTTOM UON
	DOUBLE DUPLEX: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON
	HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON (TOP HALF SWITCHED)
GFCI	DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5-20R GFCI, +15" AFF TO BOTTOM UON
	DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20R IG, +15" AFF TO BOTTOM UON (ORANGE DEVICE AND FACEPLATE)
	SPECIAL RECEPTACLE - AS INDICATED ON PLANS, +15" AFF TO BOTTOM UON
	CLOCK HANGER: MOUNTED AT +12" BELOW CEILING TO TOP OF CLOCK, U.O.N.
	120 VOLT 1 PH. DIRECT FLEXIBLE CONNECTION
	208 VOLT 1 PH. OR 3 PH. CONVENIENCE OUTLET (C.O.)
	120/208 VOLT 1 PH. OR 3 PH. CONVENIENCE OUTLET (C.O.)

SIGNAL OUTLETS

	TELEPHONE OUTLET: 1-LINK, CAT6; +15" AFF TO BOTTOM UON
	TEL/DATA OUTLET: 3-LINKS, CAT6; +15" AFF TO BOTTOM UON
	DATA OUTLET: 2-LINKS, CAT6; +15" AFF TO BOTTOM UON
	TELEVISION OUTLET: +15" AFF TO BOTTOM UON
	CAMERA OUTLET
WAP	WIRELESS ACCENT POINT
M	MICROPHONE OUTLET
V	VOLUME CONTROL OUTLET
S	SPEAKER: CEILING MOUNTED UON
CR	CARD READER: +48" AFF UON
DSC	DOOR SECURITY CONTROL : SYSTEM POWERED AND CONTROLLED, UON

SWITCHES

$	SINGLE POLE: 20A, 120V OR 277V, +48" AFF TO TOP UON
$2	DOUBLE POLE: 20A, 120V OR 277V, +48" AFF TO TOP UON
$3	THREE WAY: 20A, 120V OR 277V, +48" AFF TO TOP UON
$4	FOUR WAY: 20A, 120V OR 277V, +48" AFF TO TOP UON
$T	TIMER SWITCH: 20A, 120V OR 277V, +48" AFF TO TOP UON
$P	'P' = PILOT LIGHT SWITCH (LIGHTED WHEN "ON"), +48" AFF TO TOP UON
$K	'K' = KEY OPERATED SWITCH, +48" AFF TO TOP UON
$M	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD: 20A, 120V OR 277V
$MC	MOMENTARY CONTACT: 20A, 120V OR 277V, SPDT CENTER NORMALLY OFF UON, +48" TO TOP UON
$D	DIMMER: 600 WATT UON, ELECTRONIC SLIDER, WITH ON/OFF TOGGLE, +48" TO TOP UON (PLANS SHALL INDICATE TYPE: FLUOR, INCAND OR LOW-VOLTAGE)
LV	LOW VOLTAGE SWITCH - WALL MOUNTED AT +48" TO TOP UON
OS	MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR - WALL MOUNTED AT +48" TO TOP UON
OS	MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR - CEILING MOUNTED
PC	PHOTOCELL ELECTRIC SWITCH: 1600VA UON

MISCELLANEOUS

T	THERMOSTAT: MOUNT AT +48' TO TOP UON (PER MECHANICAL PLANS)
F	EXHAUST FAN: FRACTIONAL HORSEPOWER
1	MOTOR: NUMBER = HORSEPOWER
EPO	EMERGENCY POWER OFF PUSH BUTTON
	GROUND ROD
	GROUND WELL

EQUIPMENT

	SWITCHBOARD
	PANELBOARD - SURFACE MOUNTED
	PANELBOARD - FLUSH MOUNTED
T	TRANSFORMER
R	RELAY
C	CONTACTOR
	MAGNETIC STARTER
	COMBINATION MAGNETIC STARTER/DISCONNECT
N	NON-FUSIBLE DISCONNECT SWITCH
F	FUSIBLE DISCONNECT SWITCH
VFD	VARIABLE FREQUENCY DRIVE
J	JUNCTION BOX - SIZE AS REQUIRED BY NEC
	PLUG MOLD SURFACE RACEWAY AND DEVICES
TP	TELEPOWER POLE
P	POWER POLE

CIRCUITING

	IN WALL OR ABOVE CEILING
	IN FLOOR OR BELOW GRADE
- - P - -	CIRCUITING TYPE: T = TELEPHONE C = CONTROL; S = SECONDARY TV = TELEVISION P = PRIMARY; OH = OVERHEAD SERVICE FO = FIBER OPTIC
	STUB OUT: MARK AND CAP
	CIRCUITING UP
	CIRCUITING DOWN
	TICS = No. OF #12 WIRES IF MORE THAN TWO; // = NUMBER OF PHASE WIRES / = GROUND WIRE; / = NEUTRAL WIRE / = ISOLATED GROUND WIRE
A-1,3,5	HOMERUN = 1/2" C. UON, 4-#12, 1-#12G TO PANEL 'A', CIRCUIT No.s 1,3 AND 5

FIRE ALARM

FACP	FIRE ALARM CONTROL PANEL: SURFACE MOUNTED UON
FATC	FIRE ALARM TERMINAL CABINET: SURFACE MOUNTED UON
FARA	FIRE ALARM REMOTE ANNUNCIATOR: FLUSH MOUNTED UON
F	MANUAL PULL STATION: AT +48" TO TOP UON
FS	FIRE SPRINKLER WATER FLOW SWITCH
TS	FIRE SPRINKLER TAMPER SWITCH
SD	SMOKE DETECTOR: CEILING MOUNTED
HD	HEAT DETECTOR: CEILING MOUNTED
DD	DUCT SMOKE DETECTOR
	HORN: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	CHIME: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	SPEAKER: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
F	STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
F	HORN AND STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	CHIME AND STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	SPEAKER STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
B	BUILDING MOUNTED ALARM BELL PER LOCAL CODE
DH	MAGNETIC DOOR HOLDER: SYSTEM POWERED AND CONTROLLED, UON
FP	FIREFIGHTERS TELEPHONE OUTLET: MOUNTED AT +48" TO TOP UON
FSD	FIRE SMOKE DAMPER

DESIGNATIONS

F1	LIGHTING FIXTURE: F1 = TYPE, 3 = QTY., TYP = TYPICAL TYPES: A = INCANDESCENT; F = FLUORESCENT; H = HIGH INTENSITY DISCHARGE; X = EMERGENCY
1	SHEET NOTE
AC 1	MECHANICAL EQUIPMENT
XXX	FEEDER CIRCUITRY TAG X1 = CONDUIT; X2 = FEEDER; X3 = GROUND
X XX	DETAIL CALLOUT ON PLANS X= DETAIL NUMBER XX= SHEET NUMBER

SINGLE LINE AND SCHEMATICS

_AF _AT _P _AIC	CIRCUIT BREAKER: AF = AMP FRAME; AT = AMP TRIP; P = POLE; AIC = AMPERES INTERRUPTING CAPACITY
_/3 FU	FUSIBLE SWITCH: _/3 = SWITCH SIZE AND POLES; ___ = FUSE SIZE
_AF _AT _P _AIC	DRAWOUT CIRCUIT BREAKER: AF = AMP FRAME; AT = AMP TRIP; P = POLE; AIC = AMPERES INTERRUPTING CAPACITY
_/3 FU	DRAWOUT FUSIBLE SWITCH: _/3 = SWITCH SIZE AND POLES; ___ = FUSE SIZE
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
C	CONTACTOR COIL
R	RELAY COIL
	TRANSFER SWITCH (AUTOMATIC OR MANUAL PER PLANS)
	TRANSFORMER
PANEL	PANEL - SEE PANEL SCHEDULE FOR DETAILS
PANEL	PANEL WITH MAIN BREAKER - SEE PANEL SCHEDULE FOR DETAILS
1	MOTOR STARTER: NUMBER=NEMA STARTER SIZE
	MOTOR OVERLOADS
	CURRENT TRANSFORMERS
M	UTILITY COMPANY METER WITH CURRENT TRANSFORMERS
	INDICATOR LIGHT A=AMBER; G=GREEN; R=RED
GFR	GROUND FAULT RELAY
ST	SHUNT TRIP UNIT
A	AMMETER
V	VOLTMETER
PF	POWER FACTOR METER
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH

METHODS

	SHADING INDICATES: FIXTURE ON EMERGENCY 'X' OR NIGHT LIGHT 'NL' CIRCUIT
a,b a	LETTERS INDICATE FIXTURE CONTROLLED BY SWITCHES 'a' & 'b'.
$$	DEVICES MOUNTED IN A MULTIGANG BOX UNDER COMMON COVER MAXIMUM HEIGHT ON WALL SHALL BE +48" TO TOP UON
	DEVICES MOUNTED IN OR ABOVE BACKSPLASH: MAXIMUM HEIGHT ON WALLS SHALL BE +48" TO TOP UON
	FLUSH FLOOR MOUNTED WIRING DEVICES
	FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI-COMPARTMENT BOX
	RECEPTACLE MOUNTED IN CASEWORK
	RECEPTACLE OR JUNCTION BOX MOUNTED IN CEILING
	FINE DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED

ABBREVIATIONS

A, AMP	AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
A/V	AUDIO/VISUAL
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT: WITH PULLCORD IF OTHERWISE EMPTY
CB, C/B	CIRCUIT BREAKER
CLG	CEILING
CRI	COLOR RENDERING INDEX
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
(E)	EXISTING TO REMAIN
EC	EMPTY CONDUIT
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FLUOR	FLUORESCENT
FU	FUSE; DUAL-ELEMENT, TIME DELAY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
G,GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
INCAND	INCANDESCENT
Kcmil	THOUSAND CIRCULAR MILS (1in. = 1000MILS)
KW	KILOWATT
KVA	KILOVOLT AMPS
LPS	LOW PRESSURE SODIUM
LTG	LIGHTING
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MPOE	MINIMUM POINT OF ENTRY FOR TEL/DATA SERVICES
(N)	NEW
NACB	NON-ADJUSTABLE CIRCUIT BREAKER
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N,NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
PNL	PANEL
PVC	POLYVINL CHLORIDE CONDUIT
(R)	EXISTING TO BE RELOCATED
RGS	RIGID GALVANIZED STEEL
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
TYP	TYPICAL
UG	UNDER GROUND
UNSW	UNSWITCHED
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS
WP	WEATHER PROOF (NEMA 3R)
(X)	EXISTING TO BE REMOVED
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
-	-
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DRAWING SCHEDULE

SHEET	DESCRIPTION	ISSUED FOR 100% DD DATE: 06/04/08	DSA SUBMITTAL DATE: 07/29/08	DSA SUBMITTAL DATE: 07/29/08	DSA SUBMITTAL DATE: 09/18/08	95% CONSTRUCTION DOCUMENTS DATE: 12/05/08	1 ELEC. RM CHANGES PER ARCH DATE: 07/28/09	2 FCD: 014 DATE: 08/05/09	3 FCD: 016 DATE: 09/15/09	4 BULLETIN 4 REVISIONS DATE:	5 RE-ELEC. REVISIONS DATE: 09/11/09	6 FIELD CONDITIONS/LTG CONTROLS REVS DATE: 11/18/09	7 4TH FLR OFFICES REV PER OWNER FCD-020 DATE: 11/20/09	8 FCD-41 ELEC. COORDINATION DATE: 07/27/10	8A FCD-41 PROVIDE ON AIR SIGN DATE: 12/14/09	9 LTGRTNG CONTROLS REVISION DATE: 12/29/09	10 REVISIONS PER OWNER/ARCHITECT DATE: 01/19/10	11 2ND FLR LEARN'G CTR REDESIGN DATE: 03/24/10	12 DSA CO 31 Conformed Set DATE: 03/24/10	13 MDF DATE:	14 3RD FLR FINANCIAL AID REV DATE: 03/24/10 FCD-038	15 V.P. SUITE REDESIGN DATE: 03/24/10 FCD-039-R1	16 4TH FLR CONF RMS 401,431 & 468 DATE: 03/24/10 FCD-040	ELECTRICAL DRAWING OF RECORD DATE: 01/21/2011	ELECTRICAL DRAWING OF RECORD DATE: 11/07/2011
E0.01	LEGEND & ABBREVIATIONS, DRAWING SCHEDULE & EQUIPMENT NAMING LEGEND	●	●	●	●	●		●						●				●						●	●
E0.02	TITLE 24-OUTDOOR LIGHTING COMPLIANCE			●	●	●												●						●	●
E0.02A	TITLE 24-INDOOR LIGHTING COMPLIANCE			●	●	●					●							●						●	●
E0.02B	TITLE 24-INDOOR LIGHTING COMPLIANCE										●							●						●	●
E0.03	LIGHTING FIXTURE SCHEDULE			●	●	●					●							●						●	●
E0.04	FEEDER SCHEDULE	●	●	●	●	●			●									●						●	●
E0.05A	PANEL SCHEDULES			●	●	●												●						●	●
E0.05B	PANEL SCHEDULES			●	●	●												●						●	●
E0.05C	PANEL SCHEDULES			●	●	●												●						●	●
E0.05D	PANEL SCHEDULES AND LIGHTING CONTROL PANEL			●	●	●					●							●						●	●
E2.01	LIGHTING PLAN - LEVEL 1 - NORTH	●	●	●	●	●			●		●	●		●		●		●						●	●
E2.02	LIGHTING PLAN - LEVEL 1 - SOUTH	●	●	●	●	●			●		●	●		●	●	●		●						●	●
E2.03	LIGHTING PLAN - LEVEL 2 - NORTH	●	●	●	●	●					●	●		●		●		●						●	●
E2.04	LIGHTING PLAN - LEVEL 2 - SOUTH	●	●	●	●	●					●	●		●			●	●						●	●
E2.05	LIGHTING PLAN - LEVEL 3 - NORTH	●	●	●	●	●					●	●		●		●		●						●	●
E2.06	LIGHTING PLAN - LEVEL 3 - SOUTH	●	●	●	●	●					●	●		●				●		●				●	●
E2.07	LIGHTING PLAN - LEVEL 4 - NORTH	●	●	●	●	●		●			●	●	●	●		●		●					●	●	●
E2.08	LIGHTING PLAN - LEVEL 4 - SOUTH	●	●	●	●	●		●			●	●	●	●				●				●		●	●
E2.09	LIGHTING PLAN - ROOF - NORTH	●	●	●	●	●												●						●	●
E2.10	LIGHTING PLAN - ROOF - SOUTH	●	●	●	●	●												●						●	●
E3.01	POWER PLAN - LEVEL 1 - NORTH	●	●	●	●	●	●		●	●	●	●						●						●	●
E3.02	POWER PLAN - LEVEL 1 - SOUTH	●	●	●	●	●			●	●		●						●						●	●
E3.03	POWER PLAN - LEVEL 2 - NORTH	●	●	●	●	●						●						●						●	●
E3.04	POWER PLAN - LEVEL 2 - SOUTH	●	●	●	●	●	●					●					●	●		●				●	●
E3.05	POWER PLAN - LEVEL 3 - NORTH	●	●	●	●	●	●					●						●						●	●
E3.06	POWER PLAN - LEVEL 3 - SOUTH	●	●	●	●	●						●						●			●			●	●
E3.07	POWER PLAN - LEVEL 4 - NORTH	●	●	●	●	●		●				●	●				●	●					●	●	●
E3.08	POWER PLAN - LEVEL 4 - SOUTH	●	●	●	●	●		●				●	●					●				●	●	●	●
E3.09	POWER PLAN - ROOF - NORTH	●	●	●	●	●				●								●						●	●
E3.10	POWER PLAN - ROOF - SOUTH	●	●	●	●	●				●								●						●	●
E4.01	SIGNAL PLAN - LEVEL 1 - NORTH	●	●	●	●	●			●			●						●						●	●
E4.02	SIGNAL PLAN - LEVEL 1 - SOUTH	●	●	●	●	●			●			●						●						●	●
E4.03	SIGNAL PLAN - LEVEL 2 - NORTH	●	●	●	●	●						●						●						●	●
E4.04	SIGNAL PLAN - LEVEL 2 - SOUTH	●	●	●	●	●						●					●	●						●	●
E4.05	SIGNAL PLAN - LEVEL 3 - NORTH	●	●	●	●	●						●						●						●	●
E4.06	SIGNAL PLAN - LEVEL 3 - SOUTH	●	●	●	●	●						●						●		●				●	●
E4.07	SIGNAL PLAN - LEVEL 4 - NORTH	●	●	●	●	●		●				●	●				●	●					●	●	●
E4.08	SIGNAL PLAN - LEVEL 4 - SOUTH	●	●	●	●	●		●				●	●					●				●		●	●
E5.01	SINGLE LINE DIAGRAM	●	●	●	●	●												●						●	●
E6.01	ELECTRICAL MISCELLANEOUS DETAILS	●	●	●	●	●												●						●	●
E6.02	ELECTRICAL MISCELLANEOUS DETAILS	●	●	●	●	●												●						●	●
E6.03	ELECTRICAL MISCELLANEOUS DETAILS	●	●	●	●	●												●						●	●
E6.04	ELECTRICAL MISCELLANEOUS DETAILS					●												●						●	●
E6.05	ELECTRICAL MISCELLANEOUS DETAILS					●												●						●	●
E7.01	ENLARGED ELECTRICAL PLANS	●	●	●	●	●												●						●	●
E7.02A	ENLARGED KITCHEN POWER PLAN	●	●	●	●	●												●						●	●
E7.02B	KITCHEN FIXTURE & EQUIPMENT SCHEDULE	●	●	●	●	●												●						●	●
E7.02C	KITCHEN FIXTURE & EQUIPMENT SCHEDULE	●	●	●	●	●												●						●	●
E7.02D	KITCHEN DETAILS	●	●	●	●	●												●						●	●
E8.01	AUDIO/VISUAL PLAN LEVEL 1 - SOUTH																								●
E8.02	AUDIO/VISUAL PLAN LEVEL 2 - EVENT AREA (200B)																								●
E8.03	AUDIO/VISUAL PLAN LEVEL 2 - SOUTH																								●
FA-01	FIRE ALARM COVER SHEET			●	●	●																			
FA-02	MISCELLANEOUS DETAILS			●	●	●																			
FA-03	FIRE ALARM CONTROL PANEL			●	●	●																			
FA-04	NAC EXTENDER PANEL & RCC-1F REMOTE CONTROL CENTER			●	●	●																			
FA-05	NAC EXTENDER PANEL BATTERY & VOLTAGE DROP CALC'S			●	●	●																			
FA-06	TYPICAL WIRING DETAILS OF FIELD DEVICES			●	●	●																			
FA-07	FIRE ALARM RISER DIAGRAM			●	●	●																			
FA-08	FIRE ALARM PLAN FIRST FLOOR - AREA A			●	●	●																			
FA-09	FIRE ALARM PLAN FIRST FLOOR - AREA B			●	●	●																			
FA-10	FIRE ALARM PLAN SECOND FLOOR - AREA A			●	●	●																			
FA-11	FIRE ALARM PLAN SECOND FLOOR - AREA B			●	●	●																			
FA-12	FIRE ALARM PLAN THIRD FLOOR			●	●	●																			
FA-13	FIRE ALARM PLAN FOURTH FLOOR			●	●	●																			
FA-14	FIRE ALARM PLAN ROOF					●																			
SEC.0.00	GENERAL NOTES, SYMBOLS, ABBREVIATION & DRAWING INDEX			●	●	●																			
SEC.1.01	SECURITY SYSTEM RISER BLOCK DIAGRAM			●	●	●																			
SEC.1.02	SECURITY SYSTEM CCTV BLOCK DIAGRAM			●	●	●																			
SEC.2.01	SECURITY SYSTEM DEVICE LAYOUT PLAN 1ST FLR			●	●	●																			
SEC.2.02	SECURITY SYSTEM DEVICE LAYOUT PLAN 2ND FLR			●	●	●																			
SEC.2.03	SECURITY SYSTEM DEVICE LAYOUT PLAN 3RD FLR			●	●	●																			
SEC.2.04	SECURITY SYSTEM DEVICE LAYOUT PLAN 4TH FLR			●	●	●																			
SEC.3.01	SECURITY SYSTEM 1ST FLR POINT-TO-POINT WIRING DIAG-A			●	●	●																			
SEC.3.01B	SECURITY SYSTEM 1ST FLR POINT-TO-POINT WIRING DIAG-B			●	●	●																			
SEC.3.02	SECURITY SYSTEM 2ND FLR POINT-TO-POINT WIRING DIAG.			●	●	●																			
SEC.3.03	SECURITY SYSTEM 3RD FLR POINT-TO-POINT WIRING DIAG.			●	●	●																			
SEC.3.04	SECURITY SYSTEM 4TH FLR POINT-TO-POINT WIRING DIAG.			●	●	●																			
SEC.3.05	SECURITY SYSTEM 1ST FLR ACM & PD16 DISTRIBUTION BOARD			●	●	●																			
SEC.3.06	SECURITY SYSTEM 2ND FLR ACMI & PD16 DISTRIBUTION BOARD			●	●	●																			
SEC.3.07	SECURITY SYSTEM 3RD FLR ACMI & PD16 DISTRIBUTION BOARD			●	●	●																			
SEC.3.08	SECURITY SYSTEM 4TH FLR ACMI & PD16 DISTRIBUTION BOARD			●	●	●																			
SEC.4.00	SECURITY SYSTEM PANEL ELEVATIONS			●	●	●																			
SEC.4.01	SECURITY SYSTEM DOOR DETAILS			●	●	●																			
SEC.5.00	SECURITY SYSTEM MISCELLANEOUS DETAIL SHEET 1			●	●	●																			
SEC.5.01	SECURITY SYSTEM ADA WIRING & REX WIRING DETAIL SHEET 2			●	●	●																			
SEC.5.02	SECURITY SYSTEM ELEVATOR WIRING DIAGRAM-INTERIOR					●																			

EQUIPMENT NAMING LEGEND

U 2 ATS 2 N 1 1 - 1,3,5

- U: UPS POWER
- 2: FLOOR LEVEL
- ATS / BUS / H / L / LCP / MCC / MSB / T / UPS
- 2: RISER CLOSET(COMPASS DIRECTION: E,W,N,S) FLOOR LEVEL
- N: FIRST OF THIS TYPE IN THIS ELECTRICAL RISER.
- 1: PANEL SECTION 1,2,3, OR 4.
- 1,3,5: CIRCUIT NUMBER(S)

ATS	AUTOMATIC TRANSFER SWITCH
BUS	BUSWAY
H	PANELBOARD 277/480V
L	PANELBOARD 120/208V
LCP	LIGHTING CONTROL PANEL
MCC	MOTOR CONTROL CENTER
MSB	MAIN SWITCHBOARD
T	TRANSFORMER
UPS	UNINTERRUPTABLE POWER SUPPLY

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	ADD 4 EXIT SIGN COORDINATION	01/21/10
2	ADD FIRE ALARM SIGN	12/14/09
3	REVISE LIGHTING CONTROLS PER DSA CO 31 CONFORMED SET	03/24/10
4	DSA CO 31 Conformed Set	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
7	4TH FLR CONFERENCE RMS 401 & 431 REVISIONS - FCD 040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	05/09/08
2	95% Construction Documents	07/29/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/05/08
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHT	07/28/09
7	FCD 014	08/05/09
8	FCD 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Legend & Abbreviations
Drawing Schedule
Equipment Naming Legend

E0.01

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E0.01_LEGEND-ABBREV-DRAWING SCHED.dwg - Nov 08, 2011 Tuesday - 9:09am - 30x42-Plt - SFERMIL

LEGEND AND ABBREVIATIONS

(NOTE: THIS IS A MASTER SYMBOL LIST AND NOT ALL SYMBOLS INDICATED HAVE BEEN USED ON PLANS)

LIGHTING FIXTURES

	FLUORESCENT CEILING FIXTURE
	FLUORESCENT: OPEN STRIP
	CEILING SURFACE OR RECESSED DOWNLIGHT
	WALL MOUNTED FIXTURE OR SCONCE
	WALL WASHER
	TRACK MOUNTED FIXTURES (TRACK LENGTHS AS INDICATED WITH FITTINGS AND CONNECTORS AS REQUIRED)
	BOLLARD LUMINAIRE
	POLE OR POST MOUNTED CUTOFF LUMINAIRE
	EMERGENCY LIGHTING UNIT: MOUNT AT LOWER OF +96" AFF OR 12" BELOW CEILING
	COMBINATION EMERGENCY LIGHTING UNIT & EXIT LIGHT
, ETC.	EXIT LIGHT: FACES AND ARROWS AS INDICATED ON PLANS
	LOW LEVEL EXIT LIGHT: MOUNT AT BETWEEN +6" & +8" A.F.F. TO BOTTOM OF FIXTURE; & 4" MAX. FROM EDGE OF FIXTURE TO LATCH SIDE OF DOOR OR EXIT WAY OPENING.
	"ON AIR" NOTIFICATION LIGHTED SIGN

RECEPTACLES

	SINGLE: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON
	DUPLEX: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON
	SINGLE: 30A, 250V, NEMA 6-30R, +15" AFF TO BOTTOM UON
	DOUBLE DUPLEX: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON
	HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5-20R, +15" AFF TO BOTTOM UON (TOP HALF SWITCHED)
GFCI	DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5-20R GFCI, +15" AFF TO BOTTOM UON
	DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20R IG, +15" AFF TO BOTTOM UON (ORANGE DEVICE AND FACEPLATE)
	SPECIAL RECEPTACLE - AS INDICATED ON PLANS, +15" AFF TO BOTTOM UON
	CLOCK HANGER: MOUNTED AT +12" BELOW CEILING TO TOP OF CLOCK, U.O.N.
	120 VOLT 1 PH. DIRECT FLEXIBLE CONNECTION
	208 VOLT 1 PH. OR 3 PH. CONVENIENCE OUTLET (C.O.)
	120/208 VOLT 1 PH. OR 3 PH. CONVENIENCE OUTLET (C.O.)

SIGNAL OUTLETS

	TELEPHONE OUTLET: 1-LINK, CAT6; +15" AFF TO BOTTOM UON
	TEL/DATA OUTLET: 3-LINKS, CAT6; +15" AFF TO BOTTOM UON
	DATA OUTLET: 2-LINKS, CAT6; +15" AFF TO BOTTOM UON
	TELEVISION OUTLET: +15" AFF TO BOTTOM UON
	CAMERA OUTLET
WAP	WIRELESS ACCENT POINT
M	MICROPHONE OUTLET
V	VOLUME CONTROL OUTLET
S	SPEAKER: CEILING MOUNTED UON
CR	CARD READER: +48" AFF UON
DSC	DOOR SECURITY CONTROL : SYSTEM POWERED AND CONTROLLED, UON

SWITCHES

$	SINGLE POLE: 20A, 120V OR 277V, +48" AFF TO TOP UON
$2	DOUBLE POLE: 20A, 120V OR 277V, +48" AFF TO TOP UON
$3	THREE WAY: 20A, 120V OR 277V, +48" AFF TO TOP UON
$4	FOUR WAY: 20A, 120V OR 277V, +48" AFF TO TOP UON
$T	TIMER SWITCH: 20A, 120V OR 277V, +48" AFF TO TOP UON
$P	'P' = PILOT LIGHT SWITCH (LIGHTED WHEN "ON"), +48" AFF TO TOP UON
$K	'K' = KEY OPERATED SWITCH, +48" AFF TO TOP UON
$M	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD: 20A, 120V OR 277V
$MC	MOMENTARY CONTACT: 20A, 120V OR 277V, SPDT CENTER NORMALLY OFF UON, +48" TO TOP UON
$D	DIMMER: 600 WATT UON, ELECTRONIC SLIDER, WITH ON/OFF TOGGLE, +48" TO TOP UON (PLANS SHALL INDICATE TYPE: FLUOR, INCAND OR LOW-VOLTAGE)
LV	LOW VOLTAGE SWITCH - WALL MOUNTED AT +48" TO TOP UON
OS	MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR - WALL MOUNTED AT +48" TO TOP UON
OS	MOTION/OCCUPANCY SENSOR SWITCH WITH OFF-AUTO SELECTOR - CEILING MOUNTED
PC	PHOTOCELL ELECTRIC SWITCH: 1600VA UON

MISCELLANEOUS

T	THERMOSTAT: MOUNT AT +48' TO TOP UON (PER MECHANICAL PLANS)
F	EXHAUST FAN: FRACTIONAL HORSEPOWER
1	MOTOR: NUMBER = HORSEPOWER
EPO	EMERGENCY POWER OFF PUSH BUTTON
	GROUND ROD
	GROUND WELL

EQUIPMENT

	SWITCHBOARD
	PANELBOARD - SURFACE MOUNTED
	PANELBOARD - FLUSH MOUNTED
T	TRANSFORMER
R	RELAY
C	CONTACTOR
	MAGNETIC STARTER
	COMBINATION MAGNETIC STARTER/DISCONNECT
N	NON-FUSIBLE DISCONNECT SWITCH
F	FUSIBLE DISCONNECT SWITCH
VFD	VARIABLE FREQUENCY DRIVE
J	JUNCTION BOX - SIZE AS REQUIRED BY NEC
	PLUG MOLD SURFACE RACEWAY AND DEVICES
TP	TELEPOWER POLE
P	POWER POLE

CIRCUITING

	IN WALL OR ABOVE CEILING
	IN FLOOR OR BELOW GRADE
- - P - -	CIRCUITING TYPE: T = TELEPHONE C = CONTROL; S = SECONDARY TV = TELEVISION P = PRIMARY; OH = OVERHEAD SERVICE FO = FIBER OPTIC
	STUB OUT: MARK AND CAP
	CIRCUITING UP
	CIRCUITING DOWN
	TICS = No. OF #12 WIRES IF MORE THAN TWO; // = NUMBER OF PHASE WIRES; / = GROUND WIRE; / = NEUTRAL WIRE; / = ISOLATED GROUND WIRE
A-1,3,5	HOMERUN = 1/2" C. UON, 4-#12, 1-#12G TO PANEL 'A', CIRCUIT No.s 1,3 AND 5

FIRE ALARM

FACP	FIRE ALARM CONTROL PANEL: SURFACE MOUNTED UON
FATC	FIRE ALARM TERMINAL CABINET: SURFACE MOUNTED UON
FARA	FIRE ALARM REMOTE ANNUNCIATOR: FLUSH MOUNTED UON
F	MANUAL PULL STATION: AT +48" TO TOP UON
FS	FIRE SPRINKLER WATER FLOW SWITCH
TS	FIRE SPRINKLER TAMPER SWITCH
SD	SMOKE DETECTOR: CEILING MOUNTED
HD	HEAT DETECTOR: CEILING MOUNTED
DD	DUCT SMOKE DETECTOR
	HORN: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	CHIME: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	SPEAKER: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
F	STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
F	HORN AND STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	CHIME AND STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
	SPEAKER STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON
B	BUILDING MOUNTED ALARM BELL PER LOCAL CODE
DH	MAGNETIC DOOR HOLDER: SYSTEM POWERED AND CONTROLLED, UON
FP	FIREFIGHTERS TELEPHONE OUTLET: MOUNTED AT +48" TO TOP UON
FSD	FIRE SMOKE DAMPER

DESIGNATIONS

F1	LIGHTING FIXTURE: F1 = TYPE, 3 = QTY., TYP = TYPICAL TYPES: A = INCANDESCENT; F = FLUORESCENT; H = HIGH INTENSITY DISCHARGE; X = EMERGENCY
1	SHEET NOTE
AC 1	MECHANICAL EQUIPMENT
XXX	FEEDER CIRCUITRY TAG: X1 = CONDUIT; X2 = FEEDER; X3 = GROUND
X XX	DETAIL CALLOUT ON PLANS: X= DETAIL NUMBER; XX= SHEET NUMBER

SINGLE LINE AND SCHEMATICS

_AF _AT _P _AIC	CIRCUIT BREAKER: AF = AMP FRAME; AT = AMP TRIP; P = POLE; AIC = AMPERES INTERRUPTING CAPACITY
_/3 FU	FUSIBLE SWITCH: _/3 = SWITCH SIZE AND POLES; ___ = FUSE SIZE
_AF _AT _P _AIC	DRAWOUT CIRCUIT BREAKER: AF = AMP FRAME; AT = AMP TRIP; P = POLE; AIC = AMPERES INTERRUPTING CAPACITY
_/3 FU	DRAWOUT FUSIBLE SWITCH: _/3 = SWITCH SIZE AND POLES; ___ = FUSE SIZE
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
C	CONTACTOR COIL
R	RELAY COIL
	TRANSFER SWITCH (AUTOMATIC OR MANUAL PER PLANS)
	TRANSFORMER
PANEL	PANEL - SEE PANEL SCHEDULE FOR DETAILS
PANEL	PANEL WITH MAIN BREAKER - SEE PANEL SCHEDULE FOR DETAILS
1	MOTOR STARTER: NUMBER=NEMA STARTER SIZE
	MOTOR OVERLOADS
	CURRENT TRANSFORMERS
M	UTILITY COMPANY METER WITH CURRENT TRANSFORMERS
	INDICATOR LIGHT A=AMBER; G=GREEN; R=RED
GFR	GROUND FAULT RELAY
ST	SHUNT TRIP UNIT
A	AMMETER
V	VOLTMETER
PF	POWER FACTOR METER
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH

METHODS

	SHADING INDICATES: FIXTURE ON EMERGENCY 'X' OR NIGHT LIGHT 'NL' CIRCUIT
a,b a	LETTERS INDICATE FIXTURE CONTROLLED BY SWITCHES 'a' & 'b'.
$$$	DEVICES MOUNTED IN A MULTIGANG BOX UNDER COMMON COVER MAXIMUM HEIGHT ON WALL SHALL BE +48" TO TOP UON
	DEVICES MOUNTED IN OR ABOVE BACKSPLASH: MAXIMUM HEIGHT ON WALLS SHALL BE +48" TO TOP UON
	FLUSH FLOOR MOUNTED WIRING DEVICES
	FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI-COMPARTMENT BOX
	RECEPTACLE MOUNTED IN CASEWORK
	RECEPTACLE OR JUNCTION BOX MOUNTED IN CEILING
	FINE DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED

ABBREVIATIONS

A, AMP	AMPERES
AFF	ABOVE FINISHED FLOOR
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
A/V	AUDIO/VISUAL
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT: WITH PULLCORD IF OTHERWISE EMPTY
CB, C/B	CIRCUIT BREAKER
CLG	CEILING
CRI	COLOR RENDERING INDEX
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
(E)	EXISTING TO REMAIN
EC	EMPTY CONDUIT
EM	EMERGENCY
EMT	ELECTRIC METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FLUOR	FLUORESCENT
FU	FUSE; DUAL-ELEMENT, TIME DELAY
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
G,GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
IG	ISOLATED GROUND
INCAND	INCANDESCENT
Kcmil	THOUSAND CIRCULAR MILS (1in. = 1000MILS)
KW	KILOWATT
KVA	KILOVOLT AMPS
LPS	LOW PRESSURE SODIUM
LTG	LIGHTING
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MPOE	MINIMUM POINT OF ENTRY FOR TEL/DATA SERVICES
(N)	NEW
NACB	NON-ADJUSTABLE CIRCUIT BREAKER
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N,NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
PNL	PANEL
PVC	POLYVINL CHLORIDE CONDUIT
(R)	EXISTING TO BE RELOCATED
RGS	RIGID GALVANIZED STEEL
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
TYP	TYPICAL
UG	UNDER GROUND
UNSW	UNSWITCHED
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLTS
WP	WEATHER PROOF (NEMA 3R)
(X)	EXISTING TO BE REMOVED
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-
-	-

DRAWING SCHEDULE

SHEET	DESCRIPTION	ISSUED FOR 100% DD DATE: 06/04/08	50% CONSTRUCT CD DATE: 07/29/08	DSA SUBMITTAL DATE: 09/18/08	95% CONSTRUCTION DOCUMENTS DATE: 12/08/08	DSA FINAL DATE: 03/11/09	1 ELEC. RM CHANGES PER ARCH DATE: 07/28/09	2 FCD: 014 DATE: 08/05/09	3 FCD: 016 DATE: 09/15/09	4 BULLETIN 4 REVISIONS DATE:	5 RE-ELEC. REVISIONS DATE: 10/01/09	6 FIELD CONDITIONS/LTG CONTROLS REVS DATE: 11/18/09	7 4TH FLR OFFICES REV PER OWNER FCD-020 DATE: 11/20/09	8 FCD-41 EXIT SIGN COORDINATION DATE: 07/27/10	8A FCD-41 PROVIDE ON AIR SIGN DATE: 12/14/09	9 LTGRFNG CONTROLS REVISION DATE: 12/29/09	10 REVISIONS PER OWNER/ARCHITECT DATE: 01/19/10	11 2ND FLR LEARN'G CTR REDESIGN FCD-023-R1 DATE: 03/24/10	12 DSA CO 31 Conformed Set DATE: 03/24/10	13 NEW DATE:	14 3RD FLR FINANCIAL AID REV FCD-038 DATE: 03/24/10	15 V.P. SUITE REDESIGN FCD-039-R1 DATE: 03/24/10	16 4TH FLR CONF RMS 401,431 & 468 FCD-040 DATE: 03/24/10	ELECTRICAL DRAWING OF RECORD DATE: 01/21/2011	ELECTRICAL DRAWING OF RECORD DATE: 11/07/2011
E0.01	LEGEND & ABBREVIATIONS, DRAWING SCHEDULE & EQUIPMENT NAMING LEGEND	●	●	●	●	●		●						●					●						●	●
E0.02	TITLE 24-OUTDOOR LIGHTING COMPLIANCE			●	●	●													●						●	●
E0.02A	TITLE 24-INDOOR LIGHTING COMPLIANCE			●	●	●					●								●						●	●
E0.02B	TITLE 24-INDOOR LIGHTING COMPLIANCE										●								●						●	●
E0.03	LIGHTING FIXTURE SCHEDULE			●	●	●					●								●						●	●
E0.04	FEEDER SCHEDULE	●	●	●	●	●													●						●	●
E0.05A	PANEL SCHEDULES			●	●	●						●							●						●	●
E0.05B	PANEL SCHEDULES			●	●	●													●						●	●
E0.05C	PANEL SCHEDULES			●	●	●													●						●	●
E0.05D	PANEL SCHEDULES AND LIGHTING CONTROL PANEL			●	●	●						●							●						●	●
E2.01	LIGHTING PLAN - LEVEL 1 - NORTH	●	●	●	●	●			●		●	●		●		●			●						●	●
E2.02	LIGHTING PLAN - LEVEL 1 - SOUTH	●	●	●	●	●			●		●	●		●	●	●			●						●	●
E2.03	LIGHTING PLAN - LEVEL 2 - NORTH	●	●	●	●	●					●	●		●		●			●						●	●
E2.04	LIGHTING PLAN - LEVEL 2 - SOUTH	●	●	●	●	●					●	●		●				●	●						●	●
E2.05	LIGHTING PLAN - LEVEL 3 - NORTH	●	●	●	●	●					●	●		●		●			●						●	●
E2.06	LIGHTING PLAN - LEVEL 3 - SOUTH	●	●	●	●	●					●	●		●					●		●				●	●
E2.07	LIGHTING PLAN - LEVEL 4 - NORTH	●	●	●	●	●		●			●	●	●	●		●	●		●					●	●	●
E2.08	LIGHTING PLAN - LEVEL 4 - SOUTH	●	●	●	●	●		●			●	●	●	●		●			●				●	●	●	●
E2.09	LIGHTING PLAN - ROOF - NORTH	●	●	●	●	●													●						●	●
E2.10	LIGHTING PLAN - ROOF - SOUTH	●	●	●	●	●													●						●	●
E3.01	POWER PLAN - LEVEL 1 - NORTH	●	●	●	●	●	●		●	●	●	●							●						●	●
E3.02	POWER PLAN - LEVEL 1 - SOUTH	●	●	●	●	●			●	●		●							●						●	●
E3.03	POWER PLAN - LEVEL 2 - NORTH	●	●	●	●	●						●							●						●	●
E3.04	POWER PLAN - LEVEL 2 - SOUTH	●	●	●	●	●	●					●						●	●						●	●
E3.05	POWER PLAN - LEVEL 3 - NORTH	●	●	●	●	●	●					●							●						●	●
E3.06	POWER PLAN - LEVEL 3 - SOUTH	●	●	●	●	●						●							●			●			●	●
E3.07	POWER PLAN - LEVEL 4 - NORTH	●	●	●	●	●		●				●	●				●		●					●	●	●
E3.08	POWER PLAN - LEVEL 4 - SOUTH	●	●	●	●	●		●				●	●						●				●	●	●	●
E3.09	POWER PLAN - ROOF - NORTH	●	●	●	●	●				●									●						●	●
E3.10	POWER PLAN - ROOF - SOUTH	●	●	●	●	●				●									●						●	●
E4.01	SIGNAL PLAN - LEVEL 1 - NORTH	●	●	●	●	●			●			●							●						●	●
E4.02	SIGNAL PLAN - LEVEL 1 - SOUTH	●	●	●	●	●			●			●							●						●	●
E4.03	SIGNAL PLAN - LEVEL 2 - NORTH	●	●	●	●	●						●							●						●	●
E4.04	SIGNAL PLAN - LEVEL 2 - SOUTH	●	●	●	●	●						●						●	●						●	●
E4.05	SIGNAL PLAN - LEVEL 3 - NORTH	●	●	●	●	●						●							●						●	●
E4.06	SIGNAL PLAN - LEVEL 3 - SOUTH	●	●	●	●	●						●							●		●				●	●
E4.07	SIGNAL PLAN - LEVEL 4 - NORTH	●	●	●	●	●		●				●	●				●		●					●	●	●
E4.08	SIGNAL PLAN - LEVEL 4 - SOUTH	●	●	●	●	●		●				●	●						●				●		●	●
E5.01	SINGLE LINE DIAGRAM	●	●	●	●	●													●						●	●
E6.01	ELECTRICAL MISCELLANEOUS DETAILS	●	●	●	●	●													●						●	●
E6.02	ELECTRICAL MISCELLANEOUS DETAILS	●	●	●	●	●													●						●	●
E6.03	ELECTRICAL MISCELLANEOUS DETAILS	●	●	●	●	●													●						●	●
E6.04	ELECTRICAL MISCELLANEOUS DETAILS					●													●						●	●
E6.05	ELECTRICAL MISCELLANEOUS DETAILS					●													●						●	●
E7.01	ENLARGED ELECTRICAL PLANS	●	●	●	●	●													●						●	●
E7.01A	ENLARGED ELECTRICAL DETAILS																								●	●
E7.02A	ENLARGED KITCHEN POWER PLAN	●	●	●	●	●													●						●	●
E7.02B	KITCHEN FIXTURE & EQUIPMENT SCHEDULE	●	●	●	●	●													●						●	●
E7.02C	KITCHEN FIXTURE & EQUIPMENT SCHEDULE	●	●	●	●	●													●						●	●
E7.02D	KITCHEN DETAILS	●	●	●	●	●													●						●	●
FA-01	FIRE ALARM COVER SHEET			●	●	●																				
FA-02	MISCELLANEOUS DETAILS			●	●	●																				
FA-03	FIRE ALARM CONTROL PANEL			●	●	●																				
FA-04	NAC EXTENDER PANEL & RCC-1F REMOTE CONTROL CENTER			●	●	●																				
FA-05	NAC EXTENDER PANEL BATTERY & VOLTAGE DROP CALC'S			●	●	●																				
FA-06	TYPICAL WIRING DETAILS OF FIELD DEVICES			●	●	●																				
FA-07	FIRE ALARM RISER DIAGRAM			●	●	●																				
FA-08	FIRE ALARM PLAN FIRST FLOOR - AREA A			●	●	●																				
FA-09	FIRE ALARM PLAN FIRST FLOOR - AREA B			●	●	●																				
FA-10	FIRE ALARM PLAN SECOND FLOOR - AREA A			●	●	●																				
FA-11	FIRE ALARM PLAN SECOND FLOOR - AREA B			●	●	●																				
FA-12	FIRE ALARM PLAN THIRD FLOOR			●	●	●																				
FA-13	FIRE ALARM PLAN FOURTH FLOOR			●	●	●																				
FA-14	FIRE ALARM PLAN ROOF					●																				
SEC.0.00	GENERAL NOTES, SYMBOLS, ABBREVATION & DRAWING INDEX			●	●	●																				
SEC.1.01	SECURITY SYSTEM RISER BLOCK DIAGRAM			●	●	●																				
SEC.1.02	SECURITY SYSTEM CCTV BLOCK DIAGRAM			●	●	●																				
SEC.2.01	SECURITY SYSTEM DEVICE LAYOUT PLAN 1ST FLR			●	●	●																				
SEC.2.02	SECURITY SYSTEM DEVICE LAYOUT PLAN 2ND FLR			●	●	●																				
SEC.2.03	SECURITY SYSTEM DEVICE LAYOUT PLAN 3RD FLR			●	●	●																				
SEC.2.04	SECURITY SYSTEM DEVICE LAYOUT PLAN 4TH FLR			●	●	●																				
SEC.3.01	SECURITY SYSTEM 1ST FLR POINT-TO-POINT WIRING DIAG-A			●	●	●																				
SEC.3.01B	SECURITY SYSTEM 1ST FLR POINT-TO-POINT WIRING DIAG-B			●	●	●																				
SEC.3.02	SECURITY SYSTEM 2ND FLR POINT-TO-POINT WIRING DIAG.			●	●	●																				
SEC.3.03	SECURITY SYSTEM 3RD FLR POINT-TO-POINT WIRING DIAG.			●	●	●																				
SEC.3.04	SECURITY SYSTEM 4TH FLR POINT-TO-POINT WIRING DIAG.			●	●	●																				
SEC.3.05	SECURITY SYSTEM 1ST FLR ACM & PD16 DISTRIBUTION BOARD			●	●	●																				
SEC.3.06	SECURITY SYSTEM 2ND FLR ACMI & PD16 DISTRIBUTION BOARD			●	●	●																				
SEC.3.07	SECURITY SYSTEM 3RD FLR ACMI & PD16 DISTRIBUTION BOARD			●	●	●																				
SEC.3.08	SECURITY SYSTEM 4TH FLR ACMI & PD16 DISTRIBUTION BOARD			●	●	●																				
SEC.4.00	SECURITY SYSTEM PANEL ELEVATIONS			●	●	●																				
SEC.4.01	SECURITY SYSTEM DOOR DETAILS			●	●	●																				
SEC.5.00	SECURITY SYSTEM MISCELLANEOUS DETAIL SHEET 1			●	●	●																				
SEC.5.01	SECURITY SYSTEM ADA WIRING & REX WIRING DETAIL SHEET 2			●	●	●																				
SEC.5.02	SECURITY SYSTEM ELEVATOR WIRING DIAGRAM-INTERIOR					●																				

EQUIPMENT NAMING LEGEND

U 2 ATS 2 N 1 1 - 1,3,5

- U: FLOOR LEVEL
- 2: UPS POWER
- ATS / BUS / H / L / LCP / MCC / MSB / T / UPS:
  - ATS AUTOMATIC TRANSFER SWITCH
  - BUS BUSWAY
  - H PANELBOARD 277/480V
  - L PANELBOARD 120/208V
  - LCP LIGHTING CONTROL PANEL
  - MCC MOTOR CONTROL CENTER
  - MSB MAIN SWITCHBOARD
  - T TRANSFORMER
  - UPS UNINTERRUPTABLE POWER SUPPLY
- N: FLOOR LEVEL
- 1: RISER CLOSET(COMPASS DIRECTION: E,W,N,S)
- 1: FIRST OF THIS TYPE IN THIS ELECTRICAL RISER.
- 1 - 1,3,5: PANEL SECTION 1,2,3, OR 4. CIRCUIT NUMBER(S)

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

ROSENDIN ELECTRIC
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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	FCD-41 EXIT SIGN COORDINATION	07/27/10
2	FCD-041 PROVIDE ON AIR SIGN	12/14/09
3	REVISE LIGHTING CONTROLS	12/29/09
4	REVISE PER OWNER/ARCHITECT & 4TH FLR OFFICES - FCD 020	03/24/10
5	2ND FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
7	4TH FLR CONFERENCE RMS 401 & 431 REVISIONS - FCD 040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/04/08
2	50% Construction Documents	07/29/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/08/08
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHT	07/28/09
7	FCD 014	08/05/09
8	FCD 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Legend & Abbreviations
Drawing Schedule
Equipment Naming Legend

E0.01

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E0.01_LEGEND-ABBREV-DRAWING SCHED.dwg - Nov 07, 2011 Monday - 2:27pm - 30x42-Plt - SFERMIL

CERTIFICATE OF COMPLIANCE (Part 1 of 2) OLTG-1-C

PROJECT NAME	DATE
COLLEGE OF SAN MATEO - B10N (EXTERIOR)	03-03-10
PROJECT ADDRESS: 1700 WEST HILLSDALE BLVD., SAN MATEO, CA	Building Permit
PRINCIPAL DESIGNER-LIGHTING: TONY HERNANDEZ — TELEPHONE: 408-321-2206	
DOCUMENTATION AUTHOR: Susan Fermil — TELEPHONE: 408-321-2233	Checked by/Date Enforcement Agency Use

GENERAL INFORMATION

DATE OF PLANS 04-09-09	OUTDOOR LIGHTING ZONE (✓ One) ☐ LZ1 ☐ LZ2 ☑ LZ3 ☐ LZ4		
FUNCTION TYPE	☑ OUTDOOR LIGHTING	☐ OUTDOOR SIGNS	☐ INDOOR SIGNS
PHASE OF CONSTRUCTION	☑ NEW CONSTRUCTION	☐ ADDITIONS	☐ ALTERATIONS

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists outdoor lighting system specifications need to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR	SIGNATURE	DATE
SUSAN FERMIL		03-03-10

The Principal Lighting Designer hereby certifies that the proposed outdoor lighting and signs design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet the lighting requirements contained in the applicable parts of Sections 110, 119,130 through 132, 146, and 149 of Title 24, Part 6. **Please ✓ one:**

☐ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

☑ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537,5538 and 6737.1.

(These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

PRINCIPAL LIGHTING DESIGNER-NAME	SIGNATURE	DATE	LIC. #
TONY HERNANDEZ		03-03-10	E015390

INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS (✓ box if worksheet is included)

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission.

☑ OLTG-1-C	Certificate of Compliance. Required on plans for all submittals for outdoor lighting. Part 2 of 2 may be incorporated in schedules on the plans.
	Either LTG-1-C or OLTG-1-C may be used for signs as follows: 1. Use LTG-1-C if the project consists solely of indoor signs 2. Use LTG-1-C if the project consists of indoor lighting, and outdoor or indoor signs, but no other outdoor lighting. 3. Use OLTG-1-C if the project consists solely of outdoor signs 4. Use OLTG-1-C if the project consists of outdoor lighting, and indoor or outdoor signs, but no other indoor lighting
☑ OLTG-2-C	LIGHTING COMPLIANCE SUMMARY. Applicable Parts required for ALL outdoor lighting allowances (Except for Signs)
☑ OLTG-3-C	AREA CALCULATIONS WORKSHEETS. Applicable parts required for all outdoor area calculations.
☐ OLTG-4-C	SIGN LIGHTING COMPLIANCE. Required for all internally and externally illuminated signs, for both indoor and outdoor signs.

CERTIFICATE OF COMPLIANCE (Part 2 of 2) OLTG-1-C

PROJECT NAME
COLLEGE OF SAN MATEO - B10N (EXTERIOR)

Lighting Schedules on Plans Show that Outdoor Lighting Meets Allowed Lighting Power

✓
- ☑ Lighting power allowances for general site illumination on OLTG-2-C Part 1 of 4
- ☐ Not Applicable
- ☐ Lighting power allowances for local ordinances or for security multipliers on OLTG-2-C Part 2 of 4
- ☑ Not Applicable
- ☐ Lighting power allowances for specific applications, other than vehicle service stations with canopies on OLTG-2-C Part 3 of 4
- ☑ Not Applicable
- ☐ Lighting power allowances for vehicle service station canopies on OLTG-2-C Part 4 of 4
- ☑ Not Applicable
- ☐ Sign lighting compliance on OLTG-4-C
- ☑ Not Applicable

Mandatory Measures on Plans Show that Outdoor Lighting Meets Outdoor Lighting Controls and Equipment
Indicate location on plans of Note Block for Mandatory Measure

✓
- ☑ Installed lighting power has been determined in accordance with § 130(c)1
- ☐ Not Applicable
- ☑ All permanently installed luminaires with lamps rated over 100 watts either have a lamp efficacy of at least 60 lumens per watt or are controlled by a motion sensor § 132(a)
- ☐ Not Applicable
- ☑ All Luminaires with lamps rated greater than 175 watts in hardscape areas, including parking lots, building entrances, canopies, and all outdoor sales areas meet the Cutoff Requirements of § 132(b)
- ☐ Not Applicable
- ☑ All permanently installed outdoor lighting meets the Control Requirements of § 132(c)1
- ☐ Not Applicable
- ☑ Building facades, parking lots, garages, canopies, and outdoor sales areas meet the Multi-Level Lighting Requirements of § 132(c)2
- ☐ Not Applicable

MANDATORY AUTOMATIC CONTROLS

CONTROL LOCATION	CONTROL IDENTIFICATION	CONTROL TYPE Auto Time Switch/Photosensor, etc	AREA CONTROLLED	NOTE TO FIELD
SITE LOAD CENTER 3	AUTOMATIC APPLIANCE BASE	AUTOMATIC APPLIAN. BASE THRU LCP TO INTERPHASE WITH BMS @ BLDG 7	EAST OF B10N-WALKSWAYS & PLAZA	
SITE LOAD CENTER 3	AUTOMATIC APPLIANCE BASE	AUTOMATIC APPLIAN. BASE THRU LCP TO INTERPHASE WITH BMS @ BLDG 7	WEST OF B10N-PARKING LOT	
B10N 1ST FLR ELEC RM	AUTOMATIC APPLIANCE BASE	AUTOMATIC APPLIAN. BASE THRU LCP1 TO INTERPHASE WITH BMS @ B10N	WEST & NORTH OF B10N-WALKWAYS	
B10N 1ST FLR ELEC RM	AUTOMATIC APPLIANCE BASE	AUTOMATIC APPLIAN. BASE THRU LCP TO INTERPHASE WITH BMS @ B10N	WEST EAST OF B10N-STUDENT DECKS	
ELEC RM AT B12	AUTOMATIC TIMECLOCK (FOR EXISTING COBRA LTS)	LCP AT B12	NORTH OF B10N-LOADING DOCK DRIVEWAY	

TITLE 24 OUTDOOR LTG. COMPLIANCE NOTES:

1. AUTOMATIC CONTROL DEVICES CERTIFIED:

   ALL AUTOMATIC CONTROL DEVICES SHALL BE CERTIFIED BY THE STATE OF CALIFORNIA AND INSTALLED AS DIRECTED BY THE MANUFACTURER FOR PROPER CONTROL AND OPERATION.

2. CONTROL OF EXTERIOR LIGHTS:

   EXTERIOR MOUNTED FIXTURES ATTACHED TO OR POWERED BY THE ELECTRICAL SERVICE IN BUILDINGS THAT CONTAIN CONDITIONED SPACE SHALL BE CONTROLLED WITH A DIRECTIONAL PHOTOCELL CONTROL ON THE ROOF OR AN ASTRONOMICAL TIME SWITCH AND A CORRESPONDING ELECTRICAL CONTACTOR THAT AUTOMATICALLY TURNS OFF THE EXTERIOR LIGHTING WHEN DAYLIGHT IS AVAILABLE. EXTERIOR LUMINAIRES WITH LAMPS RATED OVER 100 WATTS THAT HAVE A SOURCE EFFICACY OF LESS THAN 60 LUMENS PER WATT SHALL BE CONTROLLED BY A MOTION SENSOR.

   THE ASTRONOMICAL TIME-SWITCH CONTROLS SHALL:
   A. CONTAIN AT LEAST 2 SEPARATELY PROGRAMMABLE CHANNELS PER FUNCTION AREA;
   B. HAVE THE ABILITY TO INDEPENDENTLY OFFSET THE 'ON' AND 'OFF' TIMES FOR EACH CHANNEL BY 0 TO 99 MINUTES BEFORE OR AFTER SUNRISE OR SUNSET;
   C. HAVE A SUNRISE AND SUNSET PREDICTION ACCURACY WITHIN +/-15 MINUTES AND TIMEKEEPING ACCURACY WITHIN 5 MINUTES PER YEAR;
   D. STORE TIME ZONE, LONGITUDE AND LATITUDE IN NON-VOLATILE MEMORY;
   E. DISPLAY DATE/TIME, SUNRISE AND SUNSET;
   F. HAVE AN AUTOMATIC DAYLIGHT SAVINGS TIME ADJUSTMENT;
   G. BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS;
   H. HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED.

3. LUMINAIRE CUTOFF REQUIREMENTS:

   ALL OUTDOOR LUMINAIRES THAT USE LAMPS RATED GREATER THAN 175 WATTS IN HARDSCAPE AREAS INCLUDING PARKING LOTS, BUILDING ENTRANCES, SALES AND NON-SALES CANOPIES, AND ALL OUTDOOR SALES AREAS SHALL BE DESIGNATED 'CUTOFF' FOR LIGHT DISTRIBUTION.

4. CONTROLS FOR OUTDOOR LIGHTING:

   A. ALL PERMANENTLY INSTALLED OUTDOOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCONTROL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE.
   B. FOR LIGHTING OF BUILDING FACADES, PARKING LOTS, GARAGES, SALES AND NON-SALES CANOPIES, AND ALL OUTDOOR SALES AREAS, WHERE TWO OR MORE LUMINAIRES ARE USED, AN AUTOMATIC TIME SWITCH SHALL BE INSTALLED THAT
   (1) TURNS OFF THE LIGHTING WHEN NOT NEEDED, AND,
   (2) REDUCES THE LIGHTING POWER (IN WATTS) BY AT LEAST 50% BUT NOT EXCEEDING 80%, OR PROVIDES CONTINUOUS DIMMING THROUGH A RANGE THAT INCLUDES 50% THROUGH 80% REDUCTION.

LIGHTING COMPLIANCE SUMMARY (Part 1 of 4) OLTG-2-C

PROJECT NAME: COLLEGE OF SAN MATEO SITE – B10N (EXTERIOR) — DATE: 03-03-10

LIGHTING POWER ALLOWANCES – GENERAL SITE ILLUMINATION – (Table 147-A)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	Allotted Watts			Luminaire			Lamps/Ballasts				Installed Watts			
Lighting Applications Category (Table 147-A)	Area (ft²) or Length (LF)	Allotted LPD W/ft² or W/LF	Allotted Watts (B x C)	Code for Luminaire Type	Description	Cutoff Designation	Lamp Type	Number of Lamps per Luminaire	Watts per Lamp	Number of Ballast per Luminaire	Watts per Luminaire	✓ If CEC Default	Number of Luminaires	Installed Watts (L x N)
HARDSCAPE,PEDESTRIAN WALKWAYS & PLAZA-EAST OF B10N	39,578	0.17	6,728	MM2 MM3	POLE MOUNT POLE MOUNT	TYPEII TYPEIII	T15-MH T15-MH	1 1	200 200	1 1	232 232	✓	2 12	464 2,784
HARDSCAPE,PEDESTRIAN WALKWAYS & PLAZA-WEST OF B10N	18,159	0.17	3,087	MM2 M2 M6	POLE MOUNT POLE MOUNT BOLLARD	TYPEII TYPEII TYPE	T15-MH ED17-MH ED17-MH	1 1 1	200 150 100	1 1 1	232 185 185	✓	3 1 4	696 185 740
PARKING LOT,VEHICULAR DRIVEWAY-WEST OF B10N	40,442	0.15	6,066	B2R	POLE MOUNT	TYPEIV	ED 17-MH	2	400	2	904	✓	6	5,424
VEHICULAR DRIVEWAY-LOADING DOCK-NORTH OF B10N	4,123	0.15	619	E1	POLE MOUNT	TYPEIII	MH	1	400	1	904	✓	1	904
STUDENT DECK-B10N-EAST	3,565	0.17	606	F40-A F51	WALL MOUNT WALL MOUNT	CutOff Control TYPEII	32CF 42CF	1 1	32 42	1 1	34 46	✓	33 2	1,122 92
STUDENT DECK-B10N-EAST	2,292	0.17	752	F40-A F51	WALL MOUNT WALL MOUNT	CutOff Control TYPEII	32CF 42CF	1 1	32 42	1 1	34 46	✓	14 2	476 138
		Total Allotted Watts	17,858								Total Installed Watts		13,025	

LIGHTING COMPLIANCE SUMMARY (Part 3 of 4) OLTG-2-C

PROJECT NAME: COLLEGE OF SAN MATEO B10N — DATE: 03-03-10

Lighting Power Allowance for Specific Applications (TABLE 147-B) – Other Than Vehicle Service Station without Canopies

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	Allotted Watts			Luminaire Description			Lamps/Ballasts				Design Watts				
Lighting Application (Table 147-B)	Area (ft²) or Length (LF)	Allotted LPD W/ft² or W/LF	Allotted Watts (B X C)	Code for Luminaire Type	Description	Cutoff Designation	Lamp Type	Number of Lamps per Luminaire	Watts per Lamp	Number of Ballast per Luminaire	Watts per Luminaire	✓ If CEC Default	Number of Luminaires	Design Watts (L x N)	Allowed Watts Minimum of (D or O)
CANOPY-STUDENT DECK-3RD-EAST	1,925	0.5	963	F23	DOWNLIGHTS		42CF	2	42	1	93	✓	5	465	465
CANOPY-STUDENT DECK-3RD-WEST	1,127	0.5	564	F23 F40-A F51	DOWNLIGHTS WALL MOUNT WALL MOUNT	CUTOFF CUTOFF CUTOFF	42CF 32CF 42CF	2 1 1	42 32 42	1 1 1	93 34 46	✓	5 6 1	635	564
CANOPY-STUDENT DINING-2ND-SOUTHWEST	1,834	0.5	917	F14A-8	2'X8' RECESSED CLNG		FP54	2	54	1	121	✓	8	968	917
CANOPY-LOADINGDOCK 1ST-NORTH	659	1.45	956	F41	RECESSED CANLIGHTS		MH	1	70	1	70	✓	3	210	210
LOADINGDOCK-SERVICE AREA - 1ST-NORTH	565	1.45	819	F44	WALL MOUNT	CUTOFF	MH	1	70	1	70	✓	2	140	140
STUDENT DINING--SOUTH	5,908	0.35	2,068	F40-B M6 F51	WALL MOUNT BOLLARD WALL MOUNT	CUTOFF CUTOFF CUTOFF	32CF MH 42CF	1 1 1	32 100 42	1 1 1	34 185 46		22 8 1	2,274	2,068

ILLUMINATED AREA CALCULATION WORKSHEET (Part 1 of 5) OLTG-3-C

PROJECT NAME: COLLEGE OF SAN MATEO SITE-B10N — DATE: 03-03-10

Hardscape - Method (i)

A. Hardscape for automotive vehicular use, including parking lots, driveways and site roads

A	B	C	D	E	F	G	H
		Areas (ft²) to Subtract from within Illuminated Area					
List Specific Application (Table 147-A)	Actual Paved Area plus 5' perimeter of adjacent unpaved land. Includes planters and landscaped areas less than 10' wide that are enclosed by hardscape on at least 3 sides	Areas between poles or luminaires that are greater than 6 mounting height distance (If Applicable)	Overlapping Areas of Another Application or Luminaire	Building Areas	Areas Obstructed By Sign or Other Structure	Sub Total of areas to Subtract (C +D + E + F)	Illuminated Area (B – G)
PARKING LOT,VEHICULAR DRIVEWAY-WEST OF B10N	**40,442**	0	0	0	0	0	**40,442**
VEHICULAR DRIVEWAY-LOADING DOCK-NORTH OF B10N	**4,123**	0	0	0	0	0	**4,123**

B. Hardscape for pedestrian use, including plazas, sidewalks, walkways and bikeways

A	B	C	D	E	F	G	H
		Areas (ft²) to Subtract from within Illuminated Area					
List Specific Application (Table 147-A)	Actual Paved Area plus 5' of unpaved land on either side of path of travel. Shall include all contiguous paved area before including adjacent grounds.	Areas between poles or luminaires that are greater than 6 mounting height distance (If Applicable)	Overlapping Areas of Another Application or Luminaire	Building Areas	Areas Obstructed By Sign or Other Structure	Sub Total of areas to Subtract (C +D + E + F)	Illuminated Area (B – G)
HARDSCAPE PEDESTRIAN WALKWAYS							
HARDSCAPE,PEDESTRIAN WALKWAYS & PLAZA-EAST OF B10N	**43,815**	1,190+1,247=4,237	0	0	0	4,237	**39,579**
HARDSCAPE,PEDESTRIAN WALKWAYS & PLAZA-WEST OF B10N	**18,159**	0	0	0	0	0	

Checklist
☐ § 147(c)1 B – Each portion of all illuminated areas has been assigned only one lighting application, and the applications are consistent with the actual use of the areas.
☐ § 147(c)1 A - General illumination areas includes only those illuminated areas that are in the bounds of the Application and are within a square pattern around a luminaire that is six times the luminaire mounting height, with the luminaire in the middle of the pattern, less any areas that are within buildings, under canopies, beyond property lines, or

McCARTHY — LPA — KH

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 | 397-5151
F 415 | 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
AC ____ FLS ____ SS ____
DATE ____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER — ERNESTO ANTONIO HERNANDEZ — E015390 — EXP.6/30/11 — ELECTRICAL — STATE OF CALIFORNIA

BUILDING QUALITY — BUILDING VALUE — BUILDING PEOPLE
ROSENDIN ELECTRIC
www.rosendin.com
CORPORATE HEADQUARTERS
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San Jose, CA 95133
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Arizona California Nevada New Mexico Oregon

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
8	FCD 41 EXIT SIGN COORDINATION	07/27/10
8A	PROVIDE ON AIR SIGN - FCD 041	12/14/09
11	2ND FLR LEARNING CENTER & STORE-FRONT WINDOW WALL AT 4T FLR OFFICE - FCD 023	03/24/10
12	DSA CO 01 Conformed Set	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
5	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
6	4TH FLR CONFERENCE RMS 401 & 431 REVISIONS - FCD 040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
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	50% Construction Documents	07/29/08
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	95% Construction Documents	12/08/08
	DSA Final	03/11/09
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2	FCD 014	08/05/09
3	FCD 016	09/15/09
7	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

TITLE 24-OUTDOOR LIGHTING

E0.02

CERTIFICATE OF COMPLIANCE (Part 1 of 4) LTG-1-C

PROJECT NAME	DATE
COLLEGE OF SAN MATEO BLDG. 10N	09-28-09
PROJECT ADDRESS: SAN MATEO, CA	Building Permit
PRINCIPAL DESIGNER-LIGHTING: ROSENDIN ELECTRIC — TELEPHONE 408-286-2800	Checked by/Date Enforcement Agency Use
DOCUMENTATION AUTHOR: SUSAN FERMIL — TELEPHONE 408-321-2200	

GENERAL INFORMATION

DATE OF PLANS	12-08-08	BUILDING CONDITIONED FLOOR AREA	147,664 sq. ft.	CLIMATE ZONE	3
BUILDING TYPE	☑ NONRESIDENTIAL	☐ HIGH RISE RESIDENTIAL		☐ HOTEL/MOTEL GUEST	
☑ CONDITIONED SPACES	☐ UNCONDITIONED SPACES	☐ INDOOR / OUTDOOR SIGNS			
PHASE OF CONSTRUCTION	☑ NEW	☐ ADDITION	☐ ALTERATION		

METHOD OF COMPLIANCE

☐ PERFORMANCE ☐ COMPLETE BUILDING ☑ AREA CATEGORY ☐ TAILORED ☐ COMMON LIGHTING

STATEMENT OF COMPLIANCE

This Certificate of Compliance lists the building features and performance specifications need to comply with Title 24, Parts 1 and 6 of the California Code of Regulations. This certificate applies only to building lighting requirements.

The documentation preparer hereby certifies that the documentation is accurate and complete.

DOCUMENTATION AUTHOR	SIGNATURE	DATE
SUSAN FERMIL		

The Principal Lighting Designer hereby certifies that the proposed building design represented in this set of construction documents is consistent with the other compliance forms and worksheets, with the specifications, and with any other calculations submitted with this permit application. The proposed building has been designed to meet lighting requirements contained in applicable parts of Sections 110, 119,130–132, 146, 148, & 149 of Title 24, Part 6.

☐ The plans & specifications meet the requirements of Part 6 (Sections 10-103a). ☐ The installation certificates meet the requirements of Part 6 (10-103a 3).

☐ The operation & maintenance information meet the requirements of Part 6 (10-103c).
Please check one: (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.)

☐ I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electrical engineer, or I am a licensed architect.

☐ I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6737.3 to sign this document as the person responsible for its preparation; and that I am a licensed contractor performing this work.

☐ I affirm that I am eligible under Division 3 of the Business and Professions Code to sign this document because it pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537, 5538 and 6737.1.

PRINCIPAL LIGHTING DESIGNER-NAME	SIGNATURE	DATE	LIC #
ERNESTO HERNANDEZ			E-015390

LIGHTING MANDATORY MEASURES

✓ ☑ Indicate location on plans of Note Block for Mandatory Measure E0.02A

LIGHTING COMPLAINCE FORMS & WORKSHEETS (check box if worksheet is included)

☑ LTG-1-C, Parts 1 of 4 and 2 of 4	Certificate of Compliance. Part 1 of 4 and 2 of 4 are required for all submittals
☐ LTG-1-C, Part 3 of 4	Certificate of Compliance. Part 3 of 4 submittal is required only if Control Credits are claimed
☑ LTG-1-C, Part 4 of 4	Certificate of Compliance. Part 4 of 4 submittal is required when lighting controls are installed
☑ LTG-2-C	Indoor Lighting Schedule
☑ LTG-3-C	Portable Lighting Worksheet
☑ LTG-4-C	Lighting Controls Credit Worksheet
☑ LTG-5-C	Indoor Lighting Power Allowance
☐ LTG-6-C	Tailored Method Worksheet
☐ LTG-7-C	Room Cavity Ratio Worksheet
☐ LTG-8-C	Common Lighting Systems Method Worksheet
☐ LTG-9-C	Line Voltage Track Lighting Worksheet
☐ OLTG-4-C	Signs (See OLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter)

CERTIFICATE OF COMPLIANCE (Part 2 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

INSTALLED INDOOR LIGHTING POWER FOR CONDITIONED AND UNCONDITIONED SPACES

	INSTALLED WATTS
INSTALLED LIGHTING, CONDITIONED SPACES (From LTG-2-C)	129,609
PORTABLE LIGHTING (From LTG-3-C)	+ 5,292
LIGHITNG CONTROL CREDIT, CONDITIONED SPACES (From LTG-4-C)	- 10,919
CONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	= **123,982**
INSTALLED LIGHTING, UNCONDITIONED SPACES (From LTG-2-C)	
LIGHITNG CONTROL CREDIT, UNCONDITIONED SPACES (From LTG-4-C)	-
UNCONDITIONED SPACE ADJUSTED INSTALLED LIGHTING POWER	=

ALLOWED INDOOR LIGHTING POWER FOR CONDITIONED SPACES

✓

☐ COMPLETE BUILDING METHOD (from LTG-5-C)

☑ AREA CATEGORY METHOD (from LTG-5-C)

☐ TAILORED METHOD (from LTG-5-C)

ALLOWED LIGHTING POWER — ALLOWED WATTS **158,735**

ALTERNATE COMPLIANCE

✓

☐ PERFORMANCE METHOD

☐ COMMON LIGHTING SYSTEM (from LTG-8-C)

ALLOWED INDOOR LIGHTING POWER FOR UNCONDITIONED SPACES (From LTG-5-C) ____ Watts

MANDATORY LIGHTING MEASURES FOR INDOOR LIGHTING AND DAYLIT AREAS

MANDATORY INDOOR AND DAYLIGHTING AUTOMATIC CONTROLS

CONTROL LOCATION (Room #, Area #, or Description)	CONTROL IDENTIFICATION	CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.)	SPACE CONTROLLED Lists the location of controlled lights	✓ If Control is for Daylighting	NOTE TO FIELD
1st Flr Electrical Room	LCP1	CONTROL PANEL	CORRIDORS, LOBBY, BOOKSTORE		
2nd Flr Electrical Room	LCP2	CONTROL PANEL	CORRIDORS, LOBBY, BOOKSTORE, SERVERY, DINING		
3rd Flr Electrical Room	LCP3	CONTROL PANEL	CORRIDORS, LOBBY		
4rd Flr Electrical Room	LCP4	CONTROL PANEL	CORRIDORS, LOBBY		
	OS	OCCUPANCY SENSOR	ALL OTHER AREAS		

CERTIFICATE OF COMPLIANCE (Part 4 of 4) LTG-1-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

Designer:

This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The NJ number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:

Systems Acceptance. Before an occupancy permit is granted for a newly constructed building or space, or a new space-conditioning system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition a Certificate of Acceptance, MECH-1-A, Forms shall be submitted to the building department that:

A. Certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of §10-103(b) and Title 24 Part 6.

Test Description	Test Performed By:
✓ ☑ LTG-2-A: Lighting Control Acceptance Document • Occupancy Sensor Acceptance • Manual Daylight Controls Acceptance • Automatic Time Switch Control Acceptance Equipment requiring acceptance testing____	
✓ ☐ LTG-3-A: Automatic Daylighting Controls Acceptance Document Equipment requiring acceptance testing ____	

INDOOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

A Name	B Type Description	C Lamp Type	D Number of Lamps per Luminaire	E Watts Per Lamp	F Number of Ballast per Luminaire	G Watts per Luminaire	H ✓ If CEC Default	I Number of Luminaires	J Installed Watts (H x J)
F1	SEE FIXTURE SCHEDULE	T8	3	32	2	83	✓	442	36,686
F1S	SEE FIXTURE SCHEDULE	T8	3	32	2	83	✓	20	1,660
F2	SEE FIXTURE SCHEDULE	T8	2	32	2	56	✓	140	7840
F2MS	SEE FIXTURE SCHEDULE	T8	2	32	2	96	✓	2	192
F3A	SEE FIXTURE SCHEDULE	T5HO	2	24	2	84	✓	42	3,528
F4	SEE FIXTURE SCHEDULE	T8	2	32	1	55	✓	2	110
F5	SEE FIXTURE SCHEDULE	T5HO	2	54	2	121	✓	9	1,089
F5AS	SEE FIXTURE SCHEDULE	T5HO	2	24	1	55	✓	1	55
F6	SEE FIXTURE SCHEDULE	T8	3	32	2	91	✓	15	1,365
F7	SEE FIXTURE SCHEDULE	T8	2	32	2	53	✓	3	159
F7S	SEE FIXTURE SCHEDULE	T8	2	32	2	53	✓	2	106
F7SMS	SEE FIXTURE SCHEDULE	T8	2	32	2	106	✓	1	106
F8-4'	SEE FIXTURE SCHEDULE	T8	2	32	2	53	✓	43	2,279
F8-8'	SEE FIXTURE SCHEDULE	T8	2	32	2	106	✓	2	212
F9-4'	SEE FIXTURE SCHEDULE	T8	2	32	2	55	✓	47	2,585
F10-4'	SEE FIXTURE SCHEDULE	T8	2	32	2	55	✓	11	605
F11-4'	SEE FIXTURE SCHEDULE	T5HO	2	54	2	121	✓	3	363
F11-8'	SEE FIXTURE SCHEDULE	T5HO	4	54	2	242	✓	5	1,210
F11-16'	SEE FIXTURE SCHEDULE	T5HO	8	54	2	484	✓	2	968
F11-24'	SEE FIXTURE SCHEDULE	T5HO	12	54	2	726	✓	5	3,630
F11-28'	SEE FIXTURE SCHEDULE	T5HO	14	54	2	847	✓	1	847

PAGE TOTAL	65,595
BUILDING TOTAL (sum of all pages)	+ 129,609
PORTABLE LIGHTING (From LTG-3-C)	+ 5,292
CONTROL CREDIT (from LTG-4-C)	- 10,919
ADJUSTED ACTUAL WATTS	= 123,982

INDOOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

(CONTINUATION-2)

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

A Name	B Type Description	C Lamp Type	D Number of Lamps per Luminaire	E Watts Per Lamp	F Number of Ballast per Luminaire	G Watts per Luminaire	H ✓ If CEC Default	I Number of Luminaires	J Installed Watts (H x J)
F11A-4'	SEE FIXTURE SCHEDULE	T5HO	2	54	1	121	✓	1	121
F11A-8'	SEE FIXTURE SCHEDULE	T5HO	4	54	1	242	✓	1	242
F11A-16'	SEE FIXTURE SCHEDULE	T5HO	8	54	1	484	✓	2	968
F11B-4'	SEE FIXTURE SCHEDULE	T5HO	1	54	1	61	✓	1	61
F11B-8'	SEE FIXTURE SCHEDULE	T5HO	2	54	1	122	✓	4	488
F11B-24'	SEE FIXTURE SCHEDULE	T5HO	6	54	1	244	✓	9	2,196
F12	SEE FIXTURE SCHEDULE	T5HO	1	54	1	61	✓	57	3,477
F14-8'	SEE FIXTURE SCHEDULE	T5HO	2	54	1	121	✓	52	6,292
F14B-12'	SEE FIXTURE SCHEDULE	T5HO	3	54	1	183	✓	2	366
F14B-16'	SEE FIXTURE SCHEDULE	T5HO	4	54	1	244	✓	1	244
F14B-17'	SEE FIXTURE SCHEDULE	T5HO	3 1 1	54 39 24	1	245	✓	1	246
F14C-4'	SEE FIXTURE SCHEDULE	T5HO	1	54	1	61	✓	4	244
F14C- 8'	SEE FIXTURE SCHEDULE	T5HO	2	54	1	244	✓	3	732
F14C-12'	SEE FIXTURE SCHEDULE	T5HO	3	54	1	183	✓	1	183
F14C-16'	SEE FIXTURE SCHEDULE	T5HO	4	54	1	244	✓	1	244
F14D	SEE FIXTURE SCHEDULE	T5HO	2	54	1	121	✓	27	3,267
F15-20'	SEE FIXTURE SCHEDULE	T5HO	5	54	1	305	✓	8	2,440
F16-4'	SEE FIXTURE SCHEDULE	T5HO	1	54	1	61	✓	4	244
F16-8'	SEE FIXTURE SCHEDULE	T5HO	2	54	1	121	✓	75	9,075
F17-16'	SEE FIXTURE SCHEDULE	T5HO	4	54	1	244	✓	6	1,464
F18-8'	SEE FIXTURE SCHEDULE	T5HO	2	54	1	121	✓	7	1,217

PAGE TOTAL	33,811
BUILDING TOTAL (sum of all pages)	+ 129,609
PORTABLE LIGHTING (From LTG-3-C)	+ 5,292
CONTROL CREDIT (from LTG-4-C)	- 10,919
ADJUSTED ACTUAL WATTS	= 123,982

INDOOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

(CONTINUATION-3)

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

A Name	B Type Description	C Lamp Type	D Number of Lamps per Luminaire	E Watts Per Lamp	F Number of Ballast per Luminaire	G Watts per Luminaire	H ✓ If CEC Default	I Number of Luminaires	J Installed Watts (H x J)
F18-16'	SEE FIXTURE SCHEDULE	T5HO	4	54	1	244	✓	6	1,961
F19-4'	SEE FIXTURE SCHEDULE	T8	2	32	1	55	✓	13	715
F19-8'	SEE FIXTURE SCHEDULE	T8	4	32	1	108	✓	10	1,080
F20	SEE FIXTURE SCHEDULE	CF42T	1	42	1	42	✓	135	5,670
F20D	SEE FIXTURE SCHEDULE	CF42T	2	42	1	84	✓	18	1,512
F21	SEE FIXTURE SCHEDULE	CF32T	1	32	1	32	✓	48	1,536
F22	SEE FIXTURE SCHEDULE	CF26T	1	26	1	26	✓	49	1,274
F24	SEE FIXTURE SCHEDULE	CF26T	1	26	1	26	✓	32	832
F25	SEE FIXTURE SCHEDULE	CF26T	1	26	1	26	✓	50	1,300
F25A	SEE FIXTURE SCHEDULE	CF26T	1	26	1	26	✓	22	572
F25B	SEE FIXTURE SCHEDULE	CF26T	1	26	1	26	✓	6	52
F26	SEE FIXTURE SCHEDULE	CF26T	1	32		32	✓	4	128
F27-6'	SEE FIXTURE SCHEDULE	12V-MR16	3	50		270	✓	12	3,240
F27A-6'	SEE FIXTURE SCHEDULE	12V-MR16	3	50		270	✓	5	1,350
F28-6'	SEE FIXTURE SCHEDULE	12V-MR16	3	50		270	✓	1	270
F28-12'	SEE FIXTURE SCHEDULE	12V-M516	3	50		540	✓	1	540
F29-6'	SEE FIXTURE SCHEDULE	12V-MR16	3	50		270	✓	5	1,350
F30A	SEE FIXTURE SCHEDULE	CFL32	4	32	1	128	✓	13	1,664
F31	SEE FIXTURE SCHEDULE	MH	1	70	1	70	✓	30	2,100
F32	SEE FIXTURE SCHEDULE	CF42	1	42	1	42	✓	9	378
F33	SEE FIXTURE SCHEDULE	CF42	1	42	1	42	✓	8	336

PAGE TOTAL	27,860
BUILDING TOTAL (sum of all pages)	+ 129,609
PORTABLE LIGHTING (From LTG-3-C)	+ 5,292
CONTROL CREDIT (from LTG-4-C)	- 10,919
ADJUSTED ACTUAL WATTS	= 123,982

INDOOR LIGHTING SCHEDULE (Part 1 of 2) LTG-2-C

(CONTINUATION-4)

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

A Name	B Type Description	C Lamp Type	D Number of Lamps per Luminaire	E Watts Per Lamp	F Number of Ballast per Luminaire	G Watts per Luminaire	H ✓ If CEC Default	I Number of Luminaires	J Installed Watts (H x J)
F34	SEE FIXTURE SCHEDULE	CF42T	1	42	1	48	✓	22	1056
F45-8'	SEE FIXTURE SCHEDULE	T5HO	2	54	1	108	✓	1	108
F45-11'	SEE FIXTURE SCHEDULE	T5HO	2 1	54 39	1	255	✓	1	255
F45-13.5'	SEE FIXTURE SCHEDULE	T5HO	2 2	54 39	1	186	✓	1	186
F45-15'	SEE FIXTURE SCHEDULE	T5HO	3 1	54 39	1	201	✓	1	201
F45-19'	SEE FIXTURE SCHEDULE	T5HO	4 1	54 39	1	256	✓	1	256
F46-4'	SEE FIXTURE SCHEDULE	T8	2	32	1	64	✓	4	256
F47	SEE FIXTURE SCHEDULE	T8	1	25	1	25	✓	1	25

PAGE TOTAL	2,343
BUILDING TOTAL (sum of all pages)	+ 129,609
PORTABLE LIGHTING (From LTG-3-C)	+ 5,292
CONTROL CREDIT (from LTG-4-C)	- 10,919
ADJUSTED ACTUAL WATTS	= 123,982

PORTABLE LIGHTING WORKSHEET LTG-3-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

TABLE 1 – PORTABLE LIGHTING NOT SHOWN ON PLANS
FOR OFFICE AREA > 250 SQUARE FEET

A ROOM # OR ZONE ID	B DEFAULT	C AREA (ft²)	D TOTAL WATTS (B X C)
	0.2		
	0.2		
	0.2		
	0.2		
	0.2		
	0.2		
	TOTAL		

TABLE 2 – PORTABLE LIGHTING SHOWN ON PLANS
FOR OFFICE AREA > 250 SQUARE FEET

A ROOM # OR ZONE ID	B PORTABLE LIGHTING DESCRIPTION(S) PER TASK AREA	C LUMINAIRE(S) WATTS PER TASK AREA	D TASK AREA (ft²)	E NUMBER OF TASK AREAS	F TOTAL AREA (ft²) (D X E)	G TOTAL WATTS (C X E)
1st Floor	FIXT.TYPE"F48": 36"-21WT5 FLUOR., RAPID START	21W PER TASK AREA	16 ft² 18 ft²	7 36	112 ft² 648 ft²	147 w 756 w
2nd Floor	FIXT.TYPE"F48": 36"-21WT5 FLUOR., RAPID START	21W PER TASK AREA	16 ft² 18 ft²	1 6	16 ft² 108 ft²	21 w 126 w
3rd Floor	FIXT.TYPE"F48": 36"-21WT5 FLUOR., RAPID START	21W PER TASK AREA	16 ft² 18 ft² 24 ft²	26 56 5	416 ft² 1008 ft² 120 ft²	546 w 1176 w 105 w
4th Floor	FIXT.TYPE"F48": 36"-21WT5 FLUOR., RAPID START	21W PER TASK AREA	16 ft² 18 ft² 24 ft²	10 103 2	160 ft² 1854 ft² 48 ft²	210 w 2163 w 42 w
				TOTAL	4,490 ft²	5,292 w

TABLE 3 – PLANS SHOW PORTABLE LIGHTING IS NOT REQUIRED
FOR OFFICE AREAS > 250 SQUARE FEET

ROOM # OR ZONE ID	TOTAL AREA (ft²)	Designer needs to provide detailed documentation that the lighting level provided by the overhead lighting meets the needs of the space. The details include luminaire types and mounting locations relative to work areas.
TOTAL AREA		

BUILDING SUMMARY

BUILDING SUMMARY	TOTAL AREA (ft²)	TOTAL WATTS
BUILDING TOTAL (SUM OF TABLES 1, 2 ,3)	4,490 SQ.FT.	5,292 WATTS

Enter in LTG-2-C: Portable Lighting

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

A ROOM #, ZONE ID CONDITIONED AREAS	B LIGHTING CONTROL DESCRIPTION	C PLAN REFEFERENCE	D ROOM AREA (ft²)	E WINDOW WALL RATIO (DAYLIGHTING)	F GLAZING VLT (DAYLIGHTING)	G SKYLIGHT EFFECTIVE APERTURE[1] (DAYLIGHTING)	H WATTS OF CONTROL LIGHTING	I LIGHTING ADJUSTMENT FACTOR[2]	J CONTROL CREDIT WATTS (H X I)
LOAD DOCK (100E)	OS	E2.01	469				576 W	0.2	115.2
MAIN ELEC RM (102)	OS	E2.01	450				704 W	0.2	140.8
MECH RM (104)	OS	E2.01	123				128 W	0.2	25.6
EOPS STUDY (110)	OS	E2.01	1169				1952 W	0.2	190.4
BREAKROOM (110A)	OS	E2.01	110				83 W	0.2	16.6
DIR. OFF. (110B)	OS	E2.01	170				166 W	0.2	33.2
COUNSELOR (110C)	OS	E2.01	102				83 W	0.2	16.6
COUNSELOR (110D)	OS	E2.01	102				83 W	0.2	16.6
COUNSELOR (110E)	OS	E2.01	88				83 W	0.2	16.6
ELEV MACH RM (111)	OS	E2.01	78				55 W	0.2	11.0
M. CULT. CTR. (112)	OS	E2.01	346				224 W	0.2	44.8
CAL WORKS OFF (112A)	OS	E2.01	115				83 W	0.2	16.6
M. CULT. COUNS. (112B)	OS	E2.01	115				83 W	0.2	16.6
M. CULT. COUNS. (112C)	OS	E2.01	115				83 W	0.2	16.6
M. CULT. COUNS. (112D)	OS	E2.01	115				83 W	0.2	16.6
BOOKSTORE (113)	OS	E2.01	2442				3050 W	0.2	610 .0
BOOKSTORE STOCK(113A)	OS	E2.01	312				220 W	0.2	44.0
BOOKSTORE STORAGE(113B)	OS	E2.01	324				330 W	0.2	66.0
TESTING (120A)	OS	E2.01	56				56 W	0.2	11.2
TESTING (120B)	OS	E2.01	56				56 W	0.2	11.2
TESTING (120C)	OS	E2.01	56				56 W	0.2	11.2
TESTING (120D)	OS	E2.01	56				56 W	0.2	11.2
TRANSFER COLL (120E)	OS	E2.01	124				83 W	0.2	16.6
CASE MGR (120F)	OS	E2.01	125				83 W	0.2	16.6
AT SPEC OFF(120G)	OS	E2.01	112				83W	0.2	16.6

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 1,508.4 WATTS
BUILDING TOTAL → 10,919 WATTS

Enter in LTG-2-C: Lighting Control Credit

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES (CONTINUATION-2)

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

A ROOM #, ZONE ID CONDITIONED AREAS	B LIGHTING CONTROL DESCRIPTION	C PLAN REFEFERENCE	D ROOM AREA (ft²)	E WINDOW WALL RATIO (DAYLIGHTING)	F GLAZING VLT (DAYLIGHTING)	G SKYLIGHT EFFECTIVE APERTURE[1] (DAYLIGHTING)	H WATTS OF CONTROL LIGHTING	I LIGHTING ADJUSTMENT FACTOR[2]	J CONTROL CREDIT WATTS (H X I)
AT EQ. WORK (120H)	OS	E2.01	115				83	0.2	16.6
DIR OFF (120K)	OS	E2.01	146				112	0.2	22.4
LD SPEC OFF (120L)	OS	E2.01	130				83	0.2	16.6
LD SPEC OFF (120M))	OS	E2.01	122				83	0.2	16.6
D/R COUNS OFF(120N)	OS	E2.01	132				83	0.2	16.6
D/R COUNS OFF(120P)	OS	E2.01	121				83	0.2	16.6
FACULTY REST RM (154A)	OS	E2.01	62				42	0.2	8.4
FACULTY REST RM (154B)	OS	E2.01	62				42	0.2	8.4
JAN (154C)	OS	E2.01	66				55	0.2	11.0
ELEV MACH RM(154D)	OS	E2.01	102				55	0.2	11.0
WOMEN'S (155)	OS	E2.01	418				331	0.2	66.2
MEN'S(482)	OS	E2.01	358				383	0.2	76.6
IDF RM (157A)	OS	E2.01	189				220	0.2	25.6
OPEN OFF (158)	OS	E2.01	584				913	0.2	211.2
STOR (159)	OS	E2.02	341				280	0.2	56.0
PRE PROJECT'N (160)	OS	E2.02	1037				913	0.2	182.6
CLASSRM/LAB (161)	OS	E2.02	966				664	0.2	132.8
LAB ASST (161A)	OS	E2.02	106				166	0.2	33.2
SHOW-GO LAB (163)	OS	E2.02	1116				830	0.2	16.6
RECORD BOOTH-A (164A)	DIM	E2.02	92				270	0.2	54.0
RECORD CONTL RM (164B)	DIM	E2.02	220				540	0.2	108.0
STUDIO A (164)	DIM	E2.02	762				756	0.25	189.0
STUDIO C (173)	DIM	E2.02	132				540	0.1	54.0
STUDIO D (175)	DIM	E2.02	135				540	0.1	54.0

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 3,186.8 WATTS
BUILDING TOTAL → 10,919 WATTS

Enter in LTG-2-C: Lighting Control Credit

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES (CONTINUATION-3)

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N DATE: 09-28-09

A ROOM #, ZONE ID CONDITIONED AREAS	B LIGHTING CONTROL DESCRIPTION	C PLAN REFEFERENCE	D ROOM AREA (ft²)	E WINDOW WALL RATIO (DAYLIGHTING)	F GLAZING VLT (DAYLIGHTING)	G SKYLIGHT EFFECTIVE APERTURE[1] (DAYLIGHTING)	H WATTS OF CONTROL LIGHTING	I LIGHTING ADJUSTMENT FACTOR[2]	J CONTROL CREDIT WATTS (H X I)
STUDIO E (177)	DIM	E2.02	133				540	0.2	54.0
MIDI/STUDIO B (170)	DIM	E2.02	338				1080	0.2	108.0
RECORD BOOTH (174)	DIM	E2.02	139				540	0.2	54.0
FACILITY MAINT ST (176)	OS	E2.02	196				110	0.2	22.0
JAN DRY STO. (178)	OS	E2.02	84				110	0.2	22.0
JOURNALISM (180)	OS	E2.02	672				415	0.2	83.0
OFFICE (180A)	OS	E2.02	114				83	0.2	16.6
EDITOR AREA (180B)	OS	E2.02	133				112	0.2	22.4
CLASSROOM (192)	OS	E2.02	908				664	0.2	132.8
CLASSROOM (191)	OS	E2.02	800				664	0.2	132.8
CLASSROOM (193)	OS	E2.02	1779				996	0.2	199.2
CLASSROOM (194)	OS	E2.02	1754				996	0.2	199.2
CLASSROOM (195)	OS	E2.02	2409				1250	0.2	250.0
EVENT EQUIP (200E)	OS	E2.03	125				110	0.2	22.0
FACILITIES STO (200D)	OS	E2.03	129				165	0.2	33.0
CURRENCY (202A)	OS	E2.03	82				83	0.2	16.6
MANAGER'S OFF (202B)	OS	E2.03	111				112	0.2	22.4
OFFICE (202C)	OS	E2.03	2911				498	0.2	99.6
WORKROOM (202D)	OS	E2.03	327				332	0.2	66.4
STORAGE (203A)	OS	E2.03	88				56	0.2	11.2
CONVENIENCE STORE(204A)	OS	E2.03	136				112	0.2	22.4
JAN (205A)	OS	E2.03	103				55	0.2	11.0
DRY STO (205B)	OS	E2.03	162				220	0.2	44.0
LOCK. STO (205C)	OS	E2.03	140				110	0.2	22.0

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 1,666.6 WATTS
BUILDING TOTAL → 10,919 WATTS

Enter in LTG-2-C: Lighting Control Credit

LIGHTING MANDATORY MEASURES

1. "BUILDING LIGHTING SHUTOFF"
THE PROJECT USES CONTROL PANELS FOR CONTROL OF CORRIDORS, LOBBIES, OPEN OFFICES, AND SERVERY AREAS. THE PROJECT USES OCCUPANCY SENSORS TO CONTROL ALL OTHER AREAS.

2. "OVERRIDE FOR BUILDING LIGHTING SHUTOFF"
AREAS CONTROLLED BY LIGHTING CONTROL PANELS SHALL HAVE SWITCHES THAT WILL OVERIDE THE BUILDING LIGHTING AUTOMATIC SHUT OFF.

3. "AUTOMATIC CONTROL DEVICES CERTIFIED"
ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.

4. "FLUORESCENT BALLAST AND LUMINARIES CERTIFIED"
ALL FLUORESCENT FIXTURES SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.

5. "TANDEM WIRING FOR TWO–LAMP BALLAST'S"
ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH (2)–LAMP BALLAST WHERE REQUIRED BY STANDARDS #132".

6. INDIVIDUAL ROOM AREA CONTROLS"
EACH ROOM AND AREA IN THIS PROJECT IS EQUIPPED WITH OCCUPANCY SENSOR DEVICES AND/OR WALL SWITCH CONTROLS FOR EACH AREA WITH FLOOR–TO–CEILING WALLS

7. "UNIFORM REDUCTION FOR INDIVIDUAL ROOM"
ROOMS OVER 100 SQ.FT. WITH LIGHTING LOADS OVER .8 WATTS PER SQ.FT. AND HAS ONE OR MORE LUMINAIRES SHALL HAVE BI–LEVEL SWITCHING. CORRIDORS ARE EXEMPT OF THIS REQUIREMENT.

8. "DAYLIT AREA CONTROL"
ROOMS GREATER THAN 250 SQ. FT. WITH WINDOWS HAVE SEPARATE SWITCHING OF HALF THE LAMPS WITHIN 15 FEET FROM THE WINDOWS.

9. "CONTROL OF EXTERIOR LIGHTS"
EXTERIOR LIGHTING SHALL BE CONTROLLED BY A PHOTOCELL AND/OR TIMECLOCK.

McCARTHY
LPA KH

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 | 397-5151
F 415 | 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL. #: 01–110095
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DATE ____
FILE NUMBER: 41–C1

REGISTERED PROFESSIONAL ENGINEER — ERNESTO ANTONIO HERNANDEZ — E015390 — EXP.6/30/11 — ELECTRICAL — STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
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www.rosendin.com
CORPORATE HEADQUARTERS
880 Mabury Road
San Jose, CA 95133
(408) 286-2800
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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
8	FCD 41 EXIT SIGN COORDINATION	07/27/10
8A	PROVIDE ON AIR SIGN - FCD 041	12/14/09
11	2ND FLR LEARNING CENTER & STORE-FRONT WINDOW WALL AT 4T FLR OFFICE - FCD 023	03/24/10
2	DSA CO 01 Conformed Set	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
5	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
6	4TH FLR CONFERENCE RMS 401 & 431 REVISIONS - FCD 040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	06/09/08
	50% Construction Documents	07/29/08
	DSA Submittal	09/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHT	07/28/09
2	FCD 014	08/05/09
3	FCD 016	09/15/09
7	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

TITLE 24-INDOOR LIGHTING

E0.02A

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES **(CONTINUATION-4)**

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N — DATE: 09-28-09

A	B	C	D	E	F	G	H	I	J
				DAYLIGHTING					
ROOM & ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
MANAGER'S OFF (206D)	OS	E2.03	95				55	0.2	11.0
DISH ROOM (206E)	OS	E2.03	265				249	0.2	49.8
EMPLOYEE CHANGING(206F)	OS	E2.03	51				55	0.2	11.0
EMPLOYEE CHANGING(206G)	OS	E2.03	54				55	0.2	11.0
EMPLOYEE REST RM (206H)	OS	E2.03	56				55	0.2	11.0
KITCHEN (206J)	OS	E2.03	983				581	0.2	116.2
HALLWAY (206KA)	OS	E2.03	338				55	0.2	11.0
JAN (206A)	OS	E2.03	153				110	0.2	22.0
VENDI/RECY'CL (206)	OS	E2.03	233				55	0.2	11.0
WOMEN'S (210)	OS	E2.03	411				331	0.2	66.2
MEN'S (212)	OS	E2.03	657				383	0.2	76.6
IDF (214A)	OS	E2.03	167				128	0.2	25.6
COORD. RM (205A)	OS	E2.04	124				83	0.2	16.6
WORKROOM (205B)	OS	E2.04	153				249	0.2	49.8
BREAKROOM (205C)	OS	E2.04	135				166	0.2	33.2
STUDY (220D)	OS	E2.04	135				166	0.2	33.2
STUDY (220E)	OS	E2.04	273				332	0.2	66.4
STUDY (220F)	OS	E2.04	256				332	0.2	66.4
STUDY (220G)	OS	E2.04	249				249	0.2	49.8
STUDY (220H)	OS	E2.04	219				249	0.2	49.8
STUDY (220J)	OS	E2.04	276				249	0.2	49.8
STOR (220K)	OS	E2.04	40				55	0.2	11.0
STUDY (220L)	OS	E2.04	219				420	0.2	84.0
STUDY (220M)	OS	E2.04	156				252	0.2	50.4

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 962.8 WATTS
BUILDING TOTAL → 10,912 WATTS

Enter in LTG-2-C: Lighting Control Credit

2005 Nonresidential Compliance Forms *September*
2005

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES **(CONTINUATION-5)**

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N — DATE: 09-28-09

A	B	C	D	E	F	G	H	I	J
				DAYLIGHTING					
ROOM & ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
STUDY (220N)	OS	E2.04	237				420	0.2	84.0
STUDY (220P)	OS	E2.04	332				249	0.2	49.8
STUDY (220R)	OS	E2.04	342				249	0.2	49.8
INTERN.STUDEN SERVICES (310)	OS	E2.05	267				224	0.2	44.8
INTERN. DIR OFF (310A)	OS	E2.05	126				83	0.2	16.6
INTERN COUNS. OFF (310B)	OS	E2.05	107				83	0.2	16.6
DIV ASSIT (320)	OS	E2.05	187				166	0.2	33.2
STOR (320A)	OS	E2.05	82				83	0.2	16.6
DEAN S OFF (320B)	OS	E2.05	132				166	0.2	33.2
DRY STOR (321)	OS	E2.05	130				110	0.2	22.0
HSR OUTREACH (320P)	OS	E2.05	130				112	0.2	22.4
SUPPLY STOR (330)	OS	E2.05	158				168	0.2	33.6
COUNSELOR OFF (340A)	OS	E2.05	116				83	0.2	16.6
COUNSELOR OFF (340B)	OS	E2.05	116				83	0.2	16.6
COUNSELOR OFF (340C)	OS	E2.05	121				83	0.2	16.6
COUNSELOR OFF (340D)	OS	E2.05	121				83	0.2	16.6
COUNSELOR OFF (340G)	OS	E2.05	127				83	0.2	16.6
COUNSELOR OFF (340H)	OS	E2.05	127				83	0.2	16.6
COUNSELOR OFF (340J)	OS	E2.05	125				83	0.2	16.6
COUNSELOR OFF (340K)	OS	E2.05	127				83	0.2	16.6
COUNSELOR OFF (340L)	OS	E2.05	125				83	0.2	16.6
COUNSELOR OFF (340M)	OS	E2.05	125				83	0.2	16.6
COUNSELOR OFF (340N)	OS	E2.05	127				83	0.2	16.6
COUNSELOR OFF (340P)	OS	E2.05	127				83	0.2	16.6

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 401.6 WATTS
BUILDING TOTAL → 10,910 WATTS

Enter in LTG-2-C: Lighting Control Credit

2005 Nonresidential Compliance Forms *September*
2005

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES **(CONTINUATION-6)**

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N — DATE: 09-28-09

A	B	C	D	E	F	G	H	I	J
				DAYLIGHTING					
ROOM & ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
COUNSELOR OFF (340Q)	OS	E2.05	133				83	0.2	16.6
HSR REL.COORD (340R)	OS	E2.05	109				83	0.2	16.6
COUNSELOR OFF (340S)	OS	E2.05	107				83	0.2	16.6
COUNSELOR OFF (340T)	OS	E2.05	109				83	0.2	16.6
COUNSELOR OFF (340U)	OS	E2.05	111				83	0.2	16.6
COUNSELOR STO (340M)	OS	E2.05	149				110	0.2	22.0
FACULTY OFF (351)	OS	E2.05	107				83	0.2	16.6
FACULTY OFF (352)	OS	E2.05	107				83	0.2	16.6
FACULTY OFF (353)	OS	E2.05	107				83	0.2	16.6
FACULTY OFF (354)	OS	E2.05	107				83	0.2	16.6
ELEC RM (356)	OS	E2.05	183				220	0.2	44.0
IDF (350A)	OS	E2.05	254				330	0.2	66.0
JAN (355A)	OS	E2.05	84				55	0.2	11.0
MEN'S (355)	OS	E2.05	363				331	0.2	66.2
WOMEN'S (357)	OS	E2.05	410				383	0.2	76.6
MEETING RM (358A)	OS	E2.05	161				168	0.2	33.6
REST ROOM (358B)	OS	E2.05	65				52	0.2	10.4
REST ROOM (358C)	OS	E2.05	65				52	0.2	10.4
FA TECH OFF (360A)	OS	E2.06	114				83	0.2	16.6
FA TECH OFF (360B)	OS	E2.06	116				83	0.2	16.6
FA DIR OFF (360C)	OS	E2.06	156				83	0.2	16.6
FA TECH OFF (360D)	OS	E2.06	117				83	0.2	16.6
A/R DEAN OFF (360E)	OS	E2.06	155				166	0.2	33.2
FA TECH COUNS (360F)	OS	E2.06	115				83	0.2	16.6

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 605.8 WATTS
BUILDING TOTAL → 10,910 WATTS

Enter in LTG-2-C: Lighting Control Credit

2005 Nonresidential Compliance Forms *September*
2005

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES **(CONTINUATION-7)**

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N — DATE: 09-28-09

A	B	C	D	E	F	G	H	I	J
				DAYLIGHTING					
ROOM & ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
S.S. FILE STOR (360G)	OS	E2.06	684				392	0.2	78.4
FA TECH OFF (360H)	OS	E2.06	118				83	0.2	16.6
BS CURRENCY (360J)	OS	E2.06	108				83	0.2	16.6
WORKROOM (360K)	OS	E2.06	109				83	0.2	16.6
BS ACCT OFF (360L)	OS	E2.06	107				83	0.2	16.6
BS PAYROLL (360M)	OS	E2.06	109				83	0.2	16.6
LEAD CASH (360N)	OS	E2.06	102				83	0.2	16.6
ACCT REG. (360P)	OS	E2.06	119				83	0.2	16.6
SEC A/R (360R)	OS	E2.06	99				83	0.2	16.6
A/R COORD OFF (360Q)	OS	E2.06	118				83	0.2	16.6
A/R ASST (360T)	OS	E2.06	112				83	0.2	16.6
WORKROOM (362)	OS	E2.06	226				168	0.2	33.6
TESTING ASSIT (370)	OS	E2.06	642				498	0.2	99.6
FACULTY OFF (370A)	OS	E2.06	110				83	0.2	16.6
DEAN ADMIN OFF (380A)	OS	E2.06	217				166	0.2	33.2
COORD (380)	OS	E2.06	226				249	0.2	49.8
FACILITIES (381)	OS	E2.06	119				112	0.2	22.4
Meeting (390)	OS	E2.06	271				224	0.2	44.8
FACULTY (391)	OS	E2.06	114				83	0.2	16.6
SCHOOL SERV (392)	OS	E2.06	394				280	0.2	56.0
COORD (392A)	OS	E2.06	121				83	0.2	16.6
MEETING (393)	OS	E2.06	240				112	0.2	22.4
MEETING (400)	OS	E2.07	466				909	0.2	181.8
MEETING (401)	OS	E2.07	541				1229	0.2	245.8

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 1,063.0 WATTS
BUILDING TOTAL → 10,910 WATTS

Enter in LTG-2-C: Lighting Control Credit

2005 Nonresidential Compliance Forms *September*
2005

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES **(CONTINUATION-8)**

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N — DATE: 09-28-09

A	B	C	D	E	F	G	H	I	J
				DAYLIGHTING					
ROOM & ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
FACULTY OFF (402)	OS	E2.07	165				112	0.2	22.4
FACULTY OFF (404)	OS	E2.07	123				83	0.2	16.6
FACULTY OFF (406)	OS	E2.07	123				83	0.2	16.6
FACULTY OFF (409)	OS	E2.07	122				83	0.2	16.6
FACULTY OFF (410)	OS	E2.07	125				83	0.2	16.6
GREN OFF (411)	OS	E2.07	454				332	0.2	66.4
OFFICE (411A)	OS	E2.07	150				166	0.2	33.2
FACULTY OFF (412)	OS	E2.07	125				83	0.2	16.6
OPEN OFF (413)	OS	E2.07	487				332	0.2	66.4
DIV DEAN (413A)	OS	E2.07	172				166	0.2	33.2
FACULTY OFF (414)	OS	E2.07	123				83	0.2	16.6
FACULTY OFF (416)	OS	E2.07	123				83	0.2	16.6
FACULTY OFF (418)	OS	E2.07	127				83	0.2	16.6
FACULTY OFF (420)	OS	E2.07	164				112	0.2	22.4
MEETING (421)	OS	E2.07	274				166	0.2	33.2
FACULTY OFF (423)	OS	E2.07	165				83	0.2	16.6
FACULTY OFF (434)	OS	E2.07	123				83	0.2	16.6
FACULTY OFF (436)	OS	E2.07	123				83	0.2	16.6
FACULTY OFF (438)	OS	E2.07	120				83	0.2	16.6
FACULTY OFF (440)	OS	E2.07	118				83	0.2	16.6
FACULTY OFF (442)	OS	E2.07	125				83	0.2	16.6
FACULTY OFF (444)	OS	E2.07	123				83	0.2	16.6
FACULTY OFF (446)	OS	E2.07	123				83	0.2	16.6
FACULTY OFF (448)	OS	E2.07	127				83	0.2	16.6
FACULTY OFF (450)	OS	E2.07	164				112	0.2	22.4

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 561.6 WATTS
BUILDING TOTAL → 12,760.2 WATTS

Enter in LTG-2-C: Lighting Control Credit

2005 Nonresidential Compliance Forms *September*
2005

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES **(CONTINUATION-9)**

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N — DATE: 09-28-09

A	B	C	D	E	F	G	H	I	J
				DAYLIGHTING					
ROOM & ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
FACULTY OFF (435)	OS	E2.07	233				168	0.2	33.6
FACULTY OFF (437)	OS	E2.07	184				168	0.2	33.6
FACULTY OFF (439)	OS	E2.07	123				112	0.2	22.4
FACULTY OFF (441)	OS	E2.07	169				112	0.2	22.4
FACULTY OFF (443)	OS	E2.07	169				112	0.2	22.4
FACULTY OFF (445)	OS	E2.07	169				112	0.2	22.4
FACULTY OFF (447)	OS	E2.07	169				112	0.2	22.4
FACULTY OFF (449)	OS	E2.07	169				112	0.2	22.4
FACULTY OFF (451)	OS	E2.07	124				83	0.2	16.6
FACULTY OFF (452)	OS	E2.07	113				83	0.2	16.6
FACULTY OFF (453)	OS	E2.07	113				83	0.2	16.6
FACULTY OFF (454)	OS	E2.07	113				83	0.2	16.6
FACULTY OFF (455)	OS	E2.07	116				83	0.2	16.6
WET/DRY STO (455A)	OS	E2.07	156				165	0.2	33.0
REST ROOM (455B)	OS	E2.07	68				52	0.2	10.4
REST ROOM (455C)	OS	E2.07	68				52	0.2	10.4
WOMEN'S (456)	OS	E2.07	416				331	0.2	66.2
MEN'S (457)	OS	E2.07	349				383	0.2	76.6
ELEC ROOM (458A)	OS	E2.07	161				165	0.2	33.0
IDF (458B)	OS	E2.07	270				330	0.2	66.0
VENDING (456)	OS	E2.07	153				55	0.2	11.0
FACULTY OFF (460)	OS	E2.08	250				166	0.2	33.2
PRM OFF (462)	OS	E2.08	1104				581	0.2	116.2

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 763.0 WATTS
BUILDING TOTAL → 10,910 WATTS

Enter in LTG-2-C: Lighting Control Credit

2005 Nonresidential Compliance Forms *September*
2005

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES **(CONTINUATION-10)**

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N — DATE: 09-28-09

A	B	C	D	E	F	G	H	I	J
				DAYLIGHTING					
ROOM & ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
COPY ROOM (462A)	OS	E2.08	80				83	0.2	16.6
DIR OFF (462B)	OS	E2.08	187				166	0.2	33.2
BREAK ROOM (463)	OS	E2.08	610				415	0.2	83
WORKROOM (463V)	OS	E2.08	464				249	0.2	49.8
FACULTY OFF (466)	OS	E2.08	165				166	0.2	33.2
FACULTY OFF (467)	OS	E2.08	169				166	0.2	33.2
FACULTY OFF (469)	OS	E2.08	169				166	0.2	33.2
FACULTY OFF (470)	OS	E2.08	169				166	0.2	33.2
FACULTY OFF (472)	OS	E2.08	171				166	0.2	33.2
FACULTY OFF (475)	OS	E2.08	214				168	0.2	33.6
FACULTY OFF (477)	OS	E2.08	199				168	0.2	33.6
FACULTY OFF (479)	OS	E2.08	193				168	0.2	33.6
FACULTY OFF (461)	OS	E2.08	154				112	0.2	22.4
FACULTY OFF (463)	OS	E2.08	154				112	0.2	22.4
FACULTY OFF (465)	OS	E2.08	200				168	0.2	33.6
FACULTY OFF (467)	OS	E2.08	200				168	0.2	33.6
FACULTY OFF (469)	OS	E2.08	114				83	0.2	16.6
FACULTY OFF (492)	OS	E2.08	269				249	0.2	49.8
ADMIN ASST (472)	OS	E2.08	234				230	0.2	46.0
VPSS OFF (472A)	OS	E2.08	236				166	0.2	33.2
MEETING RM (474)	OS	E2.08	231				168	0.2	33.6
VPI OFF (478C)	OS	E2.08	242				166	0.2	33.2
OPEN OFF (478F)	OS	E2.08	703				392	0.2	78.4
ADMIN ASST (478D)	OS	E2.08	104				83	0.2	16.6
ADMIN ASST (478E)	OS	E2.08	102				83	0.2	16.6

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 693.4 WATTS
BUILDING TOTAL → 10,910 WATTS

Enter in LTG-2-C: Lighting Control Credit

2005 Nonresidential Compliance Forms *September*
2005

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) LTG-4-C

CONTROL CREDITS FOR CONDITIONED SPACES **(CONTINUATION-11)**

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N — DATE: 09-28-09

A	B	C	D	E	F	G	H	I	J
				DAYLIGHTING					
ROOM & ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFEFERENCE	ROOM AREA (ft^2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE[1]	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR[2]	CONTROL CREDIT WATTS (H X I)
ADMIN ASTT (478F)	OS	E2.06	109				83	0.2	16.6
WAITING (478A)	OS	E2.06	69				58	0.2	11.2
ADMIN ASST (478B)	OS	E2.06	103				112	0.2	22.4
STORAGE (482B)	OS	E2.06	64				58	0.2	11.2
COFFEE BAR (482A)	OS	E2.06	212				224	0.2	44.8
REST RM (482C)	OS	E2.06	84				52	0.2	10.4
PRES OFF COORD (482B)	OS	E2.06	123				112	0.2	22.4
PRES OFF (490)	OS	E2.06	468				266	0.2	53.2
PRES OFF (490A)	OS	E2.06	590				256	0.2	51.2
MEETING RM (488)	OS	E2.06	1383				2166	0.2	433.2

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL → 676.8 WATTS
BUILDING TOTAL → 10,910 WATTS

Enter in LTG-2-C: Lighting Control Credit

2005 Nonresidential Compliance Forms *September*
2005

INDOOR LIGHTING POWER ALLOWANCE LTG-5-C

PROJECT NAME: COLLEGE OF SAN MATEO BLDG. 10N — DATE: 09-28-09

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD.. CONDITIONED SPACES

BUILDING CATEGORY (From § 146 Table 146-B)	WATTS PER (ft^2)	COMPLETE BLDG. AREA	ALLOWED WATTS

AREA CATEGORY METHOD – CONDITIONED SPACES

A AREA CATEGORY (From § 146 Table 146-C)	B WATTS PER (ft^2)	C AREA (ft^2)	D ALLOWED WATTS
CLASSROOMS, LECTURE, TRAINING, VOCATIONAL ROOMS	1.2	29,482	35,379
CONVENTION, CONFERENCE, MULTIPURPOSE AND MEETING ROOMS	1.4	2,829	3,961
CORRIOR, RESTROOMS, STAIRS, SUPPORT AREAS	0.8	39,101	33,498.6
DINING	1.1	10,679	11,747
ELECTRICAL AND MECHANICAL ROOMS	0.7	2,253	1,577
KITCHEN, FOOD PREPARATION	1.6	5,438	8,701
LOUNGE, WAITING AREA	1.1	10,140	11,154
OFFICES	1.2	34,443	41,331.6
RETAIL MERCHANDISE	1.7	8,678	14,752.6
THEATERS, PERFORMANCE	1.4	2,065	2,891
MAIN ENTRY LOBBY	1.5	2,496	3,744
		147,564	155,735
TOTALS		AREA	WATTS

TAILORED METHOD– CONDITIONED SPACES

TOTAL ALLOWED WATTS (From LTG-6-C)

UNCONDITIONED SPACES

A Complete Building and Area Category Methods CATEGORY (From § 146 Table 146-B & C)	B WATTS PER (ft^2)	C AREA (ft^2)	D ALLOWED WATTS
TOTALS		AREA	WATTS

TAILORED METHOD– UNCONDITIONED SPACES

TOTAL **UNCONDITIONED SPACES** ALLOWED WATTS (From LTG-5-C and LTG-6-C)

2005 Nonresidential Compliance Forms *September*
2005

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
AC ____ FLS ____ SS ____
DATE ____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP:6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
ROSENDIN ELECTRIC
www.rosendin.com
CORPORATE HEADQUARTERS
880 Mabury Road
San Jose, CA 95133
(408) 286-2800
Arizona California Nevada New Mexico Oregon

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	FCO-11 EDIT SIGN COORDINATION	01/12/10
2	NEW REF. PLAN AND SIGN	FCO 121 12/14/09
3	REVISE LIGHING CONTROL & ADD LIGHTING CONTROL AT FCR OFFICE	FCO 120 03/24/10
4	REVISE CONTROL Sheet	03/24/10
5	ADD FLR FINANCIAL AID CHANGES	FCO 128 03/24/10
6	4TH FLR V.P. SUITES CHANGES	FCO 129 03/24/10
7	4TH FLR CONFERENCE RMS #1 & #11 REVISIONS - FCO 130	03/24/10
8	ELECTRICAL - DRAWING OF RECORD	01/21/11
9	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	05/09/08
2	50% Construction Documents	07/28/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/08/08
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHT	07/28/09
7	FCO 014	08/05/09
8	FCO 018	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.
Date March 2009
Drawn by
Checked by
Scale

TITLE 24-INDOOR LIGHTING

E0.02B

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E0.02B_T24-INDOOR LIGHTING COMPLIANCE.dwg - Nov 07, 2011 Monday - 6:58pm - 30x42-Plt - SFERMIL

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.

TYPE:	DESCRIPTION:	MANUFACTURER AND CATALOG NO.:	VOLTAGE:	LAMP:	WATTS PER LUMINAIRE:	REMARKS:
F1MS	2' X 4' X 6" HIGH, RECESSED IN T-BAR CEILING, DIRECT/INDIRECT FLUORESCENT FIXTURE WITH MASTER/SLAVE PAIRED WIRING, MATTE WHITE INDIRECT REFLECTOR, ROUND PERFORATED WHITE STEEL LAMPS SHIELD, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS.	COOPER METALUX OVATION 2RDI-332-RP-UNV-LSF032/835/XPS/ ECO3/EB82/MS(OSI-1 EA QHE4X32T8/ UNV-ISN-SC & 1 EA QHE 2X32T8/ UNV-ISN-SC) PALC-EQ	UNV/277	OSI-3 EA- F032T8/835/ XPS/ECO3 3500 K FLUOR.	83 EA	
F1 or (F1S)	SIMILAR TO TYPE 'F1MS', BUT SINGLE FIXTURE.	COOPER METALUX OVATION 2RDI-332-RP-UNV-LSF032/835/XPS/ ECO3/EB82(OSI-2 EA QHE 2X32T8/ UNV-ISN-SC & 1 EA QHE 1X32T8/ UNV-ISN-SC) PALC-EQ	UNV/277	OSI-3 EA- F032T8/835/ XPS/ECO3 3500 K FLUOR.	83	
F1G	SIMILAR TO TYPE 'F1,F1S', BUT WITH FLANGE KIT (DF-24-W-U).	COOPER METALUX OVATION 2RDI-332-RP-UNV-LSF032/835/XPS/ ECO3/EB82(OSI-2 EA QHE 2X32T8/ UNV-ISN-SC & 1 EA QHE 1X32T8/ UNV-ISN-SC) PALC-EQ, (DF-24-W-U)	UNV/277	OSI-3 EA- F032T8/835/ XPS/ECO3 3500 K FLUOR.	55 EA	LOCATION: 4TH FLR -NORTH- VENDING (456)
F2MS	2' X 4' X 6" HIGH, RECESSED IN T-BAR CEILING, DIRECT/INDIRECT FLUORESCENT FIXTURE WITH MASTER/SLAVE PAIRED WIRING, 2-CIRCUIT, ROUND PERFORATED WHITE STEEL SHIELD, UNIVERSAL VOLTAGE SINGLE ELECTRONIC PROGRAM RAPID START BALLAST.	COOPER METALUX OVATION 2RDI-232-RP-UNV-LSF032/835/XPS/ ECO3/EB82-M/S, (OSI-2 EA QHE 2X32T8/ UNV-ISN-SC) PALC-EQ	UNV/277	OSI-2 EA- F032T8/835/ XPS/ECO3 3500 K FLUOR.	55 EA	
F2 (OR F2S)	SIMILAR TO TYPE 'F2MS', BUT SINGLE FIXTURE	COOPER METALUX OVATION 2RDI-232-RP-UNV-LSF032/835/XPS/ ECO3/EB82(OSI-2 EA QHE 1X32T8/ UNV-ISN-SC) PALC-EQ	277	OSI-2 EA- F032T8/835/ XPS/ECO3 3500 K FLUOR.	55	
F3MS NOT USED						
F3S NOT USED						
F3AMS NOT USED						
F3A	2' X 2' X 6"HIGH, RECESSED IN T-BAR CEILING, DIRECT/INDIRECT FLUORESCENT FIXTURE, MATTE WHITE INDIRECT REFLECTOR, ROUND PERFORATED WHITE STEEL LAMPS SHIELD, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS.	COOPER METALUX OVATION 2RDI-324T5HO-RP-UNV-LSFP24/ 835/HO/ECO-ERT82/(OSI 1EA QTP2X39-24T5HO/UNV PSN & OSI 1EA QTP1X39-24T5HO/UNV PSN)PALC-EQ	277	OSI 3EA-FP24 835/HO/ECO 3500 K FLUOR.	55	
F4MS NOT USED						
F4 NOT USED						
F5MS	2' X 4' X 3 3/4"HIGH,TROFFER,RECESSED IN T-BAR CEILING, FLUOR. FIXTURE WITH SEMI-SPECULAR LOW IRIDESCENT LOUVERS, STRAIGHT BLADES, UNIVERSAL VOLTAGE ELECTRONIC RAPID START BALLASTS, 2-CIRCUITS, MASTER/SLAVE PAIRED WIRING,. WITH CLEAR TUBE GUARDS AT SERVERY AREA.	COOPER METALUX 2GR5-254T5-I-A(POLY .125 SMOOTH SIDE DN LENS)- UNV-ERT2/MS (OSI 2EA QTP2X54T5HO/UNV PSN)-U-EQ,PROGRAMMED START BALLASTS, 48" CLEAR TUBE GUARDS	277	OSR SYL 2EA F54T5 835/HO/ECO//3500K PETRON HO 85CRI	121	
F5 or F5S	SIMILAR TO TYPE 'F5MS', BUT SINGLE FIXTURE.	COOPER METALUX 2GR5-254T5-I-A-(POLY .125 SMOOTH SIDE DN LENS)- -UNV-ERT2/ (OSI 2EA QTP1X54T5HO/UNV PSN)-U-EQ, PROGRAMMED START BALLASTS, 48" CLEAR TUBE GUARDS	277	OSR SYL 2EA F54T5 835/HO/ECO//3500K PETRON HO 85CRI	121	
F5AMS NOT USED						
F5AS	2' X2' X 3 3/4" HIGH FIXTURE SIMILAR TO TYPE 'F5S'.	COOPER METALUX 2GR5-224T5-A(POLY .125 SMOOTH SIDE DN LENS)- UNV-ERT1/PROGRAMMED START BALLAST (OSI 1EA QTP2X39-24T5HO/UNV PSN)-U-EQ	277	PHILLIPS 2EA F24T5 835/HO/3500K ALTO TG Coated Lamps	55	
F6MS	2' X 4' X 3 3/4" HIGH,TROFFER,RECESSED IN T-BAR CEILING FLUOR. FIXTURE WITH CLEAR PRISMATIC ACRYLIC LENS, SMOOTH SIDE DOWN IN KITCHEN AREAS, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS, MASTER/SLAVE PAIRED WIRING, 2-CIRCUITS, 3-LAMP FIXTURE.	COOPER METALUX 2GC8-332-POLY .125 SMOOTH SIDE DOWN-UNV-LSF032/835/XPS/ECO3- EB82/MS, (OSI 1 EA QHE4X32T8/UNV ISN-SC & 1EA QHE2X32T8/UNV ISN-SC) PALC-EQ	277	OSI-3 EA- F032T8/835/ XPS/ECO3 3500 K FLUOR.	91	LOCATION: KITCHEN
F6S	SIMILAR TO TYPE 'F6MS', BUT SINGLE FIXTURE.	COOPER METALUX 2GC8-332-POLY .125 SMOOTH SIDE DOWN-UNV-LSF032/835/XPS/ECO3/EB82 (OSI 1 EA QHE2X32T8/UNV ISN-SC & 1EA QHE1X32T8/UNV ISN-SC) PALC-EQ	277	OSI-3 EA- F032T8/835/ XPS/ECO3 3500 K FLUOR.	91	
F7MS	2' X 4' X 3 3/4" HIGH,TROFFER,RECESSED IN T-BAR CEILING FLUOR. FIXTURE WITH CLEAR PRISMATIC ACRYLIC LENS, SMOOTH SIDE DOWN IN KITCHEN AREAS, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS, MASTER/SLAVE PAIRED WIRING, 2-CIRCUITS, 2-LAMP FIXTURE.	COOPER METALUX 2GC8-232-POLY .125 SMOOTH SIDE DOWN-UNV-LSF032/835/XPS/ECO3- EB82/MS, (OSI 2EA QHE2X32T8/ UNV ISN-SC)-PALC-EQ-U	277	OSI-2 EA- F032T8/835/ XPS/ECO3 3500 K FLUOR.	55 EA	
F7S	SIMILAR TO TYPE 'F7MS', BUT SINGLE FIXTURE.	COOPER METALUX 2GC8-232-POLY .125 SMOOTH SIDE DOWN-UNV-LSF032/835/XPS/ECO3- EB82, (OSI 2EA QHE1X32T8/ UNV ISN-SC)-PALC-EQ-U	277	OSI-2 EA- F032T8/835/ XPS/ECO3 3500 K FLUOR.	53	
F8-8'	8' LONG FLUORESCENT INDUSTRIAL STRIP FIXTURE WITH WHITE ENAMEL REFLECTOR, WIRE GUARD, AND UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS.	COOPER METALUX 8TIAF-232-UNV-EB82-TILW-U(2EA QHE2X32T8/ UNV ISN-SC & 2EA WG/IC-4FT- U-(DUAL LEVEL)	277	OSI-4 EA- F032/835/ XPS/ECO3 3500 K FLUOR.	108	
F8-4'	4' LONG FIXTURE SIMILAR TO TYPE 'F8-8'.	COOPER METALUX IAF-232-UNV-EB81-TILW-U(1EA QHE2X32T8/ UNV ISN-SC)-U-(1EA WG/IC-4FT- U-(SINGLE LEVEL)	277	OSI-2 EA- F032/835/ XPS/ECO3 3500 K FLUOR.	53	
F9-8'	8' LONG X 10" WIDE X 2 5/8" HIGH SURFACE MOUNT WRAPAROUND FLUORESCENT FIXTURE, LOW PROFILE, WITH CLEAR ACRYLIC REFRACTOR LENS, AND UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS.	COOPER METALUX 8TWS-232A-UNV-EB82-TILW-U, (OSI 2EA QHE2X32T8/UNV ISN-SC) (DUAL LEVEL)	277	OSI-4 EA- F032/835/ XPS/ECO3 3500 K FLUOR.	108/107	
F9DL/4	4' LONG FIXTURE SIMILAR TO TYPE 'F9-8'.	COOPER METALUX WS-232A-UNV-EB82-U (OSI 2EA QHE1X32T8/UNV ISN-SC)- (DUAL LEVEL)	277	OSI-2 EA- F032/835/ XPS/ECO3 3500 K FLUOR.	55	
F9SL/4	4' LONG FIXTURE SIMILAR TO TYPE 'F9DL/4. EXCEPT SINGLE LEVEL.	COOPER METALUX WS-232A-UNV-EB82-U (OSI 2EA QHE1X32T8/UNV ISN-SC)- SINGLE LEVEL)	277	OSI-2 EA- F032/835/ XPS/ECO3 3500 K FLUOR.	55	
F10-8'	8' LONG X 7" WIDE X 5 7/8" HIGH SURFACE MOUNT VAPORTIGHT WRAPAROUND FLUORESCENT FIXTURE WITH CLEAR ACRYLIC PRISMATIC LENS, AND UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS.	COOPER METALUX 8TVT2-232DR100-UNV-EB82-TILW-U, (OSI 2EA QHE2X32T8/UNV ISN-SC) (DUAL LEVEL)	277	OSI-4 EA- F032/835/ XPS/ECO3 3500 K FLUOR.	108/107	
F10-4' (F10)	4' LONG FIXTURE SIMILAR TO TYPE 'F10-8'. VT2-CHAIN/SET/U 6' CHAIN WITH S HOOKS	COOPER METALUX VT2-232DR100-UNV-EB82-U (OSI 2EA QHE1X32T8/UNV ISN-SC) (DUAL LEVEL)	277	OSI-2 EA- F032/835/ XPS/ECO3 3500 K FLUOR.	55	
F11 (F11/Lenght ')	9" WIDE X LENGTH AS SHOWN ON PLANS, SUSPENDED DIRECT/ INDIRECT PENDANT FLUOR. FIXTURE WITH 2-LAMP CROSS-SECTION, STAGGERED, WHITE PAINTED FINISH, PERFORATED BAFFLE, 2-CIRCUIT WIRING, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS, AND AIRCRAFT CABLE SUSPENSION.	AXIS-BIG BEAM: BBR-S-FL-__'-T5HO-2S-MO-W-UNV-ERS- 2-TG-C, BI-LEVEL (BALLAST:PHILIPS ADVANCE-ICN-2S5-277V FOR 4'L; ICN-2S5-277V & ICN-2S39-277V FOR 8' L, etc.)	277	OSI-2 EA- FP54/835/HO/ /ECO-PER 4' 3500 K FLUOR.	108 PER 4' 85 PER 3'	LOCATION: 2nd FLR-STUDY, TUTOR, LAB & EVENT AREAS
F11E (F11E/Lenght ')	SIMILAR WITH TYPE "F11", EXCEPT WITH EMERGENCY CIRCUIT	AXIS-BIG BEAM: BBR-S-FL-__'-T5HO-2S-MO-W-UNV-ERS-1+E- 2-TG-C, BI-LEVEL (BALLAST:PHILIPS ADVANCE-ICN-2S54-277VFOR 4'L- ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.	277	OSI-2 EA- FP54/835/HO/ /ECO-PER 4' 3500 K FLUOR.	108 PER 4' 85 PER 3'	LOCATION: 2nd FLR-STUDY, TUTOR, LAB & EVENT AREAS
F11A (F11A/Lenght ')	9" WIDE X LENGTH AS SHOWN ON PLANS, SUSPENDED DIRECT/ INDIRECT PENDANT FLUOR. FIXTURE WITH 2-LAMP CROSS-SECTION, STAGGERED, WHITE PAINTED FINISH, PERFORATED BAFFLE, 2-CIRCUIT WIRING, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS, AND AIRCRAFT CABLE SUSPENSION.	AXIS-BIG BEAM: BBR-S-FL-__'-T5HO-2S-MO-WUNV--ERS 1-TG-C, BI-LEVEL (BALLAST:PHILIPS ADVANCE-ICN-2S54-277VFOR 4'L- ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.	277	OSI-2 EA- FP54/835/HO/ /ECO-PER 4' 3500 K FLUOR.	108 PER 4' 85 PER 3'	LOCATION: SERVERY-2nd Flr (REQUIRES POLYCARBONATE LENS)
F11AE (F11AE/Lenght ')	SIMILAR WITH TYPE "F11A", EXCEPT WITH EMERGENCY CIRCUIT	AXIS-BIG BEAM: BBR-S-FL-Length '-T5HO-2S-MO-WUNV-ERS-1+E- TG-C, BI-LEVEL (BALLAST:PHILIPS ADVANCE-ICN-2S54-277VFOR 4'L- ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.	277	OSI-2 EA- FP54/835/HO/ /ECO-PER 4' 3500 K FLUOR.	108 PER 4' 85 PER 3'	LOCATION: SERVERY-2nd Flr (REQUIRES POLYCARBONATE LENS)
F11B (F11B/Lenght ')	9" WIDE X LENGTH AS SHOWN ON PLANS, SUSPENDED DIRECT/ INDIRECT PENDANT FLUOR. FIXTURE WITH 2-LAMP CROSS-SECTION, STAGGERED, WHITE PAINTED FINISH, PERFORATED BAFFLE, 2-CIRCUIT WIRING, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLASTS, AND AIRCRAFT CABLE SUSPENSION.	AXIS-BIG BEAM: BBR-S-FL-Length '-T5HO-1S-MO-W-ERS- 1-TG-C, BI-LEVEL (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L; ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.)	277	OSI-1 EA- FP54/835/HO/ /ECO-PER 4' 3500 K FLUOR.	58 PER 4' 43 PER 3'	LOCATION: DINING & EVENT- #200B-2ND FLR
F11BE (F11BE/Length ')	SIMILAR WITH TYPE "F11B", EXCEPT WITH EMERGENCY CIRCUIT	AXIS-BIG BEAM: BBR-S-FL-Length '-T5HO-1S-MO-W-ERS- 2+E-TG-C, BI-LEVEL (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L- ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.)	277	OSI-1 EA- FP54/835/HO/ /ECO-PER 4' 3500 K FLUOR.	58 PER 4' 43 PER 3'	LOCATION: DINING & EVENT- #200B-2ND FLR
F12 (F12/Lenght ')	3 5/8" WIDE X LENGTH AS SHOWN ON PLANS, LINEAR PENDANT LIGHT FIXTURE WITH WHITE DIFFUSE ACRYLIC LENS, WHITE PAINTED FINISH, UNIVERSAL VOLTAGE ELECTRONIC RAPID START BALLASTS, 2-CIRCUIT WIRING. EMCT-AIRCRAFT CABLE HUNG	AXIS-PENDANT: AR-W-Length '-T5HO-1-W-ERS-UNV-1-CT36" SINGLE LEVEL (BALLAST:PHILIPS ADVANCE-ICN-2S54- 277V FOR 4'L)	120	OSI-1 EA- FP54/835/HO/ /ECO-PER 4' 3500 K FLUOR.	58 PER 4'	LOCATION: Bookstore-1sT Flr
F12E (F12E/Lenght ')	SIMILAR WITH TYPE "F11B", EXCEPT WITH EMERGENCY CIRCUIT	AXIS-PENDANT: AR-W-Length '-T5HO-1-W-ERS-UNV-1+E-CT36" SINGLE LEVEL (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L)	120	OSI-1 EA- FP54/835/HO/ /ECO-PER 4' 3500 K, FLUOR.	58 PER 4'	LOCATION: Bookstore-1sT Flr
F13 NOT USED						
F14 F14-8'	2 1/4" WIDE X 8' LONG X 3 5/8" HIGH, RECESSED IN METAL PLANK CEILING, FLANGED FLUORESCENT FIXTURE WITH FROSTED DIFFUSER, WHITE PAINTED FINISH, UNIVERSAL VOLTAGE ELECTRONIC RAPID START BALLASTS, AND 1-CIRCUIT WIRING.	AXIS BEAM BR-S-8-T5HO-1S-MO-W-UNV-ERS-1-D*-C *=1-DF OR DB 1 1/2" C-FILLERS AT EACH END (BALLAST:PHILIPS ADVANCE-ICN-2S39-277V)	277	OSI-2 EA- FP54/835/HO/ /ECO-PER 8' 3500 K FLUOR.	85 PER 3'	LOCATION: LOBBY CORRIDORS- 1st TO 4th FLRS (METAL CEILING)
F14A (F14A/Lenght ')	2 1/4" WIDE X 8' LONG X 3 5/8" HIGH, RECESSED IN CEMENT/PLASTER CEILING, FLANGED FLUORESCENT FIXTURE WITH FROSTED DIFFUSER, WHITE PAINTED FINISH, UNIVERSAL VOLTAGE ELECTRONIC RAPID START BALLASTS, AND 1-CIRCUIT WIRING. DAMP LOCATION LABEL., LENGTH AS SHOWN ON DRAWINGS. SINGLE LEVEL/OR ON EMCT	AXIS BEAM BR-S-Length '-T5HO-1S-MO-W-UNV-ERS-1-D*-C *=1-DF OR DB, 1 1/2" C-FILLERS AT EACH END, DAMP LABEL (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L; ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.)	277	OSI-1EA/FP54/ 835/HO/ ECO-PER 4' OSI-1EA/FP39/ 835/HO/ ECO3-PER 4' 3500K FLUOR.	58 PER 4' 43 PER 3'	LOCATION: EXTERIOR ENTRANCES 1ST & 2ND FLRS (CEMENT/PLASTER CEILING)

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.

TYPE:	DESCRIPTION:	MANUFACTURER AND CATALOG NO.:	VOLTAGE:	LAMP:	WATTS PER LUMINAIRE:	REMARKS:
F14B (F14B/Lenght ')	SIMILAR TO TYPE 'F14', BUT MOUNTED IN T-BAR CEILING. FOR ILLUMINATING OPEN STAIRWELL TO 1ST FLOOR AT BOOKSTORE ON EMCT	AXIS-SLIM: SL-VL-15/85-Length '-T5HO-1-W-UNV-ERS-1- CA36"-C (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L; ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.)	277	OSI-1EA/FP54/ 835/HO/ ECO-PER 4' OSI-1EA/FP39/ 835/HO/ ECO-PER 3' 3500K FLUOR.	58 PER 4' 43 PER 3'	LOCATION: BOOKSTORE STAIR- STAIRWELL- 2nd Flr
F14C (F14C/Lenght ')	SIMILAR TO TYPE "F14", BUT WITH DIM. OF 4" W x 3-5/8" D x Length & MOUNTED IN T-BAR CEILING.	AXIS BEAM BR-S-Length '-T5HO-1S-MO-W-UNV-ERS-1-TG-C 1 1/2" C-FILLERS AT EACH END,(SINGLE LEVEL+EMCT) (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L; ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.)	277	OSI-1EA/FP54/ 835/HO/ ECO-PER 4' OSI-1EA/FP39/ 835/HO/ ECO-PER 3' 3500K FLUOR.	58 PER 4' 43 PER 3'	LOCATION: BOOKSTORE AREA- 2ND FLOOR
F14CE (F14CE/Lenght ')	SIMILAR TO TYPE "F14", BUT WITH EMERGENCY CIRCUIT MOUNTED IN T-BAR CEILING.	AXIS BEAM BR-S-Length '-T5HO-1S-MO-W-UNV-ERS-1+E-TG-C 1 1/2" C-FILLERS AT EACH END,(SINGLE LEVEL+EMCT) (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L; ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.)	277	OSI-1EA/FP54/ 835/HO/ ECO-PER 4' OSI-1EA/FP39/ 835/HO/ ECO-PER 3' 3500K FLUOR.	58 PER 4' 43 PER 3'	LOCATION: BOOKSTORE AREA- 2ND FLOOR
F14D F14D/8'	SIMILAR TO TYPE 'F14-8", BUT MOUNTED IN T-BAR CEILING.	AXIS BEAM BR-S-8-T5HO-1S-MO-W-UNV-ERS-1-TG-C 1-TB-1 1/2" C-FILLERS AT EACH END, SINGLE LEVEL OR ON EMCT (BALLAST:PHILIPS ADVANCE-ICN-2S39-277V)	277	OSI-2EA/FP54/ 835/HO/ ECO-PER 4' 3500K FLUOR.	85 PER 3'	LOCATION: LOBBY CORRIDORS- 1ST TO 4TH FLRS (ON T-BAR CEILING)
F14W (8 ')	4"W x 3-3/8" D x 8', SURFACE CEILING MOUNT, EXTRUDED ACRYLIC FROSTED LENS, WHITE FINISH, UL LISTED FOR WET LOCATION 1-CIRCUIT, RAPID START ELECT. BALLAST.	AXIS BEAM-WET BR-S-8-T5HO-1S-MO-W-UNV-ERS-1+E-TF-C 1 1/2" C-FILLERS AT EACH END, SINGLE LEVEL OR ON EMCT (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V)	277	OSI-1EA/FP54/ 835/HO/ ECO-PER 4' 3500K FLUOR.	58 PER 4'	LOCATION: 1ST FLR-S. EAST EXTERIOR STAIRS
F14WA (F14WA/Lenght ')	SIMILAR TO TYPE "F14W", BUT SURFACE WALL MOUNT	AXIS BEAM-WET BR-S-Per Feet-T5HO-1S-MO-W-UNV-ERS-1+E-EF-C, 1 1/2" C-FILLERS AT EACH END,SINGLE LEVEL OR ON EMCT, (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L; ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.)	277	OSI-1EA/FP54/ 835/HO/ECO-Per4' OSI-1EA/FP39/ 835/HO/ECO-Per 3' 3500K FLUOR.	58 PER 4' 43 PER 3'	LOCATION: 1ST FLR-S. WEST EXTERIOR DECK
F15 F15/20	RECESSED FIXTURE SIMILAR TO TYPE 'F14-8', BUT IN GYPSUM BOARD CEILING.	AXIS BEAM BR-S-Per Ft-T5HO-1S-MO-W-UNV-ERS-1-D*-C *=1-DF OR DB, 1 1/2" C-FILLERS AT EACH END, DAMP LABEL (ALL SINGLE LEVEL),ON GYP BOARD CEILING (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L; ICN-2S54-277V & ICN-2S39-277V FOR 8' L, etc.)	277	OSI-1EA/FP54/ 835/HO/ ECO-PER 4' OSI-1EA/FP39/ 835/HO/ ECO-PER 3' 3500K FLUOR.	58 PER 4' 43 PER 3'	LOCATION: MAIN RESTROOMS- 1ST TO 4TH FLRS
F16 (F16/Lenght ')	2-1/4" W x 3-5/8" D x 8' LONG, RECESSED FIXTURE SIMILAR TO TYPE 'F14-8', BUT WITH AN ASYMMETRIC REFLECTOR OR OPTICS THAT WILL BE AIMED TOWARDS HALLWAYS, AWAY FROM WINDOWS AND PERIMETER WALLS	AXIS BEAM BR-A-Length '-T5HO-1-MO-W-UNV-ERS-1-D-C 1-DF-(GYP), 1 1/2" FILLERS AT EACH END (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L)	277	OSI-1EA/FP54/ 835/HO/ ECO-PER 4' 3500 K FLUOR.	58 PER 4'	LOCATION: PERIMETER HALLWAYS 2nd THRU 4th FLR
F17 NOT USED						
F18-8' F18-16'	8' LONG FIXTURE SIMILAR TO TYPE 'F14-8', BUT WITH DIMMING BALLASTS, AND SPECIAL MODIFIED MITERED END FILLERS PER LIGHTING PLANS.	AXIS BEAM BR-7.5-S-Length '-T5HO-1-MO-W-UNV-ERS-1-C 1-C FILLERS (SPECIAL MOD. MITERED FILLERS AT EACH END, SINGLE LEVEL SWITCHED,NON-DIM (BALLAST:PHILIPS ADVANCE-ICN-2S54-277V FOR 4'L)	277	OSI-1EA/FP54/ 835/HO/ ECO-PER 4' 3500 K FLUOR.	58 PER 4'	LOCATION: MEETING ROOMS- 4TH FLR
F19-4'	4' LONG X 4 1/2" DEEP X 4 1/2" HIGH, SURFACE WALL MOUNT FLUORESCENT FIXTURE WITH ROUND OPAL ACRYLIC LENS, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLAST, AND 1-CIRCUIT WIRING.	NULITE 16-232-UNV-EB10 (OSI 1EA QHE2X32T8/UNV ISN-SC)- SINGLE LEVEL SWITCH, ON EM CT	277	OSI-2EA F032/T8 835/XPS/ECO3 3500 K FLUOR.	55	LOCATION: STAIRS
F19-8'	4' LONG X 4 1/2" DEEP X 4 1/2" HIGH, SURFACE WALL MOUNT FLUORESCENT FIXTURE WITH ROUND OPAL ACRYLIC LENS, UNIVERSAL VOLTAGE ELECTRONIC PROGRAM RAPID START BALLAST, AND 1-CIRCUIT WIRING.	NULITE 16-232-8-UNV-EB10 (OSI 1EA QHE4X32T8/UNV ISN-SC)- SINGLE LEVEL SWITCH, ON EM CT	277	OSI-4EA F032T8/ 835/XPS/ECO3 3500 K FLUOR.	108	LOCATION: STAIRS
F20	6" DIAMETER X 6 1/2" HIGH, RECESSED OPEN DOWNLIGHT WITH HORIZONTAL LAMPING, UNIVERSAL VOLTAGE ELECTRONIC BALLAST, AND 'HAZE' FINISH SELF-FLANGED REFLECTOR.	COOPER PORTFOLIO C6142E-6151H-WF-HB26	277	OSI-1EA CF42DT/ E/IN/835/ECO 3500 K COMP. FLUOR.	42	
F20D	8" DIAMETER APPERTURE x 6 1/2" HIGH, SURFACE MOUNTED DOWNLIGHT WITH HORIZONTAL LAMPING, 'HAZE' INODIZED REFLECTOR FINISH, DIMMABLE, UNIVERSAL VOLTAGE ELECTRONIC BALLAST.	OCEAN STATE LIGHITNG-SURFACE FLUORESCENT S-FLH-8-2/32PLT-HZ-UNV	277	OSI-2EA CF32DT/ E/IN/835/ECO 3500 K COMP. FLUOR.	64	LOCATION: STUDIO
F21	SIMILAR TO TYPE 'F20', BUT WITH DIFFERENT LAMP.	COOPER PORTFOLIO C614-EDR32-6151H-WF-HB26 ADD DERATING LABEL	277	OSI-1EA CF32DT/ E/IN/835/ECO 3500 K COMP. FLUOR.	32	
F22	SIMILAR TO TYPE 'F20', BUT WITH DIFFERENT LAMP.	COOPER PORTFOLIO C6142-EDR26-6151H-WF-HB26 ADD DERATING LABEL	277	OSI-1EA CF26DT/ E/IN/835/ECO 3500 K COMP. FLUOR.	29	
F23	9-1/2" APERTURE LENS, DEEP REGRESSED LENS, 6-1/2" HIGH, RECESSED DOWNLIGHT, WITH HORIZONTAL LAMPING, PRISMATIC GLASS LENS, 'HAZE' FINISH, WHITE PAINTED SELF-FLANGED REFLECTOR, AND UNIVERSAL VOLTAGE ELECTRONIC BALLAST, GASKETTED FOR WET LOCATION,	COOPER PORTFOLIO CL9-242E-9281H-1G-WF-HB26	277	OSI-2EA CF42DT/ E/IN/835/ECO COMP. FLUOR.	93	LOCATION: EXTERIOR CANOPIES
F24	4 1/2" DIAMETER APPERTURE x 7 3/4" HIGH, RECESSED OPEN DOWNLIGHT WITH VERTICAL LAMPING, 'HAZE' FINISH SELF-FLANGED REFLECTOR, AND UNIVERSAL VOLTAGE ELECTRONIC BALLAST.	COOPER PORTFOLIO C4026E-4051H-WF-HB26	277	OSI-1EA CF26TTT/ E/IN/835/ECO 3500 K COMP. FLUOR.	26	LOCATION: 3RD FLR (SOUTH)- INFO
F25	4" DIAMETER, VERTICAL FLUORESCENT, OPEN REFLECTOR, BAFFLE, MEDIUM CUT-OFF, SEMI-DIFFUSE LOW IRREDESCENT FINISH, (1)-26 WATTS MAXIMUM, INTEGRALLY MOUNTED ELECTRONIC BALLAST.	SPECTRUM-GOLD 4V SG4V-126DL2-AR4415-SG (LUTRON COMPACT SE BALLAST-FDB-T426-277-LS)	277	OSI-1EA CF26T4/ 4-PIN/TRIPLE TUBE E/IN/835/ECO 3500 K COMP. FLUOR.	26	LOCATION: 4th Flr- CONF. RMs.
F25D	SIMILAR WITH FIXTURE TYPE "F25", EXCEPT WITH PLASTER RING.	SPECTRUM-GOLD 4V SG4V-126DL2-PR2-1/8"-MOD-AR4415-SG (LUTRON COMPACT SE BALLAST-FDB-T426-277-LS, 277V DIMMING BALLAST)	277	OSI-1EA CF26T4/ 4-PIN/TRIPLE TUBE E/IN/835/ECO 3500 K COMP. FLUOR.	26	LOCATION: 4th Flr- CONF. RMs.
F25A	SIMILAR WITH FIXTURE TYPE "F25", EXCEPT IT IS 4" VERTICAL WALLWASH.	SPECTRUM-GOLD 4V SGW4V-126-DL2-AR4495-SG (LUTRON COMPACT SE BALLAST-FDB-T426-277-LS)	277	OSI-1EA CF26T4/ 4-PIN/TRIPLE TUBE E/IN/835/ECO 3500 K COMP. FLUOR.	26	
F25B	5 1/8" DIAMETER X 7 1/16" HIGH, RECESSED OPEN WALLWASHER WITH VERTICAL LAMPING, 'HAZE' FINISH SELF-FLANGED REFLECTOR, AND UNIVERSAL VOLTAGE ELECTRONIC DIMMING BALLAST.	COOPER PORTFOLIO C4026E-40111-H-WF-HB26	277	OSI-1EA CF26DT/ E/IN/835/ECO 3500 K COMP. FLUOR.	26	
F26	6" DIAMETER X 6" HIGH, RECESSED LENSED WALLWASHER WITH INTERNAL SPECULAR REFLECTOR PROVIDE VERTICAL ILLUMINATION, LOW BRIGHTNESS, 'HAZE' FINISH SELF-FLANGED AND UNIVERSAL VOLTAGE ELECTRONIC BALLAST.	COOPER PORTFOLIO CLW6-1-32-E-6491H-WF-HB26	277	OSI-1EA CF32DT/ E/IN/835/ECO 3500 K COMP. FLUOR.	32	
F27 F27/6'	6' CEILING MOUNTED TRACK FIXTURE WITH SOFT FOCUS LENS. QUANTITY OF FIXTURE HEADS, TRACK LENGTHS AS SHOWN ON PLANS, AND ACCESSORIES AS NEEDED TO PROVIDE COMPLETE & OPERABLE INSTALLATION. MATTE BLACK PAINTED FINISH. LOW VOLTAGE ELECTRONIC TRANSFORMER INTEGRAL TO FIXTURE HEAD.	COOPER HALO:MINIATURE SINGLE CIRCUIT TRAC SYST. L4018P/L111 L650P/L651P/L901CB300P/L908P; L900-P/L901-P L650P 2' 1CT TRACK & L651P 4' 1CT TRACK L908MB MINI JOINER,L4018MB/L111	120	OSI 1EA- 50MR16/IR NFL25/C	216	LOCATION: STUDIO ROOMS - 1ST FLOOR
F27A F27A/6'	6' CEILING MOUNTED TRACK FIXTURE WITH SOFT FOCUS LENS. QUANTITY OF FIXTURE HEADS, TRACK LENGTHS AS SHOWN ON PLANS, AND ACCESSORIES AS NEEDED TO PROVIDE COMPLETE AND OPERABLE INSTALLATION. MATTE BLACK PAINTED FINISH. LOW VOLTAGE ELECTRONIC TRANSFORMER INTEGRAL TO FIXTURE HEAD	COOPER HALO:LOW VOLTAGE POWER-TRAC BACHETTA LAMPHOLDERS L3700-P-L111 L651P/L3700P/L111/LC901CB300P; L900-P; L901-P L650P 2' 1CT TRACK & L651P 4' 1CT TRACK	120	OSI 1EA- 50MR16/IR FL35/C	216	LOCATION: ROOM 190-1ST FLR SERVERY-2ND FLR
F28-6'	6' CEILING MOUNTED TRACK FIXTURE WITH SOFT FOCUS LENS. QUANTITY OF FIXTURE HEADS, TRACK LENGTHS AS SHOWN ON PLANS, AND ACCESSORIES AS NEEDED TO PROVIDE COMPLETE AND OPERABLE INSTALLATION. POLISHED ALUMINUM FINISH. LOW VOLTAGE ELECTRONIC TRANSFORMER INTEGRAL TO FIXTURE HEAD.	COOPER HALO: LOW VOLTAGE POWER-TRAC STUDIO CLASSIC LAMP HOLDER L1816PAL/L111; L650P/L900-P/L901-P L650SL 2' 1-CKT TRACK & L651SL 4' 1-CKT TRACK, L908SL MINI JOINER,SILVER FINISH	120	OSI 1EA- 50MR16/IR NFL25/C	225	LOCATION: RECORDING RM- 1ST FLOOR
F28-12'	12' CEILING MOUNTED TRACK FIXTURE WITH SOFT FOCUS LENS. QUANTITY OF FIXTURE HEADS, TRACK LENGTHS AS SHOWN ON PLANS, AND ACCESSORIES AS NEEDED TO PROVIDE COMPLETE AND OPERABLE INSTALLATION. POLISHED ALUMINUM FINISH. LOW VOLTAGE ELECTRONIC TRANSFORMER INTEGRAL TO FIXTURE HEAD.	COOPER HALO :LOW VOLTAGE POWER-TRAC STUDIO CLASSIC LAMP HOLDER L1816PAL/L111 L653SL 12' 1-CKT TRACK; L900-P; L901-P SATIN WHITE FINISH	120	OSI 1EA- 50MR16/IR NFL25/C	450	LOCATION: RECORDING RM- 1ST FLOOR
F29-6'	6' CEILING MOUNTED TRACK FIXTURE WITH SOFT FOCUS LENS. QUANTITY OF FIXTURE HEADS, TRACK LENGTHS AS SHOWN ON PLANS, AND ACCESSORIES AS NEEDED TO PROVIDE COMPLETE AND OPERABLE INSTALLATION. POLISHED ALUMINUM FINISH. LOW VOLTAGE ELECTRONIC TRANSFORMER INTEGRAL TO FIXTURE HEAD	COOPER HALO: LOW VOLTAGE POWER-TRAC STUDIO CLASSIC LAMP HOLDER L3700P/L111 L651P/LC901CB300P; L900-P; L901-P, L650P 2' 1CT TRACK & L651P 4' 1-CKT TRACK	277	OSI 1EA- 50MR16/IR NFL35/C	44	LOCATION: C-STORE-2ND FLR
F30	6" DIAMETER x10" HIGH, SOLID ALUMINUM CYLINDER SURFACE WITH MATTE WHITE FINISH, 277V INTEGRAL ELECTRONIC HPF BALLAST, INTEGRAL ELECTRONIC BALLAST, AND AIRCRAFT CABLE SUSPENSION (30" OVERALL) AND WHITE POWER CORD.	COOPER SHAPER-260 SERIES 260-CFL/1/26-277V-MW	277	OSI 1EA- CF26DT/E/IN/ 835/ECO	128	LOCATION: MAIN LOBBY-2ND FLR
F31 F31-6'	6' CEILING MOUNTED TRACK FIXTURE WITH CUBE CELL LOUVER. QUANTITY OF FIXTURE HEADS, TRACK LENGTHS AS SHOWN ON PLANS, AND ACCESSORIES AS NEEDED TO PROVIDE COMPLETE AND OPERABLE INSTALLATION. ALUMINUM HAZE FINISH. LOW VOLTAGE ELECTRONIC TRANSFORMER INTEGRAL TO FIXTURE HEAD.	COOPER HALO STASIS L-5-05-6-70-P-L275 HEAD; L210 OR L250 LINEAR SPREAD LENS L650-P 2' 1-CKT TRACK & L651-P 4'-1-CKT TRACK, L900-P,L901-P, WITH SATIN WHITE FINISH	120	PHILIPS 1 EA CMH ELITE70/T6/930 CERAMIC METAL HALIDE	77	LOCATION: BOOKSTORE- 2ND FLOOR SURFACE MOUNT
F32	WHITE LED ILLUMINATED EDGE-LIT SIGNAGE AC ONLY OPERATION-120/277 VAC DUAL VOLTAGE INPUT WITH SURGE PROTECTION, UNIVERSAL MOUNTING CONFIGURATION HIGH IMPACT ACRYLIC PANEL WITH SILK-SREENED WORDING	CHLORIDE SYSTEMS: CALIBER SIGNAGE CS-W-1-R-SPL ("ON THE AIR")	120VAC/277VAC (AC ONLY)	LED	4	LOCATION: 2ND FLR SOUTH- STUDIOS
F33 NOT USED						
F34	7 3/8" DIAMETER X 8" HIGH, RECESSED CLEAR LENSED DOWNLIGHT WITH VERTICAL LAMPING, SELF-FLANGE TRIM WITH 'HAZE' FINISH, UNIVERSAL VOLTAGE ELECTRONIC BALLAST.	COOPER PORTFOLIO:7-3/8" LENS DOWNLIGHT C7142E-7181H-3-WF-HB26	277	OSI 1 EA CF42DT/ E/I/N/835/ECO 3500 K COMPACT FLUOR.	48	
F35	26W COMPACT FLUORESENT WALL MOUNT NON-METALLIC VAPORPROOF 'JAR' FIXTURE WITH POLYCARBONATE HOUSING AND GUARD, HEAT TREATED GLASS GLOBE, WITH ELECTRONIC BALLAST.	CANLET 6802-FWF-21-OG-11	120	OSI 1 EA CF26DT/ E/I/N/835/ECO 3500 K COMPACT FLUOR.	26	
F36	"AREA OF RESCUE", COMPACT, LOW PROFILE SIGNAGE FIXTURE, 11-3/4" WIDE x 1-5/8" DEEP x 9-1/8" HIGH, WHITE WITH BRUSHED ALUMINUM FACE, GREEN LETTERS, CLEAR ACRYLIC SIGN PANEL	DUALLITE SE-S-G-W-SW11 "AREA OF REFUGE"	277VAC	LED	3.5	

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION.

TYPE:	DESCRIPTION:	MANUFACTURER AND CATALOG NO.:	VOLTAGE:	LAMP:	WATTS PER LUMINAIRE:	REMARKS:
F37	4 3/4" DIAMETER X 7 " HIGH X 15" W, RECESSED DOWNLIGHT, WITH WET LOCATION LABEL RATING, ALUMINUM HOUSING, STAINLESS STEEL FACEPLATE, CLEAR TEMPERED GLASS LENS, AND INTERNAL BAFFLE.	BEGA 6940MH/562MH 562 MH ROUGH-IN KIT OR EQUAL	277	OSI 1 EA MCP39PAR20 U/830/ FL/ECO PB	44	
F38 NOT USED						
F39 NOT USED						
F40 NOT USED						
F40A	12.5" X 12.5" MODULAR FACEPLATE, OUTDOOR RECESSED WALL MOUNTED FIXTURE. WITH ELECTRONIC BALLAST, LISTED FOR WET LOCATON DARK SKY COMPLIANT	COOPER -INVUE:SOLAS SQUARE SQS-C-32-CF-UNV-EB-FR- STANDARD FACTORY FINISH CONCRETE POUR, SCOOP TRIM, FROSTED GLASS LENS	277	OSI 1EA CF32DT/E/IN/ 835/ECO	34	LOCATION: 3RD FLR DECKS- EAST &WEST
F40B	12.5" X 12.5" MODULAR FACEPLATE, OUTDOOR RECESSED WALL MOUNTED FIXTURE. WITH ELECTRONIC BALLAST, LISTED FOR WET LOCATON DARK SKY COMPLIANT	COOPER -INVUE:SOLAS SQUARE SQF-C-32-CF-UNV-EB-SL-STANDARD FACTORY FINISH, CONCRETE POUR, SQUARE FLUSH TRIM, CLEAR SPREAD LENS	277	OSI 1EA CF32DT/E/IN/ 835/ECO	34	LOCATION: DINING DECK- 2ND FLOOR
F40-C NOT USED						
F41	CAST ALUMINUM SURFACE LUMINAIRE,CEILING MOUNTED CANOPY, PRISMATIC POLYCARBONATE DIFFUSER, VANDAL RESISTANT, CORROSION RESISTANT,NON-SHRINK DOUBLE BAKED NEOPRENE, GASKETINGSEALS OUT THE ENVIRONMENT, ELECTRONIC BALLAST-HOF CORE & COIL	COOPER/FAIL-SAFE HUS-70M-MT-____-2822 WITH QUICK MOUNTING KIT	277	OSI 1 EA MP/70/U/MED METAL HALIDE	70	LOCATION: LOADING DOCK CANOPY
F42 NOT USED						
F43	SURFACE EXTERIOR RATED WALL MOUNT FIXTURE WITH COMPACT FLUORESCENT LAMP & ELECTRONIC BALLAST CONDUIT ACCESS ON BOTTOM & BACK PHOTOCELL ADAPTABLE, U.L. LISTED FOR WET LOCATION	NULITE WP-1PL42-277- BRONZE STANDARD	277V	OSI 1EA CF42DT/E/IN/ 835/ECO 3500 K COMP. FLUOR.	48	LOCATION: ROOF
F44	SURFACE EXTERIOR RATED WALL MOUNT FIXTURE WITH METAL HALIDE LAMP, CAST ALUMINUM, BRACKET MOUNT, VANDAL AND ENVIRONMETAL DETERIORATION RESISTANT. UL LISTED, CSA CERTIFIED, STANDARD WET LABEL.	COOPER/FAIL-SAFE MH-GC-HE-70H-MT STANDARD FACTORY FINISH VRSD TAMPER PROOF SCREW DRIVER	277	OSI 1 EA MP/70/U/MED METAL HALIDE	70	LOCATION: LOADING DOCK CANOPY
F45 F45-8'	8' LONG STAGGERED STRIP FLUORESCENT FIXTURE WITH TWO-LAMP CROSS SECTION, ASSYMMETRIC REFLECTOR 3" W, UNIVERSAL VOLTAGE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLASTS, AND LABELED FOR 'DAMP' LOCATION. FOR COVE 5"W X 11"H, USING 1 LAMP T5HO STRIP	NULITE STN-154T5HO-8'-UNV (1 EA QTP- 2X54T5HO/UN PSN)-DL ASY (SINGLE LEVEL)	277	OSI-2 EA FP54/835/ HO/ECO 3500 K FLUOR.	121/118 61	LOCATION: SERVERY
F45-6'	6' LONG STAGGERED STRIP FLUORESCENT FIXTURE WITH TWO-LAMP CROSS SECTION, ASSYMMETRIC REFLECTOR 3" W, UNIVERSAL VOLTAGE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLASTS, AND LABELED FOR 'DAMP' LOCATION. FOR COVE 5"W X 11"H, USING 1 LAMP T5HO STRIP	NULITE STN-139T5HO-6'-UNV (1 EA QTP- 2X39-24T5HO/UN PSN)-DL ASY (SINGLE LEVEL)	277	OSI-2 EA FP39/835/ HO/ECO 3500 K FLUOR.	85/83 42	LOCATION: SERVERY
F45-4'	4' LONG STAGGERED STRIP FLUORESCENT FIXTURE WITH TWO-LAMP CROSS SECTION, ASSYMMETRIC REFLECTOR 3"W, UNIVERSAL VOLTAGE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLASTS, AND LABELED FOR 'DAMP' LOCATION. FOR COVE 5"W X 11"H, USING 1 LAMP T5HO STRIP	NULITE STN-154T5HO-4'-UNV (1 EA QTP- 1X54T5HO/UN PSN)-DL ASY (SINGLE LEVEL)	277	OSI-1 EA FP54/835/ HO/ECO 3500 K FLUOR.	61	LOCATION: SERVERY
F45-3'	3' LONG STAGGERED STRIP FLUORESCENT FIXTURE WITH TWO-LAMP CROSS SECTION, ASSYMMETRIC REFLECTOR 3" W, UNIVERSAL VOLTAGE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLASTS, AND LABELED FOR 'DAMP' LOCATION. FOR COVE 5"W X 11"H, USING 1 LAMP T5HO STRIP	NULITE STN-139T5HO-3'-UNV (1 EA QTP- 1X39-24T5HO/UN PSN)-DL ASY (SINGLE LEVEL)	277	OSI-1 EA FP39/835/ HO/ECO 3500 K FLUOR.	42	LOCATION: SERVERY
F45-2'	2' LONG STAGGERED STRIP FLUORESCENT FIXTURE WITH TWO-LAMP CROSS SECTION, ASSYMMETRIC REFLECTOR 3" W, UNIVERSAL VOLTAGE 10% THD ELECTRONIC PROGRAM RAPID START PSX .71 BF BALLASTS, AND LABELED FOR 'DAMP' LOCATION. FOR COVE 5"W X 11"H, USING 1 LAMP T5HO STRIP	NULITE STN-124T5HO-2'-UNV (1 EA QTP- 1X39-24T5HO/UN PSN)-DL ASY (SINGLE LEVEL)	277	OSI-1 EA FP24/835/ HO/ECO 3500 K FLUOR.	27	LOCATION: SERVERY
F46	16' LONG X 9 1/4" WIDE, PENDANT DIRECT/INDIRECT T8 FLOURESCENT TWO-LAMP CROSS SECTION LUMINAIRE WITH SPECULAR PARABOLIC LOUVER, ELECTRONIC BALLAST, ALUMINUM ANODIZED FINISH TO BE CONFIRMED	AXIS:PENDANT LT-PL-16-T8-2-W-0-0-E-UNV-CT36"-C (OSI QHE-_2X32T8/UNV-ISN SC)- UNV-2-CT36-C DUAL LEVEL 65% UP/ 35% DOWN	277	OSI-2 EA F032/835/ XPS/ECO3 3500 K FLUOR.	55	LOCATION:
F47	6-1/4" DIA. & 8" BOT. DIA. X 8-1/2" HIGH, SURFACE LUMINAIRE- RING BAFFLE DIRECT DOWNLIGHT COMPONENT, 1-LAMP CROSS, SECTION LUMINAIRE, INTEGRAL ELECTRONIC HPF BALLAST,	COOPER:SHAPER 278 SERIES 278-CFL/1/32-UNV-MW	277	OSI- EA CF32DT/E/IN/ 3500 K FLUOR.	32	LOCATION: STO. ROOM-BOOKSTORE
F48	6" DIA. & 10" HIGH, SURFACE LUMINAIRE-DIREC T DOWNLIGHT COMPONENT SOLID ALUMINUM WITH MATTE WHITE ACRYLIC CYLINDER, SECTION LUMINAIRE, INTEGRAL ELECTRONIC HPF BALLAST,	COOPER:SHAPER 260-A SERIES 260-A-CFL/1/26-UNV-MW	277	OSI- EA CF26DT/E/IN/ 3500 K FLUOR.	32	LOCATION: TASK AREAS AT OFFICES
F49	LOW BRIGHTNESS, 8-3/8" DIA. APERTURE DOWNLIGHT, 2-42W TRIPLE TWIN TUBE-4 PIN COMPACT FLUORESCENT, NON-IMAGING REFLECTOR ENSURE 55% CUTOFF TO LAMP HAZE FINISH, WHITE PAINTED SEL FLANGED ELECTRONIC BALLAST	COOPER: PORTFOLIO - C8242 SERIES C8-2-42-E-8351-H-WF-HB26	277	OSI- EA CF42DT/E/IN/ 3500 K FLUOR.	42	LOCATION:
F50	6' X 2-3/4" WIDE, NARROW STRIPLITE FLIP-UP SOCKET DESIGN, CHANNEL/WIREWAY COVER, GROOVE FOR TONG HANGER, END PLATE CONVERTS SNAP-IN CHANNEL CONNECTOR,SUITABLE FOR DAMP LOCATIONS, ELECTRONIC BALLAST, ROTOR LOCK LAMPHOLDERS	COOPER: METALUX - SNF SERIES SNF-1-25-UNV-EB81-WG/SNF-3FT (OSI-1 EA QHE1x32T8/UNV/ISN-SC)-U	277	OSI-1 EA F032/835/XPS/ECO3 3500 K FLUOR.	32	LOCATION:
F51	WALL MOUNTED CAST ALUMINUM LUMINAIRE, CLEAR TEMPERED GLASS LENS,HORIZONTAL LAMP FOR CUT-OFF TYPE OF APPLIATON, DOWNWARDS POSITION OF REFLECTOR, GASKETTED AGAINST WATER AND DUST INFILTRATION, COMPACT FLUORESCENT LAMP & ELECTRONIC BALLAST	DIVERSIFIED ARCHITECTURAL LIGHTING MINI SQUARE BASE, WALL 2305D-42C-27-SL	277	CF42DT/E/IN/835 3500 K FLUOR.	42	LOCATION:
F52	LARGE ART DECO SINGLE CAST ALUMINUM HOUSING, ALUMINUM DOOR FRAME, TYPE III DISTRIBUTION FULL CUT-OFF, FLAT CLEAR TEMPERED GLASS (6mm), POLE HT=30' x 5" DIA. UNIVERSAL VOLTAGE INPUT, FOR OUTDOOR AND WET LOCATIONS.	DALS 2307-1-A005-320MH-T3-27-SL-PS-DARK SKY FULL CUT OFF-SINGLE	N/A	VENTURE MS320W/H75/ ED28/PS/740		LOCATION: SOUTH EAST & NORTH WEST STAIRS
F53	RECESSED OPEN DOWNLIGHT WITH 7" APERTURE, WITH METAL HALIDE LAMP, WITH UNIVERSAL INPUT ELECTRONIC BALLAST	COOPER LIGHTING: PORTFOLIO MD7100E/7751H-WF/HB26 MCP-100/U/MED/830/PB	277	100W MH	113	LOCATION: MAIN STAIR
F53A	RECESSED OPEN DOWNLIGHT WITH 7" APERTURE, WITH METAL HALIDE LAMP, WITH UNIVERSAL INPUT ELECTRONIC BALLAST	COOPER LIGHTING: PORTFOLIO MD770E/7751H-WF/HB26 MCP-70/U/MED/830/PB	277	70W MH	84	LOCATION: MAIN STAIR
F-UCab	TASK LIGHTING 36", 21W-T5 FLUORESCENT LAMP,41 DEGREE KELVIN, UNDERCABINET TASK LIGHT, WITH RAPID START ELEC. BALLAST, WITH FUSED CORD, MINIATURE,ROCKER SWITCH AND PRISMATIC ACRYLIC LENS	COOPER:SHAPER 278 SERIES 278-CFL/1/32-UNV-MW	120	1-F21T5/ 42 DEG KELVIN 36" LENGTH	21	LOCATION: TASK AREAS AT OFFICES
XSF	SINGLE FACE EXIT SIGN FIXTURE WITH UNIVERSAL MOUNTING DESIGN, CLEAR ACRYLIC PANEL, UNIVERSAL SELF-ADHESIVE CHEVRONS, UNIVERSAL VOLTAGE INPUT, WHITE PAINTED FINISH ON DIE-CAST ALUMINUM HOUSING, AND GREEN LETTERS.	PHILIPS CHLORIDE CALIBER SERIES CA6GCW1IC SINGLE FACE EXIT AC WHITE HSG GREEN LETTERS ON CLEAR PANEL	277	UNV/LED	4	
XSFA	LED RECESSED EXIT SIGN 1 FACE, MINIMAL OFF-WALL POTRUSSION, DIECAST ALUMINUM HOUSING WITH WHITE FACE PLATE FINISH WITH GREEN LETTERS, UNIVERSAL PATTERN ILLUMINATION SOURCE:BOROSILICATE GLASS,INTERNALLY COATED W/ ZINC SULFATE PHOSPHOR & FILLED W/ TRITIUM GAS.	SRBT: LUMINEXIT B100-20-AL-S-GN-OPTIONS IF REQUIRED (AL FRAME COLOR FOR EXTERIOR & WH FOR INTERIOR) SELF ILLUMINATED TRITIUM 20YR WATER/VANDAL PROOF,SECURITY COVER	N/A (NO ELEC. ENERGY SOURCE REQ'D)	N/A		LOCATION: 3RD FLOOR DECK
XDF	DOUBLE FACE EXIT SIGN FIXTURE WITH UNIVERSAL MOUNTING DESIGN, MIRROR ACRYLIC PANEL, UNIVERSAL SELF-ADHESIVE CHEVRONS, UNIVERSAL VOLTAGE INPUT, WHITE PAINTED FINISH ON DIE-CAST ALUMINUM HOUSING, AND GREEN LETTERS.	PHILIPS CHLORIDE CALIBER SERIES CA6GMW2IC DOUBLE FACE EXIT AC WHITE HSG GREEN LETTERS ON MIRRORED PANEL	277	LED	4	
M6	42" TALL BY 8" DIA. LIGHT BOLLARD OF SPUN AND CAST ALUMINUM WITH CLEAR TEMPERED GLASS JAR LENS. BAKED ENAMEL PAINT COLOR TO BE DETERMINED BY ARCHITECT. LISTED FOR WET LOCATION.	ALLSCAPE LL-314-100W MH E17-277-42" Finish T.B.D.	277V	PHILLIPS 1 EA MHC100/U/M/ 4K/ALTO METAL HALIDE	110	LOCATION: 2ND FLOOR DECK

NOTES:

1 DUAL-LEVEL SWITCHED FIXTURES SHALL BE PROVIDED WITH 2-BALLASTS. COORDINATE EXACT QUANTITIES WITH LIGHTING PLANS.

2 ALL RECESSED FIXTURES MOUNTED IN T-BAR CEILING TO BE PROVIDED WITH SAFETY EARTHQUAKE CLIPS & WHITE RINGS.

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCARTHY
LPA
KH

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
8	FCD 41 EXIT SIGN COORDINATION	07/27/10
8A	PROVIDE ON AIR SIGN - FCD 041	12/14/09
11	2ND FLR LEARNING CENTER & STORE-FRONT WINDOW WALL AT 4T FLR OFFICE - FCD 023	03/24/10
12	DSA CO 01 Conformed Set	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
5	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
6	4TH FLR CONFERENCE RMS 401 & 431 REVISIONS - FCD 040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	06/09/08
	50% Construction Documents	07/29/08
	DSA Submittal	09/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHT	07/28/09
2	FCD 014	08/05/09
3	FCD 016	09/15/09
7	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

LIGHTING FIXTURE SCHEDULE

E0.03

COPPER FEEDER SCHEDULE – 1 PHASE, 2 WIRE				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
152	15A, 1PH2W	2–#12	#12	1/2"
202	20A, 1PH2W	2–#12	#12	1/2"
302	30A, 1PH2W	2–#10	#10	1/2"
402	40A, 1PH2W	2–#8	#10	1/2"
502	50A, 1PH2W	2–#8	#10	1/2"
602	60A, 1PH2W	2–#6	#10	3/4"
702	70A, 1PH2W	2–#4	#8	1"
802	80A, 1PH2W	2–#4	#8	1"
1002	100A, 1PH2W	2–#2	#8	1"

COPPER FEEDER SCHEDULE – 1 PHASE, 3 WIRE				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
152	15A, 1PH2W	1–#12H,1–#12N	#12	1/2"
202	20A, 1PH2W	1–#12H,1–#12N	#12	1/2"
302	30A, 1PH2W	1–#10H,1–#10N	#10	1/2"
402	40A, 1PH2W	1–#8H,1–#8N	#10	1/2"
502	50A, 1PH2W	1–#8H,1–#8N	#10	1/2"
602	60A, 1PH2W	1–#6H,1–#6N	#10	3/4"
702	70A, 1PH2W	1–#4H,1–#4N	#8	1"
802	80A, 1PH2W	1–#4H,1–#4N	#8	1"
1002	100A, 1PH2W	1–#2H,1–#12N	#8	1"

COPPER FEEDER SCHEDULE – 3 PHASE, 3 WIRE				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
153	15A, 3PH3W	3–#12	#12	1/2"
203	20A, 3PH3W	3–#12	#12	1/2"
303	30A, 3PH3W	3–#10	#10	1/2"
403	40A, 3PH3W	3–#8	#10	3/4"
503	50A, 3PH3W	3–#8	#10	3/4"
603	60A, 3PH3W	3–#6	#10	1"
703	70A, 3PH3W	3–#4	#8	1"
803	80A, 3PH3W	3–#4	#8	1"
1003	100A, 3PH3W	3–#2	#8	1 1/4"
1253	125A, 3PH3W	3–#1	#6	1 1/2"
1503	150A, 3PH3W	3–#1/0	#6	1 1/2"
1753	175A, 3PH3W	3–#2/0	#6	2"
2003	200A, 3PH3W	3–#3/0	#6	2"
2253	225A, 3PH3W	3–#4/0	#4	2 1/2"
2503	250A, 3PH3W	3–#250K	#4	2 1/2"
3003	300A, 3PH3W	3–#350K	#4	2 1/2"
3503	350A, 3PH3W	3–#400K	#2	3"
4003	400A, 3PH3W	3–#500K	#2	3"
5003	500A, 3PH3W	6–#250K	2–#2	(2) 2 1/2"
6003	600A, 3PH3W	6–#350K	2–#1	(2) 3"
8003	800A, 3PH3W	6–#500K	2–#1/0	(2) 3"
10003	1000A, 3PH3W	9–#400K	3–#2/0	(3) 3"
12003	1200A, 3PH3W	9–#600K	3–#3/0	(3) 4"
16003	1600A, 3PH3W	12–#600K	4–#4/0	(4) 4"
20003	2000A, 3PH3W	15–#600K	5–#250K	(5) 4"

COPPER FEEDER SCHEDULE – 3 PHASE, 4 WIRE				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
154	15A, 3PH4W	4–#12	#12	1/2"
204	20A, 3PH4W	4–#12	#12	1/2"
304	30A, 3PH4W	4–#10	#10	1/2"
404	40A, 3PH4W	4–#8	#10	3/4"
504	50A, 3PH4W	4–#8	#10	1"
604	60A, 3PH4W	4–#6	#10	1"
704	70A, 3PH4W	4–#4	#8	1 1 /4"
804	80A, 3PH4W	4–#4	#8	1 1 /4"
1004	100A, 3PH4W	4–#2	#8	1 1/4"
1254	125A, 3PH4W	4–#1	#6	1 1/2"
1504	150A, 3PH4W	4–#1/0	#6	1 1/2"
1754	175A, 3PH4W	4–#2/0	#6	2"
2004	200A, 3PH4W	4–#3/0	#6	2"
2254	225A, 3PH4W	4–#4/0	#4	2 1/2"
2504	250A, 3PH4W	4–#250K	#4	2 1/2"
3004	300A, 3PH4W	4–#350K	#4	3"
3504	350A, 3PH4W	4–#400K	#2	3"
4004	400A, 3PH4W	4–#500K	#2	3"
5004	500A, 3PH4W	8–#250K	2–#2	(2) 2 1/2"
6004	600A, 3PH4W	8–#350K	2–#1	(2) 3"
8004	800A, 3PH4W	8–#500K	2–#1/0	(2) 3"
10004	1000A, 3PH4W	12–#400K	3–#2/0	(3) 3"
12004	1200A, 3PH4W	12–#600K	3–#3/0	(3) 4"
16004	1600A, 3PH4W	16–#600K	4–#4/0	(4) 4"
20004	2000A, 3PH4W	20–#600K	5–#250K	(5) 4"

COPPER FEEDER SCHEDULE – 3 PHASE, 4 WIRE W/ 200% NEUTRAL				
FEEDER No.	AMPERE	FEEDER	GROUND	CONDUIT
204K	20A, 3PH4W, 200%N	3–#12, 1–#10	#12	1/2"
304K	30A, 3PH4W, 200%N	3–#8, 1–#6	#10	3/4"
404K	40A, 3PH4W, 200%N	3–#8, 1–#4	#10	1"
504K	50A, 3PH4W, 200%N	3–#6, 1–#2	#10	1"
604K	60A, 3PH4W, 200%N	3–#4, 1–#2	#10	1 1/4"
704K	70A, 3PH4W, 200%N	3–#2, #1	#8	1 1/4"
804K	80A, 3PH4W, 200%N	3–#2, 1–#1/0	#8	1 1/4"
1004K	100A, 3PH4W, 200%N	3–#1, 1–#3/0	#8	1 1/2"
1254K	125A, 3PH4W, 200%N	3–#1/0, 1–#250K	#6	2"
1504K	150A, 3PH4W, 200%N	3–#3/0, 1–#350K	#6	2 1/2"
1754K	175A, 3PH4W, 200%N	3–#4/0, 1–#400K	#6	2 1/2"
2004K	200A, 3PH4W, 200%N	3–#250K, 1–#500K	#6	3"
2254K	225A, 3PH4W, 200%N	3–#300K, 2–#4/0	#4	3"
2504K	250A, 3PH4W, 200%N	3–#350K, 2–#250K	#4	3"
3004K	300A, 3PH4W, 200%N	3–#500K, 2–#350K	#4	4"
3504K	350A, 3PH4W, 200%N	6–#4/0, 2–#500K	2–#2	(2) 2 1/2"
4004K	400A, 3PH4W, 200%N	6–#250K, 2–#500K	2–#2	(2) 3"
5004K	500A, 3PH4W, 200%N	6–#400K, 4–#250K	2–#2	(2) 3"
6004K	600A, 3PH4W, 200%N	6–#500K, 4–#350K	2–#1	(2) 4"
8004K	800A, 3PH4W, 200%N	9–#400K,6–#350K	3–#1/0	(3) 3"
10004K	1000A, 3PH4W, 200%N	12–#400K, 8–#250K	4–#2/0	(4) 3"
12004K	1200A, 3PH4W, 200%N	12–#500K, 8–#350K	4–#3/0	(4) 4"

Notes:

1. Conductors and conduit sizes shown in schedule are based on copper conductors with THHN/THWN insulation.

2. Feeders consisting of multiple sets of conductors and conduits are to be provided with indicated size ground conductor in each conduit.

3. Feeders with designation K are for use when the majority of the load consists of nonlinear loads such as electric–discharge lighting, electronic computer/data processing, or similar equipment where harmonic currents are present in the neutral conductor.

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

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Revision	Description	Date
1	FCD 41 EDIT SCHL COORDINATION	2/27/10
2	REVISIONS PER AHJ SCOP	1/21/11
3	REVISIONS PER DSA-SS, AHJ FOR OFFICE	3/24/11
4	FCD 001 - FCD 002	03/24/10
5	DSA CO 01 Construction Set	03/24/10
6	FCD 008 - FCD 009	03/24/10
7	4TH FLR V.P. SUITES CHANGES	03/24/10
8	4TH FLR CONFERENCE RMS 401 & 421 RESIGNS - FCD 010	03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
10	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/04/08
2	50% Construction Documents	07/29/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/05/08
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHT	07/28/09
7	FCD 1314	08/05/09
8	FCD 1316	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

FEEDER SCHEDULE

E0.04

PANEL 1HL1 — LOCATION: 1ST FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
L	LTG – 1ST FLR NORTH	2496	20/1	1	2496			2	20/1			SPARE
L	LTG – 1ST FLR NORTH	1472	20/1	3		1472		4	20/1			SPARE
L	LTG – 1ST FLR NORTH	1936	20/1	5			1936	6	20/1			SPARE
L	LTG – 1ST FLR NORTH	1928	20/1	7	1928			8	20/1			SPARE
L	LTG – 1ST FLR NORTH	2486	20/1	9		2486		10	20/1			
L	LTG – 1ST FLR NORTH	2756	20/1	11			2756	12	20/1			
L	LTG – 1ST FLR NORTH	351	20/1	13	351			14				
L	LTG – 1ST FLR SOUTH	2256	20/1	15		2256		16				
L	LTG – 1ST FLR SOUTH	940	20/1	17			940	18				
L	LTG – 1ST FLR SOUTH	2435	20/1	19	2435			20				
L	LTG – 1ST FLR SOUTH	2350	20/1	21		2350		22				
L	LTG – 1ST FLR SOUTH	1974	20/1	23			1974	24				
L	LTG – 1ST FLR SOUTH	1988	20/1	25	1988			26				
L	LTG – 1ST FLR SOUTH	1376	20/1	27		1376		28				
L	LTG – 1ST FLR SOUTH	1366	20/1	29			1366	30				
L	LTG–1ST FLR EAST STAIRS	1500	20/1	31	1500			32				
	SPACE			33		0		34				
	SPACE			35			0	36				
	SPACE			37	0			38				
	SPACE			39		0		40				
	SPACE			41			0	42				
					10698	9940	8972					
					39	36	32					

SIZE:	100	GROUND:		STANDARD	NOTES:
VOLTAGE:	480 /277V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		BOTTOM	
LUGS:	M.L.O.	CONNECTED KVA PANEL		29.6	
AIC RATING:	25,000	CONNECTED AMPS PANEL		35.6	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		29.6	
		SPCL KVA LOAD (W/DMD FCTR)	65%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		35.7	

PANEL 1EHL1 — LOCATION: MAIN ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
L	3RD FLR. NORTH	2288	20/1	1	2416			2	20/1	128	L	3RD FLR. DECK–N. WEST
L	3RD FLR. DECK–EAST	128	20/1	3		668		4	20/1	540	L	3RD FLR.–NORTH
L	3RD FLR. SOUTH	1228	20/1	5			2200	6	20/1	972	L	3RD FLR.
L	3RD FLR. SOUTH	1224	20/1	7	3518			8	20/1	2294	L	2ND FLOOR–NORTH
L	4TH FLR. NORTH	2138	20/1	9		3116		10	20/1	978	L	2ND FLR WEST EXTERIOR
L	4TH FLR. NORTH	648	20/1	11			2842	12	20/1	2194	L	2ND FLR. NORTH
L	4TH FLR. SOUTH	2186	20/1	13	3050			14	20/1	864	L	2ND FLR. SOUTH–DECK
L	4TH FLR. SOUTH	540	20/1	15		1728		16	20/1	1188	L	2ND FLR. SOUTH
L	1ST FLR. NORTH	2554	20/1	17			3850	18	20/1	1296	L	2N FLR. SOUTH
L	1ST FLR. NORTH	1368	20/1	19	2274			20	20/1	906	L	STAIRS – NORTHEAST
L	1ST FLR. SOUTH	3040	20/1	21		3933		22	20/1	893	L	STAIRS – BOOKSTORE
L	1ST FLR SOUTH	1115	20/1	23			3167	24	20/1	2052	L	STAIRS – EAST
L	1ST FLR NORTH–EXIT Door	250	20/1	25	1278			26	20/1	1028	L	STAIRS – SOUTHWEST
L	1ST FLR NORTH–CANOPY	500	20/1	27		734		28	20/1	234	L	DECK–NE
L	SITE LTG	2200		29			3208	30	20/1	1008	L	EXTER. PATH EM.LTG.
	1st Floor LCP			31	834			32	20/1	834	L	EXTER. PATH EM.LTG.
	2rd Floor LCP			33		602		34	20/1	602	L	EXTER. PATH EM.LTG.
	3rd Floor LCP			35			0	36	20/1			2nd Floor South Deck
	4th Floor LCP			37	0			38	20/1			Spare
	SPACE			39		0		40	20/1			SPACE
	SPACE			41			0	42	20/1			SPACE
					13370	10781	15267					
					48	39	55					

SIZE:	100	GROUND:		STANDARD	NOTES:
VOLTAGE:	480 /277V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		BOTTOM	
LUGS:	M.L.O.	CONNECTED KVA PANEL		39.4	
AIC RATING:	25KAIC	CONNECTED AMPS PANEL		47.4	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		39.4	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		47.5	

PANEL 1LN51 — LOCATION: 1ST FLOOR FACILITIES MAINT.STOR (176)

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec–Recording B (164A)	1080	20/1P	1	2080			2	20/1P	1000	R	PLUGMOLD–STUDIOA (164)
R	Rec–Recording Ctl Rm (164B)	900	20/1P	3		1900		4	20/1P	1000	R	PLUGMOLD–STUDIOA (164)
R	Rec–Recording Ctl Rm (164B)	900	20/1P	5			1900	6	20/1P	1000	R	PLUGMOLD–STUDIOA (164)
R	Rec–StudioA (164)	1260	20/1P	7	2260			8	20/1P	1000	R	PLUGMOLD–STUDIOA (164)
R	Rec–Studio B (170)	720	20/1P	9		1720		10	20/1P	1000	R	PLUGMOLD–STUDIOA (164)
R	Rec–Studio B (170)	720	20/1P	11			2140	12	20/1P	1420	R	MOTRIZED LIFT–STUDIO A
R	Rec–Studio B (170)	1080	20/1P	13	1080			14	20/1P			SPARE
R	Rec–Studio C (174)	1080	20/1P	15		1080		16	20/1P			SPARE
R	Rec–Studio C (174)	720	20/1P	17			720	18	20/1P			SPARE
R	Rec–Studio E (177)	900	20/1P	19	900			20				
R	Rec–Studio D (175)	1080	20/1P	21		1080		22				
R	Rec–Studio D (175)	1080	20/1P	23			1080	24				
R	Rec–Studio C (173)	1080	20/1P	25	1080			26				
R	Rec–Studio C (173)	360	20/1P	27		360		28				
	ON–AIR SIGN(STUDIO A)	360	20/1P	29			360	30				
				31	0			32				
				33		0		34				
				35			0	36				
				37	0			38				
				39		0		40				
				41			0	42				
					7400	6140	6200					
					62	51	52					

SIZE:	225	GROUND:		STANDARD	NOTES: ISO GND PANEL
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		BOTTOM	
LUGS:	M.L.O.	CONNECTED KVA PANEL		19.7	
AIC RATING:	10,000	CONNECTED AMPS PANEL		54.8	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		14.7	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		0.4	
		SPCL KVA LOAD (W/DMD FCTR)	65%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL		41.8	

PANEL SEC. 1 1LN11 — LOCATION: 1ST FLOOR–NORTH ELECTRICAL ROOM #157

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec – T. Coll Off (#120E)	1500	20/1	1	3000			2	20/1	1500	JB	J–box – Auto Door Opener
R	Rec – Case Mgr Off (#120F)	1500	20/1	3		3000		4	20/1	1500	R	Rec – Wall Clock
R	Rec – At. Spec Off (#120G)	1500	20/1	5			3000	6	20/1	1500	R	Rec – Hallway (#100D)
R	Rec – Ref (#120H)	1500	20/1	7	3000			8	20/1	1500	R	Rec – CounsOff(100D–100E)
R	Rec – Braile Mach (#120H)	1500	20/1	9		3000		10	20/1	1500	R	Rec – Couns. Off (#100C)
R	Rec – H. Speed Scanner	1500	20/1	11			3000	12	20/1	1500	R	Rec – Direct. Off (#110B)
R	Rec – Copier	1500	20/1	13	3000			14	20/1	1500	R	Rec – Ref (#110A)
R	Rec – Comp Sta	1500	20/1	15		3000		16	20/1	1500	R	Rec – Coffee Mak (#110A)
R	Rec – General (#120H)	1500	20/1	17			3000	18	20/1	1500	R	Rec – Microwave (#110A)
R	Rec – Projector Scrn	1500	20/1	19	3000			20	20/1	1500	R	Rec – Work Room (#110A)
R	Rec – LCD TV Proj (#120J)	1500	20/1	21		3000		22	20/1	1500	R	Rec – Copier (#110A)
R	Rec – At Classrm (#120J)	1500	20/1	23			3000	24	20/1	1500	R	Rec – Reception (#110)
R	Rec – Printer	1500	20/1	25	3000			26	20/1	1500	R	Rec – Comp Sta (#110)
R	Rec – Braile Pringer	1500	20/1	27		3000		28	20/1	1500	R	Rec – Comp Sta (#110)
R	Rec – Study (#120S)	1500	20/1	29			3000	30	20/1	1500	R	Rec – Fops Study (#110)
R	Rec – Dir. Off (#120K)	1500	20/1	31	3000			32	20/1	1500	R	Rec – Fops Study (#110)
R	Rec – Ld Spec Off (#120L)	1500	20/1	33		3000		34	20/1	1500	R	Rec – Fops Study (#110)
R	Rec – D. Spec Off (#120M)	1500	20/1	35			3000	36	20/1	1500	R	Rec – Fops Study (#110)
R	Rec– GFC1 Exterior Wall	720	20/1	37	1720			38	20/1	1000	R	Rec – Proj Screen (#110)
R	Rec– Loading Dock	1000	20/1	39		1720		40	20/1	720	R	Rec– Electrical Room (#102)
	Spare		20/1	41			0	42	20/1			Spare
					19720	19720	18000					
					164	164	150					

SIZE:	400	GROUND:		STANDARD	NOTES: Sub–Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		TOP	
LUGS:	M.L.O.	CONNECTED KVA PANEL SEC. 1		57.4	
AIC RATING:	22,000	CONNECTED AMPS PANEL SEC. 1		159.4	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL SEC. 1		33.0	
NEUTRAL:	200%	OTHER KVA LOAD PANEL SEC. 1		0.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		91.6	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		266.3	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0–10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 1 1LN21 — LOCATION: 1ST FLOOR ELECTRICAL ROOM #157

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	Rec – Lab Asst (161A)	900	20/1	1	1100			2	20/1	200	R	Rec – Proj Scrn (185)
	Rec – Equip Bench (187)	720	20/1	3		2220		4	20/1	1500	R	Rec – LCD TV Project (185)
	Rec – Equip Bench (187)	720	20/1	5			1620	6	20/1	900	R	Rec – Study (185)
	Rec – Equip Bench (187)	720	20/1	7	2220			8	20/1	1500	R	Rec – LCD TV Project (183)
	Rec – Equip Bench (187)	720	20/1	9		920		10	20/1	200	R	Rec – Proj Scrn (183)
	Rec – Equip Chargers (187)	360	20/1	11			1260	12	20/1	900	R	Rec – Study (183)
	Rec – Equip Chargers (187)	360	20/1	13	1260			14	20/1	900	R	Rec – Study (181)
	Rec – Equip Chargers (187)	540	20/1	15		640		16	20/1	100	R	Rec – LCD TV Project (181)
	Rec – Classrm Lab (161)	540	20/1	17			2040	18	20/1	1500	R	Rec –Projector Scrn (181)
	Rec – Classrm Lab (161)	1260	20/1	19	1980			20	20/1	720	R	Rec – Fac Off (186B)
	Rec – Printer (161)	800	20/1	21		1880		22	20/1	1080	R	Rec – Fac Off (186A)
	Rec – Printer (161)	800	20/1	23			1700	24	20/1	900	R	Rec – Media Off (186)
	Rec – Printer (161)	800	20/1	25	1700			26	20/1	900	R	Rec – Lobby (100A)
	Rec – Printer (161)	800	20/1	27		2300		28	20/1	1500	R	Rec – LCD TV Scrn (100A)
	Rec – LCD TV Project (160)	1500	20/1	29			3000	30	20/1	1500	R	Rec – LCD TV Scrn (100A)
	Spare		20/1	31	1080			32	20/1	1080	R	Rec – Fac Off (186C)
	Spare		20/1	33		1080		34	20/1	1080	R	Rec – Fac Off (186D)
	Rec – LCD TV Project (163)	1500	20/1	35			2220	36	20/1	720	R	Rec – Fac Off (186D)
	Rec – Show Go Lab (163)	720	20/1	37	1220			38	20/1	500		CP–1
	Rec – Show Go Lab (163)	1260	20/1	39		1760		40	20/1	500		CP–2
	FSD'S–1ST FLR	800	20/1	41			800	42	20/1			Spare
					10560	10800	12640					
					88	90	105					

SIZE:	225	GROUND:		STANDARD	NOTES: Sub–Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		TOP	
LUGS:	M.L.O.	CONNECTED KVA PANEL SEC. 1		34.0	
AIC RATING:	22,000	CONNECTED AMPS PANEL SEC. 1		94.4	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL SEC. 1		13.6	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		16.8	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL SEC. 1		84.5	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		153.0	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0–10 KVA @100%, ABOVE 10 KVA @50%

PANEL 1LN41 — LOCATION: 1ST FLOOR REPROGRAPHICS STORE

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec – Enterprise (190)	720	20/1	1	720			2				SPACE
R	Rec – Copier (190)	1000	20/1	3		1000		4				SPACE
R	Rec – Copier (190)	1000	20/1	5			1000	6				SPACE
R	Rec – Copier (190)	1000	20/1	7	1000			8				SPACE
R	Rec – Copier (190)	1000	20/1	9		1000		10				SPACE
R	Rec – Copier (190)	1000	20/1	11			1000	12				SPACE
R	Rec – Copier (190)	1000	20/1	13	1000			14				SPACE
R	Rec – Copier (190)	1000	20/1	15		1000		16				SPACE
R	Rec – Copier (190)	1000	20/1	17			1000	18				SPACE
R	Rec – Copier (190)	1000	20/1	19	1000			20				SPACE
R	Rec – Copier (190)	1000	20/1	21		1000		22				SPACE
R	Rec – Copier (190)	1000	20/1	23			1000	24				SPACE
	SPARE		20/1	25	0			26				SPACE
	SPARE		20/1	27		0		28				SPACE
	SPARE		20/1	29			0	30				SPACE
	SPARE		20/1	31	0			32				SPACE
	SPARE		20/1	33		0		34				SPACE
	SPARE		20/1	35			0	36				SPACE
	SPARE		20/1	37	0			38				SPACE
	SPARE		20/1	39		0		40				SPACE
	SPARE		20/1	41			0	42				SPACE
					3720	4000	4000					
					31	33	33					

SIZE:	100	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		BOTTOM	
LUGS:	M.L.O.	CONNECTED KVA PANEL		11.7	
AIC RATING:	10,000	CONNECTED AMPS PANEL		32.5	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		10.9	
NEUTRAL:	200%	OTHER KVA LOAD PANEL		0.0	
		SPCL KVA LOAD (W/DMD FCTR)	65%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		30.2	

PANEL SEC. 2 1LN12 — LOCATION: 1ST FLOOR ELECTRICAL ROOM #157

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec – D/R–Couns Off (120P)	1500	20/1	43	3000			44	20/1	1500	R	Rec – Loading Dock Leveler
R	Rec – D/R–Couns Off (120N)	1500	20/1	45		3000		46	20/1	1500	R	Rec – Cart Charger
R	Rec – Hall (#120,100B–C)	1500	20/1	47			3000	48	20/1	1500	R	Rec – Cart Wash
R	Rec – Work Sta (#120)	1500	20/1	49	3000			50	20/1	1500	R	Rec – Printer (#112)
R	Rec – Work Sta (#120)	1500	20/1	51		3000		52	20/1	1500	R	Rec – Comp Sta (#112)
R	Rec – Copier (#120)	1500	20/1	53			3000	54	20/1	1500	R	Rec – Copier (#112)
R	Rec – Comp Sta (#120U)	1500	20/1	55	1500			56	20/1		R	Spare
R	Rec – Comp Sta (#120T)	1500	20/1	57		2220		58	20/1	720	R	Rec – OPEN OFFICE (#158)
R	Rec – Comp Sta (#120U)	1500	20/1	59			3300	60	20/1	1800	R	Rec – OPEN OFFICE (#158)
R	Rec – Comp Sta (#120)	1500	20/1	61	2580			62	20/1	1080	R	Rec – OPEN OFFICE (#158)
R	Rec – Printer (#120)	1500	20/1	63		2400		64	20/1	900	R	Rec – OPEN OFFICE (#158)
R	Rec – Testing (#120B,C,D)	1500	20/1	65			3000	66	20/1	1500	R	Rec – Elect Rm (#157)
R	Rec – Multi Couns (#112B)	1500	20/1	67	3000			68	20/1	1500	R	Rec – Room (#155)
R	Rec – Multi Couns (#112C,C)	1500	20/1	69		1500		70	20/1			SPARE
R	Rec – Comp Sta (#112)	1500	20/1	71			3000	72	20/1	1500	JB	Jbox – Elevator Pit #1
R	Rec – Calwork Off (#112A)	1500	20/1	73	3000			74	20/1	1500	R	Rec – Room (#156)
R	Rec – Multi Cult Ctr (#112)	1500	20/1	75		1500		76	20/1			SPARE
	Spare		20/1	77			800	78	20/1	800	JB	Jbox – Elevator Pit #2
	FSD – (1st Flr)	800	20/1	79	5800			80	100A	5,000		
	Spare		20/1	81		5000		82	––	5,000		PANEL '1LN13'
	Spare		20/1	83			5000	84	3P	5,000		
					21880	18620	21100					
					182	155	175					

SIZE:	400	GROUND:		STANDARD	NOTES: Sub–Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		TOP	
LUGS:	M.L.O.	CONNECTED KVA:		61.6	
AIC RATING:	22000	CONNECTED AMPS:		171.0	
BUS:	COPPER	RECEPTACLE KVA LOAD		26.8	
NEUTRAL:	200%	OTHER KVA LOAD		36.1	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	228	LOAD (AMPS) PANEL SEC.2		174.7	

PANEL SEC. 2 1LN22 — LOCATION: 1ST FLOOR ELECTRICAL ROOM #157

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec – OPEN OFF (159)	720	20/1	43	1800			44	20/1	1080	R	Rec – F Off (186E)
R	Rec – OPEN OFF (159)	720	20/1	45		1800		46	20/1	1080	R	Rec – F Off (186F)
R	Rec – OPEN OFF (159)	900	20/1	47			1620	48	20/1	720	R	Rec – F Off (186G)
R	Rec – Bldg Storage (159)	360	20/1	49	1800			50	20/1	1440	R	Rec – Showgo Lab (182)
	Elevator #1 Cab LTS		20/1	51		1440		52	20/1	1440	R	Rec – Showgo Lab (182)
	Elevator #2 Cab LTS		20/1	53			1500	54	20/1	1500	R	Rec – LCD/Projector (182)
	SPARE		20/1	55	200			56	20/1	200	R	Rec – Projector Scrn (182)
	SPARE		20/1	57		200		58	20/1	200	JB	J–box – Vonduprin
R	Rec – Showgo (182)		20/1	59			1500	60	20/1	1500	JB	Rec–LCD TV SCREEN(100A)
R	Rec – Elevator Machine Rm		20/1	61	1000			62	20/1	1000		J–box – Auto–open
R	Rec – Computer Station 160	540	20/1	63		740		64	20/1	200	JB	J–box – Vonduprin
R	Rec – Pre Prod (160)	1260	20/1	65			2060	66	20/1	800	R	Rec – A/V Server (187)
R	Rec – Pre Prod (160)	900	20/1	67	900			68	20/1			Clock – !st Floor
	Spare		20/1	69		0		70	20/1			1st Floor BMS
R	Rec – LCD TV Project (160)	1500	20/1	71			1500	72	20/1			1St Floor FA
R	Rec – Comp Sta (160)	720	20/1	73	720			74	20/1			Spare
R	Rec – Comp Sta (160)	720	20/1	75		720		76	20/1			Spare
R	Rec – Hallway (100H)	360	20/1	77			360	78	20/1			Spare
	Spare		20/1	79	0			80	20A			
	Spare		20/1	81		0		82	–			Compactor
	Spare		20/1	83			0	84	3P			
					6420	4900	8540					
					53	41	71					

SIZE:	225	GROUND:		STANDARD	NOTES: Sub–Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA:		19.9	
AIC RATING:	22000	CONNECTED AMPS:		55.1	
BUS:	COPPER	RECEPTACLE KVA LOAD		13.5	
NEUTRAL:	100%	OTHER KVA LOAD		11.2	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	95	LOAD (AMPS) PANEL SEC.2		68.5	

PANEL SEC. 1 1LN61 — LOCATION: 1ST FLOOR FACILITIES MAINTENANCE STOR. (176)

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec – Classrm (191)	720	20/1	1	1800			2	20/1	1080	R	Rec – Classrm (193)
R	Rec – LCD Projector (191)	1500	20/1	3		1700		4	20/1	200	R	Rec – Proj Scrn (193)
R	Rec – Classrm (191)	720	20/1	5			2220	6	20/1	1500	R	Rec – LCD/Projector (193)
	Spare		20/1	7	1500			8	20/1	1500	R	Rec – Classrm (193)
	Spare		20/1	9		1080		10	20/1	1080	R	Rec – Classrm (193)
	Spare		20/1	11			1080	12	20/1	1080	R	Rec – Classrm (193)
	Spare		20/1	13	1080			14	20/1	1080	R	Rec – Classrm (193)
	Spare		20/1	15		1080		16	20/1	1080	R	Rec – Classrm (193)
	Spare		20/1	17			1080	18	20/1	1080	R	Rec – Classrm (193)
R	Rec – LCD Projector (192)	1500	20/1	19	1500			20	20/1			Spare
R	Rec – Classrm (192)	720	20/1	21		1980		22	20/1	1260	R	Rec – Classrm (194)
R	Rec – EXTERIOR–GFI	720	20/1	23			920	24	20/1	200	R	Rec – Proj Scrn (194)
R	Rec – Classrm (192)	720	20/1	25	2220			26	20/1	1500	R	Rec – LCD/Projector (194)
R	Rec – Classrm (192)	720	20/1	27		720		28	20/1			Spare
R	Rec – Classrm (192)	720	20/1	29			720	30	20/1			Spare
R	Rec – Off (180A)	720	20/1	31	1800			32	20/1	1080	R	Rec – Classrm (194)
R	Rec – Editor (180B)	1080	20/1	33		2160		34	20/1	1080	R	Rec – Classrm (194)
R	Rec – News Rm (180)	1080	20/1	35			2160	36	20/1	1080	R	Rec – Classrm (194)
R	Rec – News Rm (180)	540	20/1	37	1620			38	20/1	1080	R	Rec – Classrm (194)
R	Rec – News Rm (180)	540	20/1	39		1620		40	20/1	1080	R	Rec – Classrm (194)
R	Rec – Hallway (100G)	540	20/1	41			1620	42	20/1	1080	R	Rec – Classrm (194)
					11520	10340	9800					
					96	86	82					

SIZE:	225	GROUND:		STANDARD	NOTES: Sub–Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		TOP	
LUGS:	M.L.O.	CONNECTED KVA PANEL SEC. 1		31.7	
AIC RATING:	22,000	CONNECTED AMPS PANEL SEC. 1		87.9	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL SEC. 1		20.8	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		0.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL SEC. 1		57.9	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		116.6	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0–10 KVA @100%, ABOVE 10 KVA @50%

PANEL 1LN13 — LOCATION: 1ST FLOOR IDF ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	REC–DATA RACK(MDF)	500	20/1P	1	1000			2	20/1P	500	R	REC–DATA RACK(MDF)
R	REC–DATA RACK(MDF)	500	20/1P	3		1000		4	20/1P	500	R	REC–DATA RACK(MDF)
R	REC–DATA RACK(MDF)	500	20/1P	5			1000	6	20/1P	500	R	REC–DATA RACK(MDF)
R	REC–DATA RACK(MDF)	500	20/1P	7	1000			8	20/1P	500	R	REC–DATA RACK(MDF)
R	REC–DATA RACK(MDF)	500	20/1P	9		1000		10	20/1P	500	R	REC–DATA RACK(MDF)
R	REC–DATA RACK(MDF)	500	20/1P	11			1000	12	20/1P	500	R	REC–DATA RACK(MDF)
R	REC–DATA RACK(MDF)	500	20/1P	13	1000			14	20/1P	500	R	REC–DATA RACK(MDF)
R	REC–DATA RACK(MDF)	500	20/1P	15		1000		16	20/1P	500	R	REC–DATA RACK(MDF)
R	REC–DATA RACK(MDF)	500	20/1P	17			1000	18	20/1P	500	R	REC–DATA RACK(MDF)
				19	0			20				
				21		0		22				
				23			0	24				
				25	0			26				
				27		0		28				
				29			0	30				
				31	0			32				
				33		0		34				
				35			0	36				
				37	0			38				
				39		0		40				
				41			0	42				
					3000	3000	3000					
					25	25	25					

SIZE:	100	GROUND:		STANDARD	NOTES:
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		BOTTOM	
LUGS:	M.L.O.	CONNECTED KVA PANEL		9.0	
AIC RATING:	22,000	CONNECTED AMPS PANEL		25.0	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.1	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		0.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		0.3	

PANEL 1HPL1 (Future) — LOCATION: MAIN ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	SPARE		20/1	1	0			2	20/1			SPARE
	SPARE		20/1	3		0		4	20/1			SPARE
	SPARE		20/1	5			0	6	20/1			SPARE
	SPARE		20/1	7	0			8	20/1			SPARE
	SPARE		20/1	9		0		10	20/1			SPARE
	SPARE		20/1	11			0	12	20/1			SPARE
	SPACE			13	0			14				SPACE
	SPACE			15		0		16				SPACE
	SPACE			17			0	18				SPACE
	SPACE			19	0			20				SPACE
	SPACE			21		0		22				SPACE
	SPACE			23			0	24				SPACE
	SPACE			25	0			26				SPACE
	SPACE			27		0		28				SPACE
	SPACE			29			0	30				SPACE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					0	0	0					
					0	0	0					

SIZE:	100	GROUND:		STANDARD	NOTES:
VOLTAGE:	480 /277V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		BOTOM	
LUGS:	100A/3P M.C.B.	CONNECTED KVA PANEL		0.0	
AIC RATING:	22,000	CONNECTED AMPS PANEL		0.0	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		0.0	
		SPCL KVA LOAD (W/DMD FCTR)	65%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		0.0	

PANEL SEC. 2 1LN62 — LOCATION: 1ST FLOOR FACILITIES MAINTENANCE STOR.(176)

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	Jbox – Von Duprin (South)	720	20/1	43	1980			44	20/1	1260	R	Rec – Classrm (195)
	Jbox–ADA Auto–open (South)	720	20/1	45		920		46	20/1	200	R	Rec – Proj Scrn (195)
	Spare		20/1	47			1500	48	20/1	1500	R	Rec – Projector (195)
	FSD's – 1st Floor	800	20/1	49	1880			50	20/1	1080	R	Rec – Classrm (195)
	Spare		20/1	51		1080		52	20/1	1080	R	Rec – Classrm (195)
	Spare		20/1	53			1080	54	20/1	1080	R	Rec – Classrm (195)
R	Rec – Rm 187		20/1	55	1080			56	20/1	1080	R	Rec – Classrm (195)
R	Rec – Rm 187		20/1	57		1080		58	20/1	1080	R	Rec – Classrm (195)
R	Rec – Rm 187		20/1	59			1080	60	20/1	1080	R	Rec – Classrm (195)
R	Rec – Rm 187		20/1	61	0			62	20/1			Spare
R	Rec – Rm 187		20/1	63		0		64	20/1			Spare
R	Rec – Rm 187		20/1	65			0	66	20/1			Spare
	Spare		20/1	67	0			68	20/1			Spare
	Spare		20/1	69		0		70	20/1			Spare
	Spare		20/1	71			0	72	20/1			Spare
	Spare		20/1	73	0			74	20/1			Spare
	Spare		20/1	75		0		76	20/1			Spare
	Spare		20/1	77			0	78	20/1			Spare
	Spare		20/1	79	0			80	20/1			Spare
	Spare		20/1	81		0		82	20/1			Spare
	Spare		20/1	83			0	84	20/1			Spare
					4940	3080	3660					
					41	26	30					

SIZE:	225	GROUND:		STANDARD	NOTES: Sub–Feed Lugs Panelboard
VOLTAGE:	208 /120V	MOUNTING:		SURFACE	
PHASE:	3	ENCLOSURE:		NEMA 1	
WIRE:	4	FEED:		TOP	
LUGS:	M.L.O.	CONNECTED KVA:		11.7	
AIC RATING:	22000	CONNECTED AMPS:		32.4	
BUS:	COPPER	RECEPTACLE KVA LOAD		9.4	
NEUTRAL:	100%	OTHER KVA LOAD		11.7	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	122	LOAD (AMPS) PANEL SEC.2		58.7	

1HL1	1EHL1	1LN51
1LN11/	1LN21/	1LN41
1LN12	1LN22	1LN61/ 1LN62
1LN13	1HPL1	

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REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
ROSENDIN ELECTRIC
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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
8	FCD 41 EXIT SIGN COORDINATION	07/27/10
8A	PROVIDE ON AIR SIGN - FCD 041	12/14/09
11	2ND FLR LEARNING CENTER & STORE-FRONT WINDOW WALL AT 4T FLR OFFICE - FCD 023	03/24/10
2	DSA CO 01 Conformed Set	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
5	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
6	4TH FLR CONFERENCE RMS 401 & 431 REVISIONS - FCD 040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	06/09/08
	50% Construction Documents	07/29/08
	DSA Submittal	09/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHT	07/28/09
2	FCD 014	08/05/09
3	FCD 016	09/15/09
7	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

PANEL SCHEDULE

E0.05A

PANEL 2HL1 — LOCATION: 2ND FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
L	S.E. STUDY	2212	20/1	1	3184			2	20/1	972	L	PERIMETER WINDOWS
L	SOUTH STUDY	2226	20/1	3		4302		4	20/1	2076	L	BOOKSTORE
L	S.W. STUDY, LOBBY	3744	20/1	5			6128	6	20/1	2384	L	LOBBY
L	STUDY OFF/WRKRM	2668	20/1	7	6448			8	20/1	3780	L	SERVERY
L	TUTOR RMS.	3250	20/1	9		4330		10	20/1	1080	L	EVENT 200B
	SPARE		20/1	11			2861	12	20/1	2861	L	OFFICES, KITCHEN
K		5456	30	13	14458			14	50	9002	K	
K	DISHMACHINE 18	5456	–	15		14458		16	–	9002	K	BOOSTER HEATER
K		5456	3P	17			14458	18	3P	9002	K	
L	STUDY RMS, DINING	1911	20/1	19	2775			20	20/1	864	L	LTG–EAST Perimeter Wind.
L	LTG–2nd FLR–South Deck	288	20/1	21		288		22				SPACE
L	LTG–2nd FLR–South Deck	416	20/1	23			416	24				SPACE
	SPACE			25	0			26				SPACE
	SPACE			27		0		28				SPACE
	SPACE			29			0	30				SPACE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					26865	23378	23863					
					97	84	86					

SIZE:	100	GROUND:	STANDARD		NOTES:
VOLTAGE:	480 /277V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA PANEL		74.1	
AIC RATING:	25,000	CONNECTED AMPS PANEL		89.1	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		30.7	
		SPCL KVA LOAD (W/DMD FCTR)	65%	28.2	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		71.0	

PANEL SEC. 1 2LN11 — LOCATION: 2ND FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec – Lobby (200)	180	20/1	1	1980			2	20/1	1800	R	Rec – Study (220N)
R	Rec – Gen Lobby (200)	720	20/1	3		2520		4	20/1	1800	R	Rec – Study (220M)
R	Rec – Ambassador Sta (200)	720	20/1	5			1520	6	20/1	800	R	Rec – MechoShade(220L)
R	Rec – Ext. walls (West)	360	20/1	7	2160			8	20/1	1800	R	Rec – Comp Lab (220L)
R	Rec – ELEC RM(214)	360	20/1	9		2160		10	20/1	1800	R	Rec – Comp Lab (220L)
R	Rec – FA Power	360	20/1	11			1160	12	20/1	800	R	MechoShade (220K)
	Spare		20/1	13	1260			14	20/1	1260	R	Rec – Comp Lab (220L)
	Spare		20/1	15		900		16	20/1	900	R	Rec – Student Study(220K)
	J–box Hand dryer (212)	1700	20/1	17			2500	18	20/1	800	R	MechoShade (220K)
R	Rec – Mens Room (212)	800	20/1	19	2600			20	20/1	1800	R	Rec – Student Study(220J)
	J–box Hand dryer (210)	1700	20/1	21		2780		22	20/1	1080	R	Rec – Study (220M)OFF(220H)
R	Rec – Womens Rom (210)	800	20/1	23			2600	24	20/1	1800	R	Rec – Study (220)
R	Rec – Vending Mach (206)	800	20/1	25	1520			26	20/1	720	R	Rec – Study (220F,220A)
R	Rec – Vending Mach (206)	800	20/1	27		1520		28	20/1	720	R	Rec – Learning Ctr (220G)
R	Rec – Vending Mach (206)	800	20/1	29			1160	30	20/1	360	R	Rec – Info (220)
R	Rec – Vending Mach (206)	800	20/1	31	1160			32	20/1	360	R	Rec – Reception (220)
R	Rec – Vending Mach (206)	800	20/1	33		1120		34	20/1	320	R	Rec – DINING (220A)
R	Rec – Gen Hallway (200C)	1260	20/1	35			1980	36	20/1	720	R	Rec – DINING (220A)
R		4940	100	37	6020			38	20/1	1080	R	Rec – Workroom (220B)
R	Panel '2LN13' (2nd IDF Rm)	3680	–	39		4680		40	20/1	1000	R	Rec – Ref (220G)
R		1440	3P	41			2440	42	20/1	1000	R	Rec – Copier (220H)
					16700	15680	13360					
					139	130	111					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub–Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA PANEL SEC. 1		45.7	
AIC RATING:	22,000	CONNECTED AMPS PANEL SEC. 1		127.0	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL SEC. 1		26.2	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		3.4	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		82.2	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		232.2	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0–10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 2LN12 — LOCATION: 2ND FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec – Dining (200A)	900	20/1	43	5900			44	100	5000		
R	Rec – Dining (200A)	720	20/1	45		5720		46	–	5000		Panel '2LN14' (2nd Elect. Rm)
R	Rec – Dining (200A)	1440	20/1	47			6440	48	3P	5000		
R	Rec – Dining (200A)	720	20/1	49	1440			50	20/1	720	R	Rec – Workroom (220A)
	Von Duprin	1260	20/1	51		2340		52	20/1	1080	R	Rec – Breakrm (220A)
R	Rec – Mecho Shade (200A)	720	20/1	53			1440	54	20/1	720	R	Rec – Drop–In Tutor(220A)
R	Rec – Dining (200A)	1620	20/1	55	2340			56	20/1	720	R	Rec – Drop–In Tutor(220A)
R	Rec – Projector (200B)	1500	20/1	57		2940		58	20/1	1440	R	Rec – Drop–In Tutor(220A)
R	Rec – Proj Scrn (200B)	800	20/1	59			2240	60	20/1	1440	R	Rec – Drop–In Tutor(220A)
R	Rec – St Dining Deck (200F)	1080	20/1	61	2520			62	20/1	1440	R	Rec – Study (220A)
JB	Jbox – Heaters – Din – Deck	1500	20/1	63		2300		64	20/1	800	R	Rec – Mecho Shade
JB	Jbox – Heaters – Din – Deck	1500	20/1	65			2300	66	20/1	800	R	MechoShade
JB	Jbox – Heaters – Din – Deck	1500	20/1	67	2940			68	20/1	1440	R	Rec – Drop–in Tutor (220A)
JB	Jbox – Heaters – Din – Deck	1500	20/1	69		1500		70	20/1			Spare
JB	Jbox – Heaters – Din – Deck	1500	20/1	71			1500	72	20/1			Spare
JB	Jbox – Heaters – Din – Deck	1500	20/1	73	2550			74	20/1	1050	L	Servery Track Ltg.
R	MechoShade	800	20/1	75		2600		76	20/1	1800	L	Bookstore Track Ltg.
	Spare		20/1	77			1800	78	20/1	1800	L	Bookstore Track Ltg.
R	Rec – (220 E,F,)	1080	20/1	79	2880			80	20/1	1800	L	Bookstore Track Ltg.
R	Rec – (220 C,D)	1080	20/1	81		2880		82	20/1	1800	L	Bookstore Track Ltg.
R	Rec – (220 B,C)	1080	20/1	83			2880	84	20/1	1800	L	Bookstore Track Ltg.
					20570	20280	18600					
					171	169	155					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub–Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA:		59.5	
AIC RATING:	22000	CONNECTED AMPS:		165.0	
BUS:	COPPER	RECEPTACLE KVA LOAD		17.1	
NEUTRAL:	100%	OTHER KVA LOAD		36.9	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	238	LOAD (AMPS) PANEL SEC.2		150.0	

PANEL 2LN13 — LOCATION: 2ND FLOOR IDF ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec–Data Rack(2nd IDFRm)	500	20/1	1	1000			2	20/1	500	R	Rec–Data Rack(2nd IDFRm)
R	Rec–Data Rack(2nd IDFRm)	500	20/1	3		1000		4	20/1	500	R	Rec–Data Rack(2nd IDFRm)
R	Rec–Data Rack(2nd IDFRm)	500	20/1	5			1000	6	20/1	500	R	Rec–Data Rack(2nd IDFRm)
R	Rec–Data Rack(2nd IDFRm)	500	20/1	7	1000			8	20/1	500	R	Rec–Data Rack(2nd IDFRm)
R	Rec–Data Rack(2nd IDFRm)	500	20/1	9		1000		10	20/1	500	R	Rec–Data Rack(2nd IDFRm)
R	Rec–Data Rack(2nd IDFRm)	500	20/1	11			1000	12	20/1	500	R	Rec–Data Rack(2nd IDFRm)
R	Rec–Data Rack(2nd IDFRm)	500	20/1	13	500			14	20/1			SPARE
R	Rec–Data Rack(2nd IDFRm)	500	20/1	15		500		16	20/1			SPARE
R	Rec–Data Rack(2nd IDFRm)	500	20/1	17			500	18	20/1			SPARE
	SPACE			19	0			20				SPACE
	SPACE			21		0		22				SPACE
	SPACE			23			0	24				SPACE
	SPACE			25	0			26				SPACE
	SPACE			27		0		28				SPACE
	SPACE			29			0	30				SPACE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					2500	2500	2500					
					21	21	21					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		* Fed from 2LN32
PHASE:	3	ENCLOSURE:	NEMA 1		Main Circuit Breaker with
WIRE:	4	FEED:	TOP		Shunt Trip
LUGS:	225A/3P M.C.B. *	CONNECTED KVA PANEL		7.5	** CIRCUIT BREAKER
AIC RATING:	22,000	CONNECTED AMPS PANEL		20.8	PROVIDED WITH
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.1	SHUNT TRIP
NEUTRAL:	100%	OTHER KVA LOAD PANEL		0.0	
		SPCL KVA LOAD (W/DMD FCTR)	65%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL		0.3	

PANEL 2LN32 — LOCATION: 2ND FLOOR KITCHEN

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
K		1236	20	1	1776			2	20/1	540	K	U/C Frig. 118
K	Hot Food Well 156	1236	--	3		3036		4	20	1800	K	Totilla Steamer 119
K		1236	3P	5			3036	6	2P	1800	K	
R	Trash Cleaning, rm #205A	360	20/1	7	720			8	20/1	360	K	Evap. Coil 91
R	Work Counter w/ Hand Sink	180	20/1	9		680		10	20	500	K	Food Warmer 121
K	Frig. Pan Rail 91,91,92	1320	20/1	11			1820	12	2P	500	K	
K	Service Counter 94	180	20/1	13	960			14	20	780	K	Drawer Warmer 122
L	Heat Lamp 170	250	20/1	15		1030		16	2P	780	K	
I	Sneeze Guard w/ ltgs	200	20/1	17			380	18	20	180	R	Rec. Back Counter 132
K	Hot Food Well 155	516	20	19	696			20	2P	180	R	
K		516	2P	21		876		22	20/1	360	R	2 Rec. Back Counter 132
K	Frig. Base 152,153,154	1500	20/1	23			3420	24	30	1920	K	Pannini Grill 138
K	Conveyor Toaster 133	2364	30	25	4284			26	2P	1920	K	
K		2364	2P	27		2364		28				Space
L	U/C Frig. 135	720	20/1	29			720	30				Space
K	Scrap Collector 15	660	15	31	14280			32	225	13620	0	
K		660	--	33		16624		34	--	15964	0	Panel '2LN34'
K		660	3P	35			14476	36	3P	13816	0	
0		10634	225*	37	18938			38	225	8304	0	
0	Panel '2LN31'	10060	--	39		20220		40	--	10160	0	Panel '2LN33'
0		11600	3P	41			21200	42	3P	9600	0	
					41654	44830	45052					
					346	373	375					

SIZE:	600	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	FLUSH		* Shunt trip Breaker
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O	CONNECTED KVA PANEL		131.5	
AIC RATING:	22,000	CONNECTED AMPS PANEL		365.1	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.1	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		104.9	
		SPCL KVA LOAD (W/DMD FCTR)	65%	16.5	
MAX. ALLOWED AMPS	480	LOAD (AMPS) PANEL		337.7	

PANEL 2LN33 — LOCATION: 2ND FLOOR KITCHEN

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
K	Holding Cabinet 51	1440	20/1	1	1920			2	20/1	480	K	Evaporator Coil 66
K	Holding Cabinet 51	1440	20/1	3		3940		4	30	2500	K	Coil & Compressor 70
K	Soda System 30	864	20/1	5			3364	6	2P	2500	K	Coil & Compressor 70
R	Office Funiture 82	360	20/1	7	860			8	20/1	500	K	Coil & Compressor 70
R	Restrooms(205F)	360	20/1	9		860		10	20/1	500	K	Coil & Compressor 70
R	REC–SERVERY(205)	1620	20/1	11			2120	12	20/1	500	K	Coil & Compressor 70
R	REC–SERVERY(205)	900	20/1	13	1100			14	20/1	200	K	Lgts–Bev. Cooler 69, 73
R	Theft monitoring Device	500	20/1	15		980		16	20/1	480	K	Evaporator Coil 74
	Space			17			0	18				Space
K	Refri.display (129)	2000	30	19	4000			20	30	2000	K	Refri–display 129
K		2000	2P	21		4000		22	2P	2000	K	
	Space			23			960	24	20/1	960	K	20QT Mixer 64
K	Drop–in Ice Cre. Freezer173	324	20/1	25	624			26	20/1	300	K	Slicer 62
K	Mobile WorkTable 44	360	20/1	27		720		28	20/1	360	K	Rec–Prep.SinkAssembly 58
	Roll–up Door 205AA			29			400	30	20/1	400	K	Light–Cooler 65
	Roll–up Door 205BB			31	180			32	20	180	K	Rec–Prep.SinkAssembly 58
K	Food Processor 55	1500	20/1	33		1680		34	2P	180	K	
K	Prep. Sink Assembly 46	500	20	35			2580	36	25	2080	K	Ice Machine
K		500	2P	37	2580			38	2P	2080	K	
K	Rec–Prep.SinkAssembly 46	360	20/1	39		2440		40	25	2080	K	Ice Machine
K	Salad Dryer 48	696	20/1	41			2776	42	2P	2080	K	
					11264	14620	12200					
					94	122	101					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	FLUSH		Fed from 2LN32
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:	BOTTOM		
LUGS:	M.L.O	CONNECTED KVA PANEL		38.1	
AIC RATING:	22,000	CONNECTED AMPS PANEL		105.7	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.1	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		0.0	
		SPCL KVA LOAD (W/DMD FCTR)	65%	22.3	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL		62.4	

PANEL 2LN34 — LOCATION: 2ND FLOOR KITCHEN

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
K	Frig. Display Case 165	1500	30	1	3144			2	20	1644	K	Pizza Display 101
K		1500	–	3		3144		4	2P	1644	K	
K		1500	3P	5			3144	6	20/1	1644	K	Pizza Display 101
K	Coffee Brewer 182	2000	30	7	3800			8	20/1	1800	K	Refrig. Merchandize 100
K		2000	2P	9		3200		10	20/1	1200	K	Drop–in Heated Shelf 95
K	Coffee Brewer 182	2000	30	11			2516	12	20	516	K	Hot Food Well 112
K		2000	2P	13	2516			14	2P	516	K	
K	REC–181	1440	20/1	15		1940		16	20/1	500	K	Heat Lamp 96
K	Juice Dispenser 177	1440	20/1	17			2280	18	20/1	840	K	Frig. Base 115,116,117
K	Beverage Counter 176	360	20/1	19	1596			20	20	1236	K	Hot Food Well 114
K	Ice &Soda Dispenser 179	600	20/1	21		1836		22	--	1236	K	
K	Hot Beverage Dispenser180	1440	20/1	23			2676	24	3P	1236	K	
R	Tea Dispenser 128	180	20/1	25	540			26	20/1	360	K	2 Rec–Cashier Stand 171
K	Soup & Chili Well 127	360	20	27		860		28	20/1	500	K	Rec–POS Station172
K		360	2P	29			860	30	20/1	500	K	Rec–POS Station172
L	Sneeze Guard w/ ltgs 125	360	20/1	31	684			32	20/1	324	K	Drop–in Ice Cream Freezer 173
K	Soup & Chili Well 127	360	20	33		684		34	20/1	324	K	Drop–in Ice Cream Freezer 173
K		360	2P	35			560	36	20/1	200	L	Sneeze Guard w/ lgts 113
	Spare		40	37	0			38				Space
	Spare		2P	39		0		40				Space
	Shunt Trip	360	20/1	41			360	42				Space
					12280	11664	12396					
					102	97	103					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	FLUSH		Fed from 2LN32
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:	BOTTOM		
LUGS:	M.L.O	CONNECTED KVA PANEL		36.3	
AIC RATING:	22,000	CONNECTED AMPS PANEL		100.9	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.1	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		0.9	
		SPCL KVA LOAD (W/DMD FCTR)	65%	22.9	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL		66.5	

PANEL 2LN31 — LOCATION: 2ND FLOOR KITCHEN

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
K	Hot Food Well 112	516	20	1	876			2	20/1	360	K	Fryer 143
K		516	2P	3		2100		4	20/1	1584	K	Evap. Coil 147
K	Induction Burner 111	1680	20	5			2760	6	20/1	1080	K	Convection Oven 37
K		1680	2P	7	2760			8	20/1	1080	K	Convection Oven 37
K	Induction Burner 111	1680	20	9		2400		10	20/1	720	K	Kettle 40,Braise 39
K		1680	2P	11			2180	12	20/1	500	L	Hood 32
L	Sneeze guard w/ ltgs 113	200	20/1	13	1000			14	20/1	800	L	Hood 141
K	Induction Burner 111	1680	20	15		1680		16	20/1			Spare
K		1680	2	17			2460	18	20/1	780	K	Frig. Base 109, 110
K	Induction Burner 111	1680	20	19	2460			20	20/1	780	K	Frig. Base 146, 149
K		1680	2	21		1880		22	20/1	200	L	Sneeze Guard w/ ltgs 144
K	Hot Food Well 112	516	20	23			2112	24	20/1	1596	K	Fryer 52
K		516	2	25	1266			26	20/1	750	K	Fry Dump station 53
K	Pasta 107	960	20/1	27		1140		28	20/1	180	R	Vantilation Control 219
L	Hood Lts 102	600	20/1	29			1000	30	20/1	400	M	EF–4
K	U/C Heated Cabinet 88	1692	20/1	31	1692			32	20/1			Spare
R	Rec.Pizza Prep. Counter 87	180	20/1	33		180		34				Space
K	Pizza Oven 84	132	20/1	35			132	36				Space
R	Fire System 35	180	20/1	37	180			38				Space
K	Frig. Base 98, 99	680	20/1	39		680		40				Space
R	Fire System 105	180	20/1	41			180	42				Space
					10234	10060	10824					
					85	84	90					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	FLUSH		* Fed from 2LN32
PHASE:	3	ENCLOSURE:	NEMA 1		Main Circuit Breaker with
WIRE:	4	FEED:	BOTTOM		Shunt Trip
LUGS:	225A/3P M.C.B. *	CONNECTED KVA PANEL		31.1	** CIRCUIT BREAKER
AIC RATING:	22,000	CONNECTED AMPS PANEL		86.4	PROVIDED WITH
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.1	SHUNT TRIP
NEUTRAL:	100%	OTHER KVA LOAD PANEL		2.7	
		SPCL KVA LOAD (W/DMD FCTR)	65%	18.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL		57.9	

PANEL SEC. 1 2LN41 — LOCATION: 1ST FLOOR BOOKSTORE

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec – Mgr Office (202B)	1080	20/1	1	1440			2	20/1	360	R	Rec – Loading Dock (100E)
R	Rec – Curr Rm (202A)	900	20/1	3		950		4	20/1	50	JB	Jbox – Ctrl Box Rollup Door
R	Rec – Office (202C)	1080	20/1	5			2080	6	20/1	1000	JB	Jbox – Motor Roll–up Door
R	Rec – Office (202C)	1000	20/1	7	1500			8	20/1	500	R	Rec – Bookstore Sto (113A)
R	Rec – Refrigerator (202D)	1000	20/1	9		1500		10	20/1	500	R	Rec – Bookstore Sto (113A)
R	Rec – Workrm (202D)	1080	20/1	11			1130	12	20/1	50	JB	Jbox–Von Duprin(100E,113A)
R	Rec – Gen Hallway	1900	20/1	13	2260			14	20/1	360	R	Rec – Bookstore Info (113)
R	Rec – Cash Register (202)	900	20/1	15		1260		16	20/1	360	R	Rec – Bookstore Info (113)
R	Rec – Cash Register (202)	720	20/1	17			1440	18	20/1	720	R	Rec–BookstoreInfo(113,113B)
R	Rec – Cash Register (202)	720	20/1	19	1080			20	20/1	360	R	Rec – Bookstore Info (113)
R	Rec – Cash Register (202)	720	20/1	21		1720		22	20/1	1000		JB–TheftMonitoring Dev.(113)
R	Rec – Cash Register (202)	900	20/1	23			900	24	20/1			FB Genius Counter
R	Rec – Bookstore (202)	900	20/1	25	900			26	20/1			FB Genius Counter
R	Rec – Bookstore (202)	900	20/1	27		900		28	20/1		R	Rec – Bookstore (202)
	Elev. Pit Rec/Lt	500	20/1	29			500	30	20/1		R	Rec – Bookstore (202)
	Theft Monitor Device (202)	500	20/1	31	500			32	20/1		R	Rec – Elevator Room (111)
	VON DUPRIN SECURITY	500	20/1	33		500		34	20/1			Spare
	Spare		20/1	35			0	36	20/1			Spare
	Spare		20/1	37	0			38	20/1			Spare
	Spare		20/1	39		0		40	20/1			Spare
	Spare		20/1	41			0	42	20/1			Spare
					7680	6830	6050					
					64	57	50					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub–Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA PANEL SEC. 1		20.6	
AIC RATING:	22,000	CONNECTED AMPS PANEL SEC. 1		57.1	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL SEC. 1		13.5	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		2.5	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		44.4	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		253.6	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0–10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 2LN42 — LOCATION: 1ST FLOOR BOOKSTORE

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
K	Rec – C Store (204)	720	20/1	43	2100			44	20/1	1380	K	Rec – Blender C–Store 194
K	Rec – ATM (200)	800	20/1	45		2180		46	20/1	1380	K	Rec – Blender C–Store 194
K	Rec – Refrigerator (204)	800	20/1	47			1340	48	20/1	540	K	Rec – UC Refrig.C–Store 196
K	Rec – Refrigerator (204)	800	20/1	49	1880			50	20/1	1080	K	Rec – Coffee Grinder 198
K	Rec – Refrigerator (204)	800	20/1	51		4400		52	40	3600	K	Rec – Coffee Brewer 197
K	Rec – Refrigerator (204)	800	20/1	53			4400	54	2P	3600	K	
R	Rec – C Store (204A)	720	20/1	55	4320			56	40	3600	K	Rec – Coffee Brewer 197
	Vonduprin (Security)	360	20/1	57		3960		58	2P	3600	K	
	Spare		20/1	59			180	60	20/1	180	K	Rec – Coffee Counter 193
	TV Book Store (202)	1000	20/1	61	2908			62	20	1908	K	Rec – Convenience Toaster
	TV Book Store (202)	1000	20/1	63		2908		64	2P	1908	K	211
	TV Book Store (202)	1000	20/1	65			1480	66	20/1	480	K	Rec – UC Refrigerator 205
	Spare		20/1	67	1800			68	30/1	1800	K	Rec–Merchandise Case 200
	Spare		20/1	69		1800		70	30/1	1800	K	Rec–Merchandise Case 200
	Spare		20/1	71			360	72	20/1	360	R	Rec–Coffee Counter Res 201
K	Disconnect – Refrigeration	5546	80	73	5726			74	20/1	180	R	Rec – P.O.S. Station 202
K	Rack @ Roof	5546	–	75		7296		76	20	1750	K	Espresso Machine 204
K		5546	3P	77			7296	78	2P	1750	K	
	Spare		20/1	79	1200			80	201	1200	K	Espresso Grinder 215
	Spare		20/1	81		1200		82	20/1	1200	K	Espresso Grinder 215
	Spare		20/1	83			1100	84	20/1	1100	R	Printer 216
					19934	23744	16156					
					166	197	134					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub–Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA:		59.8	
AIC RATING:	22000	CONNECTED AMPS:		166.1	
BUS:	COPPER	RECEPTACLE KVA LOAD		2.4	
NEUTRAL:	100%	OTHER KVA LOAD		37.8	
		SPCL KVA LOAD (W/DMD FCTR)	65%	35.2	
MAX. ALLOWED AMPS	276	LOAD (AMPS) PANEL SEC.2		209.2	

PANEL SEC. 1 3LN11 — LOCATION: 3RD FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Counselor Office 340G	1080	20/1	1	1080			2	20/1			Spare
R	Counselor Office 340H	1080	20/1	3		2700		4	20/1	1620	R	Hallway 300C
R	Counselor Office 340K	1080	20/1	5			1080	6	20/1			Spare
R	Counselor Office 340L	1080	20/1	7	2160			8	20/1	1080	R	Faculty Office 351,352
R	Counselor Office 340N	1080	20/1	9		2160		10	20/1	1080	R	Faculty Office 353
R	Counselor Office 340P	1080	20/1	11			1800	12	20/1	720	R	Faculty Office 354
R	FSD's–(3rd flr–N)	800	20/1	13	1520			14	20/1	720	R	Hallway 300F
R	REC– STAIRS(NE)	360	20/1	15		1080		16	20/1	720	R	Mecho Shade 300H
R	Counsel.HSR 340W	1620	20/1	17			2340	18	20/1	720	R	Elec. Rm. 350
R	Computer Station 340W	1080	20/1	19	1180			20	20/1	100	R	BMS Panel 350
R	S.A. 340W	720	20/1	21		820		22	20/1	100	R	FA Panel 350
R	T. Office 340D	1080	20/1	23			1080	24	20/1			Spare
R	St. Empl. 340E	1080	20/1	25	1880			26	20/1	800	R	Vending Machine 355
R	St. Empl. 340E	720	20/1	27		1520		28	20/1	800	R	Vending Machine 355
R	Counselor Office 340A,B	1080	20/1	29			1080	30	20/1			Spare
R	Car. Office 340C	1080	20/1	31	1880			32	20/1	800	R	Rec – Mens Room 356
R	Counselor Worksta. 340	720	20/1	33		720		34	20/1			Spare
R	Counselor Worksta. 340	720	20/1	35			1520	36	20/1	800	R	Rec – Womens Room 357
	Roll down Grill Door(340)	1000	20/1	37	1000			38	20/1			Spare
	Spare		20/1	39		0		40	20/1			Spare
	Roll down Door(310)	1000	20/1	41			1000	42	20/1			Spare
					10700	9000	9900					
					89	75	82					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub–Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA PANEL SEC. 1		29.6	
AIC RATING:	22,000	CONNECTED AMPS PANEL SEC. 1		82.2	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL SEC. 1		18.8	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		2.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		57.8	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		160.5	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0–10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 3LN12 — LOCATION: 3RD FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Information 340	720	20/1	43	2220			44	20/1	1500	R	Roll–up Door 360Y
R	Information 340	720	20/1	45		1620		46	20/1	900	R	Rec – Bathroom
R	Counselor Office 340U,V	1080	20/1	47			1800	48	20/1	720	R	Rec – Deck (N/E)
R	Counselor Office 340T	1080	20/1	49	1800			50	20/1	720	R	Hallway 300A,B
R	HSR R.C. 340S	1080	20/1	51		2160		52	20/1	1080	R	Meeting Room 358A
R	HSR S.C. 324R	720	20/1	53			1520	54	20/1	800		FSD's – 3rd flr–N
R	Intl. Studies Serv, 310	1080	20/1	55	1080			56	20/1			Spare
R	Hallway 300E	720	20/1	57		900		58	20/1	180	R	Rec – Jan Rm.
R	Hallway 300E	540	20/1	59			540	60	20/1			REC–EXTER. WALL–S.W.
R	Int. Dir. Office 310A	1080	20/1	61	1080			62	20/1			
R	Int. C. Office 310B	720	20/1	63		720		64	20/1			Spare
R	DIV.ASST.Sup. Stor. 320	1260	20/1	65			1260	66	20/1			Spare
R	Printer 330	800	20/1	67	800			68	20/1			Spare
R	Division Assist. 320	1080	20/1	69		1080		70	20/1			Spare
R	Dean's Office 320B	1080	20/1	71			1080	72	20/1			Spare
	Von Duprin	900	20/1	73	900			74	20/1			Spare
R	Mecho Shade 300H	540	20/1	75		540		76	20/1			Spare
R	Mecho Shade 300H	540	20/1	77			540	78	20/1			3rd Floor Wall Clocks
R	Rec – Deck (N/W)	360	20/1	79	5360			80	100A	5000		
	Spare		20/1	81		5000		82	--	5000		PANEL '3LN13'
	Spare		20/1	83			5000	84	3P	5000		
					13240	12020	11740					
					110	100	98					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub–Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA:		37.0	
AIC RATING:	22000	CONNECTED AMPS:		102.7	
BUS:	COPPER	RECEPTACLE KVA LOAD		15.2	
NEUTRAL:	100%	OTHER KVA LOAD		21.8	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	262	LOAD (AMPS) PANEL SEC.2		102.7	

McCARTHY
LPA KH

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San Francisco, California 94104
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IDENTIFICATION STAMP
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ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
8	FCD 41 EXIT SIGN COORDINATION	07/27/10
8A	PROVIDE ON AIR SIGN - FCD 041	12/14/09
11	2ND FLR LEARNING CENTER & STORE-FRONT WINDOW WALL AT 4T FLR OFFICE - FCD 023	03/24/10
12	DSA CO 01 Conformed Set	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
5	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
6	4TH FLR CONFERENCE RMS 401 & 431 REVISIONS - FCD 040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	06/09/08
	50% Construction Documents	07/29/08
	DSA Submittal	09/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHT	07/28/09
2	FCD 014	08/05/09
3	FCD 016	09/15/09
7	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

2HL1	2LN32	2LN41/ 2LN42
2LN11/ 2LN12	2LN33	
	2LN34	3LN11/ 3LN12
2LN13	2LN31	

Job. No.
Date March 2009
Drawn by
Checked by
Scale

PANEL SCHEDULE

E0.05B

PANEL SEC. 1 — 3LN21 — LOCATION: 3RD FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Computer Station 300A	540	20/1	1	1260			2	20/1	720	R	A/R Transcript Ctr 300H
R	Computer Station 300A	540	20/1	3		1260		4	20/1	720	R	A/R Transcript Ctr 300H
R	Computer Station 300A	720	20/1	5			1520	6	20/1	800	R	Printer 300H
	SPARE		20/1	7	800			8	20/1	800	R	Printer 300H
	SPARE		20/1	9		720		10	20/1	720	R	B/S Transcript Ctr 300H
R	Faculty Transcript 300A	720	20/1	11			1520	12	20/1	800	R	Printer 300H
R	Computer Station 300A	540	20/1	13	540			14	20/1			SPARE
R	Computer Station 300A	540	20/1	15		540		16	20/1			SPARE
R	Computer Station 300A	540	20/1	17			1620	18	20/1	1080	R	Microfilm 360R
R	Central Info. 360Y	720	20/1	19	1520			20	20/1	800	R	Printer 360R
R	A/R Workstation 360U	720	20/1	21		1520		22	20/1	800	R	Microfilm 360R
R	A/R Workstation 360U	720	20/1	23			1520	24	20/1	800	R	Transcript 360R
R	Scanner Station 360U	720	20/1	25	2160			26	20/1	1440	R	Asst. Reg. Office 360P
R	Copier 360U	1500	20/1	27		2940		28	20/1	1440	R	A/R Workstation 350X
R	A/R Fax 360U	200	20/1	29			1280	30	20/1	1080	R	Network Con. 360W
R	A/R Fax 360U	200	20/1	31	1280			32	20/1	1080	R	B/S Curr. Rm 360J
R	Faculty Workstation 360U	1080	20/1	33		2160		34	20/1	1080	R	B/S Lead Cash 360N
R	F.A. OFF. 360A	1080	20/1	35			2160	36	20/1	1080	R	Workstation 392
	Spare		20/1	37	800			38	20/1	800		PROJECTOR-(393)
	Spare		20/1	39		800		40	20/1	800		PROJECTOR-(930)
	Spare		20/1	41			0	42	20/1			Spare
					8360	9940	9620					
					70	83	80					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA PANEL SEC. 1		27.9	
AIC RATING:	22,000	CONNECTED AMPS PANEL SEC. 1		77.5	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL SEC. 1		18.2	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		1.6	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL SEC. 1		54.9	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		161.9	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 — 3LN22 — LOCATION: 3RD FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Open Office 360G,V,W	1260	20/1	43	2340			44	20/1	1080	R	Coordinator Office 392A
R	Faculty Tech 360A	1080	20/1	45		2520		46	20/1	1440	R	B/S Workstaton 360X
R	Faculty Tech 360B	1080	20/1	47			2160	48	20/1	1080	R	Meeting Rm 393
R	Computer Station 370	540	20/1	49	1620			50	20/1	1080	R	Scholarship Serv. 392
R	Computer Station 370	360	20/1	51		1080		52	20/1	720	R	Faculty Office 391
R	Computer Station 370	540	20/1	53			1440	54	20/1	900	R	Meeting 390
R	Computer Station 370	540	20/1	55	900			56	20/1	360		Von Duprin
R	Computer Station 370	720	20/1	57		1800		58	20/1	1080	R	Faculty Events Office 381
R	Computer Station 370	720	20/1	59			1440	60	20/1	720	R	Coordinator Office 380
R	Computer Station 370	360	20/1	61	1260			62	20/1	900	R	Dean Admin Office 380A
R	Faculty Office 370A	720	20/1	63		1620		64	20/1	900	R	A/R Dean Office 360E
R	Workroom 362	540	20/1	65			1260	66	20/1	720	R	Faculty Tech. Office 360D
R	Printer 362	800	20/1	67	1880			68	20/1	1080	R	A/R Assist. Office 360T
R	Info	720	20/1	69		1800		70	20/1	1080	R	P.T. Counseling Office 360F
R	Student Services Desk	540	20/1	71			1980	72	20/1	1440	R	Faculty Tech Office 360H
	Von Duprin	720	20/1	73	1520			74	20/1	800	R	Printer
R	Hallway 300F	1080	20/1	75		1880		76	20/1	800	R	Printer 360X
	FSD's-3rd Flr-S)	800	20/1	77			1600	78	20/1	800	R	Printer 360X
	Spare		20/1	79	0			80	20/1			Spare
R	Hallway 300G	1260	20/1	81		1260		82	20/1			Spare
	Spare		20/1	83			180	84	20/1	180	R	REC-STAIRS(S.W.)
					9520	11960	10060					
					79	99	84					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA:		31.5	
AIC RATING:	22000	CONNECTED AMPS:		87.5	
BUS:	COPPER	RECEPTACLE KVA LOAD		19.8	
NEUTRAL:	100%	OTHER KVA LOAD		18.7	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	125	LOAD (AMPS) PANEL SEC.2		107.0	

PANEL — 3HL1 — LOCATION: 3RD FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
L	LTG - 3RD FLR NORTH	2496	20/1	1	2496			2	20/1			SPARE
L	LTG - 3RD FLR NORTH	2400	20/1	3		2400		4	20/1			SPARE
L	LTG - 3RD FLR NORTH	1732	20/1	5			1988	6	20/1	256	L	LTG-3RD FLR S.E. DECK
L	LTG - 3RD FLR NORTH	674	20/1	7	834			8	20/1	160	L	LTG-3RD FLR S.E. DECK
L	LTG - 3RD FLR EAST	420	20/1	9		580		10	20/1	160	L	LTG-3RD FLR N.E. DECK
L	LTG - 3RD FLR SOUTH	1472	20/1	11			1472	12				SPACE
L	LTG - 3RD FLR SOUTH	2640	20/1	13	2640			14				SPACE
L	LTG - 3RD FLR SOUTH	648	20/1	15		648		16				SPACE
L	LTG - 3RD FLR SOUTH	2240	20/1	17			2240	18				SPACE
L	LTG - 3RD FLR SOUTH	2432	20/1	19	2432			20				SPACE
L	LTG - 3RD FLR SOUTH	275	20/1	21		275		22				SPACE
L	3RD FLR WEST		20/1	23			0	24				SPACE
	SPACE			25	0			26				SPACE
	SPACE			27		0		28				SPACE
	SPACE			29			0	30				SPACE
	SPACE			31	0			32				SPACE
	SPACE			33		0		34				SPACE
	SPACE			35			0	36				SPACE
	SPACE			37	0			38				SPACE
	SPACE			39		0		40				SPACE
	SPACE			41			0	42				SPACE
					8402	3903	5700					
					30	14	21					

SIZE:	100	GROUND:	STANDARD		NOTES:
VOLTAGE:	480 /277V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA PANEL		18.0	
AIC RATING:	25,000	CONNECTED AMPS PANEL		21.7	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		18.0	
		SPCL KVA LOAD (W/DMD FCTR)	65%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		21.7	

PANEL — 3LN13 — LOCATION: 3RD FLOOR IDF ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	1	1000			2	20/1P	500	R	Rec-Data Rack(3rd IDF Rm)
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	3		1000		4	20/1P	500	R	Rec-Data Rack(3rd IDF Rm)
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	5			1000	6	20/1P	500	R	Rec-Data Rack(3rd IDF Rm)
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	7	1000			8	20/1P	500	R	Rec-Data Rack(3rd IDF Rm)
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	9		1000		10	20/1P	500	R	Rec-Data Rack(3rd IDF Rm)
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	11			1000	12	20/1P	500	R	Rec-Data Rack(3rd IDF Rm)
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	13	1000			14	20/1P	500	R	Rec-Data Rack(3rd IDF Rm)
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	15		1000		16	20/1P	500	R	Rec-Data Rack(3rd IDF Rm)
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	17			1000	18	20/1P	500	R	Rec-Data Rack(3rd IDF Rm)
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	19	500			20	20/1P			SPARE
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	21		500		22	20/1P			SPARE
R	Rec-Data Rack(3rd IDF Rm)	500	20/1P	23			500	24	20/1P			SPARE
				25	0			26				
				27		0		28				
				29			0	30				
				31	0			32				
				33		0		34				
				35			0	36				
				37	0			38				
				39		0		40				
				41			0	42				
					3500	3500	3500					
					29	29	29					

SIZE:	100	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA PANEL		10.5	
AIC RATING:	22,000	CONNECTED AMPS PANEL		29.1	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		10.3	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		0.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		28.5	

PANEL SEC. 1 — 4LN11 — LOCATION: 4TH FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	OPEN OFF 413	1080	20/1	1	1800			2	20/1	720	R	Faculty Office 451
R	Meeting 421	1080	20/1	3		2160		4	20/1	1080	R	Faculty Office 449
R	D. Dean Office 413A	900	20/1	5			1980	6	20/1	1080	R	Faculty Office 447
R	Open Office 411	1080	20/1	7	2160			8	20/1	1080	R	Faculty Office 445
R	OFF 411A	1080	20/1	9		2160		10	20/1	1080	R	Faculty Office 443
R	Printer 413	800	20/1	11			1880	12	20/1	1080	R	Faculty Office 441
R	REC-HALLWAY 400C	360	20/1	13	1440			14	20/1	1080	R	Faculty Office 439
R	Meeting 431	1620	20/1	15		2880		16	20/1	1260	R	Hallway 400C
	Von Duprin	720	20/1	17			1220	18	20/1	500	R	FSD's-4th Flr-NORTH
R	MECHO SHADE 431	720	20/1	19	1440			20	20/1	720	R	Faculty Office 435,437
R	MECHO SHADE 401	1440	20/1	21		2880		22	20/1	1440	R	Faculty Office 435,437
R	Meeting 401	1620	20/1	23			3060	24	20/1	1440	R	Faculty Office 435
R	Mecho Shade 401	800	20/1	25	1800			26	20/1	1000		J-BOX- PROJECTOR
R	Faculty Office 402	1260	20/1	27		1260		28	20/1			SPARE
R	Faculty Office 402	1260	20/1	29			1980	30	20/1	720	R	Women's Restroom 458
R	Faculty Office 404,406,408	1080	20/1	31	1080			32	20/1			SPARE
R	Faculty Office 434	1080	20/1	33		1880		34	20/1	800		MECHO SHADE 431
R	Faculty Office 410,408	1080	20/1	35			1440	36	20/1	360	R	Men's Restroom 457
R	Faculty Office 410,412	1080	20/1	37	1880			38	20/1	800	R	Vending 456
R	Faculty Office 438,436	1080	20/1	39		1880		40	20/1	800	R	Vending 456
R	Faculty Office 440,438	1080	20/1	41			1620	42	20/1	540	R	IDF 456B
					11600	15100	13180					
					96	126	110					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA PANEL SEC. 1		39.9	ISO GND PANEL
AIC RATING:	22,000	CONNECTED AMPS PANEL SEC. 1		110.7	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL SEC. 1		23.7	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		2.5	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	320	LOAD (AMPS) PANEL SEC. 1		72.8	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		177.8	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 — 4LN12 — LOCATION: 4TH FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Faculty Office 440,442	1080	20/1	43	1440			44	20/1	360	R	Lobby 400A
R	Faculty Office 414,416	1080	20/1	45		1440		46	20/1	360	R	Electrical Room 456A
R	Faculty Office 442	1080	20/1	47			1280	48	20/1	200	R	BMS Panel 456A
R	Faculty Office 418,444	1080	20/1	49	1280			50	20/1	200	R	FA Panel
1	Faculty Office 418,444	1080	20/1	51		2160		52	20/1	1080	R	Faculty Office 452
R	Faculty Office 420	1080	20/1	53			2160	54	20/1	1080	R	Faculty Office 453
R	Faculty Office 420	1080	20/1	55	2160			56	20/1	1080	R	Faculty Office 453
R	Hallway 400E,400D	1440	20/1	57		1440		58	20/1			4th Floor Clocks
R	Hallway 400F	540	20/1	59			540	60	20/1			J-Box Proj. Screen Conf.431
	REC-JAN	180	20/1	61	180			62	20/1			AHU-2, 120V
	AHU-1, 120V		20/1	63		900		64	20/1	900	R	REC-ROOF
R	REC-ROOF	900	20/1	65			1620	66	20/1	720	R	REC-ROOF
	Spare		20/1	67	800			68	20/1	800		Mecho Shade-Conf. Rm 401
	EF-5	170	20/1	69		970		70	20/1	800		Mecho Shade-Conf. Rm 401
	EF-6	170	20/1	71			1170	72	20/1	1000		REC-Projecte-Conf.Rm. 401
	Spare		20/1	73	1000			74	20/1	1000		REC-Projecte-Conf.Rm. 431
	Spare		20/1	75		0		76	20/1			Spare
	Spare		20/1	77			0	78	20/1			Spare
	Spare		20/1	79	5000			80	100A	5000		
	Spare		20/1	81		5000		82	--	5000		PANEL '4LN13'
	Spare		20/1	83			5000	84	3P	5000		
					11860	11910	11770					
					99	99	98					

SIZE:	400	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA:		35.5	ISO GND PANEL
AIC RATING:	22000	CONNECTED AMPS:		98.6	
BUS:	COPPER	RECEPTACLE KVA LOAD		12.7	
NEUTRAL:	100%	OTHER KVA LOAD		25.1	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	247	LOAD (AMPS) PANEL SEC.2		105.0	

PANEL — 4LN13 — LOCATION: 4TH FLOOR IDF ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Rec-Data Rack(4th IDF Rm)	500	20/1P	1	1000			2	20/1P	500	R	Rec-Data Rack(4th IDF Rm)
R	Rec-Data Rack(4th IDF Rm)	500	20/1P	3		1000		4	20/1P	500	R	Rec-Data Rack(4th IDF Rm)
R	Rec-Data Rack(4th IDF Rm)	500	20/1P	5			1000	6	20/1P	500	R	Rec-Data Rack(4th IDF Rm)
R	Rec-Data Rack(4th IDF Rm)	500	20/1P	7	1000			8	20/1P	500	R	Rec-Data Rack(4th IDF Rm)
R	Rec-Data Rack(4th IDF Rm)	500	20/1P	9		1000		10	20/1P	500	R	Rec-Data Rack(4th IDF Rm)
R	Rec-Data Rack(4th IDF Rm)	500	20/1P	11			1000	12	20/1P	500	R	Rec-Data Rack(4th IDF Rm)
R	Rec-Data Rack(4th IDF Rm)	500	20/1P	13	500			14	20/1P		R	SPARE
R	Rec-Data Rack(4th IDF Rm)	500	20/1P	15		500		16	20/1P		R	SPARE
R	Rec-Data Rack(4th IDF Rm)	500	20/1P	17			500	18	20/1P		R	SPARE
R	SPARE		20/1P	19	0			20	20/1P		R	SPARE
R	SPARE		20/1P	21		0		22	20/1P		R	SPARE
R	SPARE		20/1P	23			0	24	20/1P		R	SPARE
R	SPARE		20/1P	25	0			26	20/1P		R	SPARE
R	SPARE		20/1P	27		0		28	20/1P		R	SPARE
R	SPARE		20/1P	29			0	30	20/1P		R	SPARE
R	SPARE		20/1P	31	0			32	20/1P		R	SPARE
R	SPARE		20/1P	33		0		34	20/1P		R	SPARE
R	SPARE		20/1P	35			0	36	20/1P		R	SPARE
R	SPARE		20/1P	37	0			38	20/1P		R	SPARE
R	SPARE		20/1P	39		0		40	20/1P		R	SPARE
R	SPARE		20/1P	41			0	42	20/1P		R	SPARE
					2500	2500	2500					
					21	21	21					

SIZE:	100	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		
PHASE:	3	ENCLOSURE:	NEMA 1		
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA PANEL		7.5	
AIC RATING:	22,000	CONNECTED AMPS PANEL		20.8	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.1	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		0.0	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		0.3	

PANEL — 4HL1 — LOCATION: 4TH FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
L	Ltg. 4th Flr. North	1028	20/1P	1	1028			2	20/1P			Spare
L	Ltg. 4th Flr. North	1344	20/1P	3		1344		4	20/1P			Spare
L	Ltg. 4th Flr. North	2048	20/1P	5			2048	6	20/1P			Spare
L	Ltg. 4th Flr. North	1780	20/1P	7	2780			8	20/1P	1000	L	LTG-ROOF
L	Ltg. 4th Flr. North	1710	20/1P	9		1710		10	20/1P			Spare
L	Ltg. 4th Flr. North/South	648	20/1P	11			648	12	20/1P			Spare
L	Ltg. 4th Flr. North	836	20/1P	13	836			14				Space
L	Ltg. 4th Flr. South Hallway	606	20/1P	15		606		16				Space
L	Ltg. 4th Flr. South	2976	20/1P	17			2976	18				Space
L	Ltg. 4th Flr. South	1600	20/1P	19	1600			20				Space
L	Ltg. 4th Flr. South VP SUITES	2629	20/1P	21		2629		22				Space
L	Ltg. 4th Flr. South/North	864	20/1P	23			864	24				Space
L	Ltg. 4th Flr. South	1566	20/1P	25	1566			26				Space
L	Ltg. 4th Flr. South	648	20/1P	27		648		28				Space
	Space			29			0	30				Space
	Space			31	0			32				Space
	Space			33		0		34				Space
	Space			35			0	36				Space
	Space			37	0			38				Space
	Space			39		0		40				Space
	Space			41			0	42				Space
					7810	6937	6536					
					28	25	24					

SIZE:	100	GROUND:	STANDARD		NOTES:
VOLTAGE:	480 /277V	MOUNTING:	SURFACE		* CIRCUIT BREAKER
PHASE:	3	ENCLOSURE:	NEMA 1		PROVIDED WITH
WIRE:	4	FEED:	TOP		SHUNT TRIP
LUGS:	M.L.O.	CONNECTED KVA PANEL		21.3	
AIC RATING:	25,000	CONNECTED AMPS PANEL		25.6	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		21.3	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	80	LOAD (AMPS) PANEL		25.6	

PANEL SEC. 1 — 4LN21 — LOCATION: 4TH FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	Mecho Shade 468	800	20/1	1	1880			2	20/1	1080	R	Faculty Office 469
	Mecho Shade 468	800	20/1	3		1880		4	20/1	1080	R	Workroom 471
R	Meeting Room 468	1440	20/1	5			2520	6	20/1	1080	R	Faculty Office 473
R	LCD/Projector 468	1200	20/1	7	1920			8	20/1	720	R	OPEN OFF 474
R	Meeting Room 468	1440	20/1	9		2160		10	20/1	720	R	OPEN OFF 474
R	Projection Screen 468	1000	20/1	11			1720	12	20/1	720	R	OPEN OFF 474
R	Faculty Office 466	1080	20/1	13	1800			14	20/1	720	R	Work Station 482
R	Hallway 465	1080	20/1	15		1800		16	20/1	720	R	VPSS OffICE 474A
R	Faculty Office 467	1080	20/1	17			1800	18	20/1	720	R	VPI OFF 482A
R	Work Room 464	1620	20/1	19	2520			20	20/1	900	R	Meeting 482B
R	Copier 464	1000	20/1	21		1720		22	20/1	720	R	Meeting 490A
R	Copier 464	1000	20/1	23			2800	24	20/1	1800	R	Refrigerator 482C
R	Copier 464	1000	20/1	25	1720			26	20/1	720	R	Coffee Bar 482C
R	Copier 464	1000	20/1	27		1540		28	20/1	540	R	President Office Coor.490B
R	Break Room 463	1260	20/1	29			2340	30	20/1	1080	R	President Office 492
R	Microwave 463	1200	20/1	31	2200			32	20/1	1000	R	PRINTER-Workrm 482C
R	Coffee Maker 433	1000	20/1	33		2000		34	20/1	1000	R	FAX/COPIER-Workrm 482C
R	Coffee Maker 433	1000	20/1	35			2080	36	20/1	1080	R	Hallway 400G
R	Refrigerator 463	800	20/1	37	1700			38	20/1	900		Von Duprin Security
R	Refrigerator 463	800	20/1	39		800		40	20/1			SPARE
R	Vending Machine 463	800	20/1	41			1600	42	20/1	800		FSD's-4th Flr
					13740	11900	14860					
					114	99	124					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:	TOP		
LUGS:	M.L.O.	CONNECTED KVA PANEL SEC. 1		40.5	ISO GND PANEL
AIC RATING:	22,000	CONNECTED AMPS PANEL SEC. 1		112.4	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL SEC. 1		23.6	
NEUTRAL:	100%	OTHER KVA LOAD PANEL SEC. 1		3.3	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL SEC. 1		74.8	
		FEEDER LOAD (AMPS) PANELS SEC 1 AND 2		137.5	

R=RECEPTACLE, L=LIGHTING, M=MOTORS, O=OTHER LOADS, K=KITCHEN EQUIPMENT, F=FREEZER
"BLANKS","L", "M" AND "O" WILL BE CALCULATED AT 100%; "K" AND "F" WILL BE CALCULATED WITH % ENTERED IN "J34" (DO NOT ENTER % SIGN)
RECEPTACLE LOAD WILL BE CALCULATED AS FOLLOWS: 0-10 KVA @100%, ABOVE 10 KVA @50%

PANEL SEC. 2 — 4LN22 — LOCATION: 4TH FLOOR ELECTRICAL ROOM

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
R	Vending Machine 463	800	20/1	43	1800			44	20/1	1000	R	REC-Projector 490A
R	Vending Machine 463	800	20/1	45		1800		46	20/1	1000	R	REC-Projector 482B
R	Director Office 462B	720	20/1	47			900	48	20/1	180	R	REC-STAIRS(S.W.)
R	PRM. Office 462	1080	20/1	49	1880			50	20/1	800		Mecho Shade-Conf Rm 482B
R	Printer 462	1000	20/1	51		1800		52	20/1	800		Mecho Shade-Conf Rm 482B
R	PRM. Office 462	1260	20/1	53			1260	54	20/1		R	REC- Smart Board 482B
R	Printer	1000	20/1	55	1800			56	20/1	800		Mecho Shade-Conf Rm 490A
R	PRM. Office 462	720	20/1	57		720		58	20/1			Spare
R	Copier 462A	1200	20/1	59			2200	60	20/1	1000	R	REC- Smart Board 490A
R	Faculty Office 460	1080	20/1	61	1080			62	20/1			Spare
R	Faculty Office 490/491	1080	20/1	63		1080		64	20/1			Spare
R	Hallway 400H	1260	20/1	65			1260	66	20/1			Spare
R	Faculty Office 489	720	20/1	67	720			68	20/1			Spare
R	Faculty Office 487	1260	20/1	69		1260		70	20/1			Spare
R	Faculty Office 485	1260	20/1	71			1260	72	20/1			Spare
R	Faculty Office 483	900	20/1	73	900			74	20/1			Spare
R	Faculty Office 481	900	20/1	75		900		76	20/1			Spare
R	Faculty Office 477	1260	20/1	77			1260	78	20/1			Spare
R	Faculty Office 477	1260	20/1	79	1260			80	20/1			Spare
R	Faculty Office 475	1260	20/1	81		1260		82	20/1			Spare
	SPARE		20/1	83			0	84	20/1			Spare
					9440	8820	8140					
					79	73	68					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		Sub-Feed Lugs
PHASE:	3	ENCLOSURE:	NEMA 1		Panelboard
WIRE:	4	FEED:			
LUGS:	M.L.O.	CONNECTED KVA:		26.4	ISO GND PANEL
AIC RATING:	22000	CONNECTED AMPS:		73.3	
BUS:	COPPER	RECEPTACLE KVA LOAD		17.0	
NEUTRAL:	100%	OTHER KVA LOAD		5.6	
		SPCL KVA LOAD (W/DMD FCTR)	0%	0.0	
MAX. ALLOWED AMPS	105	LOAD (AMPS) PANEL SEC.2		62.8	

PANEL — 1HL2 — LOCATION: 1ST FLOOR ELECTRICAL ROOM (#102)

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
M		5567	50A	1	6134			2	15A	567	M	
M	CHWP-1 (Mech Rm)	5567	–	3		6134		4	–	567	M	FC-1 AT (1st Flr MDF RM)
M		5567	3P	5			6134	6	3P	567	M	
M		5567	50A	7	6833			8	15A	1266	M	
M	CHWP-2 (Mech Rm)	5567	–	9		6833		10	–	1266	M	CHWP-3 AT MDF RM.
M		5567	3P	11			6833	12	3P	1266	M	
M		2033	20A	13	4066			14	20	2033	M	
M	HWP-1 (Mech Rm)	2033	–	15		4066		16	–	2033	M	HWP-2 AT MECH RM
M		2033	3P	17			4066	18	3P	2033	M	
M		567	15A	19	1134			20	15A*	567	M	
M	FC-2 (2nd Floor IDF Rm)	567	–	21		1134		22	–	567	M	EF-7 AT MECH. RM.
M		567	3P	23			1134	24	3P	567	M	
M		567	15A	25	1134			26	15A	567	M	
M	FC-3 (3rd Floor IDF Rm)	567	–	27		1134		28	–	567	M	FC-4 AT (4th Flr MDF RM)
M		567	3P	29			1134	30	3P	567	M	
M		3047	40A	31	4376			32	15*	1329	M	
M	EF-2	3047	–	33		4376		34	–	1329	M	EF-3
M		3047	3P	35			4376	36	3P	1329	M	
	SPACE			37	0			38				
	SPACE			39		0		40				
	SPACE			41			0	42				
					23677	23677	23677					
					85	85	85					

SIZE:	250	GROUND:	STANDARD		NOTES:
VOLTAGE:	480 /277V	MOUNTING:	SURFACE		* CIRCUIT BREAKER
PHASE:	3	ENCLOSURE:	NEMA 1		PROVIDED WITH
WIRE:	4	FEED:	BOTTOM		SHUNT TRIP
LUGS:	M.L.O.	CONNECTED KVA PANEL		71.0	
AIC RATING:	35,000	CONNECTED AMPS PANEL		85.4	
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.0	
NEUTRAL:	100%	OTHER KVA LOAD PANEL		71.0	
		SPCL KVA LOAD (W/DMD FCTR)	65%	0.0	
MAX. ALLOWED AMPS	200	LOAD (AMPS) PANEL		85.5	

PANEL — 2LN14 — LOCATION: 2ND FLOOR ELEC. RM.

TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
	Auto Door Open	516	20/1	1	876			2	20/1	360	M	JB-MECHO Shade(2nd Flr)
	Von Duprin Security	516	20/1	3		2100		4	20/1	1584	M	JB-MECHO Shade(2nd Flr)
	FSD's	1680	20/1	5			2760	6	20/1	1080	M	JB-MECHO Shade(2nd Flr)
	Room A/V Contrl Box(200A)	720	20/1	7	720			8	20/1		R	Rec - Audio Rack (200D)
	Spare		20/1	9		0		10	20/1			SPARE
	Mecho Shade (200B)	1680	20/1	11			1680	12	20/1			2nd Floor Clocks
	Mecho Shade (200B)	1680	20/1	13	1680			14	20/1			LCP-Projector (200A)
	Changing Station (200U)	800	20/1	15		800		16	20/1			LCP-Projector (200A)
	50A Rec		50A	17			0	18	50A			50A Rec
	at South wall ofDining Deck		2P	19	0			20	2P			at East Dining Deck
	LCD SCREEN-Event 200B	720	20/1	21		1440		22	20/1	720	R	LCD SCREEN-Event 200B
	LCD SCREEN-Event 200B	720	20/1	23			1440	24	20/1	720	R	Rec - Audio/Visual (200B)
	MECHO SHADE (200A)	1680	20/1	25	2400			26	20/1	720	R	Room A/V Contrl Box(200B)
	MECHO SHADE (200A)	1680	20/1	27		2400		28	20/1	720	R	Rec - Audio/Visual (200A)
	MECHO SHADE (200A)	1680	20/1	29			2400	30	20/1	720	R	Room A/V Contrl Box(200A)
				31	720			32	20/1	720	R	Exterior Contrl Box(200A)
				33		1000		34	20/1	1000	R	Projector (200A)
				35			0	36				
				37	0			38				
				39		0		40				
				41			0	42				
					6396	7740	8280					
					53	64	69					

SIZE:	225	GROUND:	STANDARD		NOTES:
VOLTAGE:	208 /120V	MOUNTING:	SURFACE		* Fed from 2LN32
PHASE:	3	ENCLOSURE:	NEMA 1		Main Circuit Breaker with
WIRE:	4	FEED:	BOTTOM		Shunt Trip
LUGS:	225A/3P M.C.B. *	CONNECTED KVA PANEL		22.4	** CIRCUIT BREAKER
AIC RATING:	22,000	CONNECTED AMPS PANEL		62.2	PROVIDED WITH
BUS:	COPPER	RECEPTACLE KVA LOAD PANEL		0.1	SHUNT TRIP
NEUTRAL:	100%	OTHER KVA LOAD PANEL		17.1	
		SPCL KVA LOAD (W/DMD FCTR)	65%	0.0	
MAX. ALLOWED AMPS	180	LOAD (AMPS) PANEL		47.8	

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FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
ROSENDIN ELECTRIC
www.rosendin.com
CORPORATE HEADQUARTERS
880 Mabury Road
San Jose, CA 95133
(408) 286-2800
Arizona California Nevada New Mexico Oregon

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
8	FCD 41 EXIT SIGN COORDINATION	07/27/10
8A	PROVIDE ON AIR SIGN - FCD 041	12/14/09
11	2ND FLR LEARNING CENTER & STORE-FRONT WINDOW WALL AT 4T FLR OFFICE - FCD 023	03/24/10
12	DSA CO 01 Conformed Set	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
5	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
6	4TH FLR CONFERENCE RMS 401 & 431 REVISIONS - FCD 040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	06/09/08
	50% Construction Documents	07/29/08
	DSA Submittal	09/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHT	07/28/09
2	FCD 014	08/05/09
3	FCD 016	09/15/09
7	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

3LN21/ 3LN22	4LN11/ 4LN12	4LN21/ 4LN22
3HL1	4LN13	1HL2
3LN13	4HL1	2LN14

Job. No.
Date March 2009
Drawn by
Checked by
Scale

PANEL SCHEDULE

E0.05C

PANEL		4HP1			LOCATION:			KITCHEN				
TYPE	DESCRIPTION	LOAD	BKR	CIR	A	B	C	CIR	BKR	LOAD	TYPE	DESCRIPTION
M	AHU-1	33033	175A	1	35066			2	20A	2033	M	EF-1
M		33033	---	3		35066		4	---	2033	M	
M		33033	3P	5			35066	6	3P	2033	M	
M	AHU-2	33033	175	7	33033			8				SPACE
M		33033	---	9		33033		10				
M		33033	3P	11			33033	12				
	SPACE			13	0			14				SPACE
				15		0		16				
				17			0	18				
	SPACE			19	0			20				SPACE
				21		0		22				
				23			0	24				
	SPACE			25	0			26				SPACE
				27		0		28				
				29			0	30				
	SPACE			31	0			32				SPACE
				33		0		34				
				35			0	36				
	SPACE			37	0			38				SPACE
				39		0		40				
				41			0	42				
					68099	68099	68099					
					245	245	245					

BUS RATING	400	GROUND:	STANDARD	NOTES:
VOLTAGE:	480 V	MOUNTING:	SURFACE	
PHASE:	3	ENCLOSURE:	NEMA 1	
WIRE:	3	FEED:	BOTTOM	
FOR "CB"OR MCB SIZE	400	CONNECTED KVA	204.3	
"MLO" OR "MCB"	MCB	CONNECTED AMPS	245.7	
MCB RATING (80% or 100%)	100%	RECEPTACLE KVA LOAD	0.0	
AIC RATING:	35KAIC	OTHER KVA LOAD	204.3	
BUS TYPE:	COPPER	SPCL KVA LOAD (W/DMD FCTR)	0.0	
NEUTRAL:	N/A	LOAD (AMPS) PANEL	246.0	
MAX. ALLOWED AMPS	400 A			

JOB NAME: COLLEGE OF SAN MATEO BLDG. 10N

LCP LOCATION: LEVEL 4 ELECTRICAL ROOM

LCP NAME: LCP4

NEMA RATING: 1

Relay	Circuit		Em. or Normal	Voltage	Controlled Area	BMS Zone	Notes
R1	4HL1-1a		NORMAL	277	HALLWAY (400E,C)	G	L.V. Switch 'a', Over-ride only
R2	4HL1-1b		NORMAL	277	HALLWAY (400E,C)	G	L.V. Switch 'b', Over-ride only
R3	4HL1-1c		NORMAL	277	HALLWAY (400B)	G	L.V. Switch 'c', Over-ride only
R4	4HL1-13d		NORMAL	277	MEN'S		Occupancy Sensor Control
R5	4HL1-13e		NORMAL	277	WOMEN'S		Occupancy Sensor Control
R6	4HL1-15g		NORMAL	277	LOBBY (400A)	G	L.V. Switch 'g', Over-ride only
R7	4HL1-11f		NORMAL	277	PERIMETER WINDOWS	G	L.V. Switch 'f', Over-ride only
R8	4HL1-23m		NORMAL	277	PERIMETER WINDOWS	G	L.V. Switch 'm', Over-ride only
R9	4HL1-15k		NORMAL	277	HALLWAY	G	L.V. Switch 'k', Over-ride only
R10	4HL1-15j		NORMAL	277	HALLWAY	G	L.V. Switch 'j', Over-ride only
R11	4HL1-27n		NORMAL	277	PERIMETER WINDOWS	G	L.V. Switch 'n', Over-ride only
R12	4HL1-8p		NORMAL	277	ROOF	G	L.V. Switch 'p', Over-ride only
R13	SPARE						
R14	SPARE						
R15	SPACE						
R16	SPACE						
R17	SPACE						
R18	SPACE						
R19	SPACE						
R20	SPACE						
R21	SPACE						
R22	SPACE						
R23	SPACE						
R24	SPACE						

JOB NAME: COLLEGE OF SAN MATEO BLDG. 10N

LCP LOCATION: LEVEL 1 ELECTRICAL ROOM

LCP NAME: LCP1

NEMA RATING: 1

Relay	Circuit		Em. or Normal	Voltage	Controlled Area	BMS Zone	Notes
R1	1HL1-9a		NORMAL	277	BOOKSTORE	C	LV Switch 'a', Over ride-On only
R2	1HL1-9b		NORMAL	277	BOOKSTORE	C	LV Switch 'b', Over ride-On only
R3	1HL1-11c		NORMAL	277	BOOKSTORE	C	LV Switch 'c', Over ride-On only
R4	1HL1-11d		NORMAL	277	BOOKSTORE	C	LV Switch 'd', Over ride-On only
R5	SPARE						
R6	SPARE						
R7	1HL1-5g		NORMAL	277	HALLWAY 100B	D	LV Switch 'g', Over ride-On only
R8	1HLI-5h		NORMAL	277	HALLWAY	D	LV Switch 'h', Over ride-On only
R9	1HL1-7		NORMAL	277	1st FLOOR MENS REST RM		Occupancy Sensor Control
R10	1HL1-7		NORMAL	277	1st FLOOR WOMENS REST RM		Occupancy Sensor Control
R11	1HL1-13m		NORMAL	277	EXTERIOR DECK (North East) ENTRACE	A	LV Switch 'm', Over ride-On only
R12	1HL1-29r		NORMAL	277	LOBBY (100 A)	D	LV Switch 'r', Over ride-On only
R13	1HL1-29s		NORMAL	277	LOBBY (100 A)	D	LV Switch 's', Over ride-On only
R14	1HL1-29t		NORMAL	277	HALLWAY (100F)	D	LV Switch 't', Over ride-On only
R15	1HL1-29u		NORMAL	277	HALLWAY (100)	D	LV Switch 'u', Over ride-On only
R16	1EHL1-37		EMERG.	277	EXTERIOR STAIR SOUTH	A	
R17	1EHL1-24n		EMERG.	277	INTERIOR MAIN STAIRS	H	LV Switch 'n', Over ride-On only
R18	1EHL1-27q		EMERG.	277	LOADING DOCK/COMMISSARY	A	LV Switch 'q', Over ride-On only
R19	1EHL1-23v		EMERG.	277	EXTERIOR DOOR/DECK/COMMISSARY	A	LV Switch 'v', Over ride-On only
R20	1HL1-11w		EMERG.	277	INTERIOR COMMISSARY/LOADING DOCK		LV Switch 'w', On-Off
R21	1HL1-11x		EMERG.	277	INTERIOR COMMISSARY/LOADING DOCK		LV Switch 'x', On-Off
R22	1EHL1-39		EMERG.	277	LIGHT POLES AT WEST STAIRWAYS	A	
R23	1EHL1-25		EMERG.	277	LIGHT OVER NORTH EXIT	A	
R24	1EHL1-32		EMERG.	277	1ST FLOOR BOLLARDS	A	

JOB NAME: COLLEGE OF SAN MATEO BLDG. 10N

LCP LOCATION: LEVEL 2 ELECTRICAL ROOM

LCP NAME: LCP2

NEMA RATING: 1

Relay	Circuit		Em. or Normal	Voltage	Controlled Area	BMS Zone	Notes
R1	1EHL1-10vv		EMERG.	277	NORTH DECK	A	L.V. Switch 'v v', Over-ride only
R2	1EHL1-14mm		EMERG.	277	SOUTH OUTDOOR DINING	B	L.V. Switch 'mm', Over-ride only
R3	SPARE						
R4	2LN12-74n		NORMAL	120	SERVERY		L.V. Switch 'n', ON/OFF
R5	2LN12-76oo		NORMAL	120	BOOKSTORE	C	L.V. Switch 'oo', Over-ride only
R6	2LN12-77ww		NORMAL	120	NORTH-CONVENIENCE STORE		L.V. Switch 'ww', ON/OFF
R7	2LN12-78bb		NORMAL	120	BOOKSTORE	C	L.V. Switch 'bb', Over-ride only
R8	2LN12-80cc		NORMAL	120	BOOKSTORE	C	L.V. Switch 'cc', Over-ride only
R9	2LN12-82dd		NORMAL	120	BOOKSTORE	C	L.V. Switch 'dd', Over-ride only
R10	2LN12-84ee		NORMAL	120	BOOKSTORE	C	L.V. Switch 'ee', Over-ride only
R11	2HL1-1r		NORMAL	277	SOUTHEAST DAYLIT AREA	E	L.V. Switch 'r', Over-ride only
R12	2HLI-1s		NORMAL	277	SOUTHEAST STUDENT CENTER	E	L.V. Switch 's', Over-ride only
R13	2HL1-2ff		NORMAL	277	WEST PERIMETER WINDOWS	E	L.V. Switch 'ff', Over-ride only
R14	2HLI-4a		NORMAL	277	BOOKSTORE	C	L.V. Switch 'a', Over-ride only
R15	2HL1-4b		NORMAL	277	BOOKSTORE	C	L.V. Switch 'b', Over-ride only
R16	2HL1-4c		NORMAL	277	BOOKSTORE	C	L.V. Switch 'c', Over-ride only
R17	2HL1-6d		NORMAL	277	LOBBY #200	D	L.V. Switch 'd', Over-ride only
R18	2HL1-6e		NORMAL	277	COFFEE #203		L.V. Switch 'e', ON/OFF
R19	2HL1-6f		NORMAL	277	COFFEE #203		L.V. Switch 'f', ON/OFF
R20	2HL1-6g		NORMAL	277	C-STORE		L.V. Switch 'g', ON/OFF
R21	2HL1-6h		NORMAL	277	C-STORE		L.V. Switch 'h', ON/OFF
R22	2HL1-8i		NORMAL	277	WOMEN'S REST RM		Occupancy Sensor(24hrs-7days)
R23	2HL1-8j		NORMAL	277	MEN'S REST RM		Occupancy Sensor(24hrs-7days)
R24	2HL1-8k		NORMAL	277	SERVERY		L.V. Switch 'k', ON/OFF
R25	2HL1-1t		NORMAL	277	SOUTHEAST STUDENT	E	L.V. Switch 't', Over-ride only
R26	2HL1-3u		NORMAL	277	STUDENT AREA	E	L.V. Switch 'u', Over-ride only
R27	2HL1-3v		NORMAL	277	STUDENT AREA	E	L.V. Switch 'v', Over-ride only
R28	2HL1-3w		NORMAL	277	STUDENT AREA	E	L.V. Switch 'w', Over-ride only
R29	2HL1-5x		NORMAL	277	MIDDLE CORRIDOR	D	L.V. Switch 'x', Over-ride only
R30	2HL1-5y		NORMAL	277	SOUTHWEST LOBBY	F	L.V. Switch 'y', Over-ride only
R31	2HL1-5z		NORMAL	277	SOUTHWEST LOBBY	F	L.V. Switch 'z', Over-ride only
R32	2HL1-5aa		NORMAL	277	SOUTH-STUDENT/COMPUTER LAB	F	L.V. Switch 'aa', Over-ride only
R33	2HL1-5tt		NORMAL	277	SOUTH-STUDENT/COMPUTER LAB	F	L.V. Switch 'tt', Over-ride only
R34	2HL1-5uu		NORMAL	277	SOUTH-STUDENT/COMPUTER LAB	F	L.V. Switch 'uu', Over-ride only
R35	2HL1-21gg		NORMAL	277	SOUTH OUTDOOR DINING	B	L.V. Switch 'gg', Over-ride only
R36	2HL1-8n		NORMAL	277	SERVERY LIGHTS/UNDER SIGN		L.V. Switch 'n', ON/OFF
R37	2HL1-8m		NORMAL	277	SERVERY		L.V. Switch 'm', ON/OFF
R38	2HL1-10p		NORMAL	277	EVENT #200B	E	L.V. Switch 'p', Over-ride only
R39	2HL1-10q		NORMAL	277	EVENT #200B	E	L.V. Switch 'q', Over-ride only
R40	2HL1-20qq		NORMAL	277	PERIMETER WINDOWS	F	L.V. Switch 'qq', Over-ride only
R41	2HL1-9hh		NORMAL	277	SOUTH TUTOR	F	L.V. Switch 'hh', Over-ride only
R42	2HL1-9jj		NORMAL	277	SOUTH TUTOR	F	L.V. Switch 'jj', Over-ride only
R43	2HL1-9kk		NORMAL	277	SOUTH TUTOR	F	L.V. Switch 'kk', Over-ride only
R44	1EHL1-36xx		EMERG.	277	SOUTH OUTDOOR DINING	A	L.V. Switch 'x', Over-ride only
R45	SPARE						
R46	SPARE						
R47	SPARE						
R48	SPARE						

JOB NAME: COLLEGE OF SAN MATEO BLDG. 10N

LCP LOCATION: LEVEL 3 ELECTRICAL ROOM

LCP NAME: LCP3

NEMA RATING: 1

Relay	Circuit		Em. or Normal	Voltage	Controlled Area	BMS Zone	Notes
R1	SPARE						
R2	SPARE						
R3	3HL1-5d		NORMAL	277	HALLWAY (300C,300F,300D)	G	L.V. Switch 'd', Over-ride only
R4	3HL1-5e		NORMAL	277	HALLWAY (300C,300F,300D)	G	L.V. Switch 'e', Over-ride only
R5	3HL1-5c		NORMAL	277	PERIMETER WINDOWS	G	L.V. Switch 'c', Over-ride only
R6	3HL1-5f		NORMAL	277	HALLWAY 100B	G	L.V. Switch 'f', Over-ride only
R7	3HL1-7j		NORMAL	277	MEN'S REST ROOM		Occupancy Sensor Control
R8	3HL1-7k		NORMAL	277	WOMEN'S REST ROOM		Occupancy Sensor Control
R9	3HL1-9g		NORMAL	277	3rd FLOOR (W) DECK	B	L.V. Switch 'g', Over-ride only
R10	3HL1-8x		NORMAL	277	3rd FLOOR (SE) DECK	B	L.V. Switch 'x', Over-ride only
R11	3HL1-10y		NORMAL	277	3rd FLOOR EAST DECK	B	L.V. Switch 'y', Over-ride only
R12	1EHL1-2z		EMERG.	277	3rd FLOOR WEST DECK	A	L.V. Switch 'z', Over-ride only
R13	1EHL1-3w		EMERG.	277	3rd FLOOR EAST DECK	A	L.V. Switch 'w', Over-ride only
R14	3HL1-21p		NORMAL	277	3rd FLOOR (W) DECK	B	L.V. Switch 'p', Over-ride only
R15	3HL1-11q		NORMAL	277	LOBBY 300A	G	L.V. Switch 'q', Over-ride only
R16	SPARE						
R17	SPARE						
R18	SPARE						
R19	SPARE						
R20	3HL1-15v		NORMAL	277	PERIMETER WINDOW (SE)	G	
R21	SPARE						
R22	SPARE						
R23	SPARE						
R24	SPARE						

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

4HP1	LCP4	LCP1
		LCP2
		LCP3

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL #: 01-110095
AC _____ FLS _____ SS _____
DATE _____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
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Revision	Description	Date
1	FCO 11 EXIT SIGN COORDINATION	07/11/09
2	RECEIVE CD FOR AHJ SIGN	1/21/2010
3	REVISE CEILING PLAN AT FLEX OFFICE	03/24/10
4	REVISE ELEVATOR CENTER & ADA RESTROOMS PER AHJ	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
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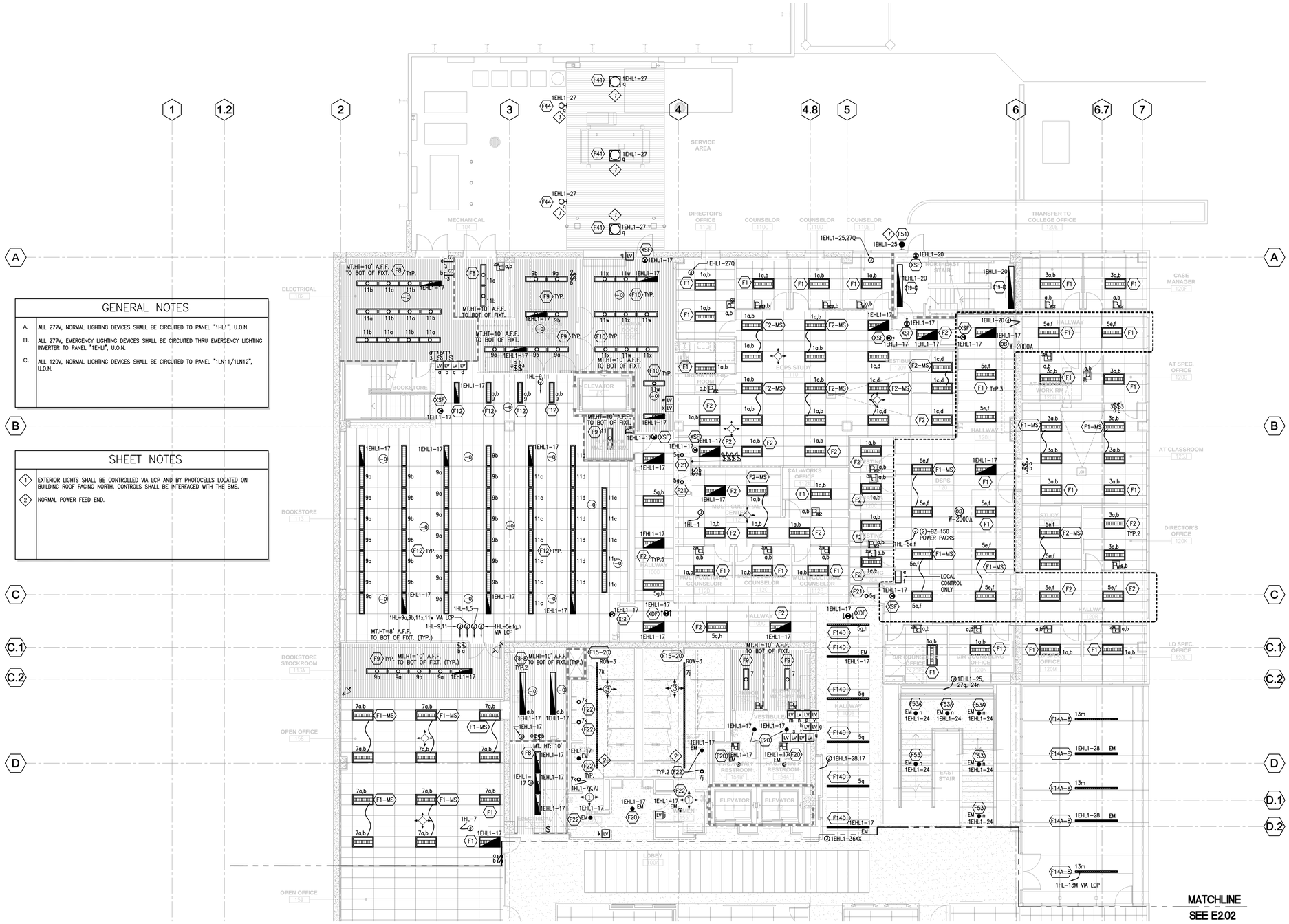
3	FCO 1016	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

PANEL SCHEDULE
LTG. CONTROL PANEL

E0.05D

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E0.05D_PANEL SCHEDULES-LCP.dwg - Nov 07, 2011 Monday - 7:00pm - 30x42-Plt - SFERMIL



GENERAL NOTES

A. ALL 277V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "1HL1", U.O.N.

B. ALL 277V, EMERGENCY LIGHTING DEVICES SHALL BE CIRCUITED THRU EMERGENCY LIGHTING INVERTER TO PANEL "1EHL", U.O.N.

C. ALL 120V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "1LN11/1LN12", U.O.N.

SHEET NOTES

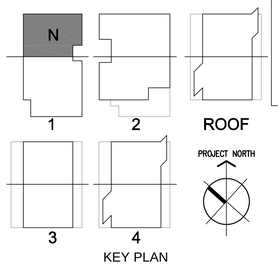
1. EXTERIOR LIGHTS SHALL BE CONTROLLED VIA LCP AND BY PHOTOCELLS LOCATED ON BUILDING ROOF FACING NORTH. CONTROLS SHALL BE INTERFACED WITH THE BMS.
2. NORMAL POWER FEED END.

1 / E2.01 Lighting Plan - Level 1 - North

SCALE: 1/8"=1'-0"

LEGEND: OCCUPANCY SENSORS

- CI-200
- DT-200
- DT-300
- PW-100
- PW2 PW-200
- TS TS-400
- UT-300-1
- UT-300-3
- W-2000A



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San Mateo, CA

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San Mateo County Community College District

Revision	Description	Date
1	CCD-14 EXIT SIGN COORDINATION	03/20/10
2	REVISED CKT AS SHOWN	FCO 041 12/14/09
3	2010 CD LIGHING CONTROL & EXIT SIGN CHANGES - FCO 020	03/24/10
4	DSA CD CL Comments Set	03/24/10
5	2ND FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR VP, SUITES CHANGES - FCO 039	03/24/10
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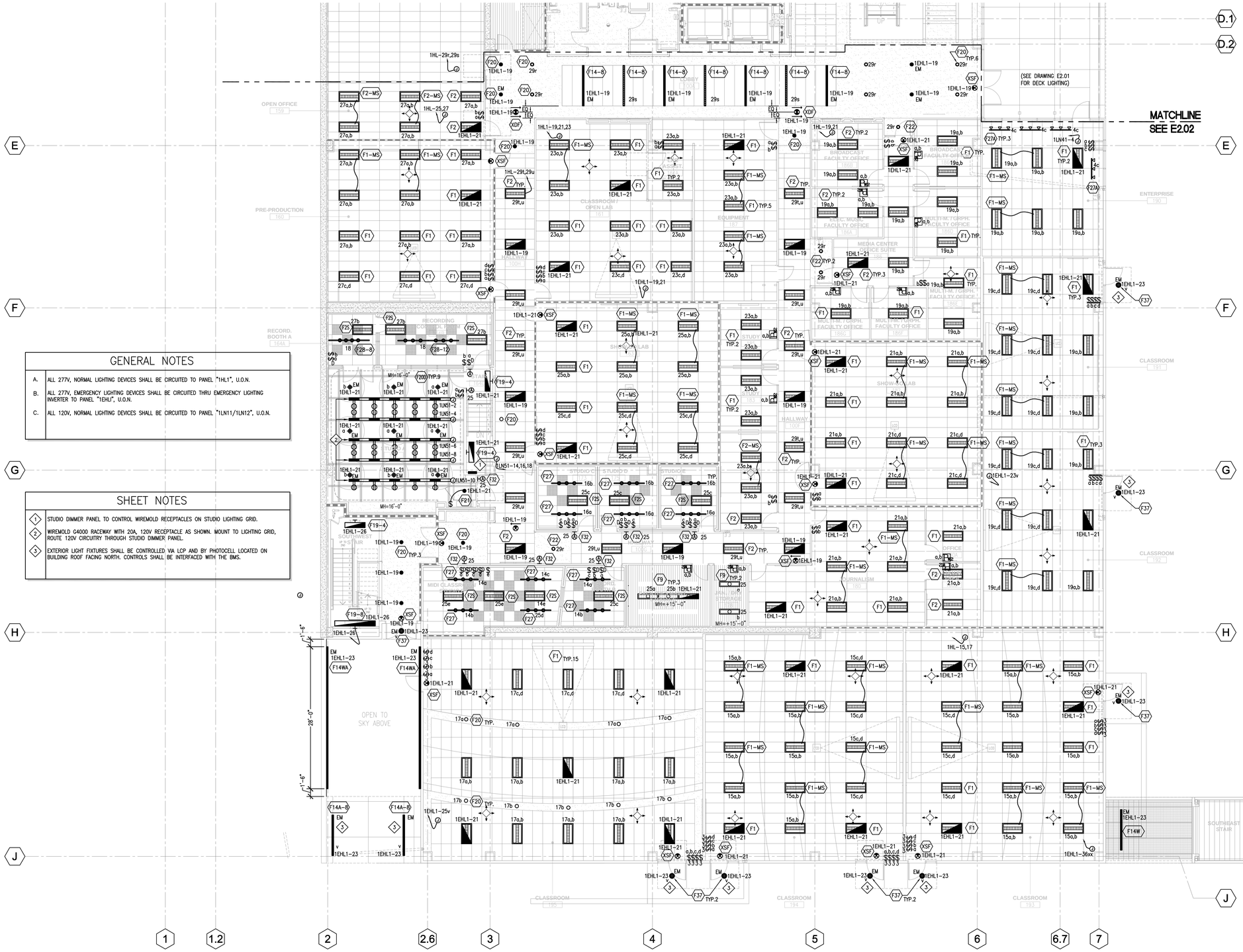
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

LIGHTING PLAN
LEVEL 1 - NORTH

E2.01

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_3000085\Electrical Design-DOR_11-07-2011\3000085_10N_E2.01_LIGHTING PLAN LEVEL 1-NORTH.dwg - Nov 07, 2011 Monday - 7:00pm - 30x42-Plt - SFERMIL



GENERAL NOTES

A.	ALL 277V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "1HL1", U.O.N.
B.	ALL 277V, EMERGENCY LIGHTING DEVICES SHALL BE CIRCUITED THRU EMERGENCY LIGHTING INVERTER TO PANEL "1EHL", U.O.N.
C.	ALL 120V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "1LN11/1LN12", U.O.N.

SHEET NOTES

1	STUDIO DIMMER PANEL TO CONTROL WIREMOLD RECEPTACLES ON STUDIO LIGHTING GRID.
2	WIREMOLD G4000 RACEWAY WITH 20A, 120V RECEPTACLE AS SHOWN. MOUNT TO LIGHTING GRID, ROUTE 120V CIRCUITRY THROUGH STUDIO DIMMER PANEL.
3	EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED VIA LCP AND BY PHOTOCELL LOCATED ON BUILDING ROOF FACING NORTH. CONTROLS SHALL BE INTERFACED WITH THE BMS.

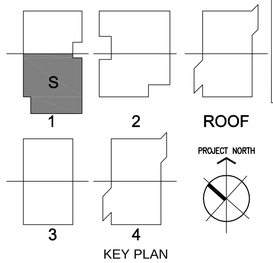
1 / E2.02 Lighting Plan - Level 1 - South

SCALE: 1/8"=1'-0"

LEGEND: OCCUPANCY SENSORS

DT-300

PW-200



DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

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AC ____ FLS ____ SS ____
DATE ____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

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CORPORATE HEADQUARTERS
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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	FCO 41 EDIT SCHL COORDINATION	02/10/10
2	REVISE CFA LED SCHL	12/14/09
3	2ND FLR LEARNING CENTER & FIRST FLR MEDIA CENTER & 1ST FLR OFFICE - FCO 002	03/24/10
4	DSA CO COL Comments Set	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCO 008	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 009	03/24/10
7	4TH FLR CONFERENCE RM 401 & 421 REVISIONS - FCO 045	01/21/11
8	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/05/08
2	50% Construction Documents	07/29/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/05/08
5	DSA Final	03/11/09
6	ELEC EM CHANGES PER ARCHT	07/28/09
7	FCO 0314	08/05/09
8	FCO 0316	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
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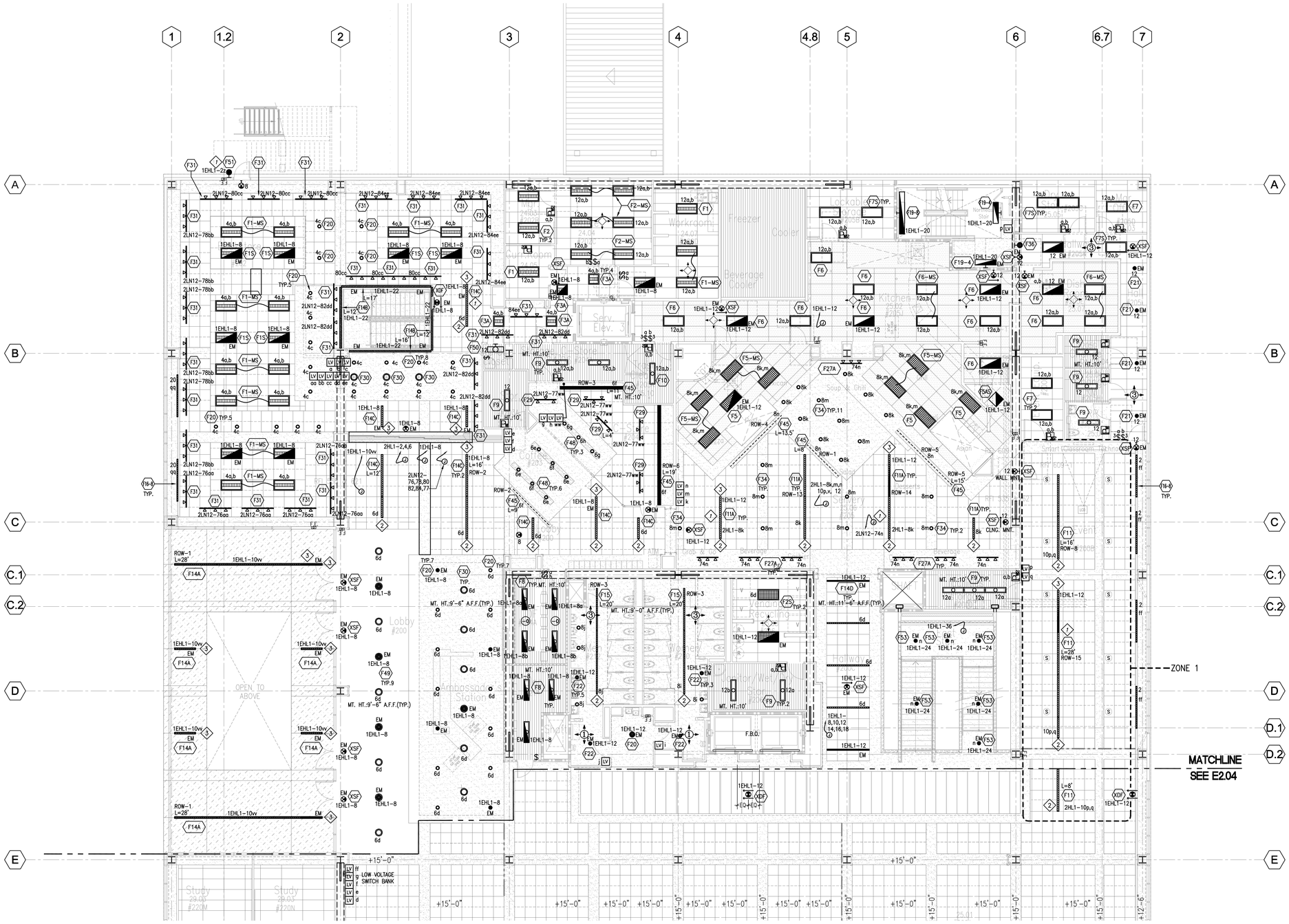
Scale	

LIGHTING PLAN
LEVEL 1 - SOUTH

E2.02

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E2.02_LIGHTING PLAN LEVEL 1-SOUTH.dwg - Nov 07, 2011 Monday - 7:01pm - 30x42-PH - SFERMIL



1 / E2.03 Lighting Plan - Level 2 - North

SCALE: 1/8"=1'-0"

GENERAL NOTES

A. ALL 277V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "2HL1", U.O.N.

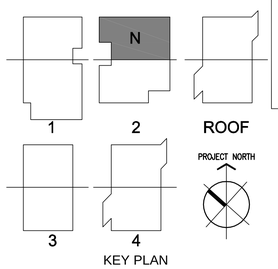
B. ALL 277V, EMERGENCY LIGHTING DEVICES SHALL BE CIRCUITED THRU EMERGENCY LIGHTING INVERTER TO PANEL "1EHL", U.O.N.

C. ALL 120V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "2LN11/2LN12", U.O.N.

D. ROUTE EXTERIOR LIGHTING CIRCUITRY VIA EXTERIOR PHOTOSENSOR MOUNTED ON ROOF FACING NORTH AND LCP. CONTROLS SHALL BE INTERFACED WITH BMS.

SHEET NOTES

1. 1/2 OF LAMPS IN LINEAR FIXTURES ARE CONNECTED TO AN EMERGENCY CIRCUIT AS INDICATED ON PLAN.
2. NORMAL POWER FEED END.
3. EMERGENCY POWER FEED END.



DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

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Developed for:
San Mateo County Community College District

Revision	Description	Date
1	FCO-41 EDIT SIGN COORDINATION	07/12/10
2	REVISE CLAIR SIGN	FCO 043 12/14/09
3	REVISE FLOORING CONTROLS	02/24/10
4	ADD CI-200 OCCUPANCY SENSOR AT FLR SXPTRS.	FCO 023 03/24/10
5	DGA CLOUD COORDINATION	03/24/10
6	30% FOR FINANCIAL AID CHANGES	FCO 036 03/24/10
7	4TH FLR V.P. SUITES CHANGES	FCO 039 03/24/10
8	4TH FLR CONFERENCE RMS 401 & 411 RESIGNS - FCO 040	03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
10	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/30/09
2	50% Construction Documents	07/29/09
3	DSA Submittal	09/18/09
4	95% Construction Documents	12/09/09
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 022	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

LIGHTING PLAN
LEVEL 2 - NORTH

E2.03

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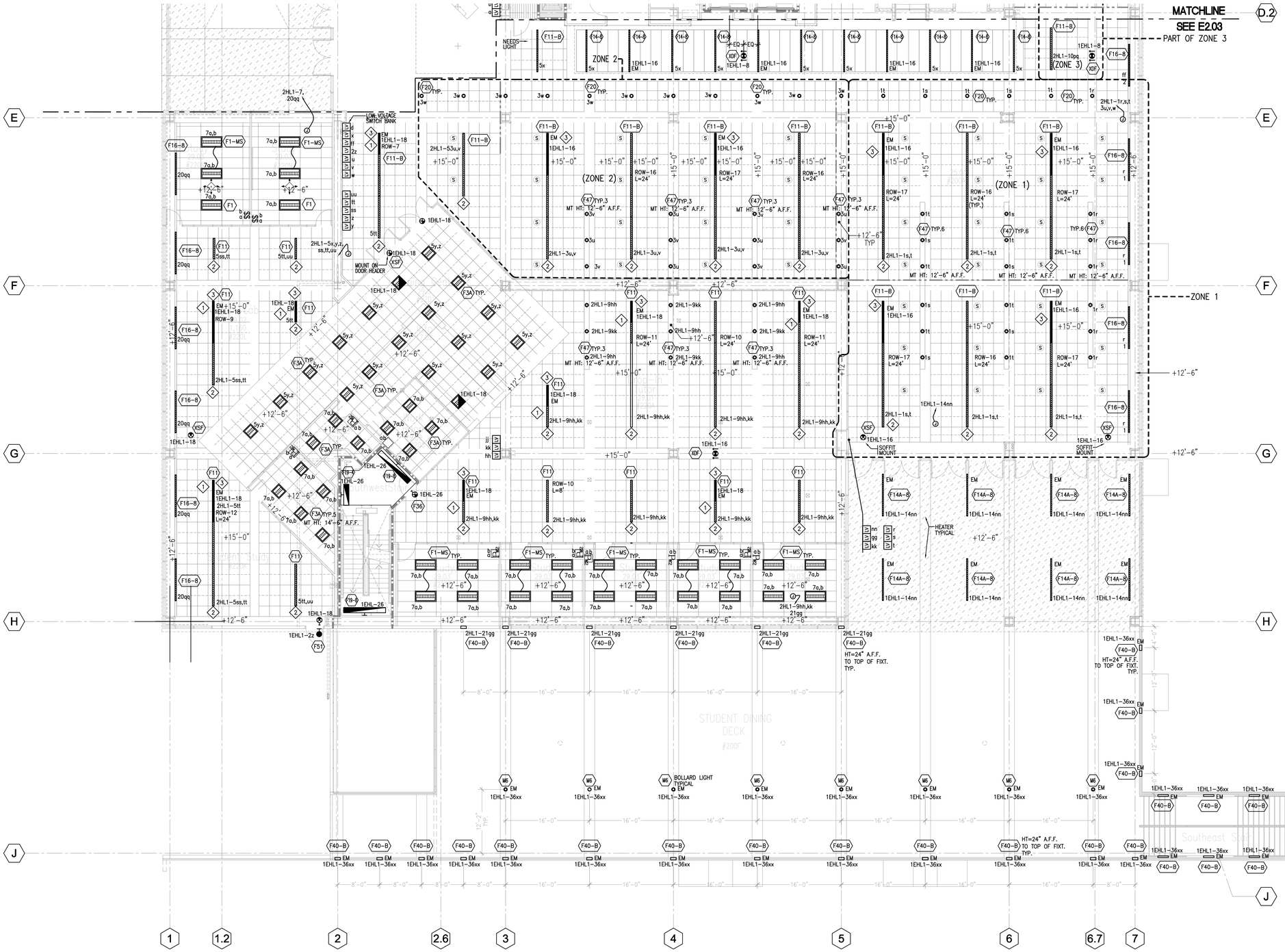


1 E2.04 Lighting Plan - Level 2 - South
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. ALL 277V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "2HL1", U.O.N.

B. ALL 277V, EMERGENCY LIGHTING DEVICES SHALL BE CIRCUITED THRU EMERGENCY LIGHTING INVERTER TO PANEL "2EHL1", U.O.N.

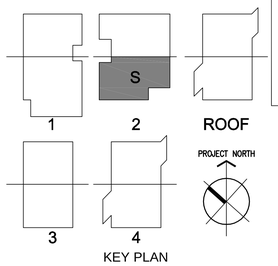
C. ALL 120V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "2LN11/2LN12", U.O.N.

D. ROUTE EXTERIOR LIGHTING VIA LCP AND PHOTOSENSOR MOUNTED ON ROOF FACING NORTH. CONTROLS SHALL BE INTERFACED WITH BMS.

E. REVISION OF V.P. SUITE (FCD 23-R1) WILL ENTAIL A REVIEW OF TITLE 24 AND DUE TO CHANGE IN LIGHTING FIXTURE COUNT AND LTG POWER DENSITY.

SHEET NOTES

1. 1/2 OF LAMPS IN LINEAR FIXTURES ARE CONNECTED TO AN EMERGENCY CIRCUIT AS INDICATED ON PLAN.\
2. NORMAL POWER FEED END.
3. EMERGENCY POWER FEED END.
4. NOT USED.



KEY PLAN

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ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

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San Francisco, California 94104
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San Mateo County Community College District

Revision	Description	Date
1	FCD 41 EXIT SIGN COORDINATION	02/01/09
2	REVISION OF EXIT SIGN	FCD 041 12/14/09
3	2ND FLR LEARNING CENTER & 4TH FLR VP SUITE & 4TH FLR OFFICE - FCD 023	03/24/10
4	DSA COMMENTS	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
7	4TH FLR CONFERENCE RM 401 & 403 REVISIONS - FCD 045	03/24/10
8	ELECTRICAL - DRAWING OF RECORD	01/21/11
9	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/01/08
2	50% Construction Documents	07/29/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/05/08
5	DSA Final	03/11/09
6	ELEC EM CHANGES PER ARCHT	07/28/09
7	FCD 014	08/05/09
8	FCD 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

Job. No.	
Date	March 2009
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LIGHTING PLAN
LEVEL 2 - SOUTH

E2.04-R1

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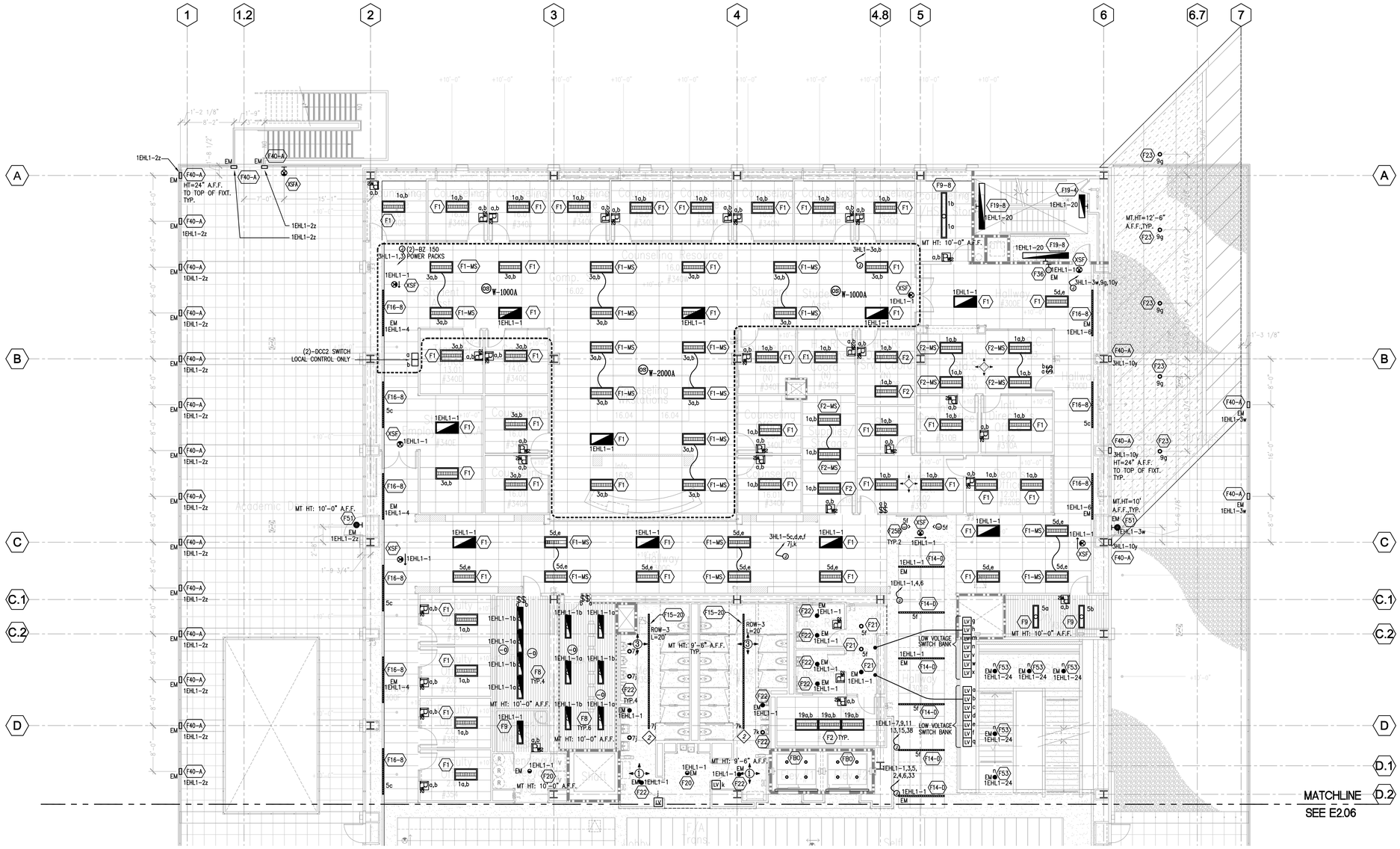


LEGEND: OCCUPANCY SENSORS

- CI-200
- DT-300
- PW-100
- PW-200
- UT-300-1
- UT-300-3
- W-1000A
- W-2000A

GENERAL NOTES

A. ALL 277V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "3HL1", U.O.N.

B. ALL 277V, EMERGENCY LIGHTING DEVICES SHALL BE CIRCUITED THRU EMERGENCY LIGHTING INVERTER, TO PANEL "1EHL1", U.O.N.

C. ALL 120V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "3LN11/3LN12", U.O.N.

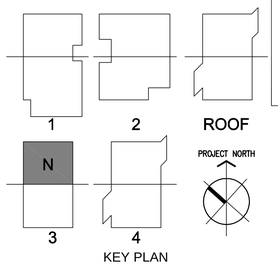
D. EXTERIOR LIGHT FIXTURES SHALL BE CONTROLLED VIA LCP AND BY PHOTOCELL LOCATED ON BUILDING ROOF FACING NORTH. CONTROLS SHALL BE INTERFACED WITH BMS.

SHEET NOTES

1. NOT USED.
2. NORMAL POWER FEED END.

1 / E2.05 Lighting Plan - Level 3 - North

SCALE: 1/8"=1'-0"



KEY PLAN

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ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

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REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
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San Mateo, CA

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San Mateo County Community College District

Revision	Description	Date
1	FCO 41 EXIT SIGN COORDINATION	02/10/09
2	REVISIONS FOR AHJ SIGN	1/21/2010
3	FCO 041	1/21/2010
4	2ND FLR LIBRARY CENTER & 2ND FLR SUPPORT SERVICES & 1ST FLR OFFICE - FCO 002	03/24/10
5	DSA CCO 01 Corridor Fixture	03/24/10
6	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
7	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
8	4TH FLR CONFERENCE RM 401 & 403 REVISIONS - FCO 045	03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
10	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/12/08
2	50% Construction Documents	07/28/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/05/08
5	DSA Final	03/11/09
6	ELEC EM CHANGES PER ARCHT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
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Scale	

LIGHTING PLAN
LEVEL 3 - NORTH

E2.05

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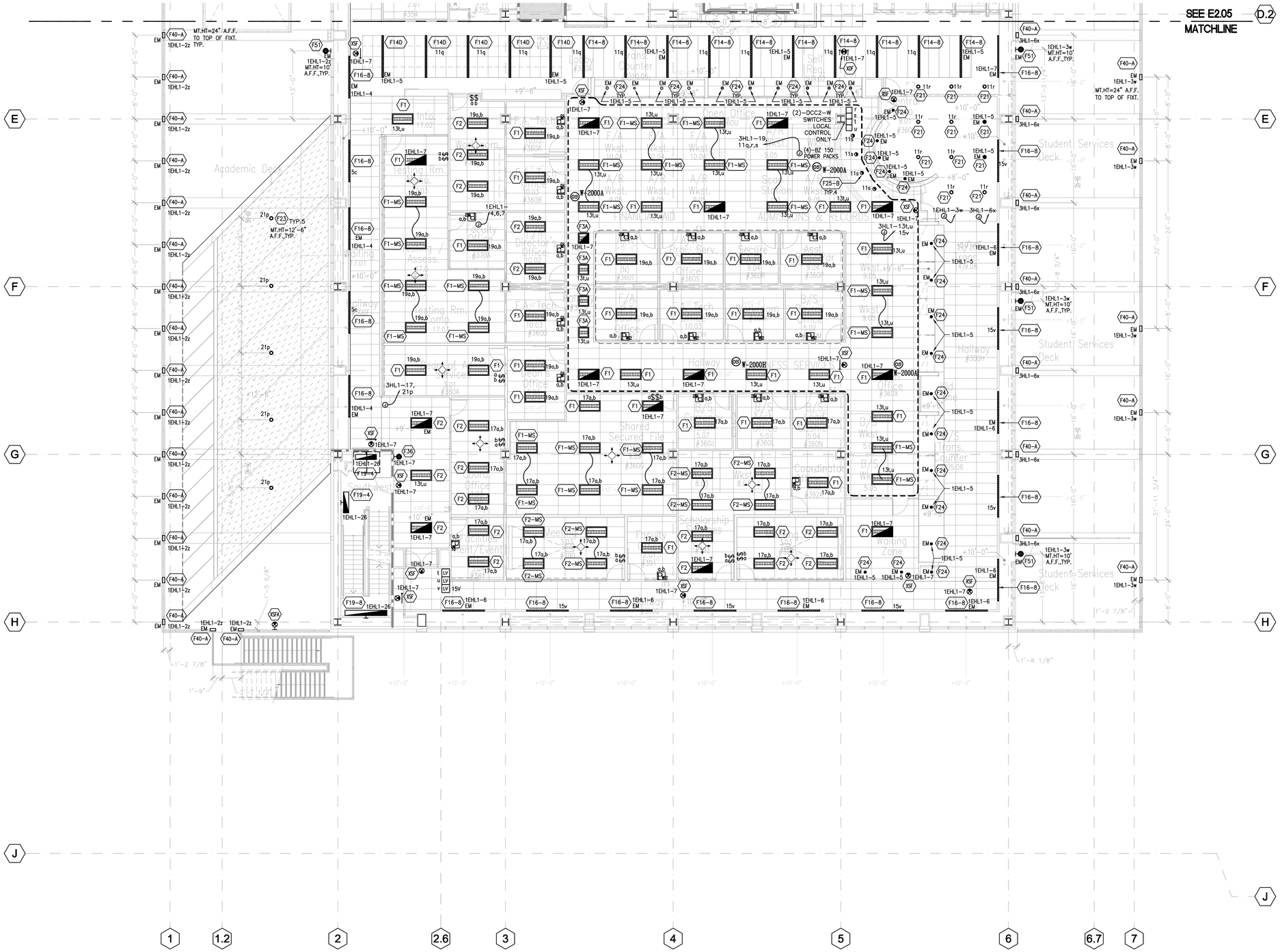


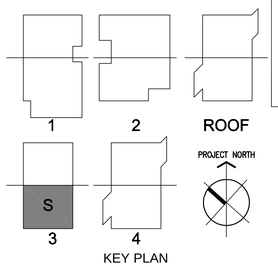
1 E2.06 Lighting Plan - Level 3 - South
SCALE: 1/8"=1'-0"

LEGEND: OCCUPANCY SENSORS

- DT-300
- PW2 PW-200
- W-2000A
- W-2000H

GENERAL NOTES

A.	ALL 277V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "3HL1", U.O.N.
B.	ALL 277V, EMERGENCY LIGHTING DEVICES SHALL BE CIRCUITED THRU EMERGENCY LIGHTING INVERTER TO PANEL "3EHL1", U.O.N.
C.	ALL 120V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "3LN21/3LN22", U.O.N.
D.	ROUTE EXTERIOR LIGHTING VIA LCP AND PHOTOSENSOR MOUNTED ON ROOF FACING NORTH. CONTROLS SHALL BE INTERFACED WITH BMS.



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DATE: 11-07-2011

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Revision	Description	Date
4	FCO 41 DOT SIGN COORDINATION	03/17/10
3	REVISED CAN AIR SIGN	12/14/09
2	RFI FOR LOBBY CENTER & ADJACENT CORRIDOR AT 4TH FLR OFFICE - FCO 023	03/24/10
1	ESD CO 01 Conference Rm	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
3	4TH FLR V.P. SUITES CHANGES - FCO 035	03/24/10
2	4TH FLR CONFERENCE RM 401 & 401 REVISIONS - FCO 040	03/24/10
1	ELECTRICAL DRAWING OF RECORD	01/21/11
0	ELECTRICAL DRAWING OF RECORD	11/07/11

Revision	Description	Date
0	100% Design Development	06/19/09
1	50% Construction Documents	07/29/09
2	DSA Submittal	09/18/09
3	95% Construction Documents	12/08/09
4	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHIT	07/28/09
2	FCO 014	08/05/09
3	FCO 016	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

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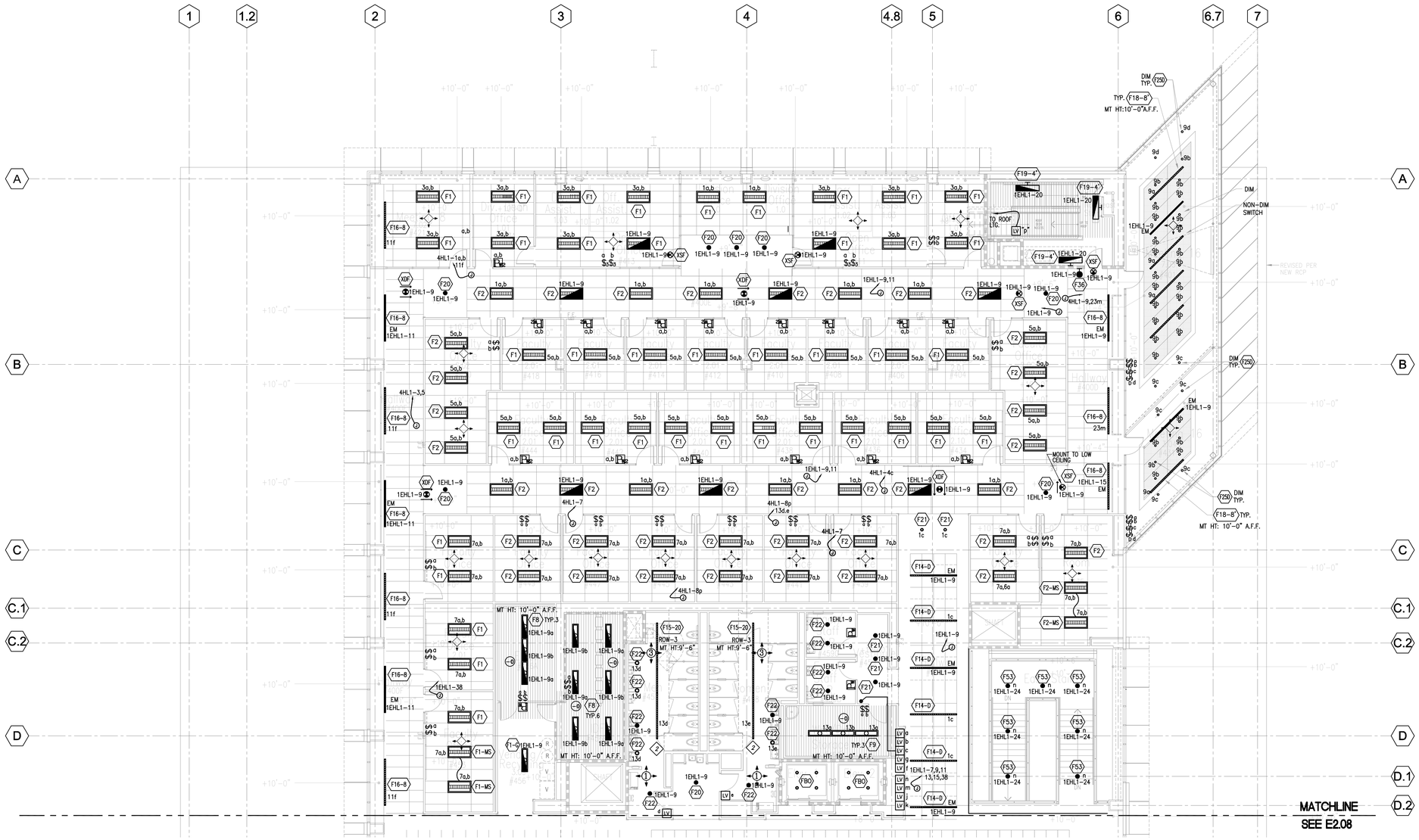
Date	March 2009
Drawn by	
Checked by	
Scale	

LIGHTING PLAN
LEVEL 3 - SOUTH

E2.06

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E2.06_LIGHTING PLAN LEVEL 3-SOUTH.dwg - Nov 07, 2011 Monday - 7:03pm - 30x42-Plt - SFERMIL



GENERAL NOTES

A. ALL 277V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "4HL1", U.O.N.

B. ALL 277V, EMERGENCY LIGHTING DEVICES SHALL BE CIRCUITED THRU EMERGENCY LIGHTING INVERTER, TO PANEL "1EHL1", U.O.N.

C. ALL 120V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "4LN11/4LN12", U.O.N.

SHEET NOTES

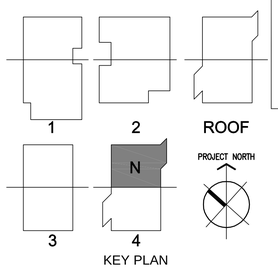
1. NOT USED.
2. NORMAL POWER FEED END.

LEGEND: OCCUPANCY SENSORS

- CI-200
- DT-300
- PW PW-100
- PW2 PW-200
- UT-300-1
- UT-300-3

1 / E2.07 Lighting Plan - Level 4 - North

SCALE: 1/8"=1'-0"



DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 | 397-5151
F 415 | 397-5999

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AC ____ FLS ____ SS ____
DATE ____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
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STATE OF CALIFORNIA

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San Mateo, CA

Developed for:
San Mateo County Community College District

Revision	Description	Date
4	FCO-11 EDIT SSRR COORDINATION	07/21/10
3	PROVIDE CALLAR SOCK	12/14/10
2	FCO 013	03/24/10
1	2ND FLR LEARNING CENTER A	03/24/10
0	2ND FLR CONFERENCE RM 4TH & 6TH STRIPS - FCO 020	03/24/10
0	ESDR CO 01 Comment 54	03/24/10
0	3RD FLR FINANCIAL AID CHANGES - FCO 008	03/24/10
0	4TH FLR V.P. SUITES CHANGES - FCO 009	03/24/10
0	4TH FLR CONFERENCE RM 401 & 401 REVISIONS - FCO 006	03/24/10
0	ELECTRICAL DRAWING OF RECORD	01/27/11
0	ELECTRICAL DRAWING OF RECORD	11/07/11

Revision	Description	Date
0	100% Design Development	06/19/08
0	50% Construction Documents	07/29/08
0	DSA Submittal	09/18/08
0	95% Construction Documents	12/08/08
0	DSA Final	03/11/09
0	ELEC RM CHANGES PER AIRCHIT	07/28/09
0	FCO 014	08/05/09
0	FCO 015	09/15/09
0	4TH FLR OFFICE REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
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LIGHTING PLAN
LEVEL 4 - NORTH

E2.07

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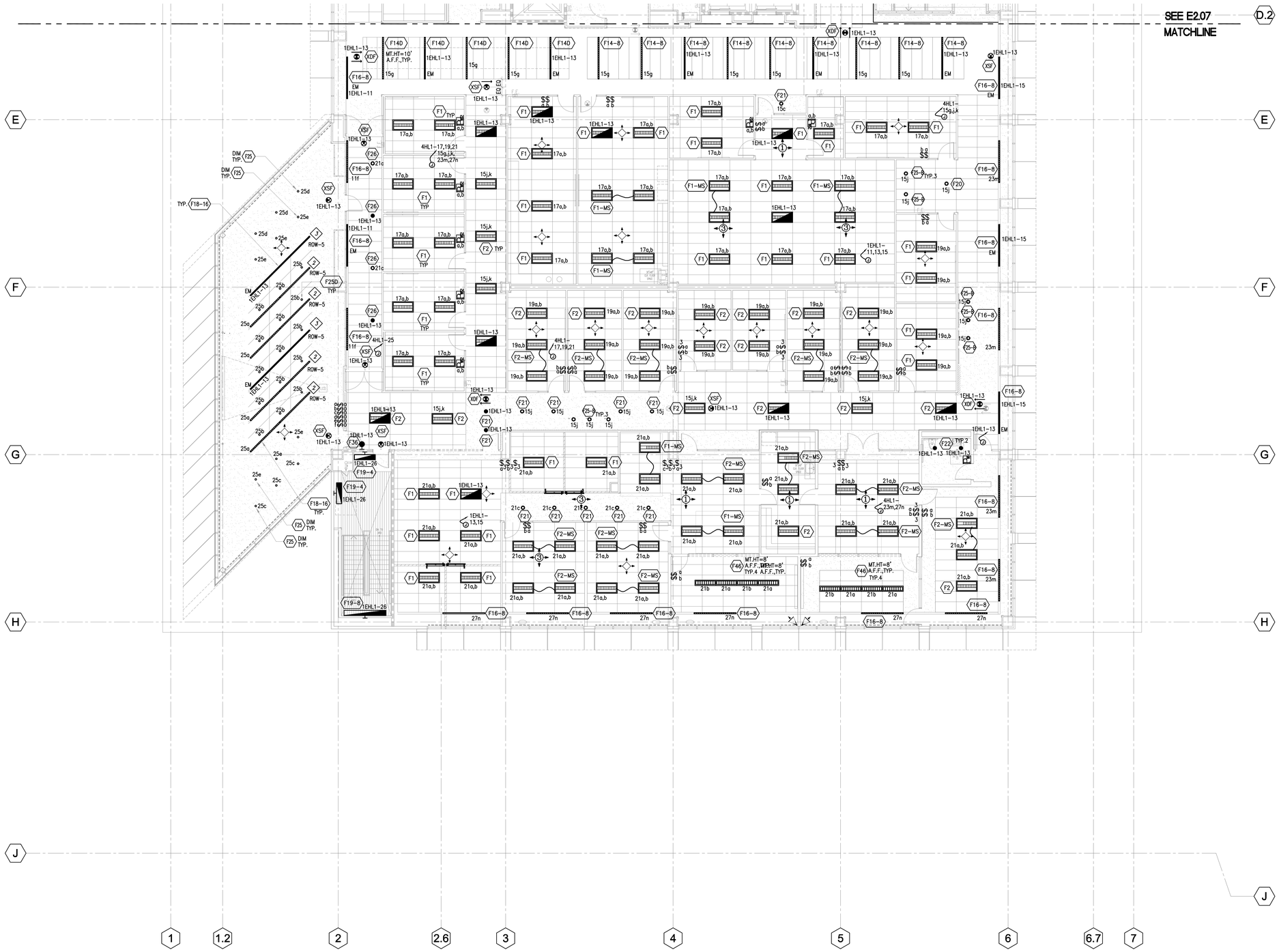


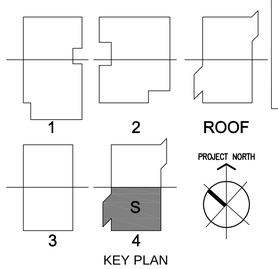
1 / E2.08 Lighting Plan - Level 4 - South
SCALE: 1/8"=1'-0"

SHEET NOTES	
1	NOT USED.
2	NORMAL POWER FEED END.
3	EMERGENCY POWER FEED END.

GENERAL NOTES	
A.	ALL 277V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "4HL1", U.O.N.
B.	ALL 277V, EMERGENCY LIGHTING DEVICES SHALL BE CIRCUITED THRU EMERGENCY LIGHTING INVERTER, TO PANEL "1EHL1", U.O.N.
C.	ALL 120V, NORMAL LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "4LN21/4LN22", U.O.N.
D.	REVISION OF V.P. SUITE (FCD 039-R1) WILL ENTAIL A REVIEW OF TITLE 24 AND DUE TO CHANGE IN LIGHTING FIXTURE COUNT AND LTG POWER DENSITY.

LEGEND: OCCUPANCY SENSORS

- DT-200
- DT-300
- PW-100
- PW2 PW-200
- UT-300-1
- UT-300-3



KEY PLAN

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DATE: 11-07-2011

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Revision	Description	Date
1	ICD-11 EXIT SIGN COORDINATION	01/12/10
2	ROV-REF CR-LAB SCHX	FCD 031 12/14/09
3	REF TO LIGHING CONTROLS	
4	ROV-REF CR-LAB SCHX, REF TO OFFICE	FCD 020 03/24/10
5	ICD-6 CR-01 Conference Set	03/24/10
6	RFI 7-5-R FINANCIAL AID CHANGES	- FCD 028 03/24/10
7	4TH FLR V.P. SUITES CHANGES	- FCD 039 03/24/10
8	4TH FLR CONFERENCE RMS 401 & 411 REVISIONS	- FCD 041 03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	05/05/08
	50% Construction Documents	07/25/08
	DSA Submittal	09/19/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHT	07/28/09
2	FCD 014	08/05/09
3	FCD 018	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

Job. No.	
Date	March 2009
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Lighting Plan
Level 4 - South

E2.08-R1

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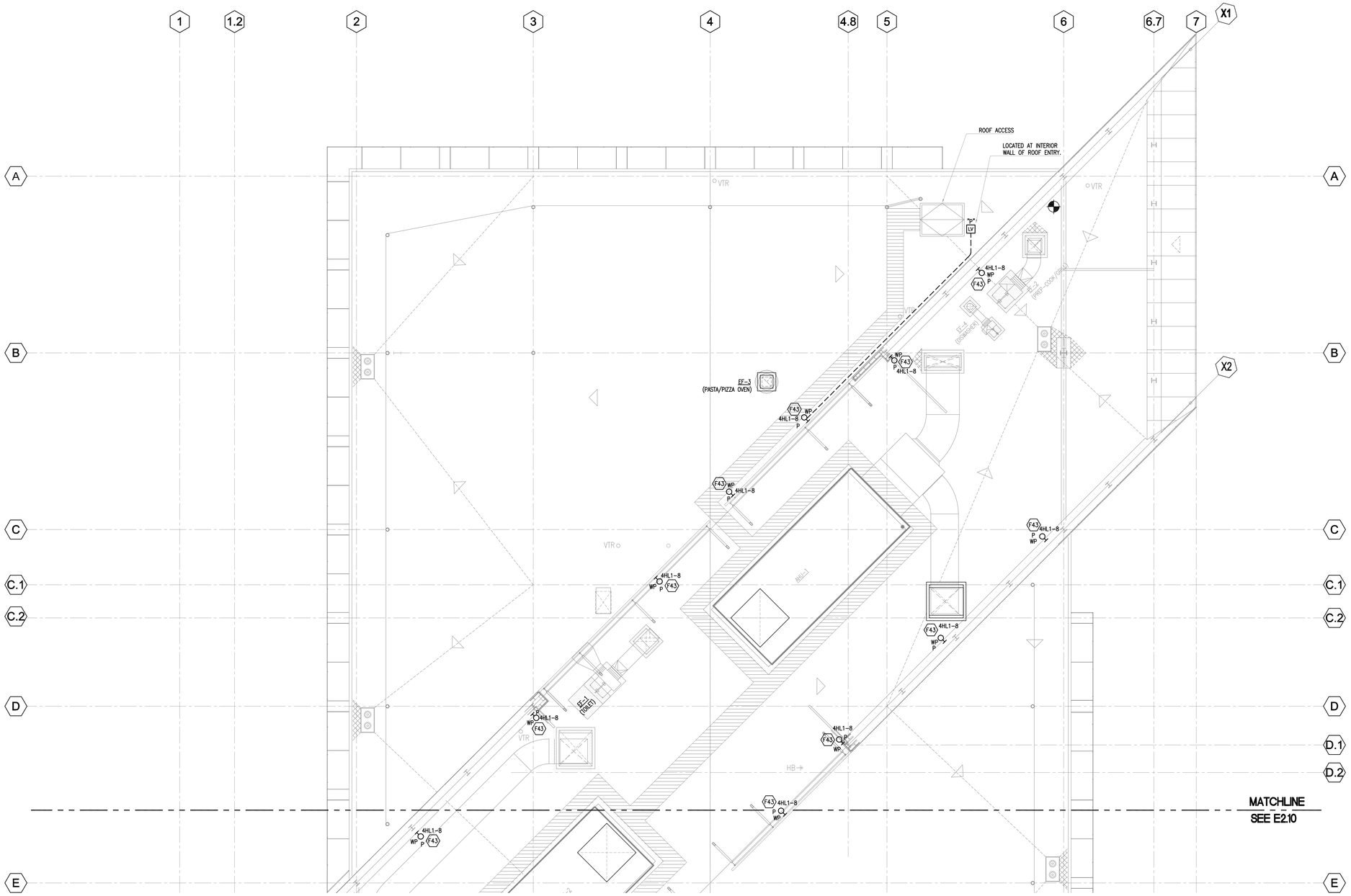
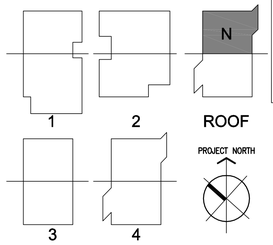


1 E2.09 Lighting Plan - Roof - North

SCALE: 1/8"=1'-0"

GENERAL NOTES

A. ALL 277V, NORMAL ROOF LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "4HL1", U.O.N. AND SHALL BE CONTROLLED BY A MANUAL L.V. WALL SWITCH AT INTERIOR SIDE OF ROOF ENTRY, AND A PHOTOSENSOR, VIA "LCP4".



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Revision	Description	Date
1	FCO-11 EXIT SIGN COORDINATION	01/21/10
2	HOOD/EF CONFLICTS	12/14/09
3	2010 FIRE LIGHTING CONTROLS	03/24/10
4	FCO-014 ELEC. CHANGES DUE TO FIRE SYSTEM	03/24/10
5	DSA COMM. Comments Set	03/24/10
6	FCO-020 FINANCIAL AID CHANGES - FCO-020	03/24/10
7	4TH FLR VP, SUITES CHANGES - FCO-026	03/24/10
8	4TH FLR CONFERENCE RMS 401 & 411 REVISIONS - FCO-040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	05/08/08
	50% Construction Documents	07/28/08
	DSA Submittal	09/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHIT	07/28/09
2	FCO 014	08/05/09
3	FCO 016	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
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Lighting Plan
Roof - North

E2.09

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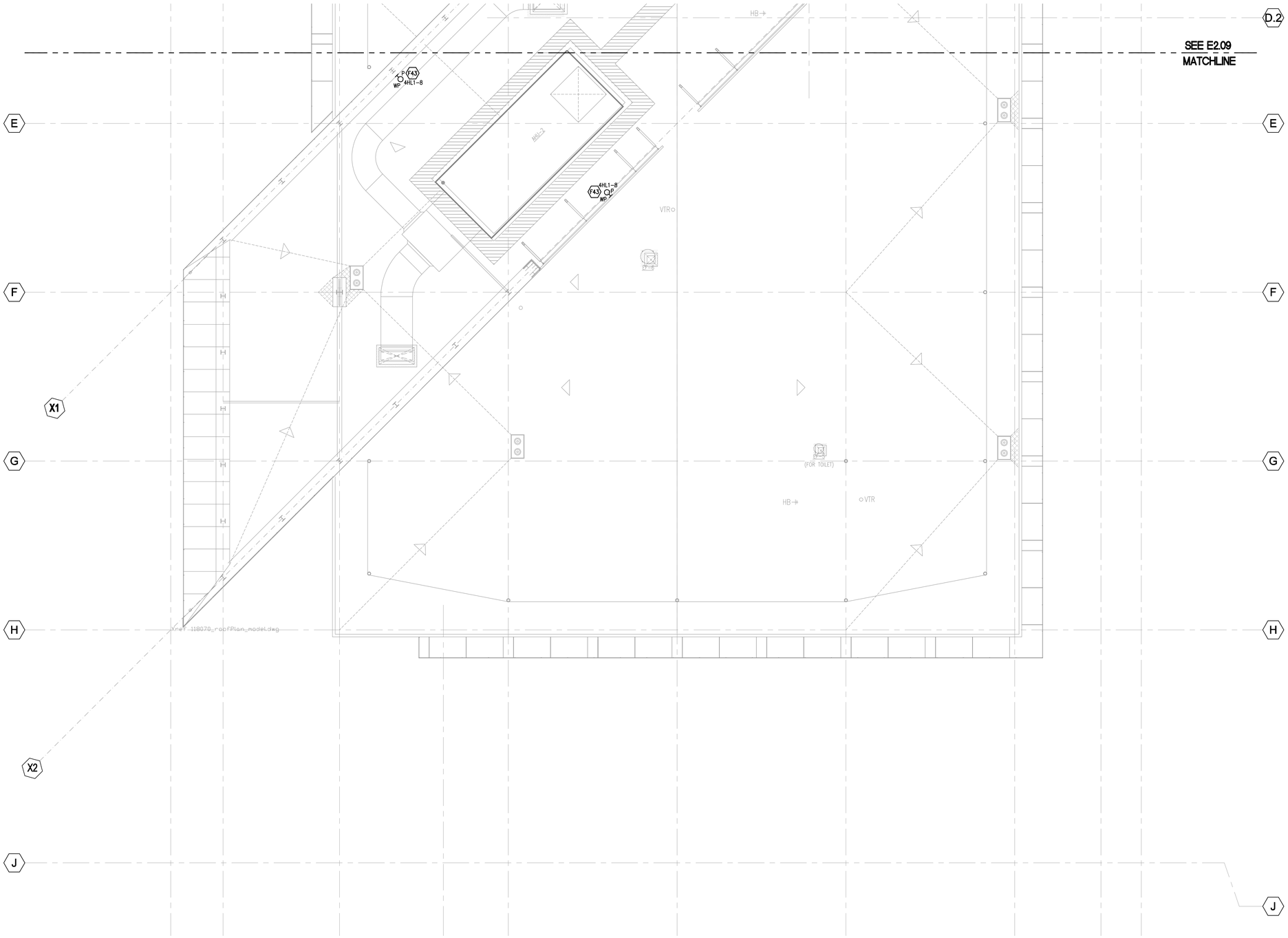
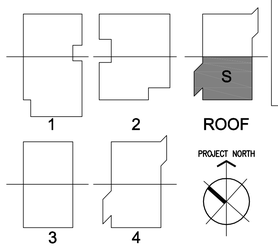


1 E2.10 Lighting Plan - Roof - South
SCALE: 1/8"=1'-0"

GENERAL NOTES

A.	ALL 277V, NORMAL ROOF LIGHTING DEVICES SHALL BE CIRCUITED TO PANEL "4HL1", U.O.N. AND SHALL BE CONTROLLED BY A MANUAL L.V. WALL SWITCH AT INTERIOR SIDE OF ROOF ENTRY, AND A PHOTOSENSOR, VIA "LCP4".



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Revision	Description	Date
1	FCD-11 EXIT SIGN COORDINATION	01/11/10
2	PENDANT CEILING SIGN	FCD 041 12/14/09
3	2ND FLR LOUNGE/CENTER A	FCD 023 03/24/10
4	2ND FLR LOUNGE/CENTER A 4TH & 5TH FFPE	FCD 023 03/24/10
5	DSA-CC-01 Comments-Set	03/24/10
6	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
7	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
8	4TH FLR CONFERENCE RM #1 & #3 REVISIONS - FCD 040	03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
10	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	06/19/08
	50% Construction Documents	07/29/08
	DSA Submittal	09/18/08
	95% Construction Documents	11/26/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER AHCHT	07/28/09
2	FCD 014	08/05/09
3	FCD 016	09/15/09
4	4TH FLR OFFICES RD/SOCHER OWNER - FCD 020	11/20/09

Job. No.	
Date	March 2009
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Lighting Plan
Roof - South

E2.10

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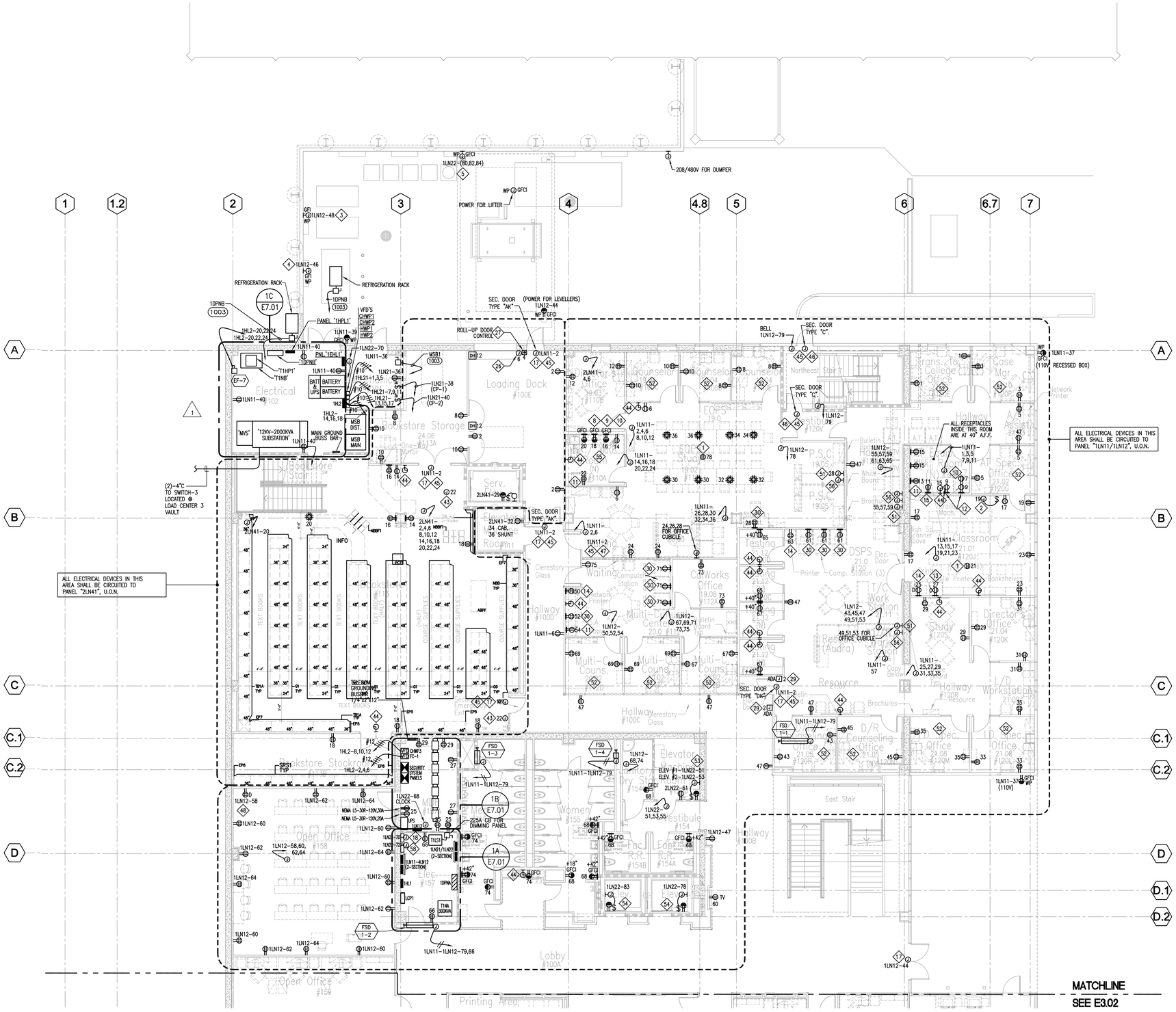


1 E3.01 Power Plan - Level 1 - North
SCALE: 1/8"=1'-0"

SHEET NOTES

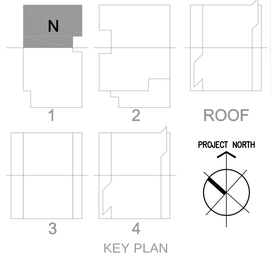
1. 120V, 20A CEILING RECEPTACLE FOR LCD TV PROJECTOR (COORDINATE EXACT LOCATION W/ ARCHT).
2. 120V POWER, J-BOX FOR PROJECTOR SCREEN.
3. 120V POWER, J-BOX FOR CART WASH (COORDINATE EXACT LOCATION W/ ARCH).
4. 120V POWER, J-BOX FOR GOLF CART CHARGER (COORDINATE EXACT LOCATION W/ ARCH).
5. 208V POWER, J-BOX FOR COMPACTOR (COORDINATE EXACT LOCATION W/ ARCH).
8. 120V POWER, DEDICATED RECEPTACLE FOR MICROWAVE.
9. 120V POWER, DEDICATED RECEPTACLE FOR COFFEE MAKER.
10. 120V POWER, DEDICATED RECEPTACLE FOR REFRIGERATOR.
11. 120V POWER, DEDICATED RECEPTACLE FOR COPIER.
12. 120V POWER, FOR RECEPTACLE FOR BRAILLE MACHINE.
13. 120V POWER, DEDICATED RECEPTACLE FOR BRAILLE PRINTER.
14. 120V POWER, DEDICATED RECEPTACLE FOR PRINTER.
15. 120V POWER, DEDICATED RECEPTACLE FOR HIGH SPEED SCANNER.
16. 120V POWER, J-BOX FOR HAND DRYER.
17. 120V POWER, J-BOX FOR VON DUPRIN SECURITY DEVICES. PROVIDE 1"C. W/ PULL STRING TO ACCESSIBLE CEILING.
18. 120V POWER, J-BOX FOR BUILDING MANAGEMENT SYSTEM (BMS) PANEL.
26. ____V POWER, J-BOX FOR MOTORIZED ROLL-UP DOOR.
27. CONTROL BOX FOR ROLL-UP DOOR.
29. 120V, POWER TO J-BOX PER ADA REQUIREMENTS FOR AUTOMATIC "DOOR OPEN" PUSH BUTTON.
30. 120V, 20A RECEPTACLE FOR COMPUTER STATION MOUNTING HEIGHT TO BE COORDINATED WITH THE ARCHITECT, TYPICAL.
43. 120V POWER TO J-BOX FOR THEFT MONITORING DEVICE. COORDINATE WITH ARCHITECT/ OR VENDOR. CABLING SHOULD NOT BE VISIBLE. J-BOXES ARE POKE THROUGH SO THAT CABLING IS CONCEALED.
44. 120V, POWER TO WALL CLOCK, MOUNTED AT 12" BELOW CEILING TO TOP OF CLOCK, CENTER ON WALL, U.O.N. L1 CLOCKS FED FROM 1LN22-68.
45. REFER TO SECURITY DRAWING SEC.2.01.
46. PROVIDE 3/4"C. W/ PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DRAWING SEC.4.01 FOR DETAIL.
47. PROVIDE J-BOX W/ 1"C. OR 3/4"C. AND PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DRAWING SEC.4.01 FOR DETAIL.
48. MEDIA CABINET – 2"C FOR AV, ¾"C FOR PROJECTOR WITH PULL STRING TO ACCESSIBLE CEILING.
51. FURNITURE FEED AT 18" A.F.F.
52. TYPICAL OFFICE: OUTLETS LOCATED ON OPPOSITE WALLS, 36" FROM EACH SIDE"
53. 120V POWER FOR ELEVATOR CABINET LIGHTS.
54. 120V POWER FOR ELEVATOR PIT.
55. RECEPTACLE TO BE MOUNTED HORIZONTAL ABOVE BACK SPLASH @ 42" TO CENTER.
56. 1 1/4" CONDUIT FOR DATA FEED.
58. 120V POWER, J-BOX FOR FA POWER.
67. SPECIAL PHONE BOX PROVIDED BY OWNER WITH CONDUIT TO ACCESSIBLE CEILING.

DOOR TYPES & APPLICATION

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
AK	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR KP C RX EL
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR C RX EL
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	C RX EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	C RX
DK	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR KP ADA C RX EL
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	LA C
SP	IN/OUT CARD READER WITH DOOR MANAGEMENT ALARM	A CARD OR FOB MUST BE PRESENTED TO USE THIS DOOR TO EXIT OR ENTER OTHERWISE AN AUDIBLE ALARM NEAR THE DOOR WILL SOUND.	CR KP CR K C EL
DB	DURESS BUTTON	EMERGENCY BUTTON	DB
H	MONITORED ONLY	MANITORED BY THE ACAMS TO DETERMINE DOOR POSITION (OPEN OR CLOSED).	H

SECURITY CONVENTIONS

CR	CARD READER, MOUNTED +42" AFF UON.	LA	LOCAL AUDABLE ALARM
CR K	CARD READER WITH KEYPAD,MOUNTED +42" AFF UON.	SJB	SECURITY DOOR JUNCTION BOX 12"x16"x6" D., U.O.N.
KP	KEYPAD, MOUNTED +42" AFF UON.	C	MAGNETIC DOOR CONTACT MOUNTED IN DOOR HEADER
ED	ELECTRIC EXIT DEVICE	DB	DURESS BUTTON (BLANK) = UNDERCOUNTER P = PULL STATION
EL	ELECTRIC MORTISE LOCK	DR	DOOR RELEASE W = WALL MOUNT
ADA	ADA CARD READER/AUTOMATIC DOOR OPEN- PUSH BUTTON	RX	REX MOTION DETECTOR, WALL OR CEILING MOUNTED ABOVE DOOR
DH	DOOR HOLD RELEASE DEVICE	H	ROLL-UP DOOR (WIDE GAP)
			SECURITY ACAMS/CCTV EQUIPMENT CABINET



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FILE NUMBER: 41-C1

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ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

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www.rosendin.com
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880 Mabury Road
San Jose, CA 95133
(408) 286-2000
Arizona California Nevada New Mexico Oregon

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	FCO 44 EXIT SIGN COORDINATION	07/11/09
2	RECEPTACLE FOR AIR SIGN	1/21/1409
3	FCO 001	03/24/10
4	FCO FOR LEARNING CENTER & ADA ACCESS COMPLIANCE AT FSA OFFICE	03/24/10
5	FCO 002	03/24/10
6	3RD FLR FINANCIAL AID CHANGES - FCO 008	03/24/10
7	4TH FLR V.P. SUITES CHANGES - FCO 009	03/24/10
8	5TH FLR CONFERENCE RM 401 & 401 RESTROOMS - FCO 040	03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
10	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	05/15/08
2	50% Construction Documents	07/29/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/09/08
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
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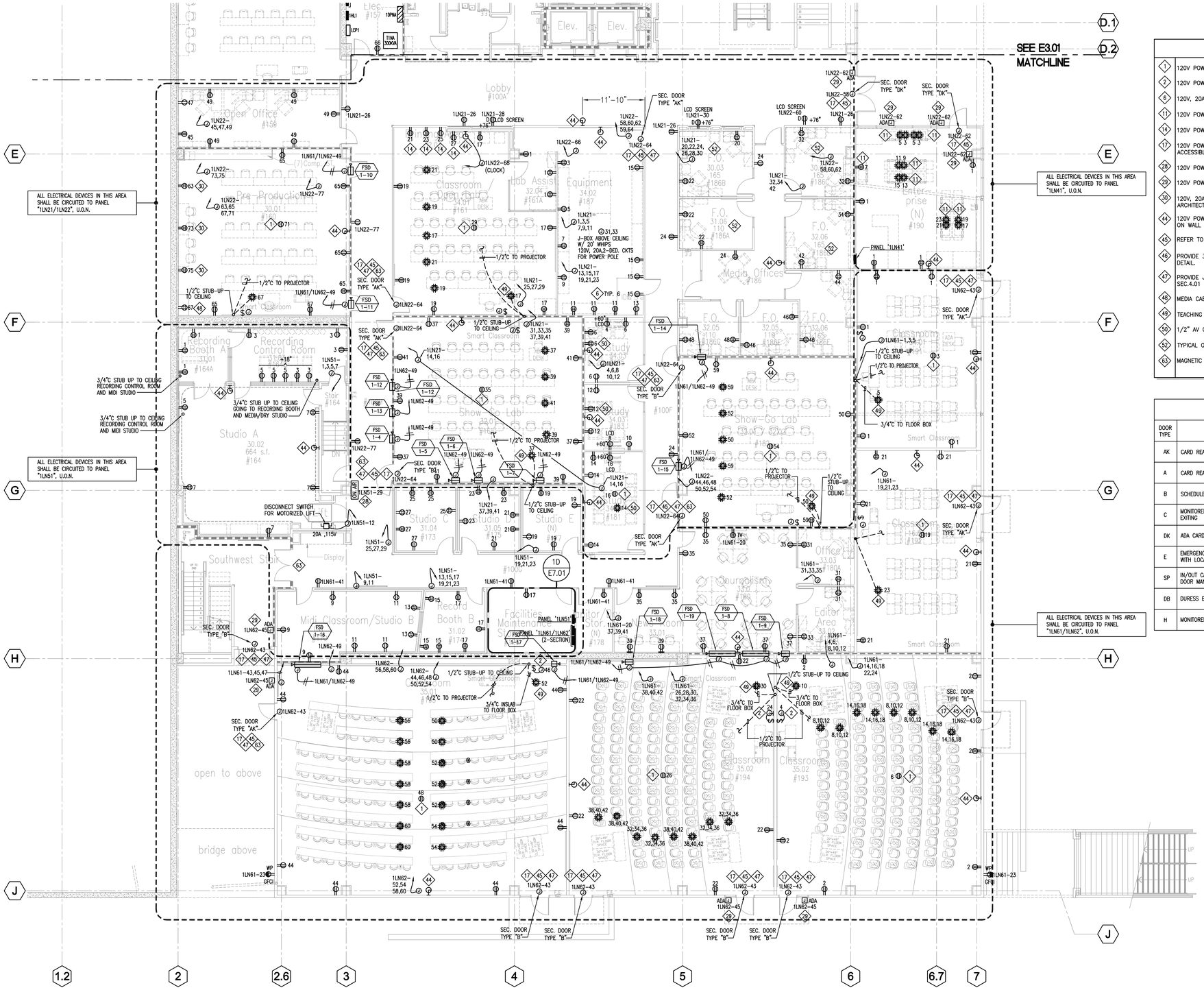
Checked by	
Scale	

Power Plan
Level 1 - North

E3.01

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E3.01_POWER PLAN LEVEL 1-NORTH.dwg - Nov 07, 2011 Monday - 7:13pm - 30x42-Plt - SFERMIL



1 E3.02 Power Plan - Level 1 - South
SCALE: 1/8"=1'-0"

SHEET NOTES

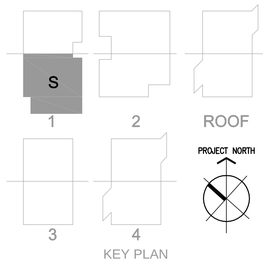
1	120V POWER TO CEILING MOUNTED RECEPTACLE FOR LCD/PROJECTOR. VERIFY EXACT LOCATION.
2	120V POWER TO J-BOX FOR PROJECTOR SCREEN. VERIFY EXACT LOCATION.
6	120V, 20A DUPLEX RECEPTACLES FOR EQUIPMENT RECHARGERS.
11	120V POWER, DEDICATED RECEPTACLE FOR COPIER.
14	120V POWER, DEDICATED RECEPTACLE FOR PRINTER.
17	120V POWER, J-BOX FOR VON DUPRIN SECURITY DEVICES. PROVIDE 1"C. W/ PULL STRING TO ACCESSIBLE CEILING.
28	120V POWER TO J-BOX LIGHT BOX "ON AIR SIGN".
29	120V POWER TO J-BOX PER ADA REQUIREMENTS FOR AUTOMATIC DOOR OPEN PUSH BUTTON.
30	120V, 20A RECEPTACLE FOR COMPUTER STATION MOUNTING HEIGHT TO BE COORDINATED WITH ARCHITECT, TYPICAL.
44	120V POWER TO WALL CLOCK, MOUNT AT 12" BELOW CEILING TO TOP OF CLOCK, CENTER ON WALL U.O.N. L1 CLOCKS FED FROM 1LN22-68.
45	REFER TO SECURITY DRAWING SEC.2.01.
46	PROVIDE 3/4"C. W/ PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DRAWING SEC.4.01 FOR DETAIL.
47	PROVIDE J-BOX W/ 1"C. OR 3/4"C. AND PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DRAWING SEC.4.01 FOR DETAIL.
48	MEDIA CABINET – 2"C FOR AV, $\frac{1}{2}$"C FOR PROJECTOR WITH PULL STRING TO ACCESSIBLE CEILING.
49	TEACHING PODIUM – 2"C FOR AV, $\frac{1}{2}$"C FOR PROJECTOR TO ACCESSIBLE CEILING.
50	1/2" AV CONDUIT TO LCD SCREEN.
52	TYPICAL OFFICE; OUTLETS LOCATED ON OPPOSITE WALLS, 36" FROM EACH SIDE.
63	MAGNETIC HOLD-OPEN.

DOOR TYPES & APPLICATION

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
AK	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR KP C RX EL
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR C RX EL
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	C RX EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	C RX
DK	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR KP ADA C RX EL
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	LA C
SP	IN/OUT CARD READER WITH DOOR MANAGEMENT ALARM	A CARD OR FOB MUST BE PRESENTED TO USE THIS DOOR TO EXIT OR ENTER OTHERWISE AN AUDIBLE ALARM NEAR THE DOOR WILL SOUND.	CR KP CR K C EL
DB	DURESS BUTTON	EMERGENCY BUTTON	DB
H	MONITORED ONLY	MANITORED BY THE ACAMS TO DETERMINE DOOR POSITION (OPEN OR CLOSED).	H

SECURITY CONVENTIONS

CR	CARD READER, MOUNTED +42" AFF UON.
CR K	CARD READER WITH KEYPAD, MOUNTED +42" AFF UON.
KP	KEYPAD, MOUNTED +42" AFF UON.
ED	ELECTRIC EXIT DEVICE
EL	ELECTRIC MORTISE LOCK
ADA	ADA CARD READER/AUTOMATIC DOOR OPEN – PUSH BUTTON
DH	DOOR HOLD RELEASE DEVICE
LA	LOCAL AUDABLE ALARM
SJB	SECURITY DOOR JUNCTION BOX 12"x16"x6" D., U.O.N.
C	MAGNETIC DOOR CONTACT MOUNTED IN DOOR HEADER
DB	DURESS BUTTON (BLANK) = UNDERCOUNTER P = PULL STATION
DR	DOOR RELEASE W = WALL MOUNT
RX	REX MOTION DETECTOR, WALL OR CEILING MOUNTED ABOVE DOOR
H	ROLL-UP DOOR (WIDE GAP)
	SECURITY ACAMS/CCTV EQUIPMENT CABINET



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ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCARTHY
LPA
KH

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
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F 415 397-5999

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Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
4	FCO 41 EXIT SIGN COORDINATION	03/11/10
3	PROJECT ON AIR SIGN	FCO 041 12/14/09
2	2ND FLOOR LEARNING CENTER & 4TH FLOOR OFFICES - FCO 020	03/23/10
1	DSA CO CL Comments set	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
3	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
2	4TH FLR CONFERENCE RMS 401 & 401 REVISIONS - FCO 040	03/24/10
1	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/01/08
2	50% Construction Documents	07/30/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/09/08
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHT	07/30/09
7	FCO 034	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
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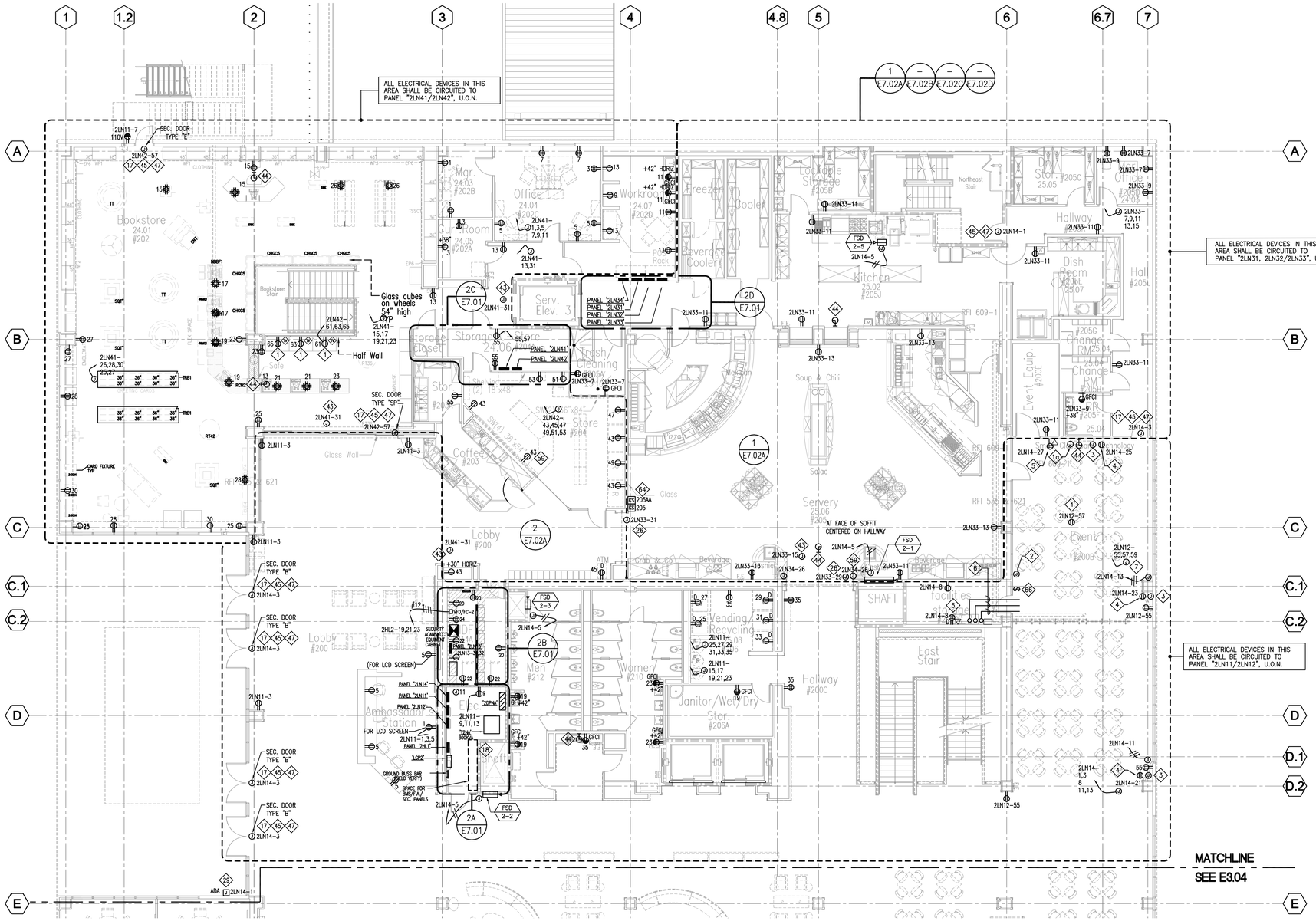
Scale	

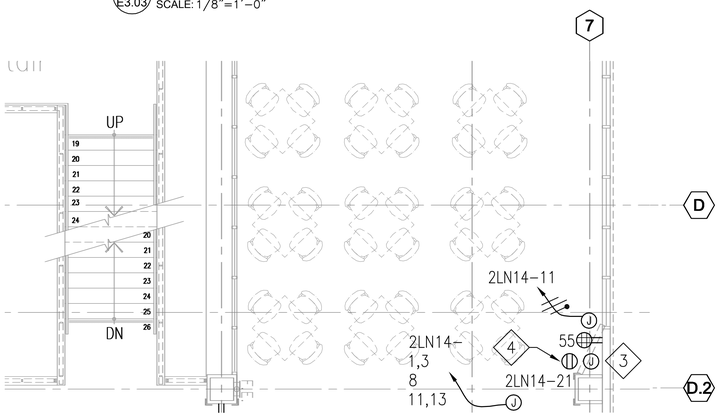
Power Plan
Level 1 - South

E3.02

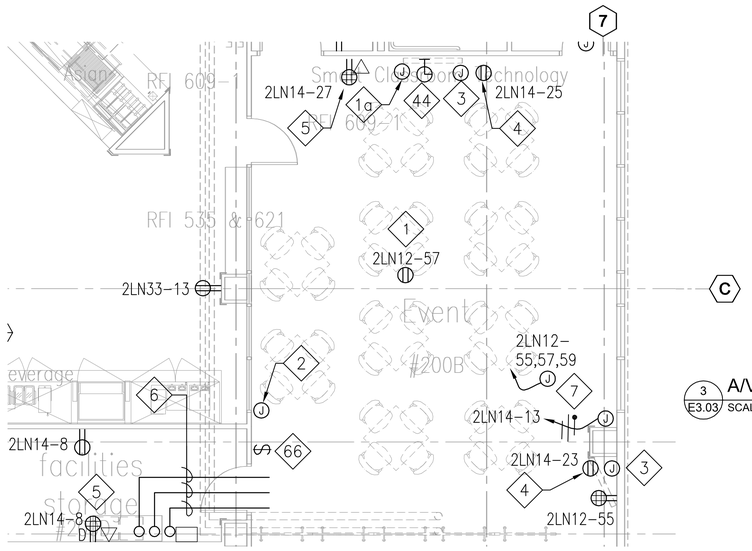
L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E3.02_POWER PLAN LEVEL 1-SOUTH.dwg – Nov 07, 2011 Monday – 7:14pm – 30x42-Plt – SFERMIL



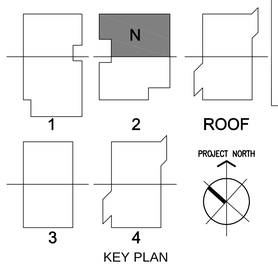
1 E3.03 Power Plan - Level 2 - North
SCALE: 1/8"=1'-0"



2 E3.03 A/V Plan - Event (200B)
SCALE:



3 E3.03 A/V Plan - Event (200B)
SCALE: 1/4"=1'-0"



KEY PLAN

SHEET NOTES

1	120V, 20A CEILING RECEPTACLE FOR LCD TV (COORDINATE EXACT LOCATION W/ ARCHITECT).
1a	AUDIO /VISUAL RECESSED J-BOX (MEIR PRODUCTS B1-314, 16"x16"), +24" A.F.F. TO BOTTOM, 2"C. TO CEILING, (COORDINATE EXACT LOCATION W/ ARCHITECT).
2	ROOM CONTROLS RECESSED J-BOX (MEIR PRODUCTS BW-314, 16"x16"), +42" A.F.F. TO CENTER, FOR MECHO SHADES & LIGHTING. (COORDINATE EXACT LOCATION W/ ARCHITECT).
3	A/V BOX FOR FLAT SCREEN, 4-11/16" DEEP WITH 2G RING. 1-1/4" C. TO CEILING. (COORDINATE EXACT LOCATION W/ ARCHITECT).
4	A/V BOX FOR FLAT SCREEN, 4-11/16" DEEP WITH 2G RING. 1-1/4" C. TO CEILING. (COORDINATE EXACT LOCATION W/ ARCHITECT).
5	A/V POWER & DATA.
6	(3)-2"C., A/V PATHWAY TO CEILING IN ROOM 220B, STUB TO 5'-0" A.F.F. IN ROOM 200D.
7	120V POWER, CEILING MOUNTED RECEPTACLE FOR CEILING MOUNTED. FLAT SCREEN.
17	120V POWER, J-BOX FOR VON DUPRIN SECURITY DEVICE. PROVIDE 1"C. PULL STRING TO ACCESSIBLE CEILING.
18	120V POWER, J-BOX FOR (BMS) BUILDING MANAGEMENT SYSTEM PANEL.
26	120V POWER FOR ROLL-UP DOOR.
29	120V POWER TO J-BOX PER ADA REQUIREMENTS FOR AUTOMATIC DOOR OPEN PUSH BUTTON.
43	120V POWER TO J-BOX FOR THEFT MONITORING DEVICE. COORDINATE WITH ARCHITECT/ OR VENDOR. CABLING SHOULD NOT BE VISIBLE. J-BOXES ARE POKE THROUGH SO THAT CABLING IS CONCEALED.
44	120V POWER TO WALL CLOCK, MOUNT AT 12" BELOW CEILING TO TOP OF CLOCK, CENTER ON WALL, U.O.N. 2ND FLOOR CLOCKS TO BE FED FROM 2LN14-12.
45	SEE TABLE BELOW FOR SECURITY DOOR TYPES POWER REQUIREMENTS. ALSO, REFER TO SECURITY DRAWING SEC.2.02.
47	PROVIDE J-BOX W/ 1"C. OR 3/4"C. AND PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DRAWING SEC.4.01 FOR DETAIL.
52	TYPICAL OFFICE OUTLETS LOCATED ON OPPOSITE WALLS 36" FROM EACH SIDE.
57	AUDIO PANEL (COORDINATE EXACT LOCATION AND CONDUIT REQUIREMENTS W/ ARCHITECT).
58	120V POWER, J-BOX FOR FA POWER.
59	POWER OUTLETS FOR CASH REGISTER.
64	KEY SWITCH FOR ROLL-UP DOOR CONTROL TO BE LOCATED BY ARCHITECT.
66	SWITCH FOR MECHO SHADES.

DOOR TYPES & APPLICATION

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
AK	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR KP C RX EL
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR C RX EL
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	C RX EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	C RX
DK	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR KP ADA C RX EL
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	LA C
SP	IN/OUT CARD READER WITH DOOR MANAGEMENT ALARM	A CARD OR FOB MUST BE PRESENTED TO USE THIS DOOR TO EXIT OR ENTER OTHERWISE AN AUDIBLE ALARM NEAR THE DOOR WILL SOUND.	CR KP CR K C EL
DB	DURESS BUTTON	EMERGENCY BUTTON	DB
H	MONITORED ONLY	MANITORED BY THE ACAMS TO DETERMINE DOOR POSITION (OPEN OR CLOSED).	H

SECURITY CONVENTIONS

CR	CARD READER, MOUNTED +42" AFF UON.
CR K	CARD READER WITH KEYPAD, MOUNTED +42" AFF UON.
KP	KEYPAD, MOUNTED +42" AFF UON.
ED	ELECTRIC EXIT DEVICE
EL	ELECTRIC MORTISE LOCK
ADA	ADA CARD READER/AUTOMATIC DOOR OPEN - PUSH BUTTON
DH	DOOR HOLD RELEASE DEVICE
LA	LOCAL AUDABLE ALARM
SJB	SECURITY DOOR JUNCTION BOX 12"x16"x6" D., U.O.N.
C	MAGNETIC DOOR CONTACT MOUNTED IN DOOR HEADER
DB	DURESS BUTTON (BLANK) = UNDERCOUNTER P = PULL STATION
DR	DOOR RELEASE W = WALL MOUNT
RX	REX MOTION DETECTOR, WALL OR CEILING MOUNTED ABOVE DOOR
H	ROLL-UP DOOR (WIDE GAP)
	SECURITY ACAMS/CCTV EQUIPMENT CABINET

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ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

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Revision	Description	Date
1	CCD 14 EXIT SIGN COORDINATION	03/10/10
2	REVISED CKT AND SIGN	07/21/10
3	2ND FLR LEARNING CENTER & 2ND FLR CONFERENCE RM & 1ST FLR OFFICE - FCD 002	03/24/10
4	2ND FLR LEARNING CENTER & ESA CCD 01 Comment Set	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCD 008	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCD 009	03/24/10
7	4TH FLR CONFERENCE RM 401 & 401 REVISIONS - FCD 010	03/24/10
8	CCD 013	03/31/10
9	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/07/11

Revision	Description	Date
0	100% Design Development	03/10/09
1	50% Construction Documents	06/05/09
2	DSA Submittal	07/20/09
3	95% Construction Documents	09/18/09
4	DSA Final	12/08/09
5	ELEC EM CHANGES PER ARCHT	03/11/09
6	CCD 014	07/20/09
7	CCD 016	08/05/09
8	4TH FLR OFFICES REVISION PER OWNER - FCD 020	09/15/09
9		11/20/09

Job No.	
Date	March 2009
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Power Plan
Level 2 - North

E3.03

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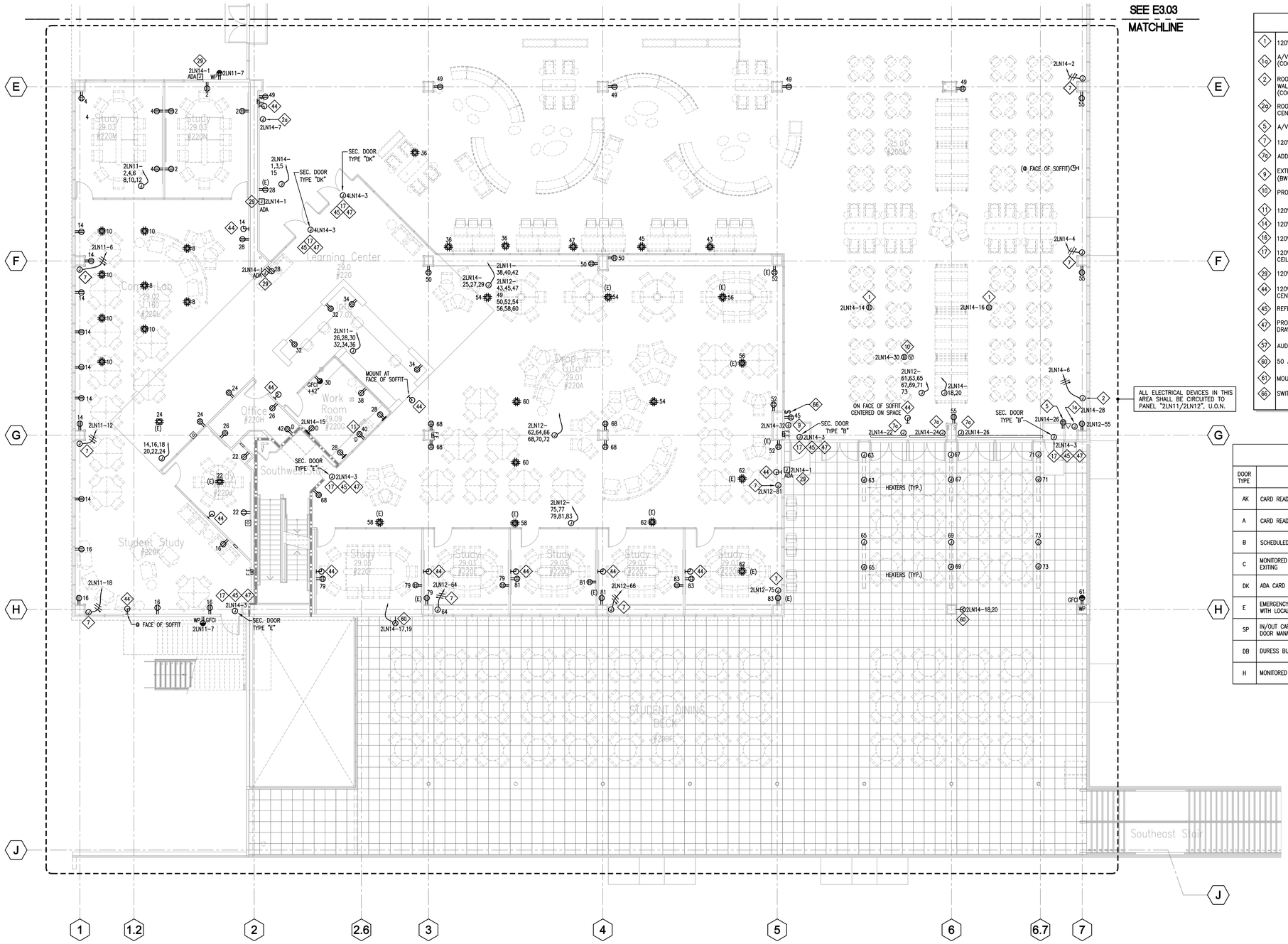
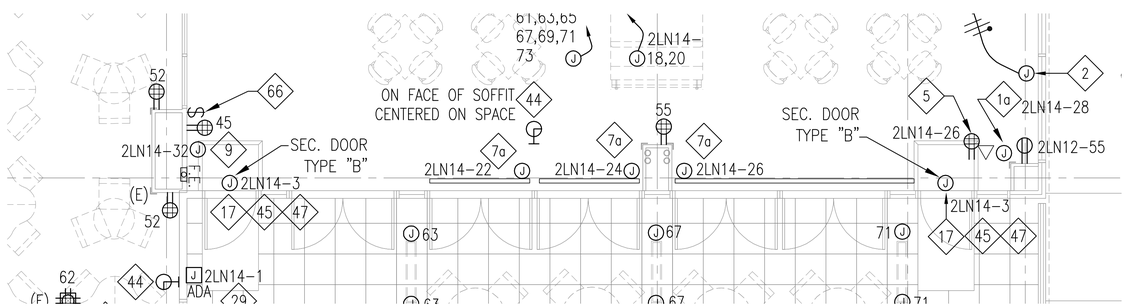


1 E3.04 Power Plan - Level 2 - South
SCALE: 1/8"=1'-0"



SHEET NOTES

1	120V, 20A CEILING RECEPTACLE FOR LCD TV (COORDINATE EXACT LOCATION W/ ARCHT).
1a	A/V RECESSED BOX, MEIR PRODUCTS BW-314 16"x16", +24" A.F.F. TO BOTTOM, 2"C. TO CEILING. (COORDINATE EXACT LOCATION W/ ARCHT).
2	ROOM CONTROLS FOR MECHO SHADES, PROJECTOR SCREEN, LIGHTING, & MECHO SHADES AT WEST WALL. A/V RECESSED BOX, MEIR PRODUCTS BW-314 16"x16", +42" A.F.F. TO CENTER. (COORDINATE EXACT LOCATION W/ ARCHT).
2a	ROOM CONTROL FOR LIGHTING. RECESSED BOX, MEIR PRODUCTS BW-314 16"x16", +42" A.F.F. TO CENTER. (COORDINATE EXACT LOCATION W/ ARCHT).
5	A/V POWER AND DATA AT +18" A.F.F.
7	120V POWER, J-BOX FOR MECHO SHADE. SWITCHES TO BE LOCATED W/ AREA LIGHTING SWITCH.
7a	ADDED MECHO SHADES TO BE SWITCHED INDEPENDENTLY FROM FROM MECHO SHADES AT WEST WALL.
9	EXTERIOR CONTROLS FOR EXTERIOR HEATERS & EXTERIOR LIGHTS, RECESSED BOX MEIR PRODUCTS (BW-314, 16"x16") , +42" TO CENTER.
10	PROJECTOR POWER AND DATA, MOUNT AT 12" BEHIND PROJECTOR MOUNTS.
11	120V POWER, DEDICATED RECEPTACLE FOR COPIER.
14	120V POWER, DEDICATED RECEPTACLE FOR PRINTER.
16	120V POWER, J-BOX FOR HAND DRYER.
17	120V POWER, J-BOX FOR VON DUPRIN SECURITY DEVICE. PROVIDE 1"C. PULL STRING TO ACCESSIBLE CEILING.
29	120V POWER TO J-BOX PER ADA REQUIREMENTS FOR AUTOMATIC DOOR OPEN PUSH BUTTON.
44	120V, POWER TO WALL CLOCK, MOUNTED AT 12" BELOW CEILING TO TOP OF CLOCK, CENTER ON WALL, U.O.N. 2ND FLOOR CLOCKS TO BE FED FROM 2LN14-12.
45	REFER TO SECURITY DRAWING SEC.2.02.
47	PROVIDE J-BOX W/ 1"C. OR 3/4"C. AND PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DRAWING SEC.4.01 FOR DETAIL.
57	AUDIO PANEL (COORDINATE EXACT LOCATION AND CONDUIT REQUIREMENTS W/ ARCHITECT).
60	50 AMP POWER CONNECTION FOR EVENT POWER, 208V, 1ø, RECESSED IN WALL.
61	MOUNT RECEPTACLE IN FACE OF MILLWORK BENCH @ 18" A.F.F.
66	SWITCH FOR MECHO SHADES.

DOOR TYPES & APPLICATION

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
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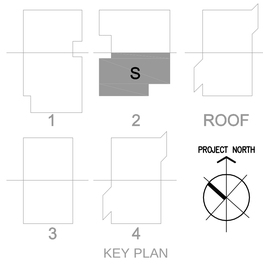
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR C RX EL
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	C RX EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	C RX
DK	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR KP ADA C RX EL
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	LA C
SP	IN/OUT CARD READER WITH DOOR MANAGEMENT ALARM	A CARD OR FOB MUST BE PRESENTED TO USE THIS DOOR TO EXIT OR ENTER OTHERWISE AN AUDIBLE ALARM NEAR THE DOOR WILL SOUND.	CR KP CR K C EL
DB	DURESS BUTTON	EMERGENCY BUTTON	DB
H	MONITORED ONLY	MANITORED BY THE ACAMS TO DETERMINE DOOR POSITION (OPEN OR CLOSED).	H

SECURITY CONVENTIONS

CR	CARD READER, MOUNTED +42" AFF UON.
CR K	CARD READER WITH KEYPAD, MOUNTED +42" AFF UON.
KP	KEYPAD, MOUNTED +42" AFF UON.
ED	ELECTRIC EXIT DEVICE
EL	ELECTRIC MORTISE LOCK
ADA	ADA CARD READER/AUTOMATIC DOOR OPEN – PUSH BUTTON
DH	DOOR HOLD RELEASE DEVICE
LA	LOCAL AUDABLE ALARM
SJB	SECURITY DOOR JUNCTION BOX 12"x16"x6" D., U.O.N.
C	MAGNETIC DOOR CONTACT MOUNTED IN DOOR HEADER
DB	DURESS BUTTON (BLANK) = UNDERCOUNTER P = PULL STATION
DR	DOOR RELEASE W = WALL MOUNT
RX	REX MOTION DETECTOR, WALL OR CEILING MTD. ABOVE DOOR
H	ROLL-UP DOOR (WIDE GAP)
	SECURITY ACAMS/CCTV EQUIPMENT CABINET

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE. 11-07-2011



McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

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OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
AC _____ FLS _____ SS _____
DATE _____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/13
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
ROSENDIN ELECTRIC
www.rosendin.com
CORPORATE HEADQUARTERS
880 Mabury Road
San Jose, CA 95133
(408) 286-2800
Arizona California Nevada New Mexico Oregon

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College of San Mateo Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	CCD-14 EXIT SIGN COORDINATION	03/12/10
2	REX MOTION ON AIR DOCK	07/28/10
3	2ND FLT LEARNING CENTER & 1ST FLT SUPPORT - FCD 001	12/14/09
4	ADA CCD CLOSEOUT - FCD 003	03/24/10
5	2ND FLT CLOSEOUT - FCD 008	03/24/10
6	3RD FLT FINANCIAL AID CHANGES - FCD 009	03/24/10
7	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
8	CTI FLR CONFERENCE RMS 401 & 410 REVISIONS - FCD 040	03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
10	ELECTRICAL - DRAWING OF RECORD	11/07/11

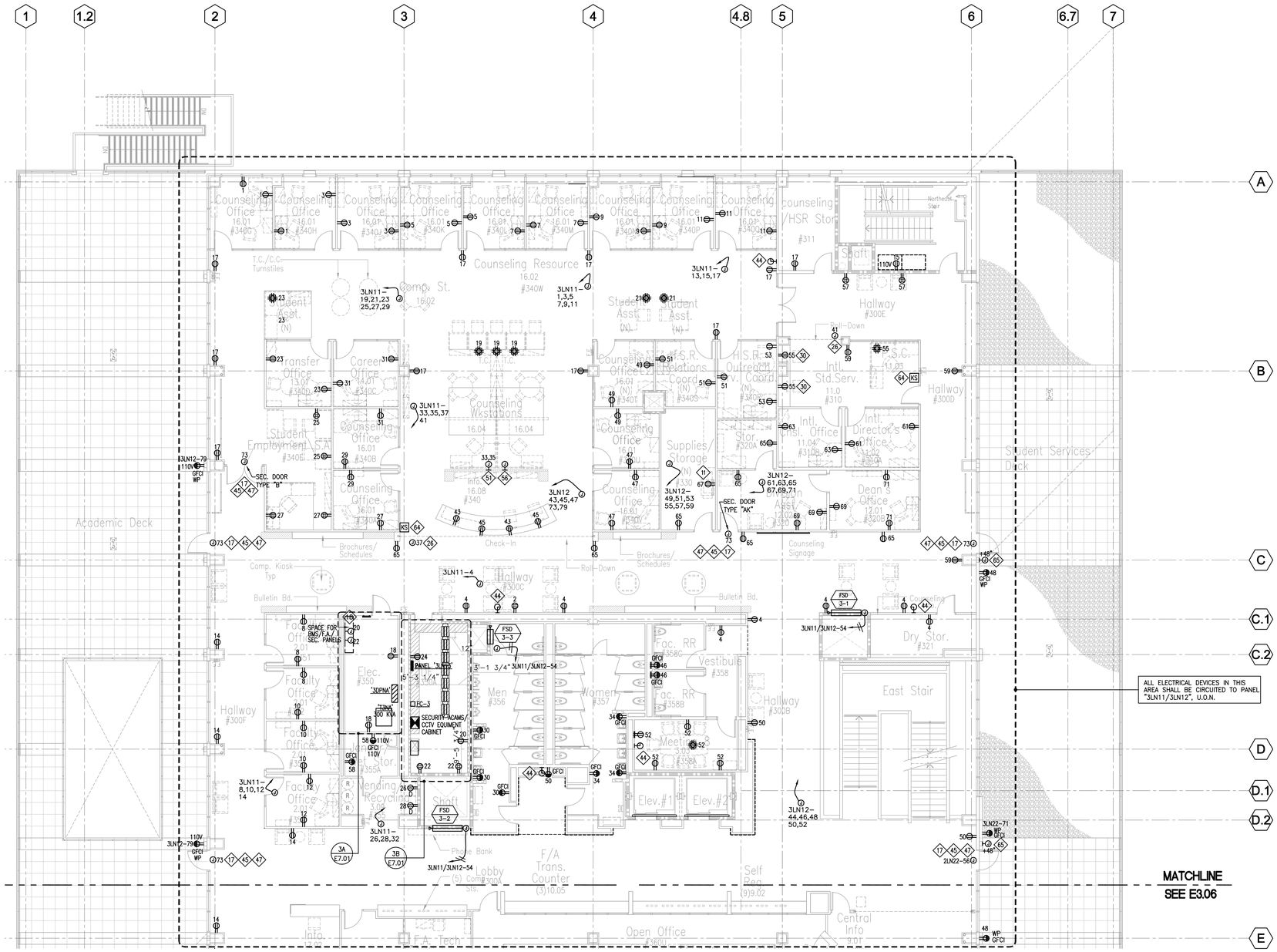
Revision	Description	Date
0	100% Design Development	06/05/08
1	50% Construction Documents	07/28/08
2	DSA Submittal	09/18/08
3	95% Construction Documents	12/08/08
4	DSA Final	03/11/09
5	ELEC RM CHANGES PER ARCHT	07/28/09
6	FCD 034	08/05/09
7	FCD 016	09/15/09
8	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Power Plan
Level 2 - South

E3.04-R1

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E3.04_POWER PLAN LEVEL 2-SOUTH.dwg - Nov 07, 2011 Monday - 7:16pm - 30x42-Plt - SFERMIL



1 E3.05 Power Plan - Level 3 - North

SCALE: 1/8"=1'-0"

SHEET NOTES

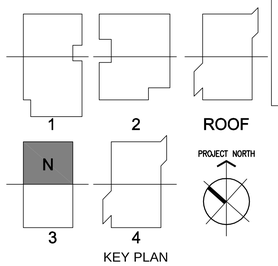
11	120V POWER, DEDICATED RECEPTACLE FOR COPIER.
16	NOT USED.
17	120V POWER, J-BOX FOR VON DUPRIN SECURITY DEVICE. PROVIDE 1"C. PULL STRING TO ACCESSIBLE CEILING.
18	120V, J-BOX FOR (BMS) BUILDING MANAGEMENT SYSTEM PANEL.
26	120V POWER FOR MOTORIZED ROLL-UP DOOR.
30	MOUNTING HEIGHT OF RECEPTACLE AT COMPUTER STATIONS TO BE COORDINATED WITH THE ARCHITECT.
44	120V, POWER TO WALL CLOCK, MOUNTED AT 12" BELOW CEILING TO TOP OF CLOCK, CENTER ON WALL, U.O.N. 3RD FLOOR CLOCKS TO BE FED FROM 3LN12-78.
45	REFER TO SECURITY DRAWING SEC.2.03.
47	PROVIDE J-BOX W/ 1"C. OR 3/4"C. AND PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DRAWING SEC.4.01 FOR DETAIL.
51	FURNITURE FEED @ 18" A.F.F.
52	TYPICAL OFFICE OUTLETS LOCATED ON OPPOSITE WALLS 36" FROM EACH SIDE, U.O.N.
56	1" CONDUIT FOR DATA FEED.
64	KEY SWITCH FOR ROLL-UP DOOR CONTROL.
65	J-BOX WITH CONDUIT TO ACCESSIBLE CEILING @ 48" A.F.F. FOR FUTURE PHONE. CENTER ABOVE LIGHT.

DOOR TYPES & APPLICATION

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
AK	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR KP C RX EL
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR C RX EL
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	C RX EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	C RX
DK	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR KP ADA C RX EL
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	LA C
SP	IN/OUT CARD READER WITH DOOR MANAGEMENT ALARM	A CARD OR FOB MUST BE PRESENTED TO USE THIS DOOR TO EXIT OR ENTER OTHERWISE AN AUDIBLE ALARM NEAR THE DOOR WILL SOUND.	CR KP CR K C EL
DB	DURESS BUTTON	EMERGENCY BUTTON	DB
H	MONITORED ONLY	MANITORED BY THE ACAMS TO DETERMINE DOOR POSITION (OPEN OR CLOSED).	H

SECURITY CONVENTIONS

CR	CARD READER, MOUNTED +42" AFF UON.
CR K	CARD READER WITH KEYPAD, MOUNTED +42" AFF UON.
KP	KEYPAD, MOUNTED +42" AFF UON.
ED	ELECTRIC EXIT DEVICE
EL	ELECTRIC MORTISE LOCK
ADA	ADA CARD READER/AUTOMATIC DOOR OPEN - PUSH BUTTON
DH	DOOR HOLD RELEASE DEVICE
LA	LOCAL AUDABLE ALARM
SJB	SECURITY DOOR JUNCTION BOX 12"x16"x6" D., U.O.N.
C	MAGNETIC DOOR CONTACT MOUNTED IN DOOR HEADER
DB	DURESS BUTTON (BLANK) = UNDERCOUNTER P = PULL STATION
DR	DOOR RELEASE W = WALL MOUNT
RX	REX MOTION DETECTOR, WALL OR CEILING MOUNTED ABOVE DOOR
H	ROLL-UP DOOR (WIDE GAP)
	SECURITY ACAMS/CCTV EQUIPMENT CABINET



KEY PLAN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

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F 415 397-5999

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Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
4	FCO 41 EXIT SIGN COORDINATION	02/01/10
3	RECEIVE DSA AND SCOP	FCO 041 12/14/09
2	2ND FLR LEARNING CENTER & 4TH FLR OFFICE REMODEL AT FLR OFFICE - FCO 023	03/24/10
1	DSA COMMENTS - FCO 038	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCO 039	03/24/10
3	4TH FLR VP SUITES CHANGES	03/24/10
2	4TH FLR CONFERENCE RM 401 & 403 REVISIONS - FCO 045	01/21/11
1	ELECTRICAL - DRAWING OF RECORD	11/07/11

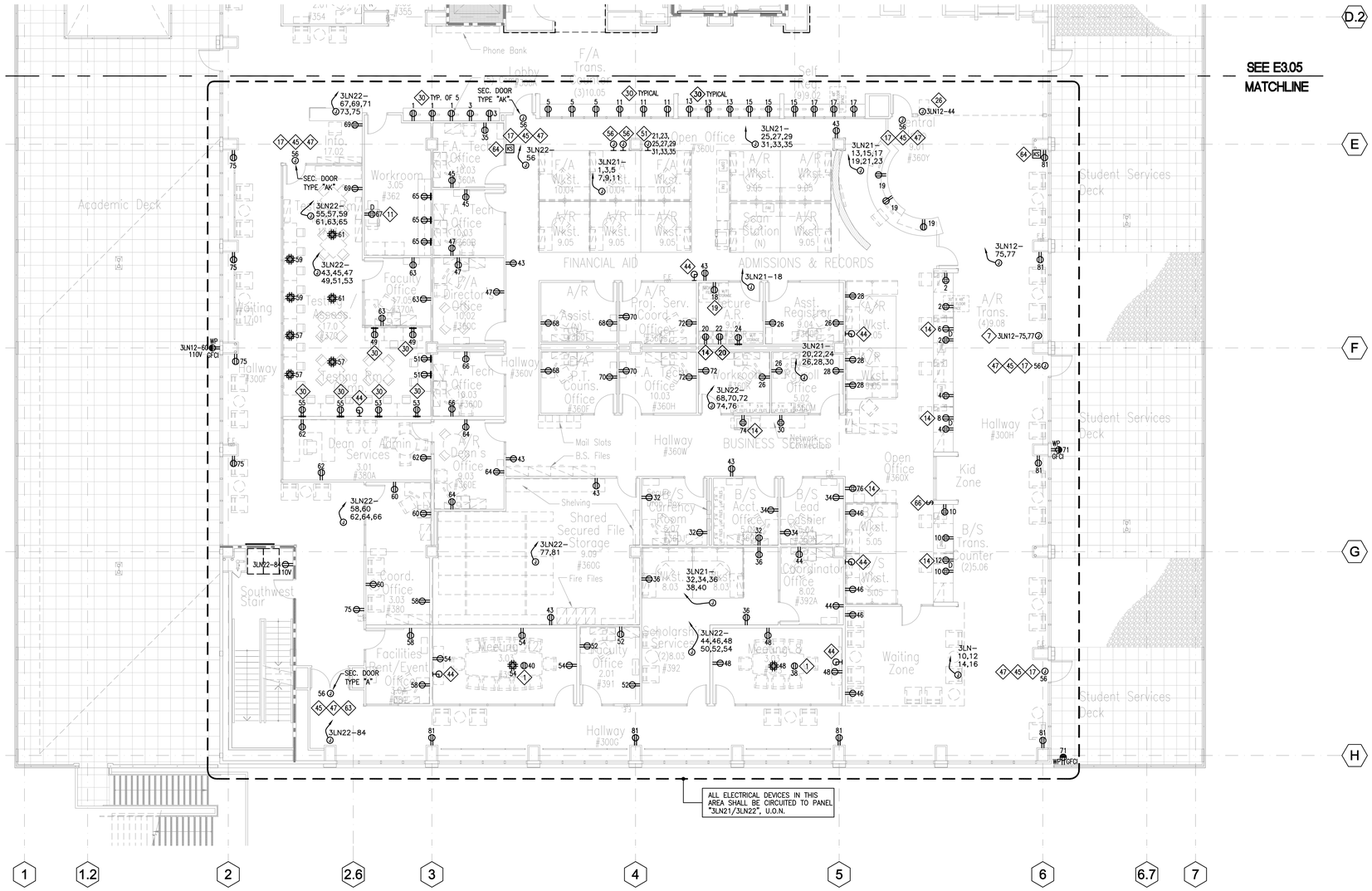
Revision	Description	Date
1	100% Design Development	06/12/08
2	50% Construction Documents	07/23/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/05/08
5	DSA Final	03/11/09
6	ELEC EM CHANGES PER ARCHT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Power Plan
Level 3 - North

E3.05

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E3.05_POWER PLAN LEVEL 3-NORTH.dwg - Nov 07, 2011 Monday - 7:17pm - 30x42-Plt - SFERMIL



1 E3.06 Power Plan - Level 3 - South

SCALE: 1/8"=1'-0"

SHEET NOTES

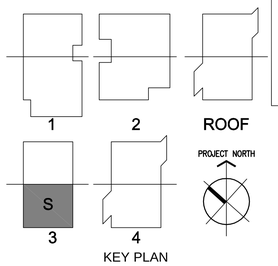
1	120V, 20A, CEILING RECEPTACLE FOR LCD. TV PROJECTOR (COORDINATE EXACT LOCATION W/ ARCHITECT.
7	120V POWER FOR MECHO SHADES – EAST ELEVATION TO BE CONTROLLED BY 1 SWITCH.
11	120V POWER, DEDICATED RECEPTACLE FOR COPIER.
14	120V POWER, DEDICATED RECEPTACLE FOR PRINTER.
17	120V POWER, J-BOX FOR VON DUPRIN SECURITY DEVICE. PROVIDE 1"C. PULL STRING TO ACCESSIBLE CEILING.
19	120V POWER, DEDICATED RECEPTACLE FOR MICROFILM.
20	120V POWER, DEDICATED RECEPTACLE FOR TRANSCRIPT MACHINE.
26	120V POWER FOR ROLL-UP DOOR.
30	120V, 20A RECEPTACLE FOR COMPUTER STATION MOUNTING HEIGHT TO BE COORDINATED WITH ARCHITECT, TYPICAL.
44	120V POWER TO WALL CLOCK, MOUNT AT 12" BELOW CEILING TO TOP OF CLOCK, CENTER ON WALL, U.O.N. WALL CLOCKS ARE FED FROM 2LN12-78
45	REFER TO SECURITY DRAWING SEC.2.03.
47	PROVIDE J-BOX W/ 1"C. OR 3/4"C. AND PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DRAWING SEC.4.01 FOR DETAIL.
51	FURNITURE FEED AT 18" A.F.F.
56	1 1/4" CONDUIT FOR DATA FEED.
63	MAGNETIC HOLD OPEN.
64	KEY SWITCH FOR ROLL-UP DOOR. COORDINATE EXACT LOCATION WITH ARCHITECT.
66	SWITCH FOR MECHO SHADES. LOCATE ABOVE COUNTER, CENTERED ON COUNTER SPACE.

DOOR TYPES & APPLICATION

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
AK	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR KP C RX EL
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR C RX EL
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	C RX EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	C RX
DK	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR KP ADA C RX EL
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	LA C
SP	IN/OUT CARD READER WITH DOOR MANAGEMENT ALARM	A CARD OR FOB MUST BE PRESENTED TO USE THIS DOOR TO EXIT OR ENTER OTHERWISE AN AUDIBLE ALARM NEAR THE DOOR WILL SOUND.	CR KP CRK C EL
DB	DURESS BUTTON	EMERGENCY BUTTON	DB
H	MONITORED ONLY	MANITORED BY THE ACAMS TO DETERMINE DOOR POSITION (OPEN OR CLOSED).	H

SECURITY CONVENTIONS

CR	CARD READER, MOUNTED +42" AFF UON.
CRK	CARD READER WITH KEYPAD, MOUNTED +42" AFF UON.
KP	KEYPAD, MOUNTED +42" AFF UON.
ED	ELECTRIC EXIT DEVICE
EL	ELECTRIC MORTISE LOCK
ADA	ADA CARD READER/AUTOMATIC DOOR OPEN – PUSH BUTTON
DH	DOOR HOLD RELEASE DEVICE
LA	LOCAL AUDABLE ALARM
SJB	SECURITY DOOR JUNCTION BOX 12"x16"x6" D., U.O.N.
C	MAGNETIC DOOR CONTACT MOUNTED IN DOOR HEADER
DB	DURESS BUTTON (BLANK) = UNDERCOUNTER P = PULL STATION
DR	DOOR RELEASE W = WALL MOUNT
RX	REX MOTION DETECTOR, WALL OR CEILING MOUNTED ABOVE DOOR
H	ROLL-UP DOOR (WIDE GAP)
	SECURITY ACAMS/CCTV EQUIPMENT CABINET



KEY PLAN

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ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

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Developed for
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Revision	Description	Date
1	FCO 11 EXIT SIGN COORDINATION	12/17/10
2	REVISED CHL AIR SIGN	1/31/08
3	2ND FLR LEARNING CENTER & 2ND FLR ADMIN OFFICE - FCO 020	03/24/10
4	DSA CC 01 Comment Set	03/24/10
5	2ND FLR LEARNING CENTER & 2ND FLR ADMIN OFFICE - FCO 020	03/24/10
6	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
7	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
8	4TH FLR CONFERENCE RMS 401 & 410 REVISIONS - FCO 045	03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
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	50% Construction Documents	07/28/08
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2	FCO 034	08/05/09
3	FCO 016	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job No.	
Date	March 2009
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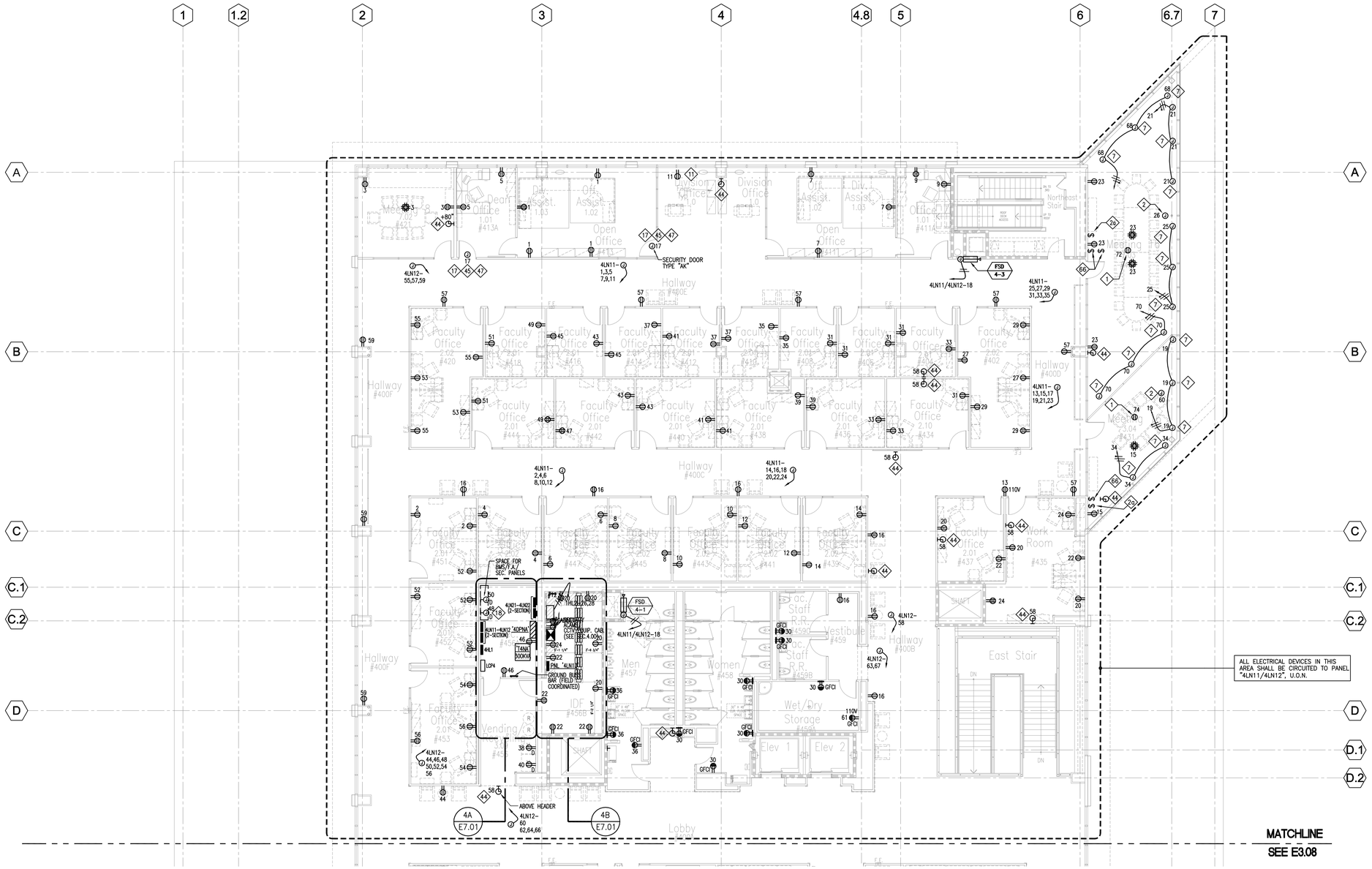
Scale	

Power Plan
Level 3 - South

E3.06

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E3.06_POWER PLAN LEVEL 3-SOUTH.dwg – Nov 07, 2011 Monday – 7:18pm – 30x42-Plt – SFERMIL



Power Plan - Level 4 - North

E3.07 SCALE: 1/8"=1'-0"

SECURITY CONVENTIONS

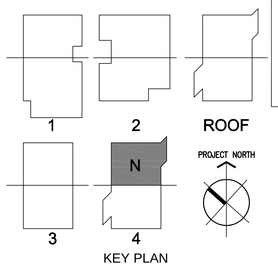
CR	CARD READER, MOUNTED +42" AFF UON.
CR K	CARD READER WITH KEYPAD, MOUNTED +42" AFF UON.
KP	KEYPAD, MOUNTED +42" AFF UON.
ED	ELECTRIC EXIT DEVICE
EL	ELECTRIC MORTISE LOCK
ADA	ADA CARD READER/AUTOMATIC DOOR OPEN – PUSH BUTTON
DH	DOOR HOLD RELEASE DEVICE
LA	LOCAL AUDABLE ALARM
SJB	SECURITY DOOR JUNCTION BOX 12"x16"x6" D., U.O.N.
C	MAGNETIC DOOR CONTACT MOUNTED IN DOOR HEADER
DB	DURESS BUTTON (BLANK) = UNDERCOUNTER P = PULL STATION
DR	DOOR RELEASE W = WALL MOUNT
RX	REX MOTION DETECTOR, WALL OR CEILING MOUNTED ABOVE DOOR
H	ROLL-UP DOOR (WIDE GAP)
	SECURITY ACAMS/CCTV EQUIPMENT CABINET

DOOR TYPES & APPLICATION

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
AK	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR KP C RX EL
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR C RX EL
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	C RX EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	C RX
DK	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR KP ADA C RX EL
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	LA C
SP	IN/OUT CARD READER WITH DOOR MANAGEMENT ALARM	A CARD OR FOB MUST BE PRESENTED TO USE THIS DOOR TO EXIT OR ENTER OTHERWISE AN AUDIBLE ALARM NEAR THE DOOR WILL SOUND.	CR KP DR K C EL
DB	DURESS BUTTON	EMERGENCY BUTTON	DB
H	MONITORED ONLY	MANITORED BY THE ACAMS TO DETERMINE DOOR POSITION (OPEN OR CLOSED).	H

SHEET NOTES

7	120V POWER, J-BOX FOR MECHO SHADE.
11	120V POWER, DEDICATED RECEPTACLE FOR COPIER.
16	NOT USED.
17	120V POWER, J-BOX FOR VON DUPRIN SECURITY DEVICE. PROVIDE 1"C WITH PULL STRING TO ACCESSIBLE CEILING.
18	120V POWER, J-BOX FOR (BMS) BUILDING MANAGEMENT SYSTEM, CONTROL PANEL.
21	120V POWER, DEDICATED RECEPTACLE FOR VENDING MACHINE.
44	120V POWER TO WALL CLOCK, MOUNT AT 12" BELOW CEILING TO TOP OF CLOCK, CENTER ON WALL, U.O.N. 4TH FLOOR WALL CLOCKS ARE TO BE FED FROM 4LN12-58.
45	REFER TO SECURITY DWG. SEC.2.04.
47	PROVIDE J-BOX WITH 1"C OR 3/4"C AND PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DWG. SEC.4.01 FOR DETAIL.
66	SWITCH FOR MECHO SHADES.



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College of San Mateo
Building 10N

San Mateo, CA

Developed for:
San Mateo County Community College District

Revision	Description	Date
1	FCO #1 EXIT SIGN COORDINATION	01/11/10
2	REMOVE CEILING SIGN	FCO 041 12/14/09
3	2ND FLR LEARNING CENTER & 4TH FLR EXPRESS - FCO 020	03/24/10
4	ESDS CD 01 Conference Rm	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 055	03/24/10
7	4TH FLR CONFERENCE RMS #1 & #3 REVISIONS - FCO 040	03/24/10
8	ELECTRICAL DRAWING OF RECORD	01/27/11
9	ELECTRICAL DRAWING OF RECORD	11/07/11

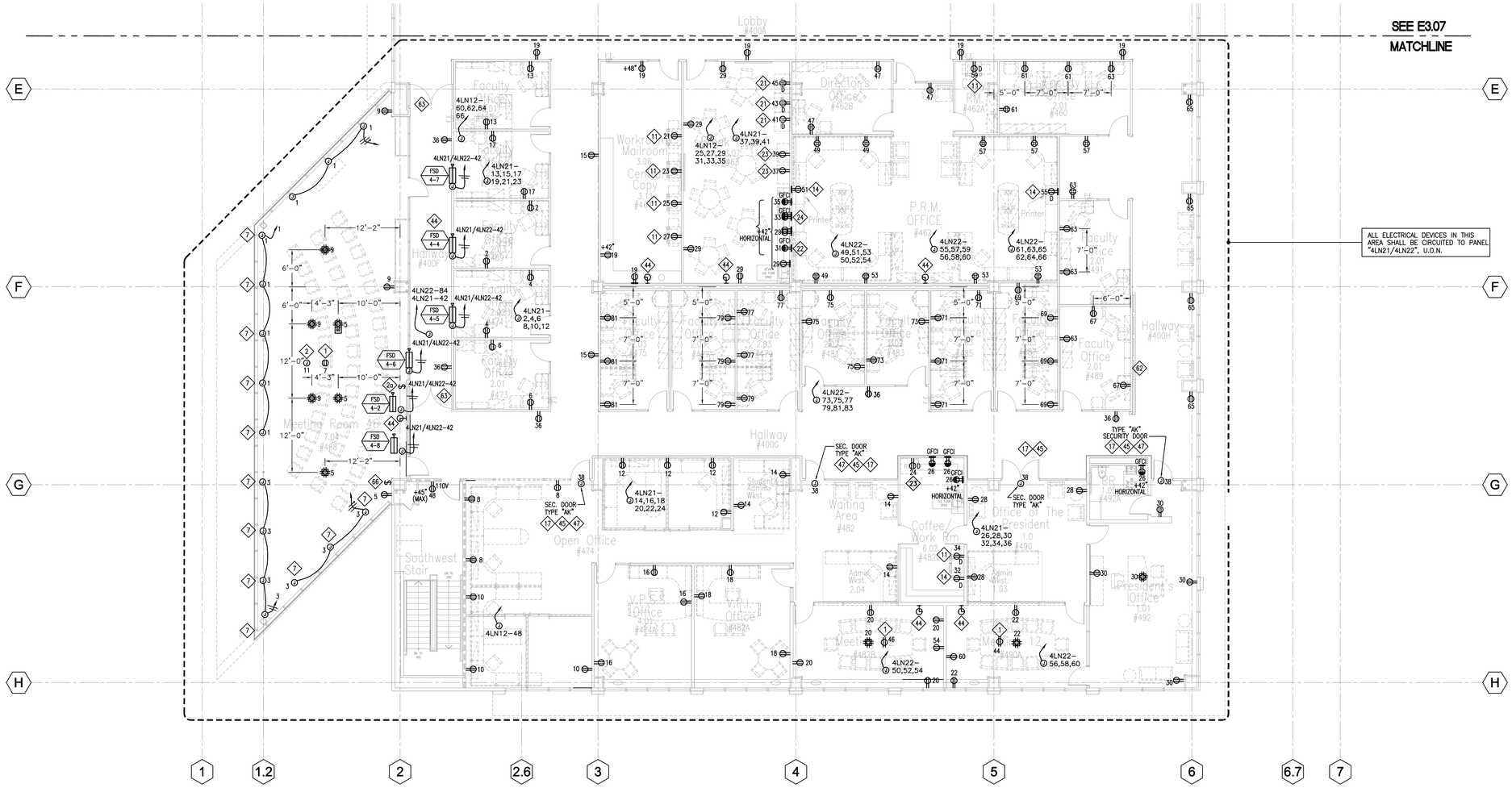
Revision	Description	Date
1	100% Design Development	06/29/08
2	50% Construction Documents	07/29/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	11/28/08
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHIT	07/28/09
7	FCO 014	08/05/09
8	FCO 015	08/15/09
9	4TH FLR OFFICES RELOCATED PER OWNER - FCO 020	11/20/09

Job. No.
Date March 2009
Drawn by
Checked by
Scale

Power Plan
Level 4 - North

E3.07

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E3.07_POWER PLAN LEVEL 4-NORTH.dwg - Nov 07, 2011 Monday - 7:19pm - 30x42-Plt - SFERMIL



1 E3.08 Power Plan - Level 4 - South

SCALE: 1/8"=1'-0"

SECURITY CONVENTIONS

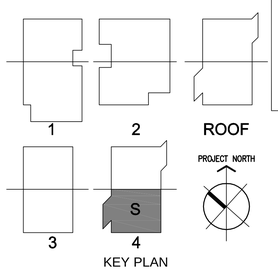
CR	CARD READER, MOUNTED +42" AFF UON.
CR K	CARD READER WITH KEYPAD, MOUNTED +42" AFF UON.
KP	KEYPAD, MOUNTED +42" AFF UON.
ED	ELECTRIC EXIT DEVICE
EL	ELECTRIC MORTISE LOCK
ADA	ADA CARD READER/AUTOMATIC DOOR OPEN – PUSH BUTTON
DH	DOOR HOLD RELEASE DEVICE
LA	LOCAL AUDABLE ALARM
SJB	SECURITY DOOR JUNCTION BOX 12"x16"x6" D., U.O.N.
C	MAGNETIC DOOR CONTACT MOUNTED IN DOOR HEADER
DB	DURESS BUTTON (BLANK) = UNDERCOUNTER P = PULL STATION
DR	DOOR RELEASE W = WALL MOUNT
RX	REX MOTION DETECTOR, WALL OR CEILING MOUNTED ABOVE DOOR
H	ROLL-UP DOOR (WIDE GAP)
	SECURITY ACAMS/CCTV EQUIPMENT CABINET

DOOR TYPES & APPLICATION

DOOR TYPE	DESCRIPTION	HOW IT WORK	ASSOCIATED DEVICE SYMBOLS
AK	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR KP C RX EL
A	CARD READER DOOR	A CARD OR FOB MUST BE PRESENTED TO UNLOCK THE DOOR.	CR C RX EL
B	SCHEDULED UNLOCK DOOR	AUTOMATICALLY LOCKS OR UNLOCKS ON A SCHEDULE THAT HAS BEEN PROGRAMMED INTO THE ACAMS.	C RX EL
C	MONITORED DOOR WITH AUTHORIZED EXITING	ALLOW FOR EGRESS WITHOUT AN ALARM	C RX
DK	ADA CARD READER DOOR	USES A CARD READER, LIKE "A", BUT IN CONJUCTION WITH AN AUTOMATIC DOOR OPERATOR.	CR KP ADA C RX EL
E	EMERGENCY EXIT DOOR WITH LOCAL ALARM	MONITORED LIKE "C", EXITING THROUGH THIS DOOR WILL SET OFF AN AUDIBLE ALARAM NEAR THE DOOR AS WELL AS AT THE ACAMS.	LA C
SP	IN/OUT CARD READER WITH DOOR MANAGEMENT ALARM	A CARD OR FOB MUST BE PRESENTED TO USE THIS DOOR TO EXIT OR ENTER OTHERWISE AN AUDIBLE ALARM NEAR THE DOOR WILL SOUND.	CR KP CR K C EL
DB	DURESS BUTTON	EMERGENCY BUTTON	DB
H	MONITORED ONLY	MANITORED BY THE ACAMS TO DETERMINE DOOR POSITION (OPEN OR CLOSED).	H

SHEET NOTES

1. 120V, 20A CEILING RECEPTACLE FOR LCD TV (COORDINATE EXACT LOCATION W/ ARCHITECT).
2. 120V POWER, J-BOX FOR PROJECTOR SCREEN (COORDINATE EXACT LOCATION W/ ARCHITECT).
7. 120V POWER, J-BOX FOR MECHO SHADE.
11. 120V POWER, DEDICATED RECEPTACLE FOR COPIER.
14. 120V POWER, DEDICATED RECEPTACLE FOR PRINTER.
17. 120V POWER, J-BOX FOR VON DUPRIN SECURITY DEVICE. PROVIDE 1"C WITH PULL STRING TO ACCESSIBLE CEILING.
21. 120V POWER, DEDICATED RECEPTACLE FOR VENDING MACHINE.
22. 120V POWER, DEDICATED RECEPTACLE FOR MICROWAVE.
23. 120V POWER, DEDICATED RECEPTACLE FOR REFRIGERATOR.
24. 120V POWER, DEDICATED RECEPTACLE FOR COFFEE MAKER.
44. 120V POWER TO WALL CLOCK, MOUNT AT 12" BELOW CEILING TO TOP OF CLOCK, CENTER ON WALL, U.O.N. 4TH FLOOR WALL CLOCKS ARE TO BE FED FROM 4LN12-58.
45. REFER TO SECURITY DWG. SEC.2.04.
47. PROVIDE J-BOX WITH 1"C OR 3/4"C AND PULL STRING TO ACCESSIBLE CEILING. SEE SECURITY DWG. SEC.4.01 FOR DETAIL.
62. WOOD FINISH WALL.
63. MAGNETIC HOLD OPEN.
66. SWITCH FOR MECHO SHADES.



KEY PLAN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
AC ____ FLS ____ SS ____
DATE ____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

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College of San Mateo Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
4	ECD 41 EXIT SIGN COORDINATION	01/11/10
3	REVISE EF-AIR SIGN	12/14/09
2	2ND FLR LEARNING CENTER & 4TH FLR OFFICE REVISIONS - ECD 041	03/24/10
1	ECD 030 Conference Rm	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCD 008	03/24/10
3	4TH FLR V.P. SUITES CHANGES - FCD 009	03/24/10
2	4TH FLR CONFERENCE RM 401 & 401 RESTROOM - FCD 040	03/24/10
1	ELECTRICAL DRAWING OF RECORD	01/21/11
	ELECTRICAL DRAWING OF RECORD	11/07/11

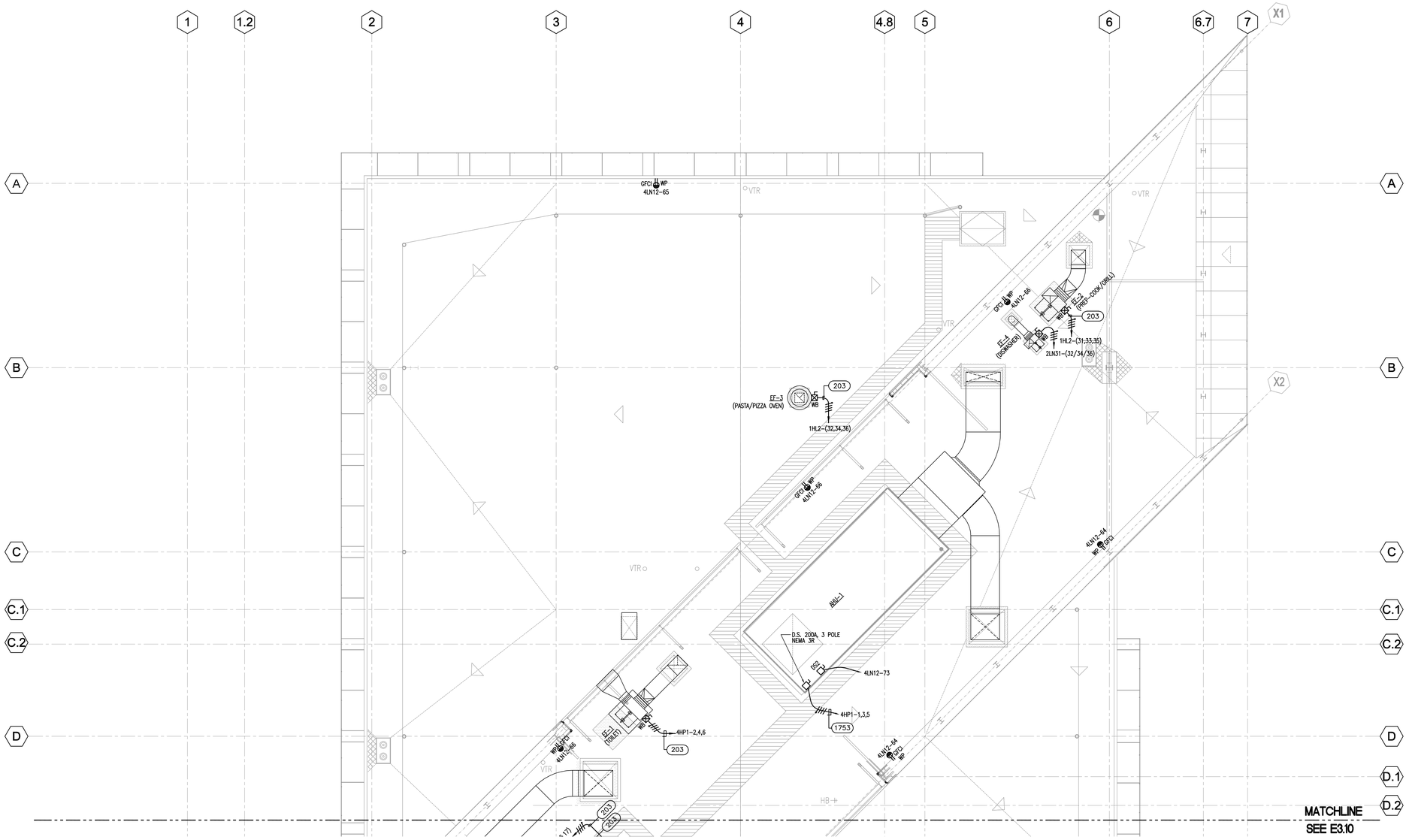
Revision	Description	Date
	100% Design Development	06/19/09
	50% Construction Documents	07/29/09
	DSA Submittal	09/10/09
	95% Construction Documents	12/08/09
	DSA Final	03/11/09
1	ELEC R&I CHANGES PER ARCHIT	07/28/09
1	FCD 014	08/05/09
1	FCD 016	09/15/09
1	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Power Plan
Level 4 - South

E3.08-R1

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E3.08_POWER PLAN LEVEL 4-SOUTH.dwg - Nov 07, 2011 Monday - 7:20pm - 30x42-Plt - SFERMIL

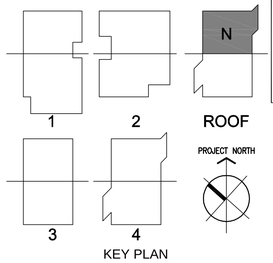


1 E3.09 Power Plan - Roof - North

SCALE: 1/8"=1'-0"

GENERAL NOTES

A.	VERIFY MECHANICAL EQUIPMENT REQUIREMENTS AND LOCATIONS WITH MECAHNICAL CONTRACTOR.



DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE. 11-07-2011

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E015390
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ELECTRICAL
STATE OF CALIFORNIA

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Building 10N

San Mateo, CA

Developed for
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Revision	Description	Date
4	FCO-14 EXIT SIGN COORDINATION	03/21/10
3	REVISED FOR AIR SIGN	FCO 041 12/14/09
2	2012 CLEARING CONFIRM & ref 410 SUPPOSE FOR CONFIRMED ref	FCO 120 03/24/10
1	DSA-CC-01 Construction Set	03/24/10
2	90% CD Set	03/24/10
3	BID FOR FINANCIAL AID CHANGES	- FCO 038 03/24/10
4	4TH FLR V.P. SUITES CHANGES	- FCO 039 03/24/10
5	4TH FLR CONFERENCE RMS 401 & 410 REVISIONS	- FCO 040 03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	05/08/08
	50% Construction Documents	07/28/08
	DSA Submittal	09/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC FIM CHANGES PER ARCHIT	07/28/09
2	FCO 014	08/06/09
3	FCO 016	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

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Date	March 2009
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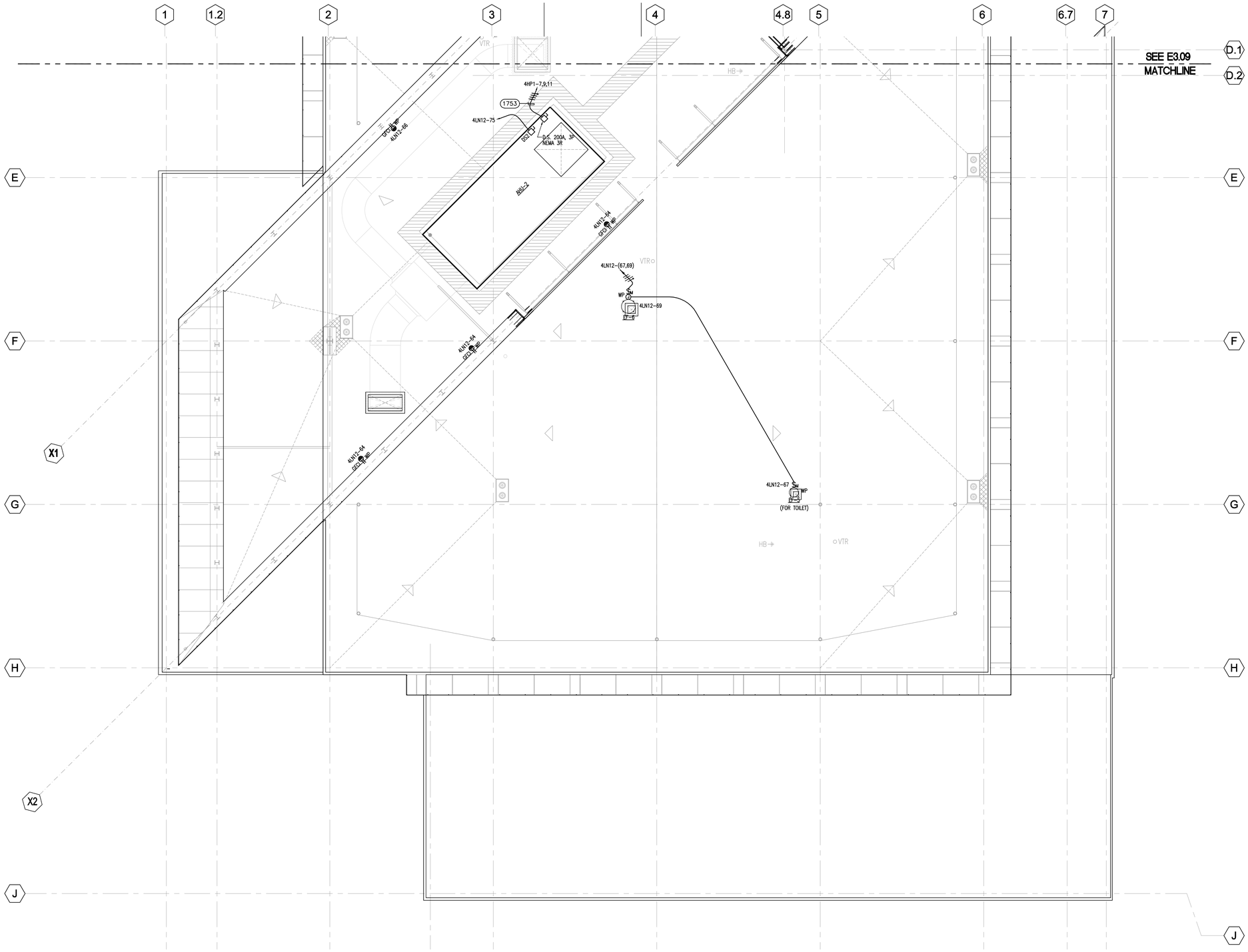
Power Plan
Roof - North

E3.09

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_3000085\Electrical Design-DOR_11-07-2011\3000085_10N_E3.09_POWER PLAN ROOF-NORTH.dwg - Nov 07, 2011 Monday - 7:21pm - 30x42-Plt - SFERMIL

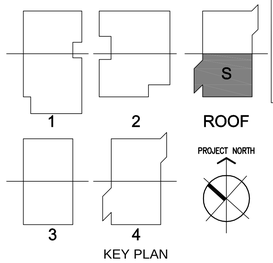


1 / E3.10 Power Plan - Roof - South

SCALE: 1/8"=1'-0"

GENERAL NOTES

A. VERIFY MECHANICAL EQUIPMENT REQUIREMENTS AND LOCATIONS WITH MECAHNICAL CONTRACTOR.



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ROSENDIN ELECTRIC, INC.
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EXP.6/30/11
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STATE OF CALIFORNIA

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Revision	Description	Date
1	FCO 11 EDIT SDH COORDINATION	12/21/10
2	REVISED CSA 4.40 SCOP	1/21/1400
3	2ND FLT LEARNING CENTER & 4TH FLR OFFICES - FCO 022	03/24/10
4	DSA CO GL Conformed Set	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
7	4TH FLR CONFERENCE RMS 401 & 403 REVISIONS - FCO 045	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	06/10/08
	50% Construction Documents	07/10/08
	DSA Submittal	08/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC EM CHANGES PER ARCHT	07/28/09
2	FCO 014	08/05/09
3	FCO 016	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

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Power Plan
Roof - South

E3.10

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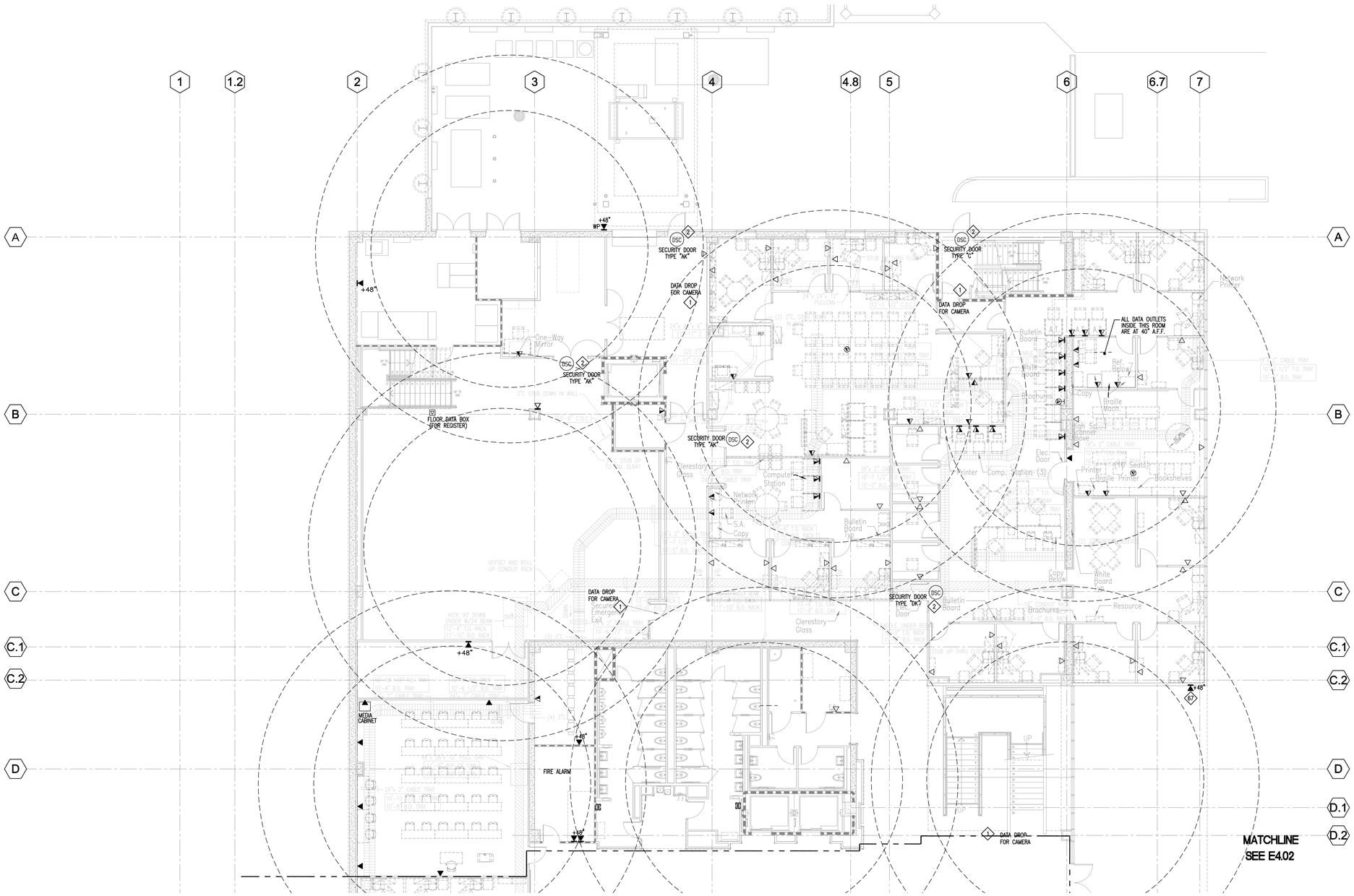
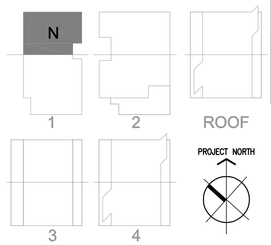


1 E4.01 Signal Plan - Level 1 - North
SCALE: 1/8"=1'-0"

SHEET NOTES

1. DATA DROP FOR CAMERA. REFER TO SECURITY DWG. SEC.2.01 FOR DETAILS.
2. DOOR SECURITY CONTROL. REFER TO SECURITY DWGS. SEC.2.01 THRU SEC.2.04 FOR SECURITY DOOR TYPES, SIGNAL REQUIREMENTS AND DETAILS.
67. SPECIAL PHONE BOX PROVIDED BY OWNER WITH CONDUIT TO ACCESSIBLE CEILING.



KEY PLAN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCARTHY
LPA
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San Francisco, California 94104
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ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
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STATE OF CALIFORNIA

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Revision	Description	Date
4	FCO 41 EDIT SIGN COORDINATION	07/21/10
4	REVISE CALLAR SIGN	12/14/10
4	FCO 52 LEARNING CENTER A	03/24/10
4	FCO 52 LEARNING CENTER A & 4TH & 5TH FLS - FCO 023	03/24/10
4	ADA C.O.01 Commercial Kit	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
4	4TH FLR V.P. SUITES CHANGES - FCO 038	03/24/10
4	4TH FLR CONFERENCE RM 401 & 401 REVISIONS - FCO 040	03/24/10
4	ELECTRICAL DRAWING OF RECORD	01/27/11
4	ELECTRICAL DRAWING OF RECORD	11/07/11

Revision	Description	Date
4	100% Design Development	06/19/08
4	50% Construction Documents	07/29/08
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4	95% Construction Documents	12/08/08
4	DSA Final	03/11/09
4	ELEC RM CHANGES PER ARCHIT	07/28/09
4	FCO 014	08/05/09
4	FCO 016	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

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Date	March 2009
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Scale	

Signal Plan
Level 1 - North

E4.01

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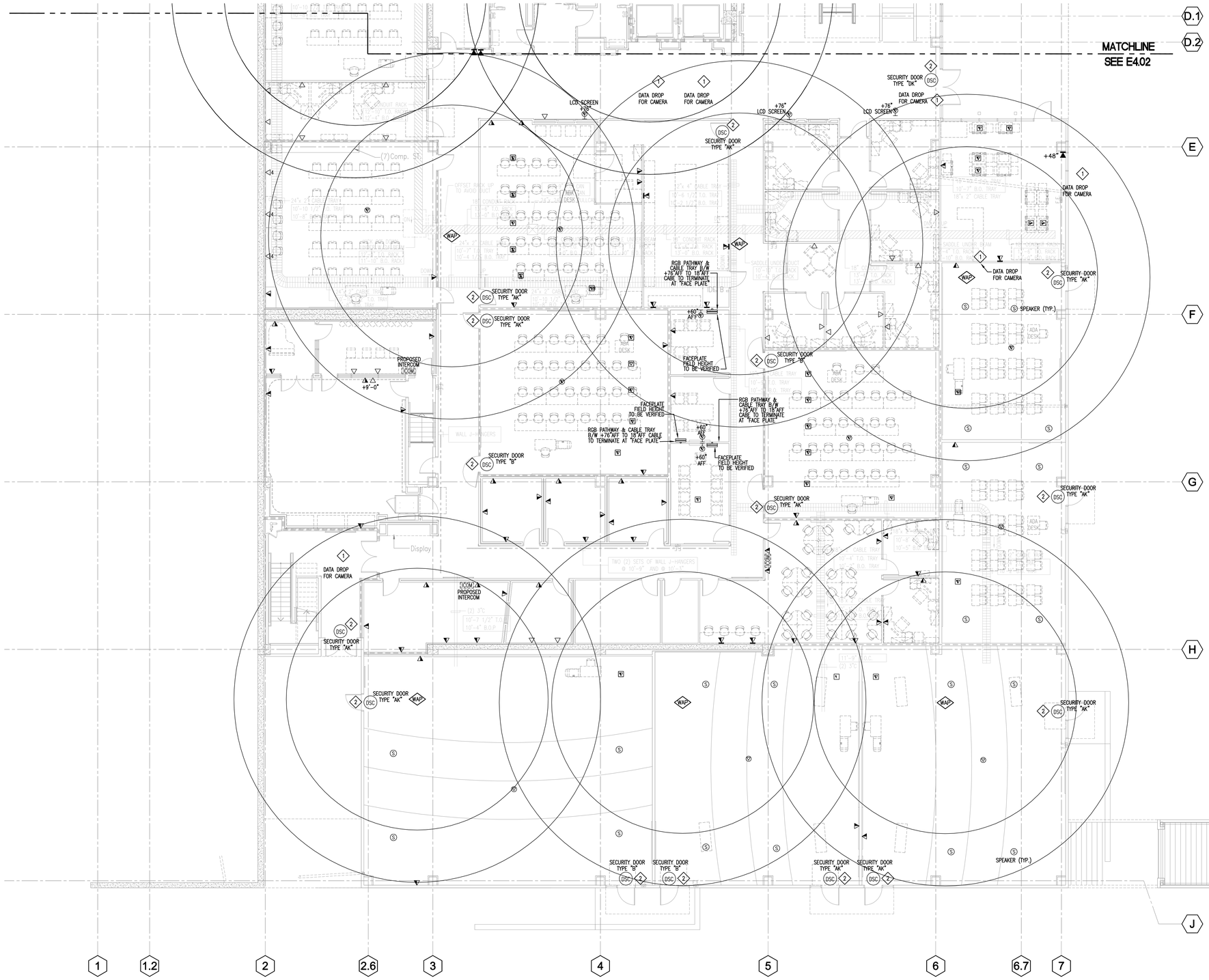
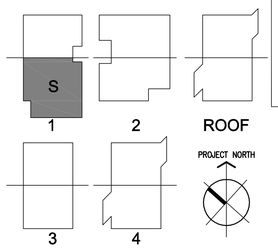


1 E4.02 Signal Plan - Level 1 - South
SCALE: 1/8"=1'-0"

SHEET NOTES

1. DATA DROP FOR CAMERA. REFER TO SECURITY DWG. SEC.2.01 FOR DETAILS.
2. DOOR SECURITY CONTROL. REFER TO SECURITY DWGS. SEC.2.01 THRU SEC.2.04 FOR SECURITY DOOR TYPES, SIGNAL REQUIREMENTS AND DETAILS.



KEY PLAN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

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DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
AC ____ FLS ____ SS ____
DATE ____
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REGISTERED PROFESSIONAL ENGINEER
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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	CD-1 & EDIT SCHL COORDINATION	03/12/10
2	FCO 041 AND AIR SCDA	12/14/09
3	2ND SET LICENSED CONTRACT & FCO 041 & FCO 042 & FCO 043	03/24/10
4	DSA CC-01 Comments Set	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
7	CH FLR CONFERENCE RMS 401 & 403 REVISIONS - FCO 040	03/24/10
8	ELECTRICAL - DRAWING OF RECORD	01/21/11
9	ELECTRICAL - DRAWING OF RECORD	11/07/11

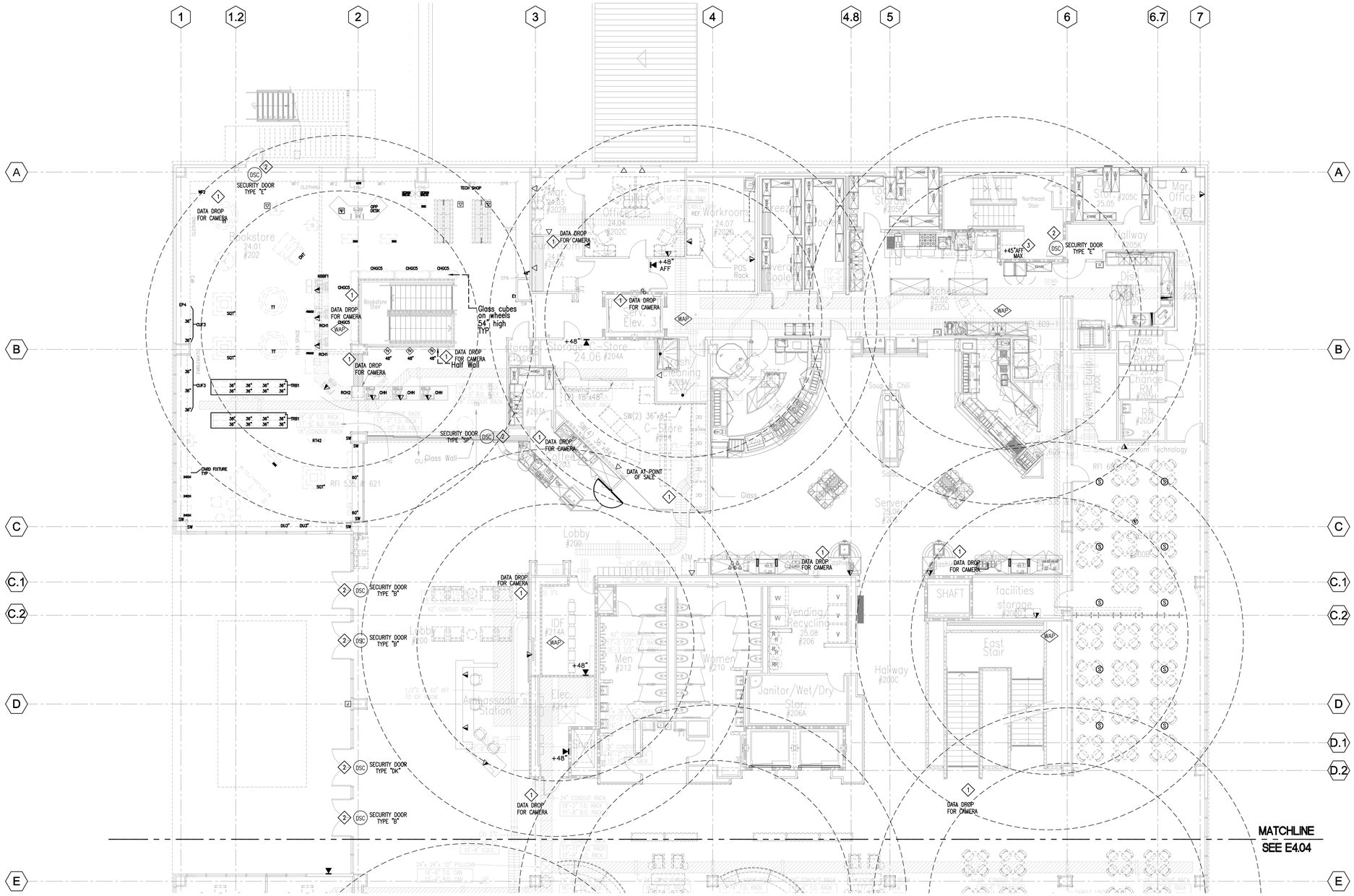
Revision	Description	Date
1	100% Design Development	06/05/08
2	50% Construction Documents	07/28/08
3	DSA Submittal	09/18/08
4	99% Construction Documents	12/08/08
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHT	07/28/09
7	FCO 034	08/05/09
8	FCO 036	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Signal Plan
Level 1 - South

E4.02

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E4.02_SIGNAL PLAN LEVEL 1-SOUTH.dwg - Nov 07, 2011 Monday - 7:23pm - 30x42-Plt - SFERMIL

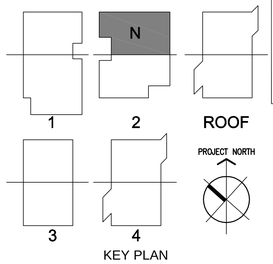


1 E4.03 Signal Plan - Level 2 - North

SCALE: 1/8"=1'-0"

SHEET NOTES

1	DATA DROP FOR CAMERA. REFER TO SECURITY DWG. SEC.2.01 FOR DETAILS.
2	DOOR SECURITY CONTROL. REFER TO SECURITY DWGS. SEC.2.01 THRU SEC.2.04 FOR SECURITY DOOR TYPES, SIGNAL REQUIREMENTS AND DETAILS.
3	TWO-WAY COMMUNICATION DEVICE FOR AREA OF REFUGE.



KEY PLAN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
AC _____ FLS _____ SS _____
DATE _____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
ROSENDIN ELECTRIC
www.rosendin.com
CORPORATE HEADQUARTERS
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San Jose, CA 95133
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San Mateo, CA

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Revision	Description	Date
1	FCO #1 EXIT SIGN COORDINATION	07/13/09
2	REVISE CLAIR SIGN	FCO 041 12/14/09
3	2ND FLR LOBBY/CENTER A REVISE TO ROOM NAME AT FLR STRTS. - FCO 020	03/24/10
4	ROOM NAMES/NUMBERS - FCO 020	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 038	03/24/10
7	4TH FLR CONFERENCE RM #1 & #3 REVISIONS - FCO 040	03/24/10
8	ELECTRICAL DRAWING OF RECORD	01/21/11
9	ELECTRICAL DRAWING OF RECORD	11/07/11

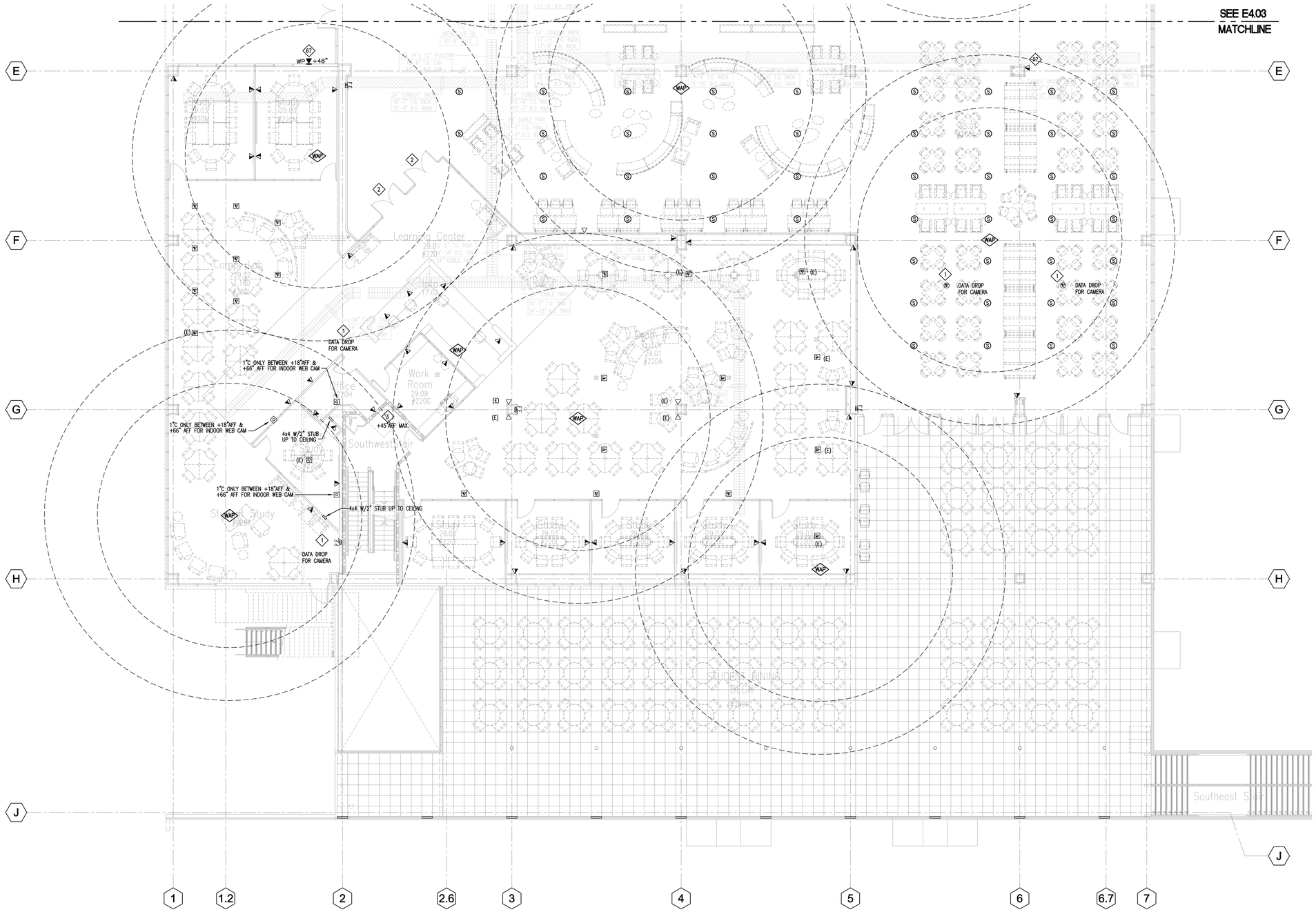
Revision	Description	Date
1	100% Design Development	06/29/09
2	50% Construction Documents	07/29/09
3	DSA Submittal	09/18/09
4	95% Construction Documents	11/06/09
5	DSA Final	03/11/09
6	ELEC REV CHANGES PER ARCHIT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES RE/SIGN PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Signal Plan
Level 2 - North

E4.03

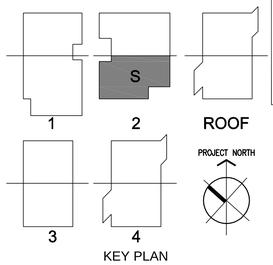
L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E4.03_SIGNAL PLAN LEVEL 2-NORTH.dwg - Nov 07, 2011 Monday - 7:25pm - 30x42-Plt - SFERMIL



1 E4.04 Signal Plan - Level 2 - South
SCALE: 1/8"=1'-0"

SHEET NOTES

1	DATA DROP FOR CAMERA. REFER TO SECURITY DWG. SEC.2.01 FOR DETAILS.
2	DOOR SECURITY CONTROL. REFER TO SECURITY DWGS. SEC.2.01 THRU SEC.2.04 FOR SECURITY DOOR TYPES, SIGNAL REQUIREMENTS AND DETAILS.
3	TWO-WAY COMMUNICATION DEVICE FOR AREA OF REFUGE.
57	AUDIO PANEL (COORDINATE EXACT LOCATION AND CONDUIT REQUIREMENTS W/ ARCHITECT).
67	MOSPAECIAL PHONE BOX PROVIDED BY OWNER WITH CONDUIT TO ACCESSIBLE CEILING.



KEY PLAN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
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F 415 397-5999

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DATE _____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP:6/30/11
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STATE OF CALIFORNIA

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San Mateo, CA

Developed for:
San Mateo County Community College District

Revision Description	Date
FCO-11 EDIT SIGN COORDINATION	07/19/10
REMOVE CALLER SIGN - ECO 041	12/14/10
2ND FLR LEARNING CENTER & STUDENT DINING BLK 4 FLR STAIRS - FCO 020	03/24/10
ADA CODE COMPLIANCE - FCO 021	03/24/10
3RD FLR FINANCIAL AID CHANGES - FCO 028	03/24/10
4TH FLR V.P. SUITES CHANGES - FCO 029	03/24/10
4TH FLR CONFERENCE RM #1 & #3 REVISIONS - FCO 040	03/24/10
ELECTRICAL DRAWING OF RECORD	01/21/11
ELECTRICAL DRAWING OF RECORD	11/07/11

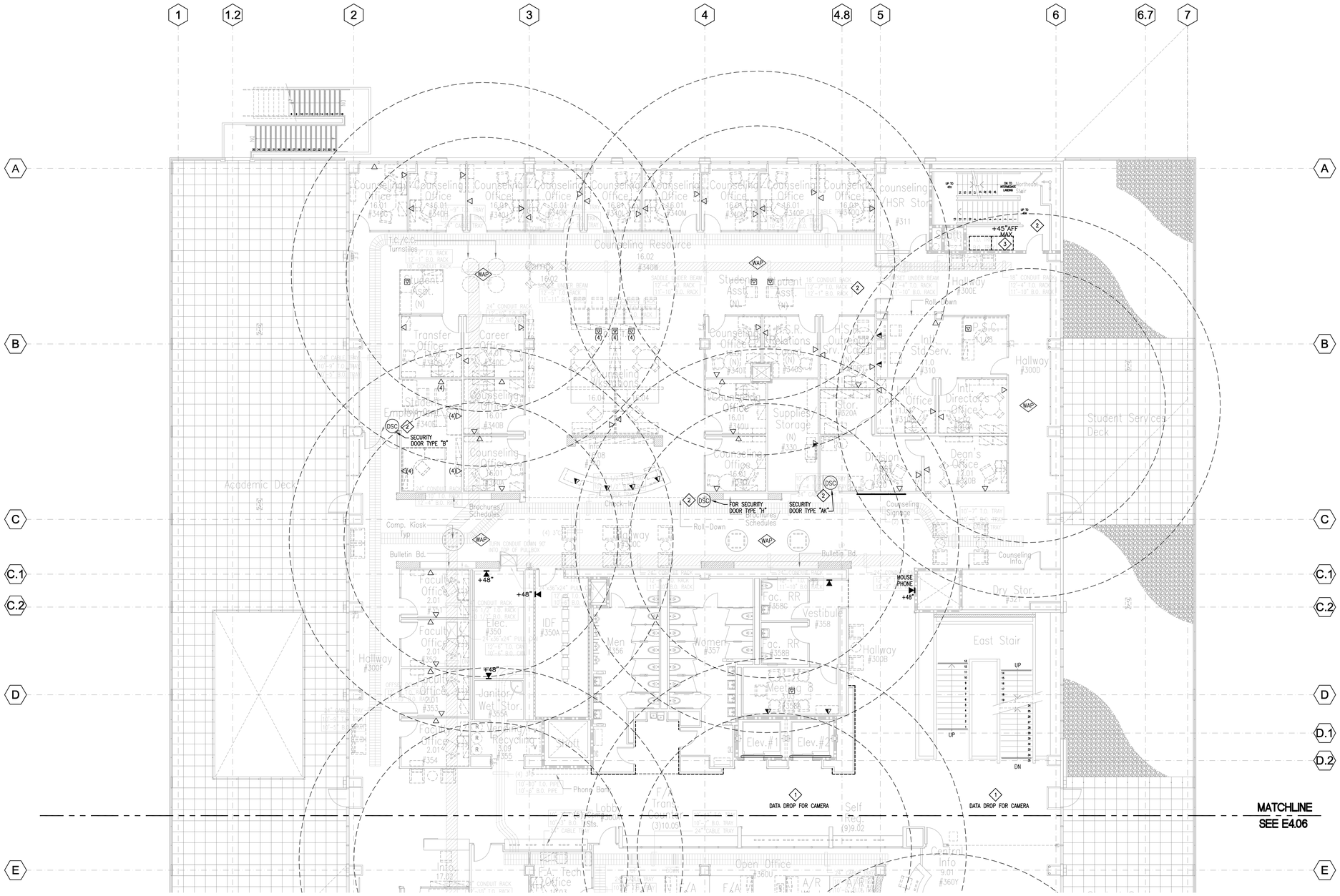
Revision Description	Date
100% Design Development	06/19/09
50% Construction Documents	07/29/09
DSA Submittal	09/18/09
95% Construction Documents	12/08/09
DSA Final	03/11/09
ELEC RM CHANGES PER ARCHIT	07/28/09
FCO 014	08/05/09
FCO 016	09/15/09
4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Signal Plan
Level 2 - South

E4.04-R1

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E4.04_SIGNAL PLAN LEVEL 2-SOUTH.dwg - Nov 07, 2011 Monday - 7:26pm - 30x42-Plt - SFERMIL


1
1.2
2
3
4
4.8
5
6
6.7
7
A
B
C
C.1
C.2
D
D.1
D.2
E
Counseling Resource
16.02
#340W
Transfer Office
Career Office
Student Services Deck
Hallway
#300D
Hallway
#300C
Hallway
#300F
Hallway
#300B
Hallway
#300E
Dean's Office
Counseling Info.
Dry Stor.
East Stair
Men
#356
Women
#357
Fac. RR
#358B
Fac. RR
#358C
Vestibule
#358
Meeting
#334
Elev.#1
Elev.#2
Janitor
Wet Stor.
#359A
IDF
#350A
Elec.
#350
Faculty Office
2.01
Open Office
#360U
Self Serv.
(9)9.02
Lobby
(3)10.03
Bulletin Bd.
Comp. Kiosk
Typ
Brochures/
Schedules
Roll-Down
Check-In
Counseling Signage
Phone Bank
T.C./C.C.
Turnstiles
Supplies
Storage
(N)
#330
Stor.
#320A
Design
Office
#320
Int. Director's Office
Int. Stu. Serv.
#310
P.S.C.
Counseling
Office
16.01
#340B
Counseling
Office
16.01
#340H
Counseling
Office
16.01
#340K
Counseling
Office
16.01
#340M
Counseling
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16.01
#340P
Counseling
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#340T
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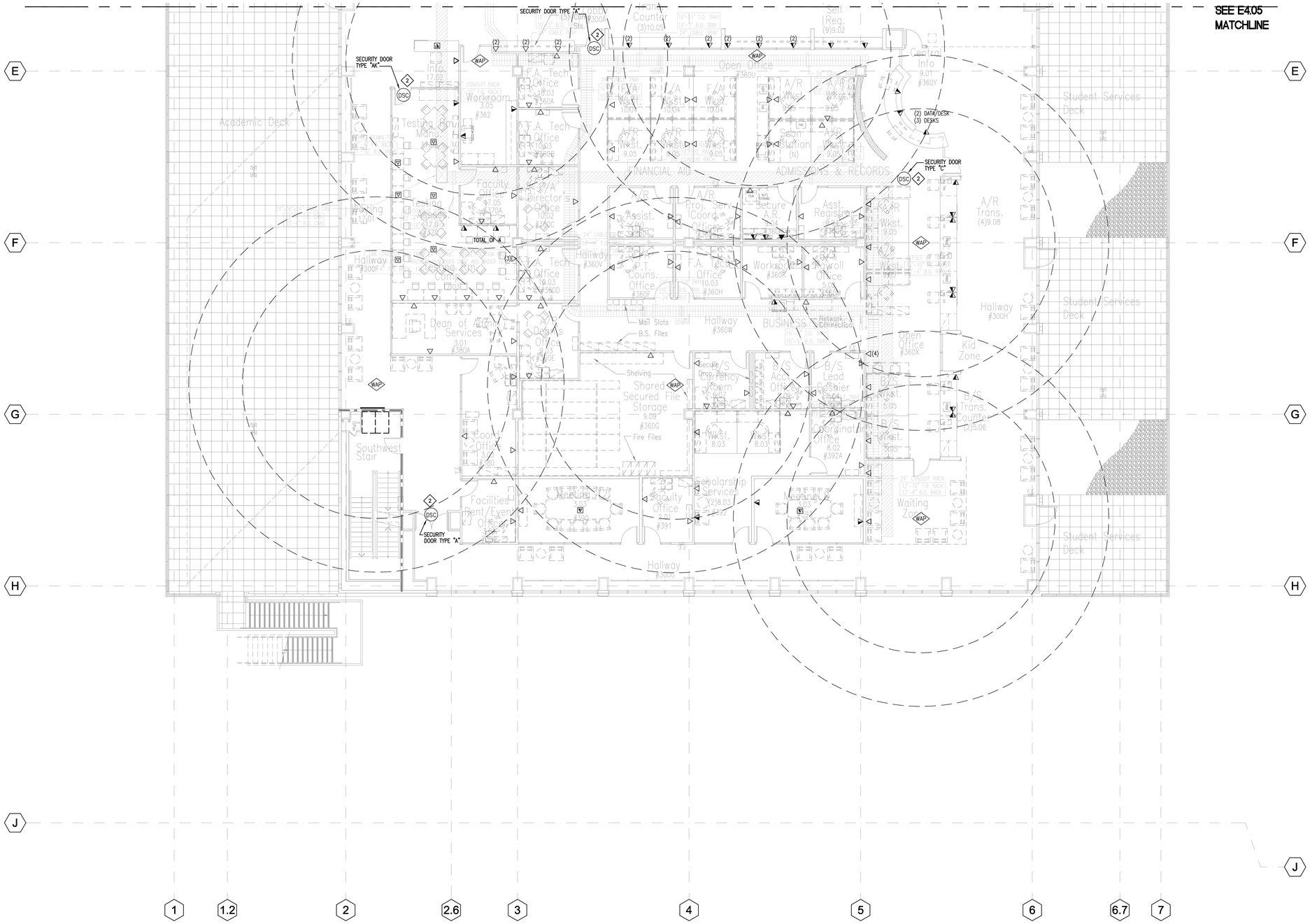
#340V
Counseling
Office
16.01
#340X
Counseling
Office
16.01
#340Z
Counseling
Office
16.01
#340B
Student
Asst.
(N)
Student
Asst.
(N)
Student
Asst.
(N)

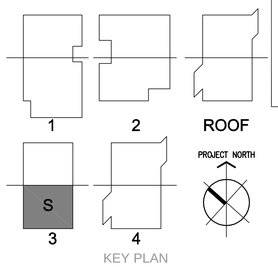


1 / E4.06 Signal Plan - Level 3 - South

SCALE: 1/8"=1'-0"

SHEET NOTES

1. NOT USED.
2. DOOR SECURITY CONTROL. REFER TO SECURITY DWGS. SEC.2.01 THRU SEC.2.04 FOR SECURITY DOOR TYPES, SIGNAL REQUIREMENTS AND DETAILS.
3. TWO-WAY COMMUNICATION DEVICE FOR AREA OF REFUGE.



KEY PLAN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

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San Francisco, California 94104
P 415 397-5151
F 415 397-5999

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OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
AC _____ FLS _____ SS _____
DATE _____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	FCO 41 EXIT SIGN COORDINATION	12/21/10
2	REVISIONS FOR AHJ SIGN	FCO 041 12/14/03
3	2ND FLR LIBRARY CENTER & 4TH FLR OFFICE REMODEL - FCO 022	03/24/10
4	DSA CO 01 Comments Set	03/24/10
5	2ND FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
7	4TH FLR CONFERENCE RM 401 & 403 REVISIONS - FCO 045	03/24/10
8	ELECTRICAL - DRAWING OF RECORD	01/21/11
9	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/12/08
2	50% Construction Documents	07/23/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/05/08
5	DSA Final	03/11/09
6	ELEC EM CHANGES PER ARCHT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Signal Plan
Level 3 - South

E4.06

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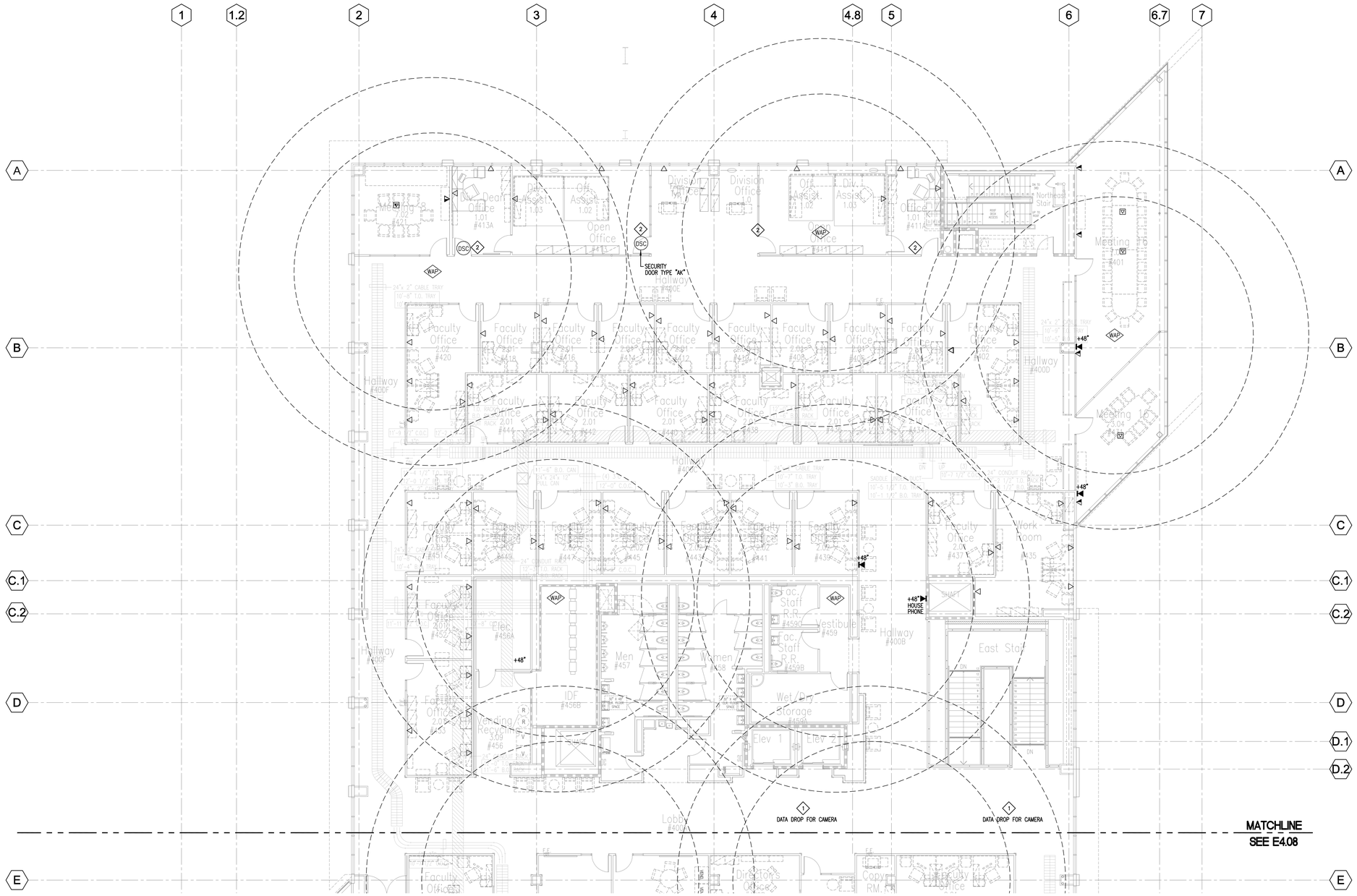
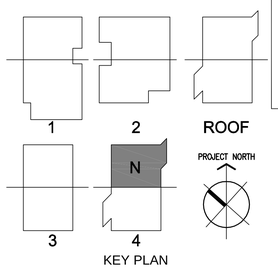


1 / E4.07 Signal Plan - Level 4 - North

SCALE: 1/8"=1'-0"

SHEET NOTES

1. DATA DROP FOR CAMERA. REFER TO SECURITY DWG. SEC.2.01 FOR DETAILS.
2. DOOR SECURITY CONTROL. REFER TO SECURITY DWGS. SEC.2.01 THRU SEC.2.04 FOR SECURITY DOOR TYPES, SIGNAL REQUIREMENTS AND DETAILS.



KEY PLAN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 | 397-5151
F 415 | 397-5999

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DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
AC ____ FLS ____ SS ____
DATE ____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
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Revision	Description	Date
1	CCD-14 EXIT SIGN COORDINATION	03/21/10
2	REWORK OF AIR DUCT	FCO 041 12/14/09
3	2010 CA LIGHING CODE REV & 4TH FLR OFFICE	FCO 120 03/24/10
4	2010 CA LIGHING CODE REV & 4TH FLR OFFICE	FCO 120 03/24/10
5	ESA CCD 13 Conference Set	03/24/10
6	3RD FLR FINANCIAL AID CHANGES	FCO 038 03/24/10
7	4TH FLR V.P. SUITES CHANGES	FCO 039 03/24/10
8	4TH FLR CONFERENCE RMS 401 & 410 REVISIONS	FCO 040 03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
10	ELECTRICAL - DRAWING OF RECORD	11/07/11

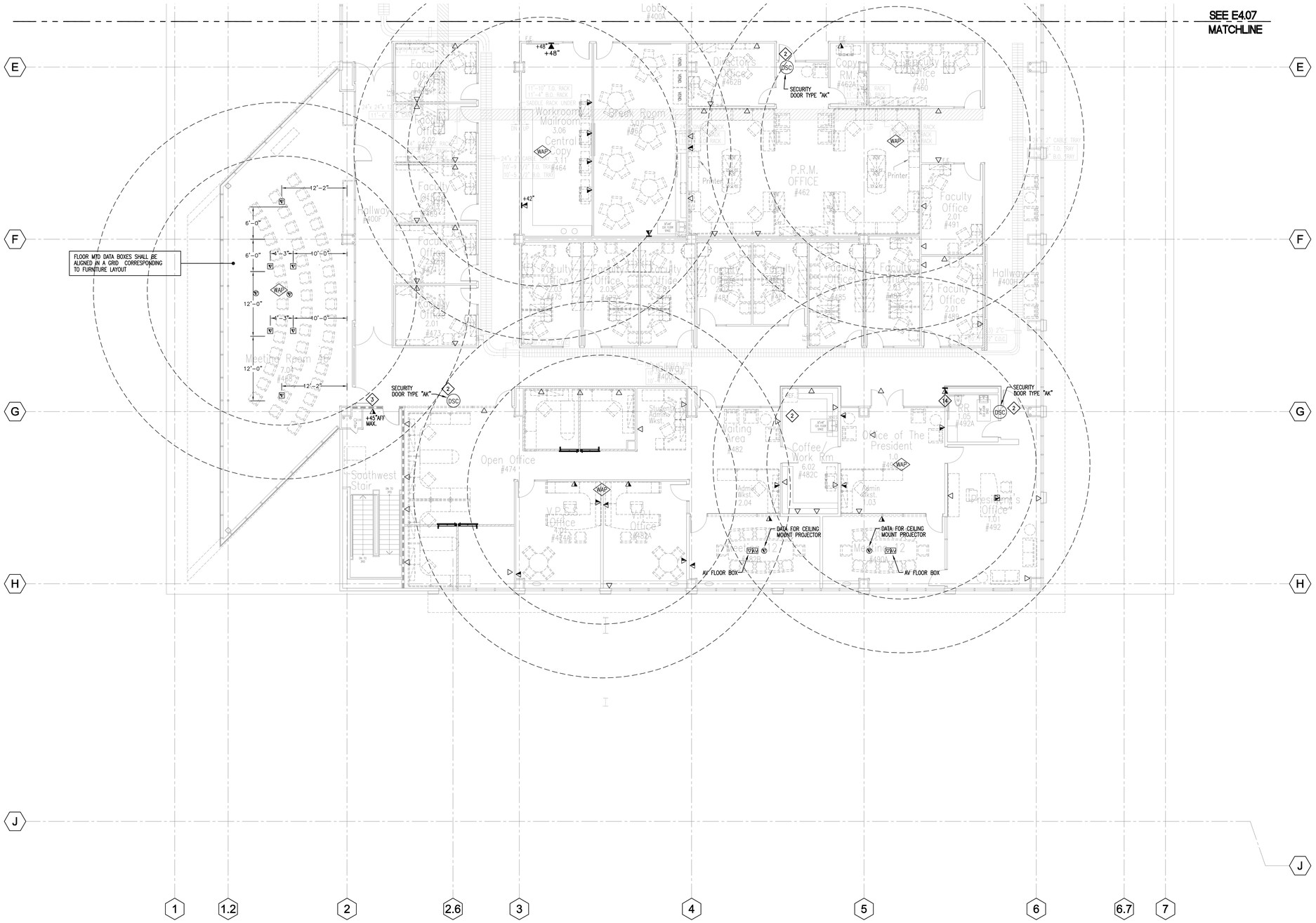
Revision	Description	Date
1	100% Design Development	05/05/08
2	50% Construction Documents	07/28/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/08/08
5	DSA Final	03/11/09
6	ELEC PM CHANGES PER ARCHIT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Signal Plan
Level 4 - North

E4.07

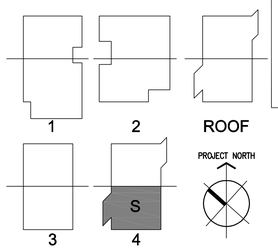
L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E4.07_SIGNAL PLAN LEVEL 4-NORTH.dwg - Nov 07, 2011 Monday - 7:29pm - 30x42-Plt - SFERMIL



1 E4.08 Signal Plan - Level 4 - South
SCALE: 1/8"=1'-0"

SHEET NOTES

1. NOT USED.
2. DOOR SECURITY CONTROL. REFER TO SECURITY DWGS. SEC.2.01 THRU SEC.2.04 FOR SECURITY DOOR TYPES, SIGNAL REQUIREMENTS AND DETAILS.
3. TWO-WAY COMMUNICATION DEVICE FOR AREA OF REFUGE.



KEY PLAN

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DATE: 11-07-2011

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EXPIRES 06/31/11
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College of San Mateo Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	CD-1 & EDIT SIGN COORDINATION	01/21/10
2	INTERIM SET ON AIR SIGN	FCO 041 12/14/09
3	REV'D LIGHING CONTROL & CLARIFIED SECURITY & AV EQUIPMENT	+ FCO 020 03/24/10
4	DSA CD-1 Comments Set	03/24/10
5	MISC CHANGES	+ FCO 038 03/24/10
6	RFO 1 & FINANCIAL AID CHANGES	+ FCO 039 03/24/10
7	4TH FLR V.P. SUITES CHANGES	+ FCO 039 03/24/10
8	4TH FLR CONFERENCE RMS 401 & 401 REVISIONS	FCO 040 03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
10	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/05/08
2	50% Construction Documents	07/28/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/08/08
5	DSA Final	03/11/09
6	ELEC EM CHANGES PER ARCHIT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 025	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Signal Plan
Level 4 - South

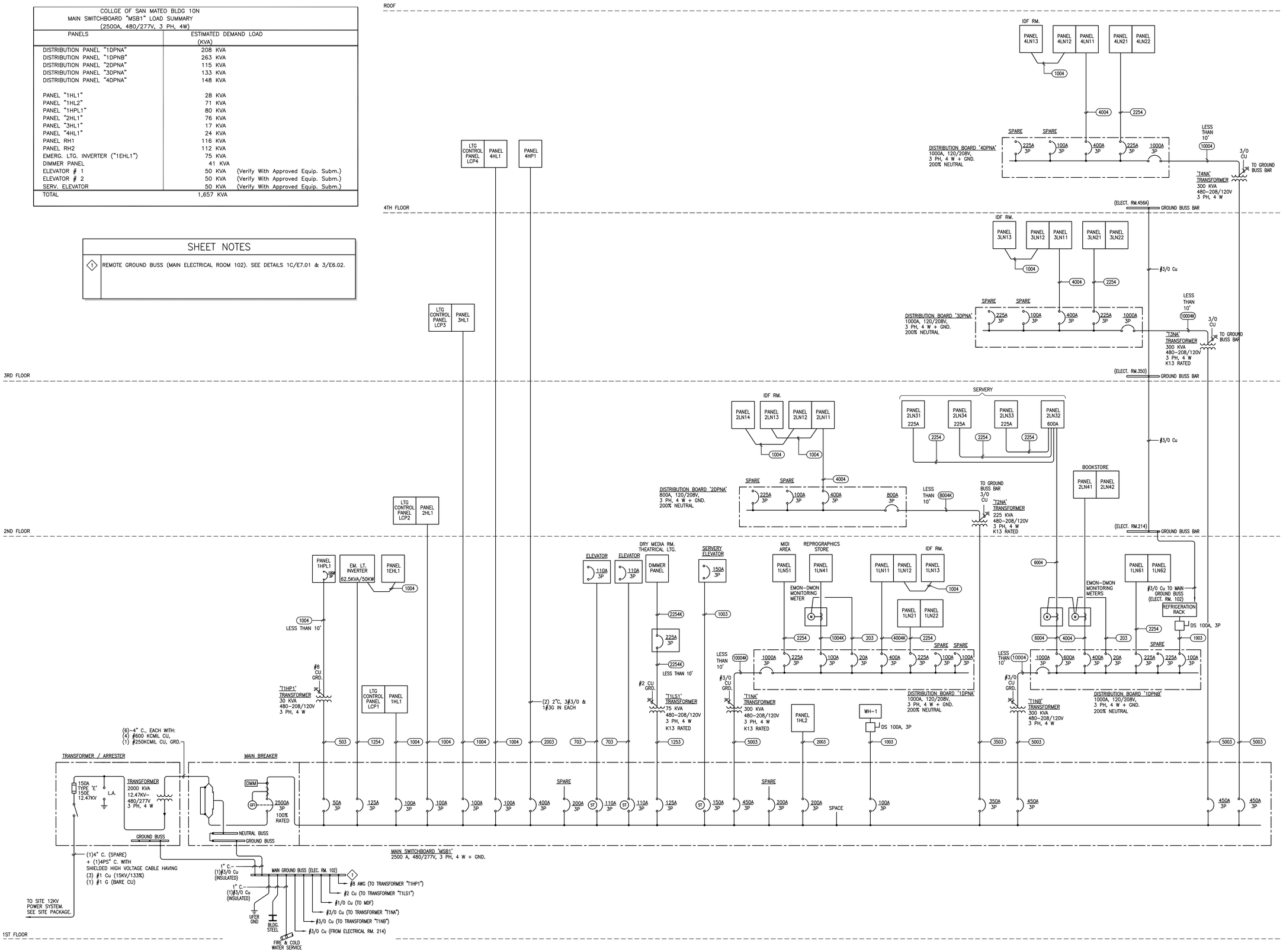
E4.08-R1

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_3000085\Electrical Design-DOR_11-07-2011\3000085_10N_E4.08_SIGNAL PLAN LEVEL 4-SOUTH.dwg - Nov 07, 2011 Monday - 7:30pm - 30x42-Plt - SFERMIL

COLLGE OF SAN MATEO BLDG 10N MAIN SWITCHBOARD "MSB1" LOAD SUMMARY (2500A, 480/277V, 3 PH, 4W)		
PANELS	ESTIMATED DEMAND LOAD (KVA)	
DISTRIBUTION PANEL "1DPNA"	208 KVA	
DISTRIBUTION PANEL "1DPNB"	263 KVA	
DISTRIBUTION PANEL "2DPNA"	115 KVA	
DISTRIBUTION PANEL "3DPNA"	133 KVA	
DISTRIBUTION PANEL "4DPNA"	148 KVA	
PANEL "1HL1"	28 KVA	
PANEL "1HL2"	71 KVA	
PANEL "1HPL1"	80 KVA	
PANEL "2HL1"	76 KVA	
PANEL "3HL1"	17 KVA	
PANEL "4HL1"	24 KVA	
PANEL RH1	116 KVA	
PANEL RH2	112 KVA	
EMERG. LTG. INVERTER ("1EHL1")	75 KVA	
DIMMER PANEL	41 KVA	
ELEVATOR # 1	50 KVA	(Verify With Approved Equip. Subm.)
ELEVATOR # 2	50 KVA	(Verify With Approved Equip. Subm.)
SERV. ELEVATOR	50 KVA	(Verify With Approved Equip. Subm.)
TOTAL	1,657 KVA	

SHEET NOTES

1. REMOTE GROUND BUSS (MAIN ELECTRICAL ROOM 102). SEE DETAILS 1C/E7.01 & 3/E6.02.



1 E-501 SINGLE LINE DIAGRAM
SCALE: None

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE. 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

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DATE ____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
ROSENDIN ELECTRIC
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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	CCD 4 & EDIT SCHL COORDINATION	03/10/10
2	FCO 041 ON AIR SCDA	1/24/09
3	2ND FLOORING CONVERS & 4TH FLS OFFICE + FCO 020	03/24/10
4	SCDA CO-LOC Coordination	03/24/10
5	2ND FLS CONFERENCE RMS & 4TH REVISIONS - FCO 040	03/24/10
6	3RD FLS FINANCIAL AID CHANGES - FCO 038	03/24/10
7	4TH FLS V.P. SUITES CHANGES - FCO 039	03/24/10
8	CH FLS CONFERENCE RMS & 4TH REVISIONS - FCO 040	01/21/11
9	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/05/08
2	50% Construction Documents	07/28/08
3	DSA Submittal	09/18/08
4	99% Construction Documents	12/08/08
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHT	07/28/09
7	FCO 034	08/05/09
8	FCO 016	09/15/09
9	4TH FLS OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
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Scale	

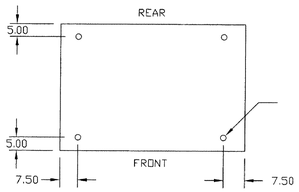
Power System
Single Line
Diagram

E5.01

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E5.01_SINGLE LINE DIAGRAM.dwg - Nov 07, 2011 Monday - 7:31pm - 30x42-Plt - SFERMIL

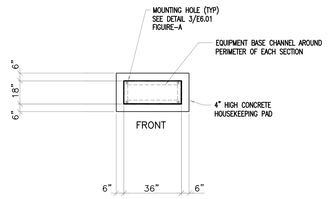
SHEET NOTES

1. VERIFY EXACT LOCATION WITH EQUIPMENT SUBMITTALS.
2. SEISMIC CALCULATIONS FOR SWITCHGEAR COMPONENTS AND MOUNTING DETAILS ARE TO BE PROVIDED BY MANUFACTURER AND APPROVED BY STRUCTURAL ENGINEER OF RECORD.
3. INDOOR; NEMA 1
4. VPI TRANSFORMER; ALUMINUM WINDINGS.
5. 12KV - 480/277V.
6. TOTAL UNIT SUBSTATION WEIGHT = 17,500 LBS.

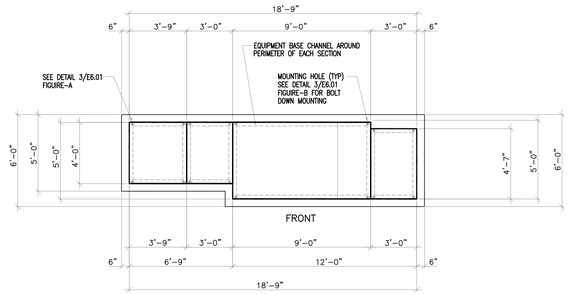


ANCHOR: O.D. = 3/4"ø
MIN. EMBEDMENT = 5 3/4" DEEP

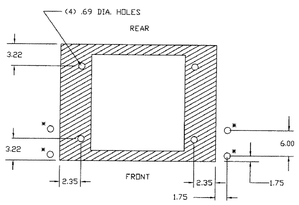
FIGURE-B
BOLT DOWN PATTERN FOR XFMR
4" HIGH CONCRETE
WITH-IN A SWBD-SECTION



PLAN



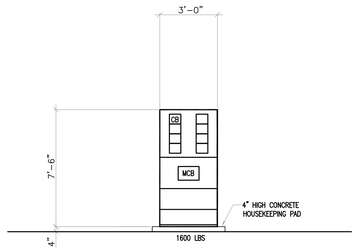
BASE DETAIL



ANCHOR: O.D. = 5/8"ø
MIN. EMBEDMENT = 4" DEEP

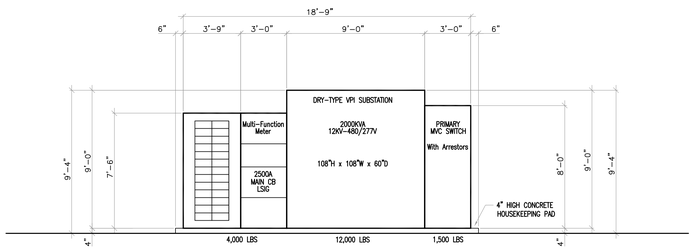
FIGURE-A
BOLT DOWN FOR SWITCHBOARD LINEUP

3 / E6.01 SEISMIC MOUNTING DETAILS
NOT TO SCALE



FRONT ELEVATION

2 / E6.01 TYPICAL FLOOR MOUNTED SWITCHBOARD
NOT TO SCALE



ELEVATION DETAIL

1 / E6.01 INDOOR UNIT SUBSTATION (2000KVA/2500A SWITCHBOARD)
NOT TO SCALE

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	FCO 41 & DOT SIGN COORDINATION	02/11/10
2	REVISIONS FOR AHJ SIGN	FCO 041 12/14/09
3	REVISIONS FOR ADDITIONAL AT FOA OFFICE - FCO 023	03/24/10
4	ESA CO 01 Comments Set	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
7	4TH FLR CONFERENCE RM 401 & 421 REVISIONS - FCO 045	03/24/10
8	ELECTRICAL - DRAWING OF RECORD	01/21/11
9	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/10/08
2	50% Construction Documents	01/30/09
3	DSA Submittal	03/06/09
4	95% Construction Documents	12/05/09
5	DSA Final	03/11/09
6	ELEC EM CHANGES PER ARCHT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

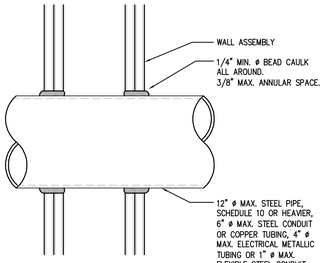
DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

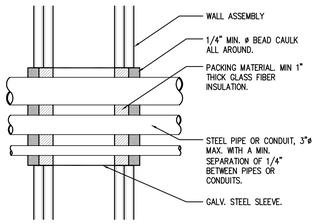
EQUIPMENT & DETAILS

E6.01

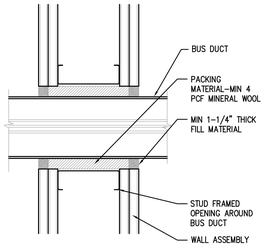
L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E6.01_ELECTRICAL MISCELLANEOUS DETAIL.dwg - Nov 07, 2011 Monday - 7:32pm - 30x42-Plt - SFERMIL



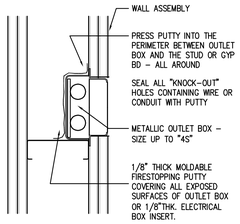
A. STEEL OR COPPER
(1-HR AND 2-HR UL W-L-1001 OR W-L-1049)



B. PIPE CONDUIT
(1-HR AND 2-HR UL W-L-1016)



C. BUS DUCT
(1-HR AND 2-HR PER UL W-L-6003)

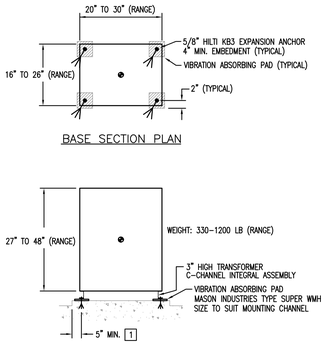


D. OUTLET BOX
(2-HR PER UL R9700 OR R10764 OR R14288)

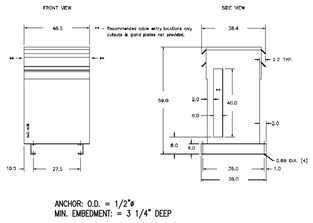
PROVIDE OUTLET BOX FIRESTOPPING AT THE FOLLOWING LOCATIONS:

- WHERE AGGREGATE SURFACE AREA OF OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF CONTIGUOUS PARTITION
- WHERE OUTLET BOXES ON OPPOSITE SIDES OF PARTITION ARE SEPARATED BY LESS THAN 24 INCHES MEASURED HORIZONTALLY
- WHERE INDICATED BY THE DRAWINGS OR SPECIFICATIONS.

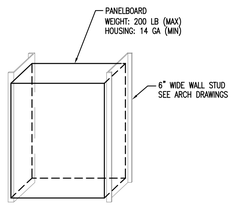
6 / E6.02 TYPICAL PARTITION PENETRATION DETAILS
SCALE: NONE

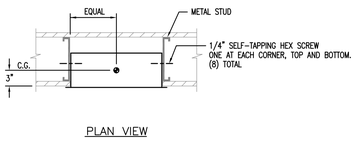


5 / E6.02 TRANSFORMER DETAIL
SCALE: NONE



5A / E6.02 TRANSFORMER DETAIL
SCALE: NONE

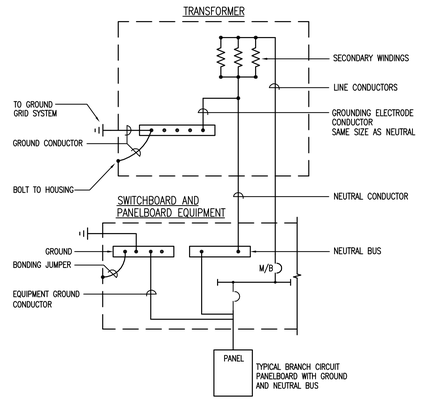




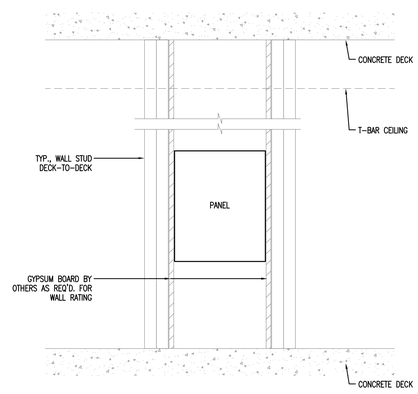
2 / E6.02 FLUSH MOUNTED PANEL OR CABINET ANCHORAGE DETAIL
SCALE: NONE

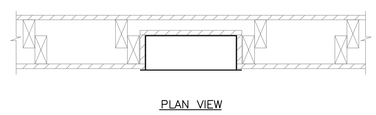
SHEET NOTES

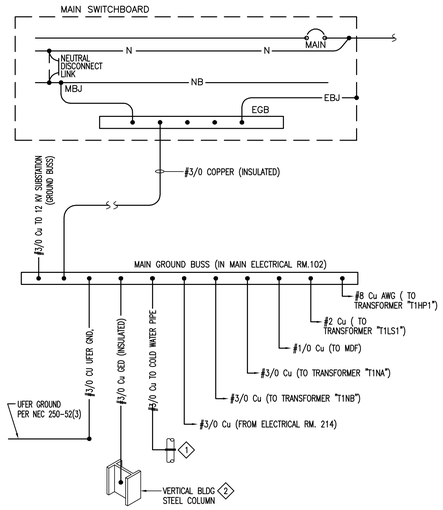
1. SEE STRUCTURAL DRAWINGS FOR PAD CONFIGURATION REQUIREMENTS. SUBMIT DIMENSIONS OF PADS WITH EQUIPMENT SIZES FOR ARCHITECTS REVIEW PRIOR TO COMMENCING WORK. VERIFY EQUIPMENT DIMENSIONS WITH EQUIPMENT MANUFACTURER.



4 / E6.02 TRANSFORMER SYSTEM GROUNDING ARRANGEMENT
SCALE: NONE







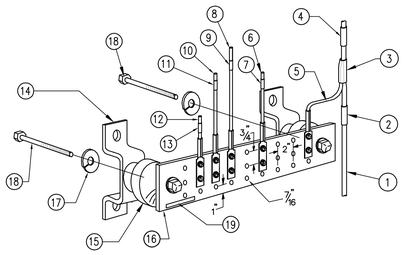
LEGEND:

NB	NEUTRAL BUSS
EGB	EQUIPMENT GROUND BUSS NEUTRAL CONDUCTOR N
GEC	GROUNDING ELECTRODE CONDUCTOR BARE OR INSUL, SIZED PER 250-66
EGC	EQUIPMENT GROUNDING CONDUCTOR BARE (BC) OR INSUL, SIZED PER 250-122 MAIN BONDING JUMPER,
MBJ	SIZED PER 250-28(d)

NOTES:

1. NEAREST EFFECTIVELY GROUNDED METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10 FEET OR MORE ELECTRICALLY CONT. TO POINTS OF CONNECTION OF THE GROUNDING ELECTRODE CONDUCTOR AND ANY BONDING CONDUCTORS. THE GEC SHALL BE SIZED PER SECTION 250-66.
2. NEAREST EFFECTIVELY GROUNDED STRUCTURAL METAL FRAMING MEMBER. THE GEC SHALL BE SIZED PER SECTION 250-66. CONNECTION SHALL BE EXOTHERMIC WELD.

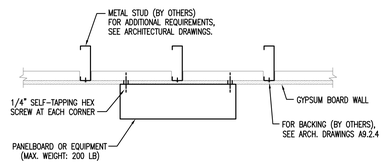
3 / E6.02 GROUNDING DIAGRAM
SCALE: NONE



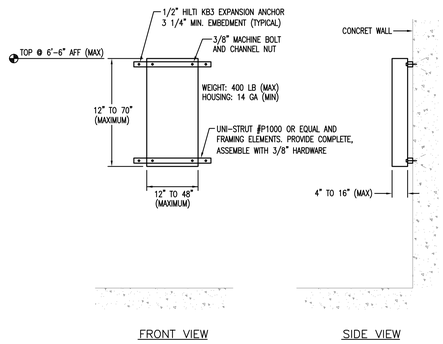
NOTES:

1. (TBB) INSULATED, CONDUCTOR TO TELECOMMUNICATION BONDING BACKBONE (TBB) CONDUCTOR.
2. LABEL: TO TELECOMMUNICATION MAIN GROUNDING BUSBAR (TMGB).
3. EXOTHERMIC WELD OR, COMPRESSION CONDUCTOR.
4. LABEL: TO TELECOMMUNICATION GROUNDING BUSBAR (TGB).
5. TBC, INSULATED CONDUCTOR TO TGB.
6. BONDING CONDUCTOR TO BUILDING STEEL.
7. LABEL: TO BUILDING STEEL
8. BONDING CONDUCTOR TO CONDUITS AND OTHER PATHWAYS.
9. LABEL: TO CONDUIT
10. BONDING CONDUCTOR TO OVERHEAD CABLE SUPPORT.
11. LABEL: TO CABLE TRAY.
12. BONDING CONDUCTOR TO EQUIPMENT RACKS.
13. LABEL: TO EQUIPMENT RACKS.
14. GALVANIZE STEEL STANDOFF SUPPORTS, BOLTED TO BACKBOARD.
15. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 (OR EQUAL).
16. GROUNDING BUS BAR.
17. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 (OR EQUAL).
18. 5/8"-11 x 1" H.H.C.S. BOLTS, NEWTON INSTRUMENT COMPANY, CAT NO. 3012-1 (OR EQUAL).
19. LABEL: TGB.

7 / E6.02 GROUND BAR DETAIL
SCALE: NONE



SURFACE MOUNTED PANEL OR CABINET ON METAL STUD WALL



SURFACE MOUNTED PANEL/DISTRIBUTION PANEL OR CABINET @ CONCRETE WALL

1 / E6.02 SURFACE MOUNTED PANEL OR CABINET ANCHORAGE DETAIL
SCALE: NONE

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE. 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
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E015390
EXP.6/30/11
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ROSENDIN ELECTRIC
www.rosendin.com
CORPORATE HEADQUARTERS
880 Mabury Road
San Jose, Ca 95133
(408) 286-2000
Arizona California Nevada New Mexico Oregon

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

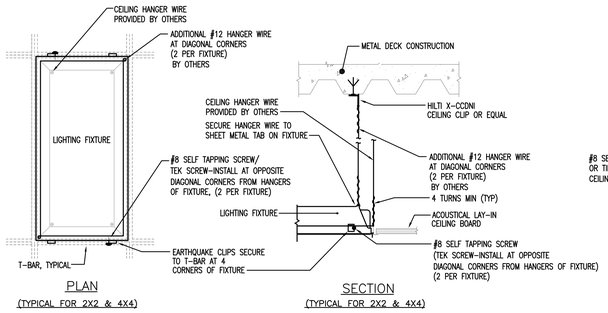
Revision	Description	Date
1	FCO-41 EDIT SIGN COORDINATION	07/12/10
2	PROVIDE CLAIM SIGN	FCO 043 12/14/10
3	2ND FLR LEARNING CENTER A	03/24/10
4	2ND FLR LEARNING CENTER A, 1ST FLR STAIR 5, 1ST FLR STAIR 6, DSA LOCATL CORRECTIONS	03/24/10
5	2ND FLR FINANCIAL AID CHANGES - FCO 058	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 059	03/24/10
7	4TH FLR CONFERENCE RMS 401 & 401 REVISIONS - FCO 061	03/24/10
8	ELECTRICAL DRAWING OF RECORD	01/21/11
9	ELECTRICAL DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/09/09
2	50% Construction Documents	07/15/09
3	DSA Submittal	09/18/09
4	95% Construction Documents	11/09/09
5	DSA Final	03/11/09
6	ELEC RM CHANGES PER ARCHIT	07/28/09
7	FCO 014	08/05/09
8	FCO 015	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 022	11/20/09

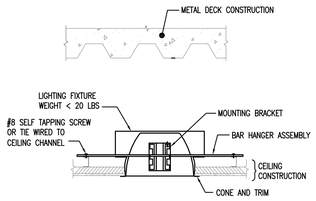
Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

MISCELLANEOUS ELECTRICAL DETAILS
E6.02

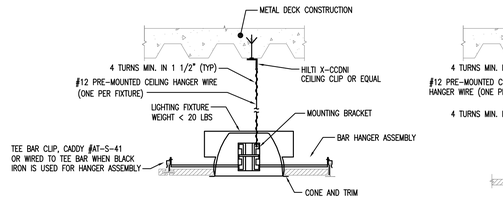
L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E6.02_ELECTRICAL MISCELLANEOUS DETAIL.dwg - Nov 07, 2011 Monday - 7:33pm - 30x42-Plt - SFERMIL



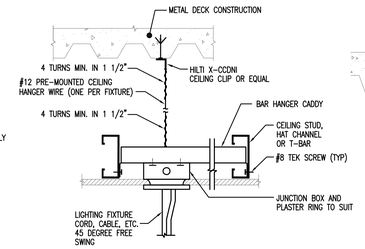
RECESSED FLUORESCENT
TEE-BAR CEILING



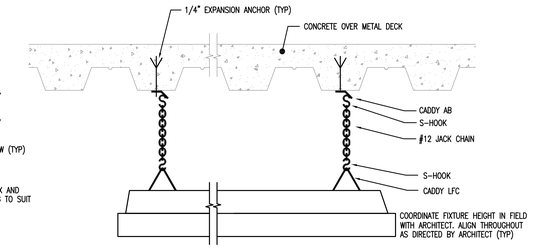
RECESSED DOWNLIGHT
GYPSUM BOARD CEILING



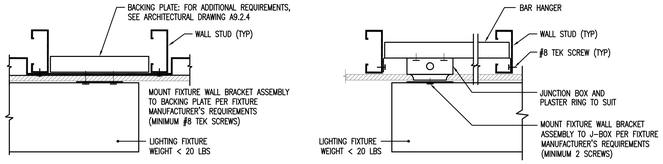
RECESSED DOWNLIGHT
TEE-BAR CEILING



SUSPENDED MOUNTED FIXTURE

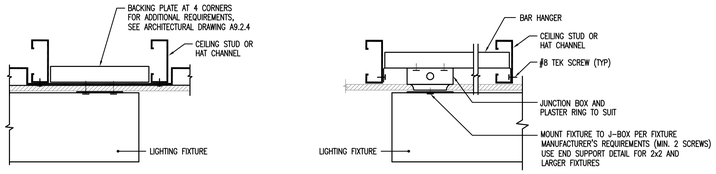


SUSPENDED CHAIN-HUNG FLUORESCENT



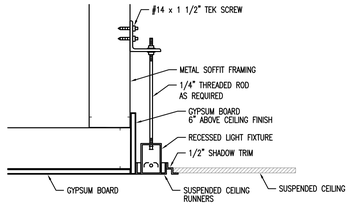
INTERMEDIATE/END SUPPORT — FEED-END SUPPORT

WALL SURFACE MOUNTED FLUORESCENT



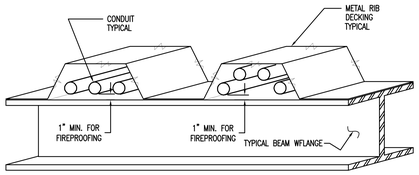
INTERMEDIATE/END SUPPORT — FEED-END SUPPORT

CEILING SURFACE MOUNTED FLUORESCENT



RECESSED STRIP LIGHT NEAR SOFFIT
(FOR FIXTURE TYPES F14 AND F16)

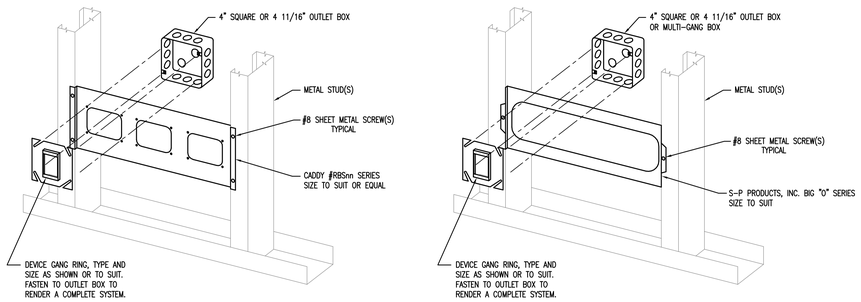
4 / E6.03 LIGHT FIXTURE ANCHORAGE
SCALE: NONE



TYPICAL CONDUIT INSTALLED ABOVE
BEAM WFLANGE IN METAL DECKING

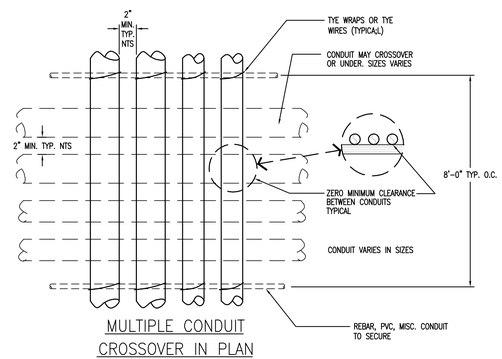
EQUIPMENT ANCHORAGE AND SUPPORT NOTES

1. ANCHOR ALL CONDUITS, RACEWAY AND ELECTRICAL EQUIPMENT TO BUILDING STRUCTURE OR STRUCTURAL MEMBERS.
2. CONDUITS 1/2" TO 2": ATTACH TO STRUCTURE PER CALIFORNIA BUILDING CODE AND CALIFORNIA ELECTRICAL CODE ATTACHMENT REQUIREMENTS.
3. CONDUITS 2 1/2" AND LARGER: ANCHOR TO STRUCTURE PER SPECIFICATION SECTION 16180.
4. ALL CONDUITS TO BE SUPPORTED AT 8 FEET ON CENTERS AND WITHIN 18" OF ENDS.



ARRANGEMENT A
PROVIDE WHERE STUD(S) ARRANGEMENT ALLOWS

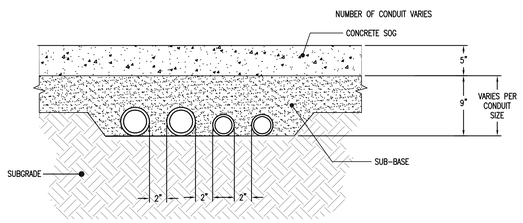
ARRANGEMENT B
PROVIDE ONLY WHERE ARRANGEMENT 'A' IS NOT AVAILABLE DUE TO SPATIAL CONSTRAINTS



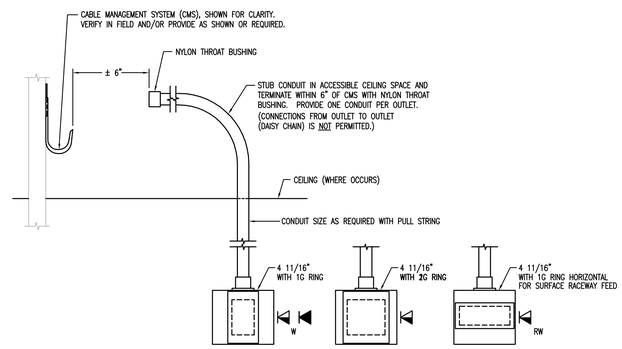
MULTIPLE CONDUIT
CROSSOVER IN PLAN

SUSPENDED OR PENDANT LIGHT FIXTURES SUPPORT NOTES:

1. "THE PENDANT FIXTURES SHALL BE FREE TO SWING A MINIMUM OF 45° FROM THE VERTICAL IN ALL DIRECTIONS WITHOUT CONTACTING ANY OBSTRUCTIONS"
2. IF SOME PENDANT FIXTURES CANNOT SATISFY ITEM NO. 1 ABOVE, THEN PROVIDE SEISMIC RESTRAINTS.
3. THE SUPPORTING HANGER CAN BE ROD, CONDUIT OR AIRCRAFT CABLE (MIN, 3/32" ø). THE HANGER AND ITS CONNECTION SHALL BE CAPABLE TO SUPPORT 4 TIMES THE SUPPORTING LOAD. THE HANGER SHALL BE LOCATED CLOSETO THE END OF EACH SECTION.
4. FOR FREE-SWING SUSPENSION SYSTEMS, AIRCRAFT SAFETY CABLE MAY NOT BE REQUIRED IF HANGER IS AIRCRAFT CABLE AND DIRECTY ATTACHED TO FIXTURE AND ROOF FRAMING. ALL OTHER CASES, PROVIDE SAFETY CABLE (TO MATCH FIXTURE AND STRUCTURAL FRAMING ABOVE).
5. FOR MUTILPLE UNITS (CONTINOUS RUN), ALL UNITS SHALL BE ASSEMBLED PER MANUFACTURER'S RECOMMENDATIONS AND COMPONENTS.



UNDERGROUND/UNDER SLAB
CONDUIT DETAIL CROSS-SECTION



3 / E6.03 OUTLET BOX SUPPORT ARRANGEMENTS
SCALE: NONE

2 / E6.03 UNDER STRUCTURE CONDUIT SUPPORT
SCALE: NONE

1 / E6.03 VOICE/ DATA OUTLET ARRANGEMENT
SCALE: NONE

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
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DATE _____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
ROSENDIN ELECTRIC
www.rosendin.com
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Arizona California Nevada New Mexico Oregon

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
4	FCO-41 EXIT SIGN COORDINATION	07/12/11
3	REVISE E-04 AS SIGN	FCO 041 12/14/10
2	RESTRUCTURING SYSTEM A	03/24/10
1	DSA COMMENTS - REVISE ELEVATOR SYSTEM	03/24/10
0	DSA / OSHPD COMMENTS	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
3	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
2	3RD FLR FINANCIAL AID CHANGES - FCO 038 REV 1	05/06/10
1	4TH FLR OFFICES REVISION PER OWNER - FCO 002	11/20/09
0	ELECTRICAL DRAWING OF RECORD	11/07/11

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE. 11-07-2011

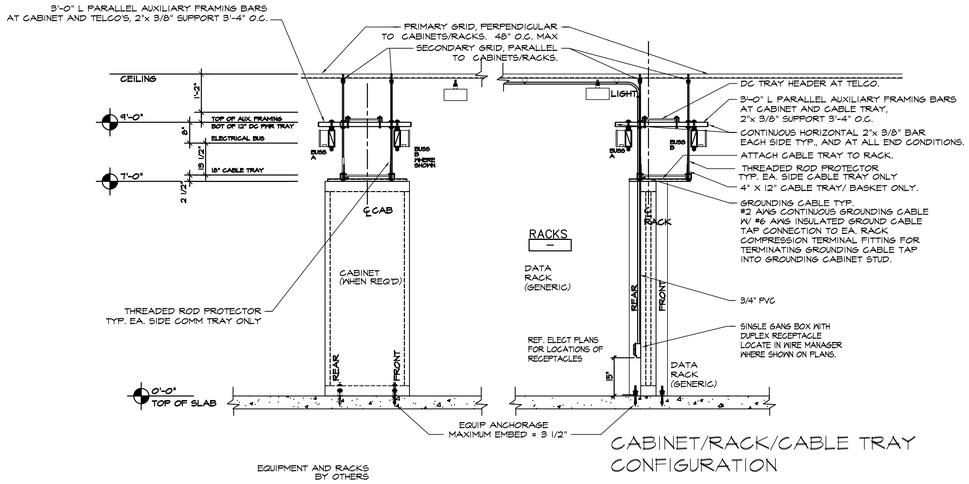
Revision	Description	Date
0	100% Design Development	06/09/09
1	50% Construction Documents	07/29/09
2	DSA Submittal	09/18/09
3	95% Construction Documents	11/09/09
4	DSA Final	03/11/09
5	ELEC RM CHANGES PER ARCHIT	07/28/09
6	FCO 014	08/05/09
7	FCO 016	09/15/09
8	4TH FLR OFFICES REVISION PER OWNER - FCO 002	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

MISCELLANEOUS ELECTRICAL DETAILS

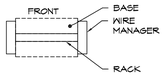
E6.03

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E6.03_ELECTRICAL MISCELLANEOUS DETAIL.dwg - Nov 07, 2011 Monday - 7:34pm - 30x42-Plt - SFERMIL



2 E6.04 INFRASTRUCTURE ELEVATION COORDINATION

SCALE: NTS



1 E6.04 DATA RACK DETAIL - PLAN

SCALE: 1/2" = 1'-0"

Project: College of San Mateo
Customer: Rosendin Electric
Date: 6/3/2009

A. PALMA engineering

Tag: Wall Mounted Transformer (30 kva)

SEISMIC ANCHORAGE CALCULATIONS FOR WALL MOUNTED 30kva TRANSFORMER

LOCATED AT:
College of San Mateo
San Mateo, California

REVISION 0
Original Calculations Dated 6/3/09

Exp. 12/31/10 CIVIL STATE OF CALIFORNIA

CALCULATIONS PREPARED BY:

Adrian Palma, P.E.

Sheet C1 of C4

Project: College of San Mateo
Customer: Rosendin Electric
Date: 6/3/2009

A. PALMA engineering

Tag: Wall Mounted Transformer (30 kva)

Max Dead Load: $W_{DL} = 225$ lb

SEISMIC CRITERIA PER 2007 CBC & ASCE 7-05: Occupancy Category III, Site Class D

$S_s = 1.50$ — Mapped spectral accelerations for short periods

$F_a = 1.00$ — Site coefficient

$S_{MS} = F_a S_s$ — MCE spectral response acceleration for short periods

$S_{DS} = \frac{2}{3} S_{MS}$ — Spectral acceleration, short period $S_{DS} = 1$

$z = 1.0$ — Height in structure of point of attachment of component w/ respect to the base

$h = 1.0$ — Average roof height of structure w/ respect to base

$I_p = 1.0$ — Component importance factor

$a_p = 1.0$ — Component amplification factor

$R_p = 2.5$ — Component response modification factor

$$F_p = \frac{0.4 a_p S_{DS}}{\frac{R_p}{I_p}}\left(1 + 2\frac{z}{h}\right) \qquad F_p = 0.4g \qquad \text{Governs!}$$

shall not be greater than:

$F_{pmax} = 1.6 I_p S_{DS}$ $\qquad F_{pmax} = 1.6$

and shall not be less than:

$F_{pmin} = 0.3 I_p S_{DS}$ $\qquad F_{pmin} = 0.3$

$F_{ph} = F_p$ $\qquad F_{ph} = 0.4g$

Sheet C2 of C4

Project: College of San Mateo
Customer: Rosendin Electric
Date: 6/3/2009

A. PALMA engineering

Tag: Wall Mounted Transformer (30 kva)

Check Axial Compression in Brace:

Member Type: Universal P1000

Max Unbraced Length of Column: $L_c = 69$ in

Radius of Gyration: $r = 0.577$ in

Cross Sectional Area: $A = 0.555$ in^2

$K_c = 2.0$

Axial Load on member: $F_{bc} = 198$ lb — Refer to Risa Results

Using AISC requirements for maximum length and maximum stress.

$E = 29000000 \frac{lb}{in^2}$

$\frac{K \cdot L}{r} = 208 > 116.9$

$$F_a = \frac{12 \pi^2 E}{23\left(\frac{K \cdot L}{r}\right)^2}$$

$F_a = 2403 \frac{lb}{in^2}$

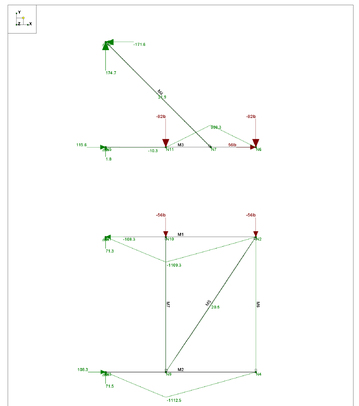
Maximum allowable compressive load,

$P_{max} = F_a A$

$P_{max} = 1916$ lb $> F_{bc} = 198$ lb

Unistrut P1000 okay!

Sheet C4 of C4



Mason Industries		June 3, 2009
Edsel Palma		3:00 PM
	30 kva TRANSFORMER	Xfmr r2s

Company : **Mason Industries**
Designer : **Edsel Palma**
Job Number :
June 3, 2009
3:01 PM
Checked By:_____

Member Section Forces, By Combination (continued)

LC	Member Label	Section	Axial (lb)	Shear (lb)	Moment (lb-in)
1	M5	1	192.318	-1.892	0
		2	193.737	-946	15.348
		3	195.156	0	20.465
		4	196.575	946	15.348
		5	197.994	1.892	0
1	M6	1	-54.398	0	0
		2	-52.969	0	0
		3	-51.55	0	0
		4	-50.131	0	0
		5	-48.712	0	0
1	M7	1	-57.968	0	0
		2	-56.149	0	0
		3	-54.71	0	0
		4	-53.371	0	0
		5	-51.892	0	0

Member Stresses, By Combination

LC	Member Label	Section	Axial (psi)	Shear (psi)	Bending top (psi)	Bending bot (psi)
1	M1	1	-194.7	153.873	0	0
		2	-194.7	150.669	-3491.179	-2105.899
		3	-194.7	-98.064	-4640.572	-3037.955
		4	-194.7	-101.447	-2363.775	-1834.186
		5	-194.7	-104.85	0	0
1	M2	1	-194.7	154.209	0	0
		2	-194.7	150.097	-3490.969	-2713.484
		3	0	-98.509	-4662.625	-3617.991
		4	0	-101.732	-2370.301	-1839.25
		5	0	-105.195	0	0
1	M3	1	-207.961	3.889	0	0
		2	-207.961	-486	-50.132	-38.898
		3	-207.961	-119.695	-1599.991	-1241.523
		4	-100.719	180.381	-4004.666	-3177.281
		5	-100.719	178.978	0	0
1	M4	1	-432.9	-4.164	0	0
		2	-434.555	-2.362	-81.055	62.895
		3	-436.54	0	-108.075	83.86
		4	-438.525	2.362	-81.055	62.895
		5	-440.91	4.164	0	0
1	M5	1	145.896	-4.083	0	0
		2	148.448	-2.042	-78.912	98.905
		3	150	0	-105.216	78.539
		4	151.552	2.042	-78.912	98.905
		5	154.104	4.083	0	0
1	M6	1	-92.761	0	0	0
		2	-92.761	0	0	0
		3	-92.761	0	0	0
		4	-92.761	0	0	0
		5	-92.761	0	0	0
1	M7	1	-103.54	0	0	0
		2	-100.988	0	0	0
		3	-98.436	0	0	0
		4	-95.884	0	0	0
		5	-93.331	0	0	0

RISA-2D Version 5.5 [G:\A. Palma Engineering\Customer\R-Z\Rosendin Electric\College of San Mateo\Page\C3]

Project: College of San Mateo
Customer: Rosendin Electric
Date: 6/3/2009

A. PALMA engineering

Tag: Wall Mounted Transformer (30 kva)

CHECK MAIN MEMBERS FOR BENDING

Member: Unistrut P1001

$S_x = 6.572$ in^3

Maximum bending moment:

$M_{bx} = 1113$ lb · in — Refer to Risa Results

$M_{by} = 1113$ lb · in

Bending stress:

$f_{bx} = \frac{M_x}{S_x}$

$f_{bx} = 1946 \frac{lb}{in^2}$

$F_y = 42000 \frac{lb}{in^2}$

$F_b = 0.60 \cdot F_y$

$F_b = 25200 \frac{lb}{in^2} > f_{bx} = 1946 \frac{lb}{in^2}$

Unistrut P1001 okay!

Sheet C5 of C4

Project: College of San Mateo
Customer: Rosendin Electric
Date: 6/3/2009

A. PALMA engineering

Tag: Wall Mounted Transformer (30 kva)

Check Anchor Attachment to Concrete Wall

Consider 1/2" Dia. Hilti TZ anchors w/ 2" Embedment

Base Shear: $P_x = 175$ lb

$P_y = 175$ lb

Anchor Tension: $T_u = 172$ lb $\qquad T_a = 172$ lb

Anchor Shear: $V_u = P_x$ $\qquad V_a = 175$ lb

Try 1/2" dia. type Hilti TZ anchors with 3-1/2" minimum embedment. Per ESR-1917 for anchors installed concrete wall.

$\alpha = 1.2$ — AED Reduction

$T_{allow} = \frac{1167 \text{ lb}}{\alpha}$

$V_{allow} = \frac{2039 \text{ lb}}{\alpha}$

$T_{allow} = 972$ lb $> |T_u| = 172$ lb

$V_{allow} = 2366$ lb $> V_u = 175$ lb

Combining the loads for Unity check:

$$\left(\frac{|T_u|}{T_{allow}}\right) + \left(\frac{V_u}{V_{allow}}\right) = 0.25 < 1.20 \quad \text{okay!}$$

Sheet C5 of C4

Company : **Mason Industries**
Designer : **Edsel Palma**
Job Number :
June 3, 2009
3:01 PM
Checked By:_____

Joint Coordinates

Joint Label	X Coordinate (in)	Y Coordinate (in)	Joint Temperature (F)
N1	40	36	0
N2	40	36	0
N3	40	0	0
N4	40	0	0
N5	0	60	0
N6	40	60	0
N7	28	60	0
N8	0	88	0
N9	16	0	0
N10	16	36	0
N11	16	60	0

Joint Loads/Enforced Displacements, Category : DL, BLC 1 : DEAD

Joint Label	B.Load [M]ass or [D]isplacement	Direction	Magnitude (lb, lb-in, in, rad, lb*s^2/in)
N11	L	Y	-62
N8	L	Y	-62
N10	L	Y	-56
N2	L	Y	-56
N9	L	X	56

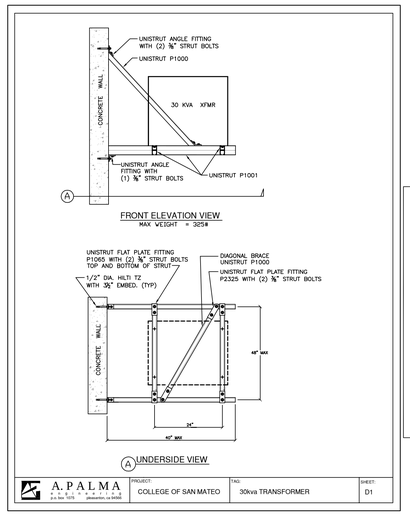
Reactions, By Combination

LC	Joint Label	X Force (lb)	Y Force (lb)	Moment (lb-in)
1	N8	-171.626	174.746	0
1	N5	115.626	1.892	0
1	N1	-108.253	71.294	0
1	N3	-108.253	71.462	0
1	Totals:	-56	319.396	0
1	COG (in)	X: 27.292	Y: 61.807	

Member Section Forces, By Combination

LC	Member Label	Section	Axial (lb)	Shear (lb)	Moment (lb-in)
1	M1	1	-108.253	71.294	0
		2	-108.253	69.717	-705.058
		3	-108.253	-45.427	-940.077
		4	-108.253	-47.004	-477.922
		5	-108.253	-48.58	0
1	M2	1	108.253	71.462	0
		2	108.253	69.915	-707.037
		3	0	-45.589	-942.716
		4	0	-47.136	-479.241
		5	0	-48.712	0
1	M3	1	115.626	1.892	0
		2	115.626	2.25	-10.135
		3	115.626	-83.561	323.495
		4	56	83.577	827.883
		5	56	83	0
1	M4	1	-240.509	-2.227	0
		2	-241.612	-1.104	16.388
		3	-242.716	0	21.851
		4	-243.82	1.104	16.388
		5	-244.923	2.227	0

RISA-2D Version 5.5 [G:\A. Palma Engineering\Customer\R-Z\Rosendin Electric\College of San Mateo\Page\C6]



A. PALMA engineering, P.O. Box 1075, Pleasanton, CA 94566 | PROJECT: COLLEGE OF SAN MATEO | TAG: 30kva TRANSFORMER | SHEET: D1

3 E6.04 SEISMIC ANCHORAGE CALCS FOR WALL MOUNTED 30KVA TRANSFORMER

SCALE: NONE

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL. #: 01-110095
AC _____ FLS _____ SS _____
DATE _____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER ERNESTO ANTONIO HERNANDEZ E015390 EXP.6/30/11 ELECTRICAL STATE OF CALIFORNIA

BUILDING QUALITY. BUILDING VALUE. BUILDING PEOPLE.
ROSENDIN ELECTRIC
www.rosendin.com
CORPORATE HEADQUARTERS
880 Mabury Road
San Jose, CA 95133
(408) 286-2000
Arizona California Nevada New Mexico Oregon

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
4	FCO 41 EDIT SIGN COORDINATION	01/12/11
3	REVISE CALLAR SIGN	12/14/10
2	REFLECT CLEARING CENTER & ADD FCO 038 CHANGES - FCO 037 ETI FLS SPRS - FCO 035	03/24/10
1	ETI FLS FINANCIAL AID CHANGES - FCO 036	03/24/10
0	ETI FLS VP SUITES CHANGES - FCO 039	03/24/10
	ETI FLS CONFERENCE RM 401 & 401 RESTROOM - FCO 040	03/24/10
	ETI FLS OFFICES RESTROOM PER OWNER - FCO 020	11/20/09

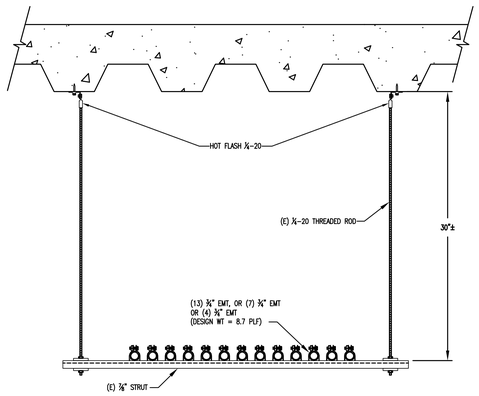
Revision	Description	Date
4	100% Design Development	06/30/09
3	50% Construction Documents	07/29/09
2	DSA Submittal	09/18/09
1	95% Construction Documents	12/08/09
0	DSA Final	03/11/09
4	ELEC RM CHANGES PER ARCHIT	07/28/09
3	FCO 014	08/05/09
2	FCO 016	08/15/09
1	ETI FLS OFFICES RESTROOM PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Miscellaneous Electrical Details

E6.04

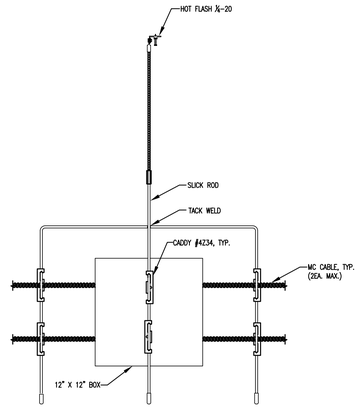
L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E6.04_ELECTRICAL MISCELLANEOUS DETAIL.dwg - Nov 07, 2011 Monday - 7:35pm - 30x42-Plt - SFERMIL



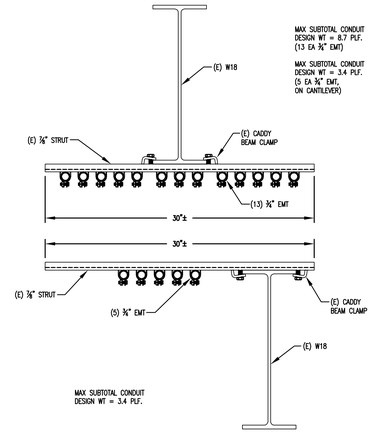
NOTE:

1. FOR TRAPEZE SUPPORTING MAX (13) ¾" EMT, SEISMIC FORCES NEED NOT BE CONSIDERED.

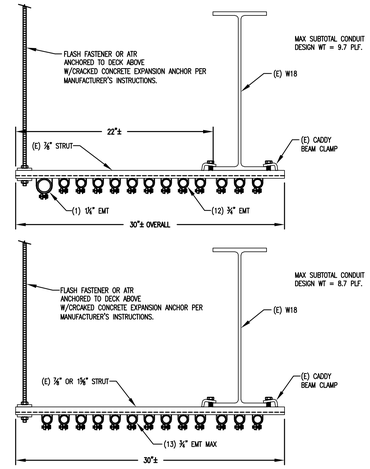
1 E6.05 FLASH TRAPEZE
SCALE:



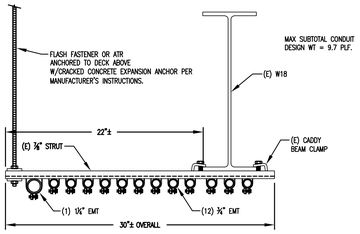
2 E6.05 FLASH PITCHFORK
SCALE:



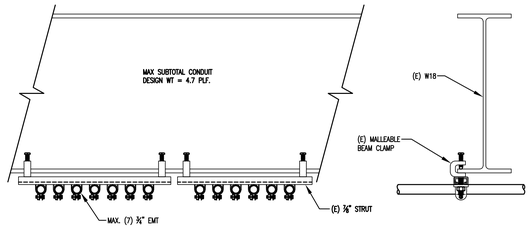
3 E6.05 BEAM CLAMP
SCALE:



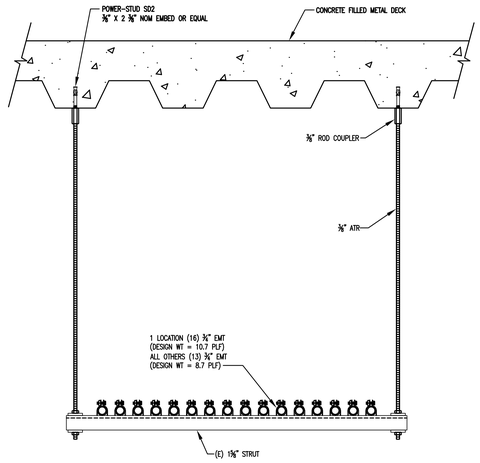
4 E6.05 BEAM CLAMP W/ROD DROP
SCALE:



5 E6.05 BEAM CLAMP W/ROD DROP
SCALE:



6 E6.05 SIDE MOUNT
SCALE:

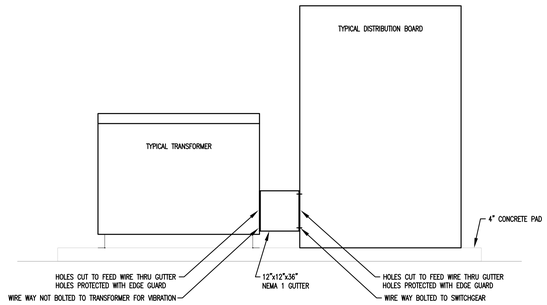


NOTE:

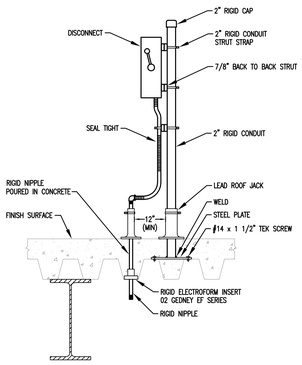
1. FOR TRAPEZE SUPPORTING MAX (13) ¾" EMT, SEISMIC FORCES NEED NOT BE CONSIDERED.

2. FOR TRAPEZE SUPPORTING (16) ¾" EMT, INSTALL TRANSVERSE BRACE AT 40' O.C. MAX & LONGITUDINAL BRACES (PAIR ONLY) AT 80' O.C. MAX. BRACE ANCHOR SHALL BE ⅜" POWER-STUD+ SD2 (ESR-2502) X MIN 3⅜" NOM EMBED OR EQUAL.

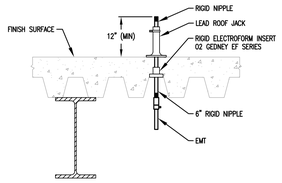
7 E6.05 DECK MOUNTED
SCALE:



8 E6.05 GUTTER CONNECTION
SCALE: NONE



9 E6.05 DISCONNECT MOUNTING ON 2" RIGID STAND
SCALE: NONE



10 E6.05 RIGID STUB UP FOR MISCELLANEOUS ROOFTOP AND SLAB MOUNTED EQUIPMENT
SCALE: NONE

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E6.05_ELECTRICAL MISCELLANEOUS DETAIL.dwg - Nov 07, 2011 Monday - 7:37pm - 30x42-Plt - SFERMIL

McCARTHY LPA KH

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343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

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REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
ROSENDIN ELECTRIC
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CORPORATE HEADQUARTERS
880 Mabury Road
San Jose, Ca 95133
(408) 286-2800
Arizona California Nevada New Mexico Oregon

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	FCO 11 EXIT SIGN COORDINATION	12/17/10
2	REVISED CKL AIR SIGN	1/31/11
3	2ND CITY/COUNTY COMMENTS - FCO 001	02/24/10
4	2ND CITY/COUNTY COMMENTS - 4TH FLR OFFICE - FCO 003	02/24/10
5	DSA CO OL Conformed Set	03/24/10
6	3RD FLR FINANCIAL AID CHANGES - FCO 008	03/24/10
7	4TH FLR V.P. SUITES CHANGES - FCO 009	03/24/10
8	4TH FLR CONFERENCE RMS #1 & #3 REVISIONS - FCO 010	03/24/10
9	ELECTRICAL - DRAWING OF RECORD	01/21/11
10	ELECTRICAL - DRAWING OF RECORD	11/07/11

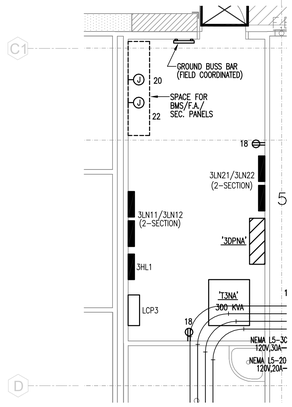
Revision	Description	Date
1	100% Design Development	06/05/08
2	50% Construction Documents	07/28/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/05/08
5	DSA Final	03/11/09
6	ELEC EM CHANGES PER ARCHT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE. 11-07-2011

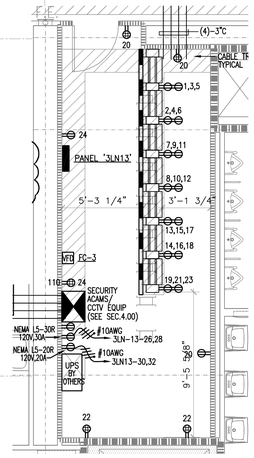
Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Miscellanoeus
Electrical Details

E6.05

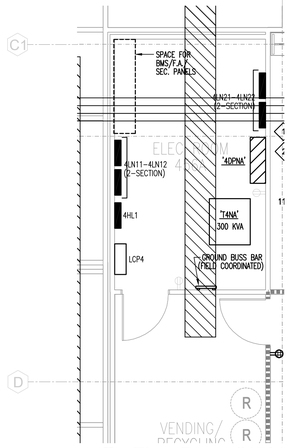


3A E7.01 Elec. Room #350

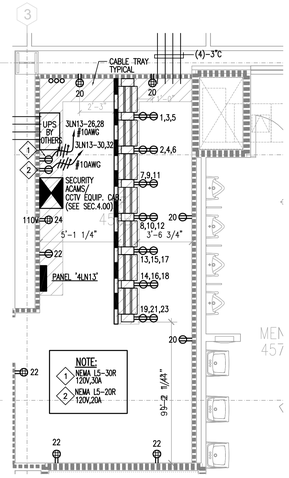


3B E7.01 IDF Room 350A

3 E7.01 Enlarged Electrical Plan - Level 3
SCALE: 1/4"=1'-0"



4A E7.01 Elec. Room #456A

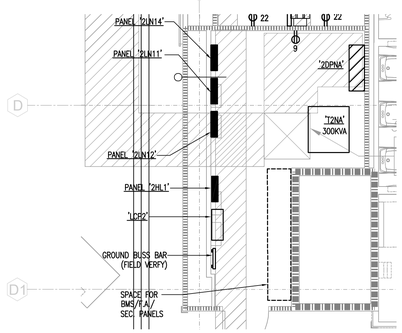


4B E7.01 IDF Room 456B

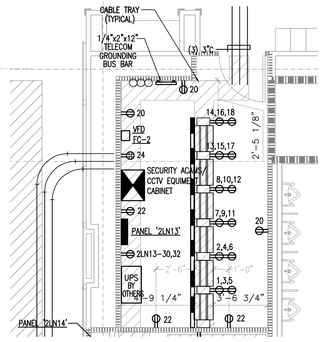
4 E7.01 Enlarged Electrical Plan - Level 4
SCALE: 1/4"=1'-0"

Equipment Schedule

Description	Voltage (V)	Amperage (A)	KVA	Location	Manufacturer
MSB1	480/277	2500	–	102	Eaton
XFMR PRIMARY SW	12,500	600	–	102	Eaton
PRIMARY XFMR	12,500 – 480/277	160	2000	102	MGM
XFMR T1HP1	480 – 208/120	63	30	102	Hammond
1HPL1	208/120	100	–	102	Eaton
EM. LT. INVERTER	480/277	–	62.5	102	OnLine
1EHL1	480/277	100	–	102	Eaton
1DPNB	208/120	1000	–	102	Eaton
XFMR T1NB	480 – 208/120	625	300	102	Hammond
SERVERY ELEV. DISC.	480	20	–	111	Eaton
LCP1	–	–	–	157	WattStopper
1HL1	480/277	100	–	157	Eaton
SECONDARY DISC.	240	225	–	157	Eaton
XFMR T1LS1	480 – 208/120	156	75	157	Hammond
1LN11	208/120	400	–	157	Eaton
1LN12	208/120	400	–	157	Eaton
1LN21	208/120	225	–	157	Eaton
1LN22	208/120	225	–	157	Eaton
1DPNA	208/120	1000	–	157	Eaton
XFMR T1NA	480 – 208/120	625	300	157	Hammond
1LN13	208/120	225	–	157A	Eaton
DIMMER PANEL	–	–	–	Stair 164	Lutron
1LN51	208/120	225	–	176	Eaton
1LN61	208/120	225	–	176	Eaton
1LN62	208/120	225	–	176	Eaton
1LN41	208/120	100	–	190	Eaton
2LN41	208/120	225	–	204A	Eaton
2LN42	208/120	225	–	204A	Eaton
2LN31	208/120	225	–	205J	Eaton
2LN32	208/120	600	–	205J	Eaton
2LN33	208/120	225	–	205J	Eaton
2LN34	208/120	225	–	205J	Eaton
LCP2	–	–	–	214	WattStopper
2HL1	480/277	100	–	214	Eaton
2LN11	208/120	400	–	214	Eaton
2LN12	208/120	400	–	214	Eaton
2DPNA	208/120	800	–	214	Eaton
XFMR T2NA	480 – 208/120	469	225	214	Hammond
2LN13	208/120	225	–	214A	Eaton
LCP3	–	–	–	350	WattStopper
3HL1	480/277	100	–	350	Eaton
3LN11	208/120	400	–	350	Eaton
3LN12	208/120	400	–	350	Eaton
3LN21	208/120	225	–	350	Eaton
3LN22	208/120	225	–	350	Eaton
3DPNA	208/120	1000	–	350	Eaton
XFMR T3NA	480 – 208/120	625	300	350	Hammond
3LN13	208/120	100	–	350A	Eaton
LCP4	–	–	–	456A	WattStopper
4HL1	480/277	100	–	456A	Eaton
4LN11	208/120	400	–	456A	Eaton
4LN12	208/120	400	–	456A	Eaton
4LN21	208/120	225	–	456A	Eaton
4LN22	208/120	225	–	456A	Eaton
4DPNA	208/120	1000	–	456A	Eaton
T4NA	480 – 208/120	625	300	456A	Hammond
4LN13	208/120	100	–	456B	Eaton
ELEVATOR DISC.	480	60	–	ROOF	Eaton
ELEVATOR DISC.	480	60	–	ROOF	Eaton



2A E7.01 Elec. Room #214



2B E7.01 IDF Room 214A

NOTES FOR MDF & IDF ROOMS:

1.) DATA RACK MOUNTING DETAILS SEE DETAIL 2/E6.04.

2.) ELECTRICAL DEVICES IN THIS ROOM SHALL BE CIRCUITED TO ELECTRICAL PANEL ASSIGNED & LOCATED IN EACH MDF/IDF ROOM.
FOR MDF RM. (175A)–PANEL"1LN13"
FOR IDF RM. (214A)–PANEL"2LN13"
FOR IDF RM. (350A)–PANEL"3LN13"
FOR IDF RM. (450A)–PANEL"4LN13"

3.) TELECOMMUNICATION BONDING BACKBONE CONDUCTOR FROM TELECOMMUNICATION MAIN GROUNDING BUS BAR TO TELECOM GROUNDING BUS BAR SHALL BE & INSULATED GREEN.

4.) ALL METALLIC COMPONENTS, (CONDUIT, OVERHEAD CABLE SUPPORT, RACKS, RACK BAYS) SHALL BE BONDED TO TELECOM GROUNDING BUS BAR.

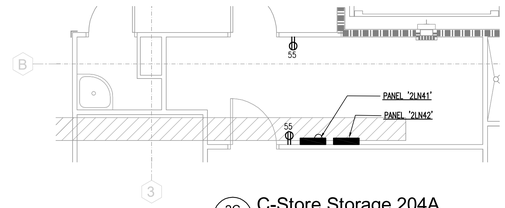
5.) COORDINATE EXACT LOCATION OF TELECOM GROUNDING BUS BAR WITH I.T.S

6.) COORDINATE SECURITY/ACAMS SYSTEMS SERVICE & INSTALLATION REQUIREMENTS WITH SECURITY CONTRACTOR.

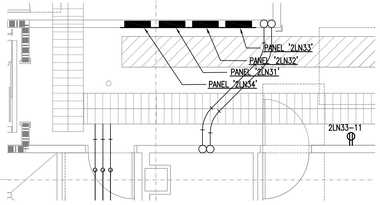
7.) BRANCH CIRCUIT WIRES SHALL BE #10AWG.

8.) COORDINATE & CONFIRM LOCATION OF UPS AND RACK SERVICE WITH I.T.S. BEFORE FINAL INSTALLATION.

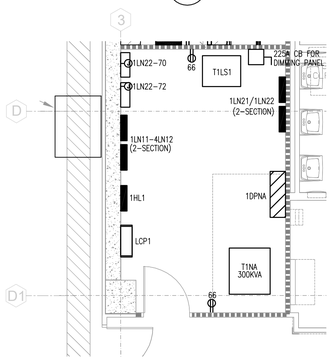
2 E7.01 Enlarged Electrical Plan - Level 2
SCALE: 1/4"=1'-0"



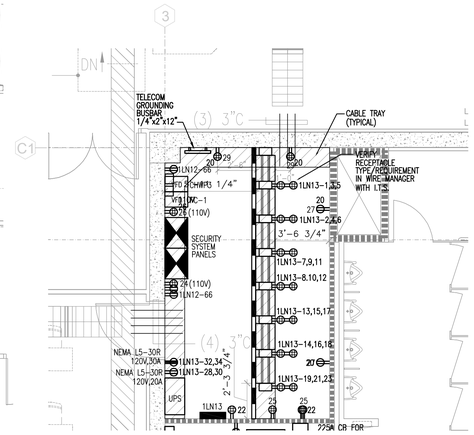
2C E7.01 C-Store Storage 204A



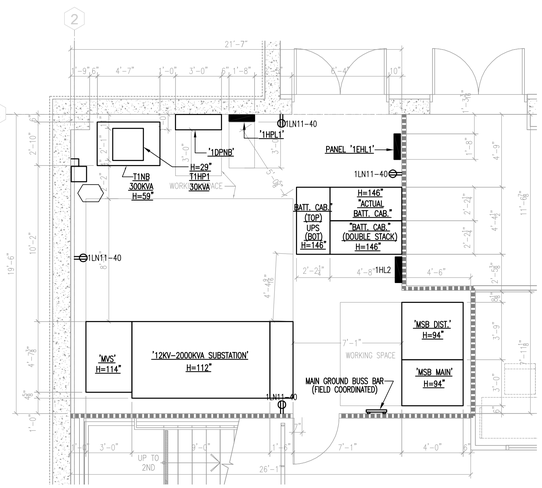
2D E7.01 Servery Corridor



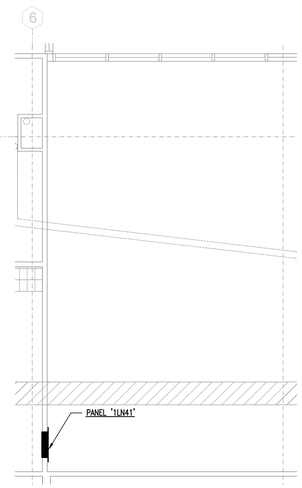
1A E7.01 Elec. Room #157



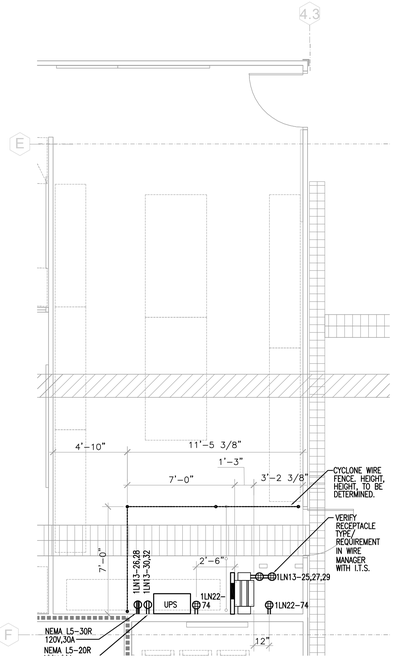
1B E7.01 IDF Room #157A



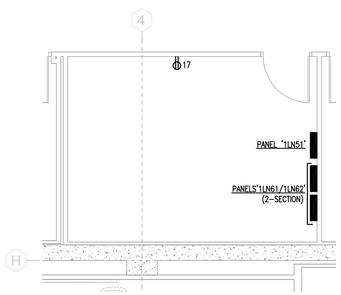
1C E7.01 Main Electrical Room #102



1F E7.01 Enterprise Room #190



1G E7.01 Equipment Room #187



1D E7.01 Facilities Maintenance Storage #176

1 E7.01 Enlarged Electrical Plan - Level 1
SCALE: 1/4"=1'-0"

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL #: 01-110095
AC _____ FLS _____ SS _____
DATE _____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
ROSENDIN ELECTRIC
www.rosendin.com
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(408) 286-2000
Arizona California Nevada New Mexico Oregon

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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	CCD-14 EDIT NON COORDINATION	02/27/10
2	REVISED PER AIR SCH. - FCO 041	12/14/09
3	ISSUED FOR CLOSING CONDITIONS & FIRE ALARM CHANGES - FCO 020	03/24/10
4	CCD4 CO 01 Classroom Cleat	03/24/10
5	3RD FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
7	4TH FLR CONFERENCE RMS 421 & 431 REVISIONS - FCO 040	03/24/10
8	ELECTRICAL - DRAWING OF RECORD	01/21/11
9	ELECTRICAL - DRAWING OF RECORD	11/07/11

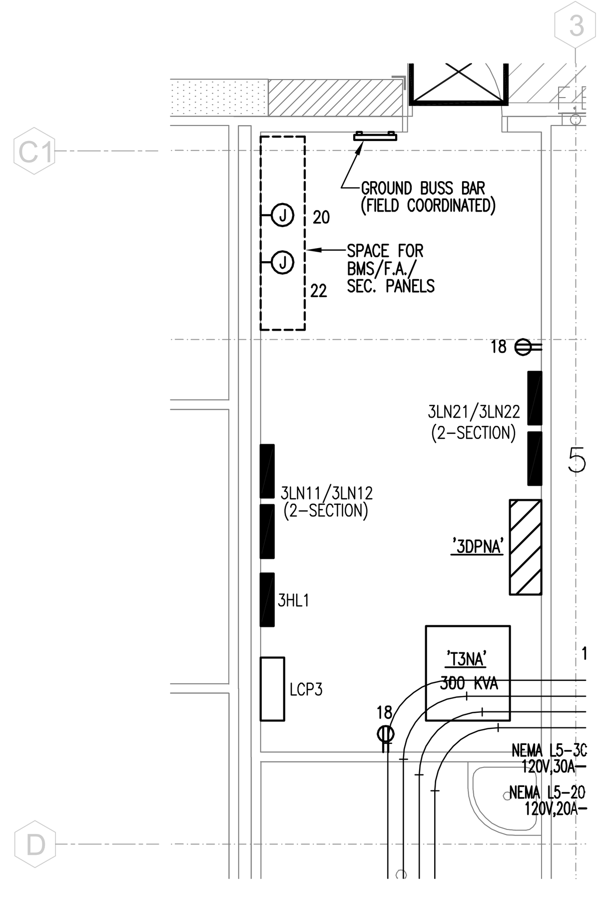
Revision	Description	Date
0	100% Design Development	05/01/08
1	50% Construction Documents	07/28/08
2	DSA Submittal	09/18/08
3	95% Construction Documents	12/08/08
4	DSA Final	03/11/09
5	ELEC PM CHANGES PER ARCHIT	07/28/09
6	FCO 014	08/05/09
7	FCO 016	09/15/09
8	4TH FLR OFFICES REVISION FOR OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

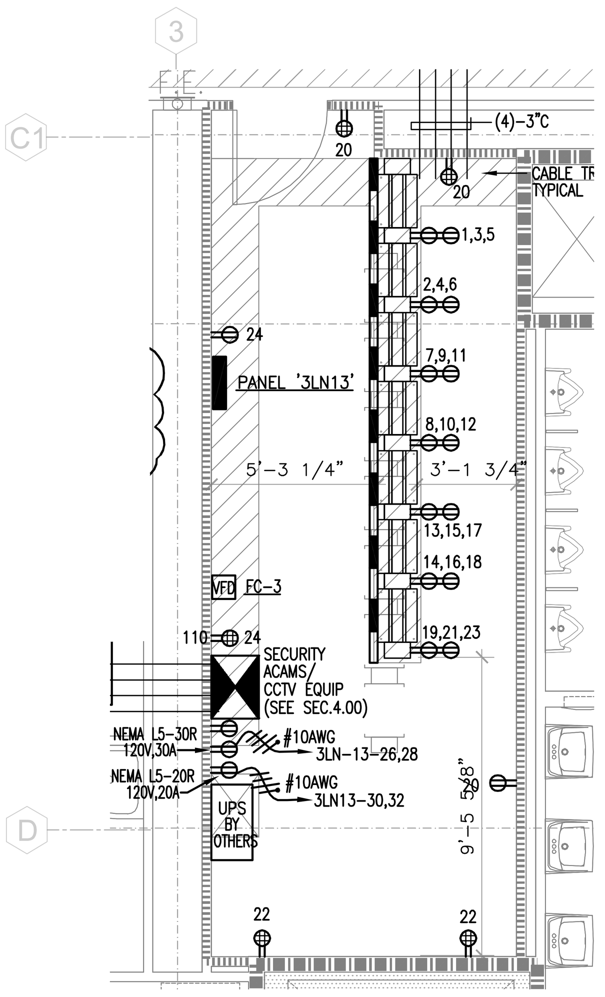
Enlarged Electrical Plans & Equipment Schedules

E7.01

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_3000085\Electrical Design-DOR_11-07-2011\3000085_10N_E7.01_ENLARGED ELECTRICAL PLANS.dwg – Nov 07, 2011 Monday – 7:55pm – 30x42-Plt – SFERMIL

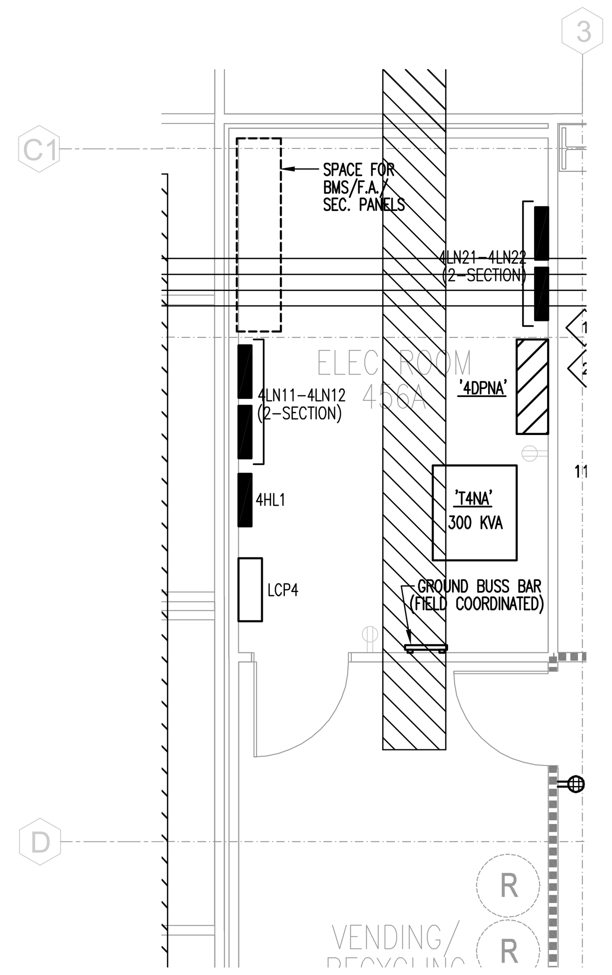


3A E7.01 Elec. Room #350

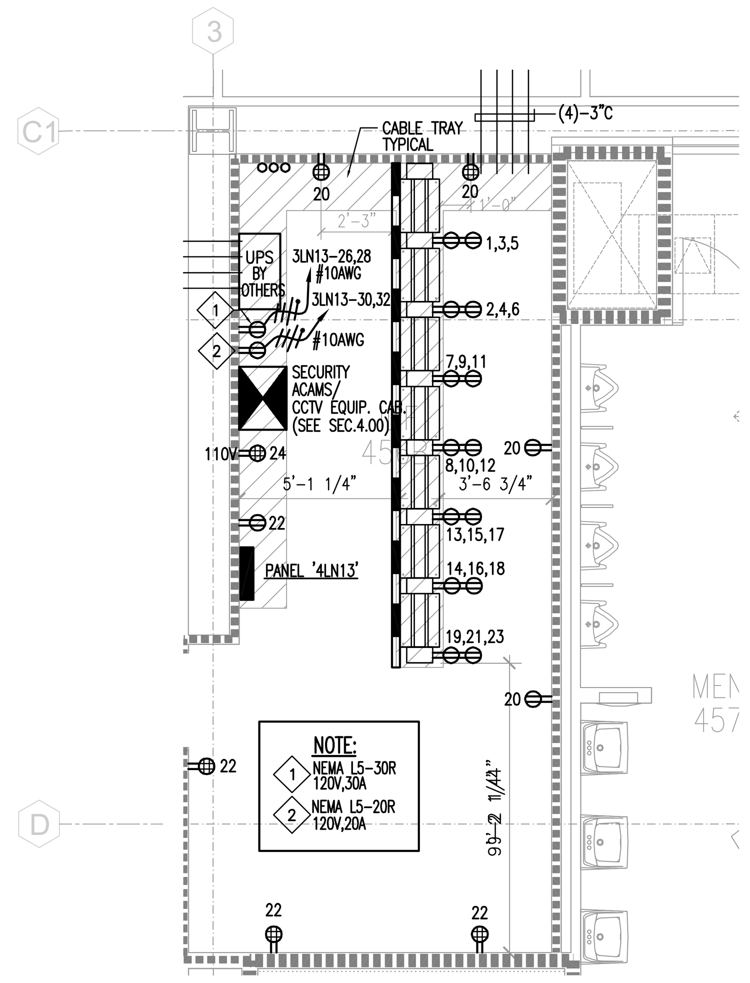


3B E7.01 IDF Room 350A

3 E7.01 Enlarged Electrical Plan - Level 3
SCALE: 1/4"=1'-0"

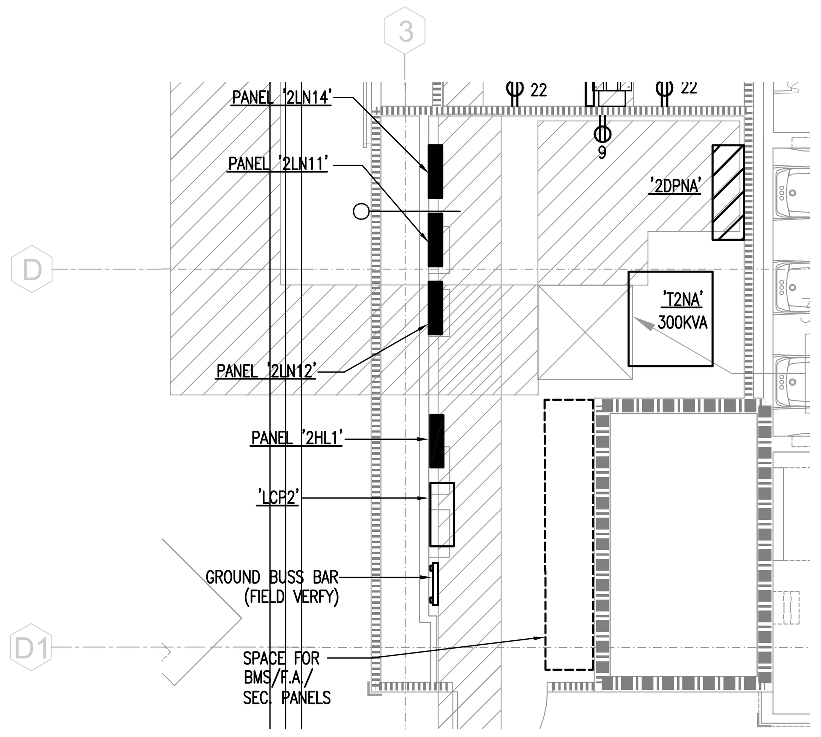


4A E7.01 Elec. Room #456A

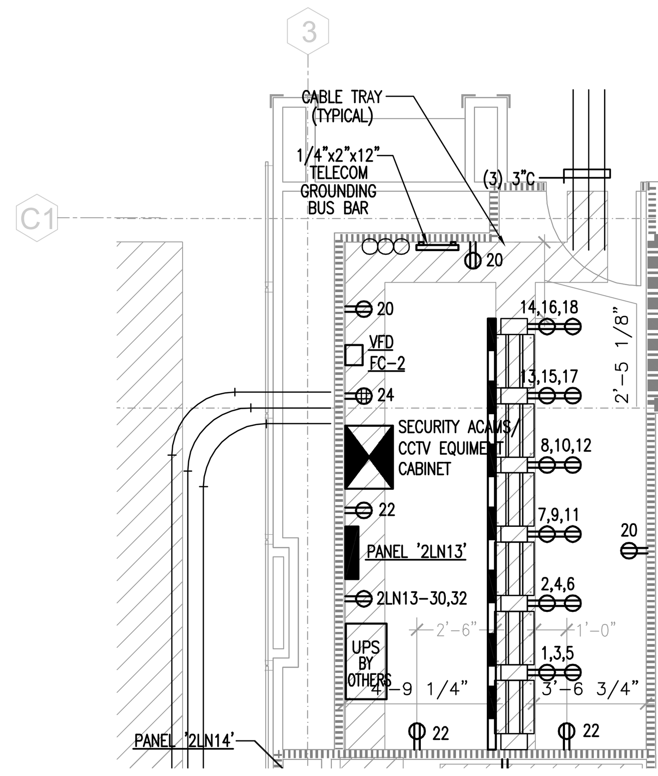


4B E7.01 IDF Room 456B

4 E7.01 Enlarged Electrical Plan - Level 4
SCALE: 1/4"=1'-0"



2A E7.01 Elec. Room #214



2B E7.01 IDF Room 214A

NOTES FOR MDF & IDF ROOMS:

1.) DATA RACK MOUNTING DETAILS SEE DETAIL 1/E7.01A.

2.) ELECTRICAL DEVICES IN THIS ROOM SHALL BE CIRCUITED TO ELECTRICAL PANEL ASSIGNED & LOCATED IN EACH MDF/IDF ROOM.
FOR MDF RM. (175A)–PANEL"1LN13"
FOR IDF RM. (214A)–PANEL"2LN13"
FOR IDF RM. (350A)–PANEL"3LN13"
FOR IDF RM. (450A)–PANEL"4LN13"

3.) TELECOMMUNICATION BONDING BACKBONE CONDUCTOR FROM TELECOMMUNICATION MAIN GROUNDING BUS BAR TO TELECOM GROUNDING BUS BAR SHALL BE & INSULATED GREEN.

4.) ALL METALLIC COMPONENTS, (CONDUIT, OVERHEAD CABLE SUPPORT, RACKS, RACK BAYS) SHALL BE BONDED TO TELECOM GROUNDING BUS BAR.

5.) COORDINATE EXACT LOCATION OF TELECOM GROUNDING BUS BAR WITH I.T.S

6.) COORDINATE SECURITY/ACAMS SYSTEMS SERVICE & INSTALLATION REQUIREMENTS WITH SECURITY CONTRACTOR.

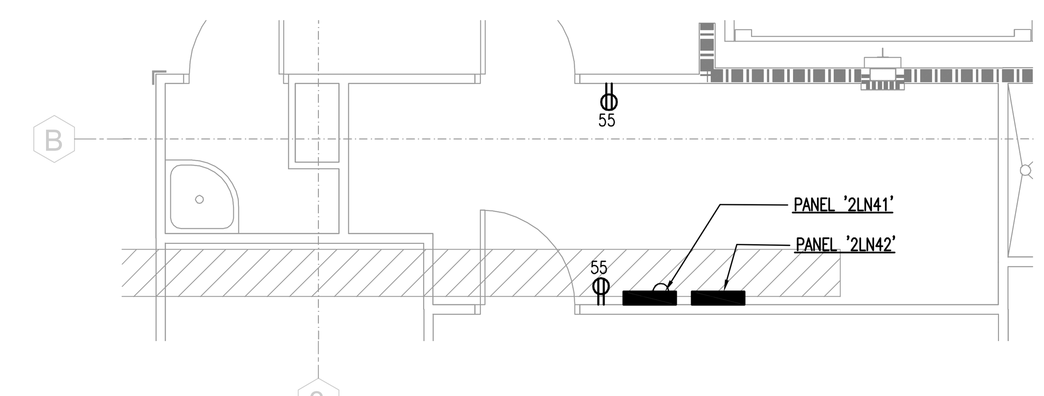
7.) BRANCH CIRCUIT WIRES SHALL BE #10AWG.

8.) COORDINATE & CONFIRM LOCATION OF UPS AND RACK SERVICE WITH I.T.S. BEFORE FINAL INSTALLATION.

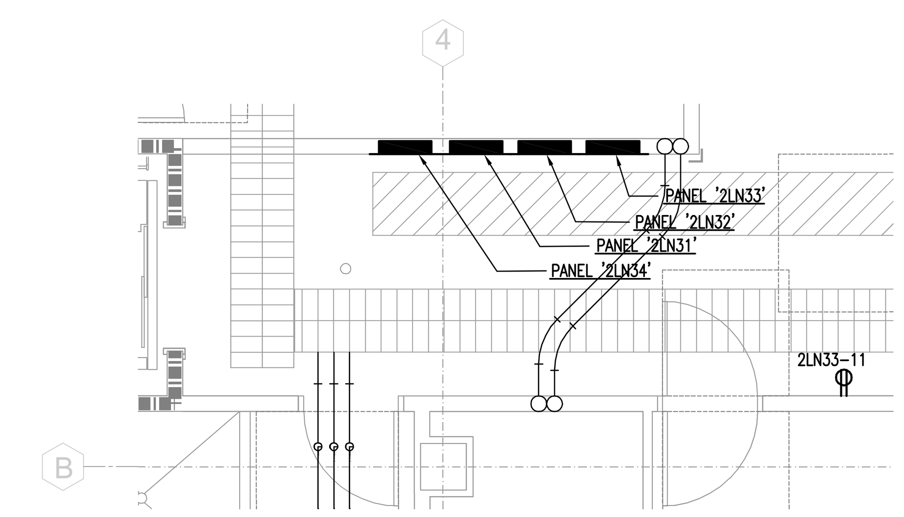
2 E7.01 Enlarged Electrical Plan - Level 2
SCALE: 1/4"=1'-0"

Equipment Schedule

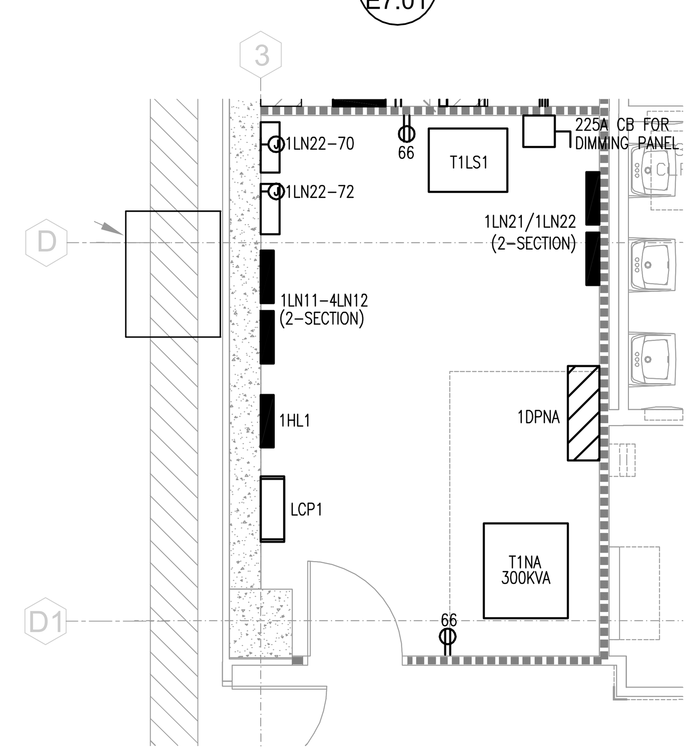
Description	Voltage (V)	Amperage (A)	KVA	Location	Manufacturer
MSB1	480/277	2500	–	102	Eaton
XFMR PRIMARY SW	12,500	600	–	102	Eaton
PRIMARY XFMR	12,500 – 480/277	160	2000	102	MGM
XFMR T1HP1	480 – 208/120	63	30	102	Hammond
1HPL1	208/120	100	–	102	Eaton
EM. LT. INVERTER	480/277	–	62.5	102	OnLine
1EHL1	480/277	100	–	102	Eaton
1DPNB	208/120	1000	–	102	Eaton
XFMR T1NB	480 – 208/120	625	300	102	Hammond
SERVERY ELEV. DISC.	480	20	–	111	Eaton
LCP1	–	–	–	157	WattStopper
1HL1	480/277	100	–	157	Eaton
SECONDARY DISC.	240	225	–	157	Eaton
XFMR T1LS1	480 – 208/120	156	75	157	Hammond
1LN11	208/120	400	–	157	Eaton
1LN12	208/120	400	–	157	Eaton
1LN21	208/120	225	–	157	Eaton
1LN22	208/120	225	–	157	Eaton
1DPNA	208/120	1000	–	157	Eaton
XFMR T1NA	480 – 208/120	625	300	157	Hammond
1LN13	208/120	225	–	157A	Eaton
DIMMER PANEL	–	–	–	Stair 164	Lutron
1LN51	208/120	225	–	176	Eaton
1LN61	208/120	225	–	176	Eaton
1LN62	208/120	225	–	176	Eaton
1LN41	208/120	100	–	190	Eaton
2LN41	208/120	225	–	204A	Eaton
2LN42	208/120	225	–	204A	Eaton
2LN31	208/120	225	–	205J	Eaton
2LN32	208/120	600	–	205J	Eaton
2LN33	208/120	225	–	205J	Eaton
2LN34	208/120	225	–	205J	Eaton
LCP2	–	–	–	214	WattStopper
2HL1	480/277	100	–	214	Eaton
2LN11	208/120	400	–	214	Eaton
2LN12	208/120	400	–	214	Eaton
2DPNA	208/120	800	–	214	Eaton
XFMR T2NA	480 – 208/120	469	225	214	Hammond
2LN13	208/120	225	–	214A	Eaton
LCP3	–	–	–	350	WattStopper
3HL1	480/277	100	–	350	Eaton
3LN11	208/120	400	–	350	Eaton
3LN12	208/120	400	–	350	Eaton
3LN21	208/120	225	–	350	Eaton
3LN22	208/120	225	–	350	Eaton
3DPNA	208/120	1000	–	350	Eaton
XFMR T3NA	480 – 208/120	625	300	350	Hammond
3LN13	208/120	100	–	350A	Eaton
LCP4	–	–	–	456A	WattStopper
4HL1	480/277	100	–	456A	Eaton
4LN11	208/120	400	–	456A	Eaton
4LN12	208/120	400	–	456A	Eaton
4LN21	208/120	225	–	456A	Eaton
4LN22	208/120	225	–	456A	Eaton
4DPNA	208/120	1000	–	456A	Eaton
T4NA	480 – 208/120	625	300	456A	Hammond
4LN13	208/120	100	–	456B	Eaton
ELEVATOR DISC.	480	60	–	ROOF	Eaton
ELEVATOR DISC.	480	60	–	ROOF	Eaton



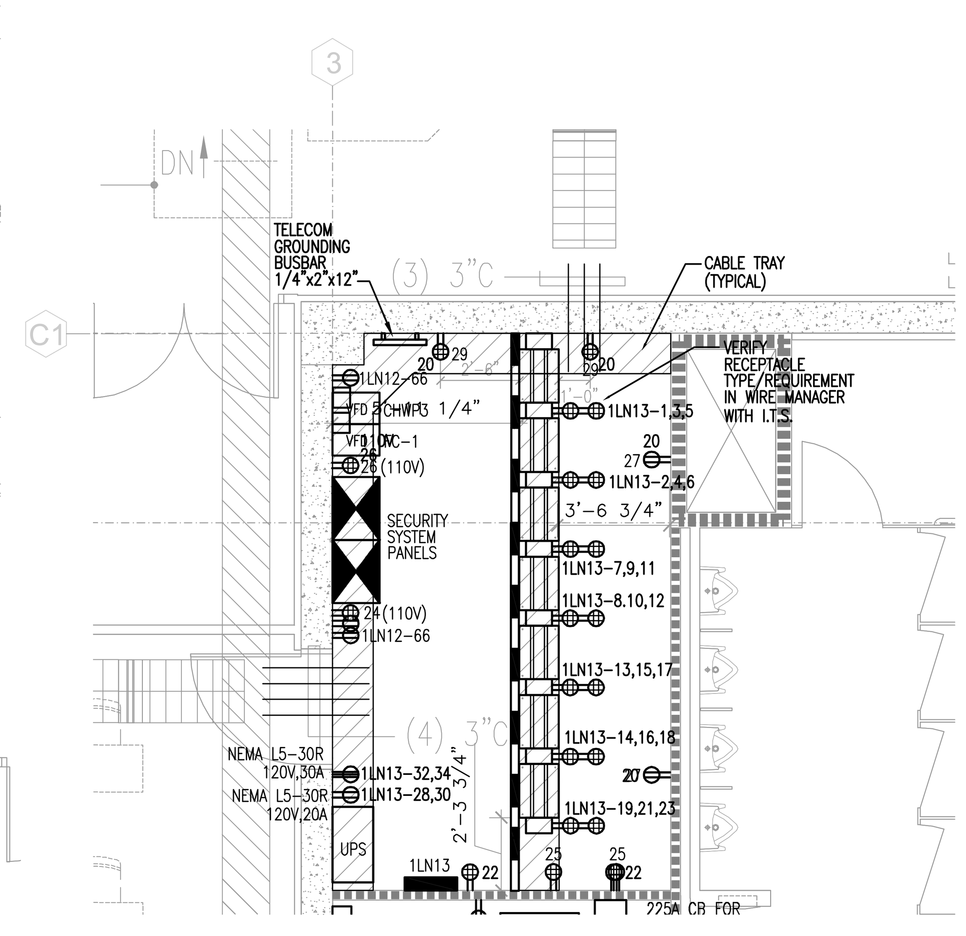
2C E7.01 C-Store Storage 204A



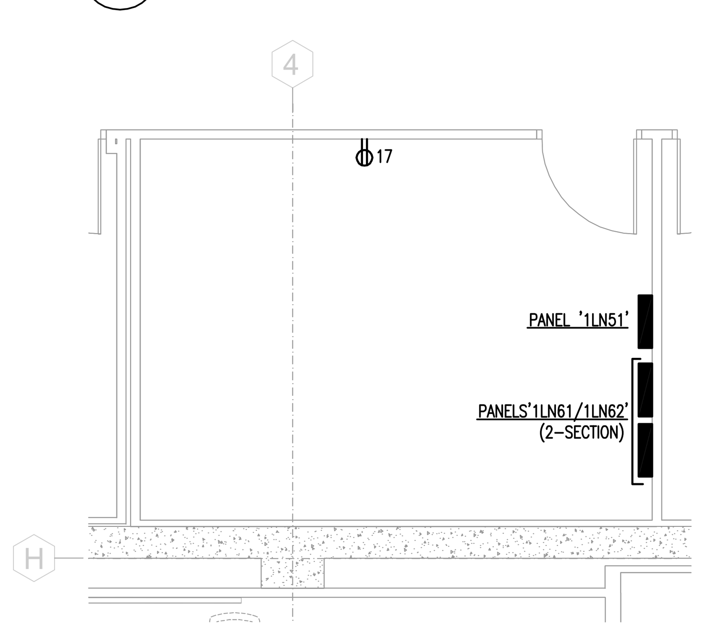
2D E7.01 Servery Corridor



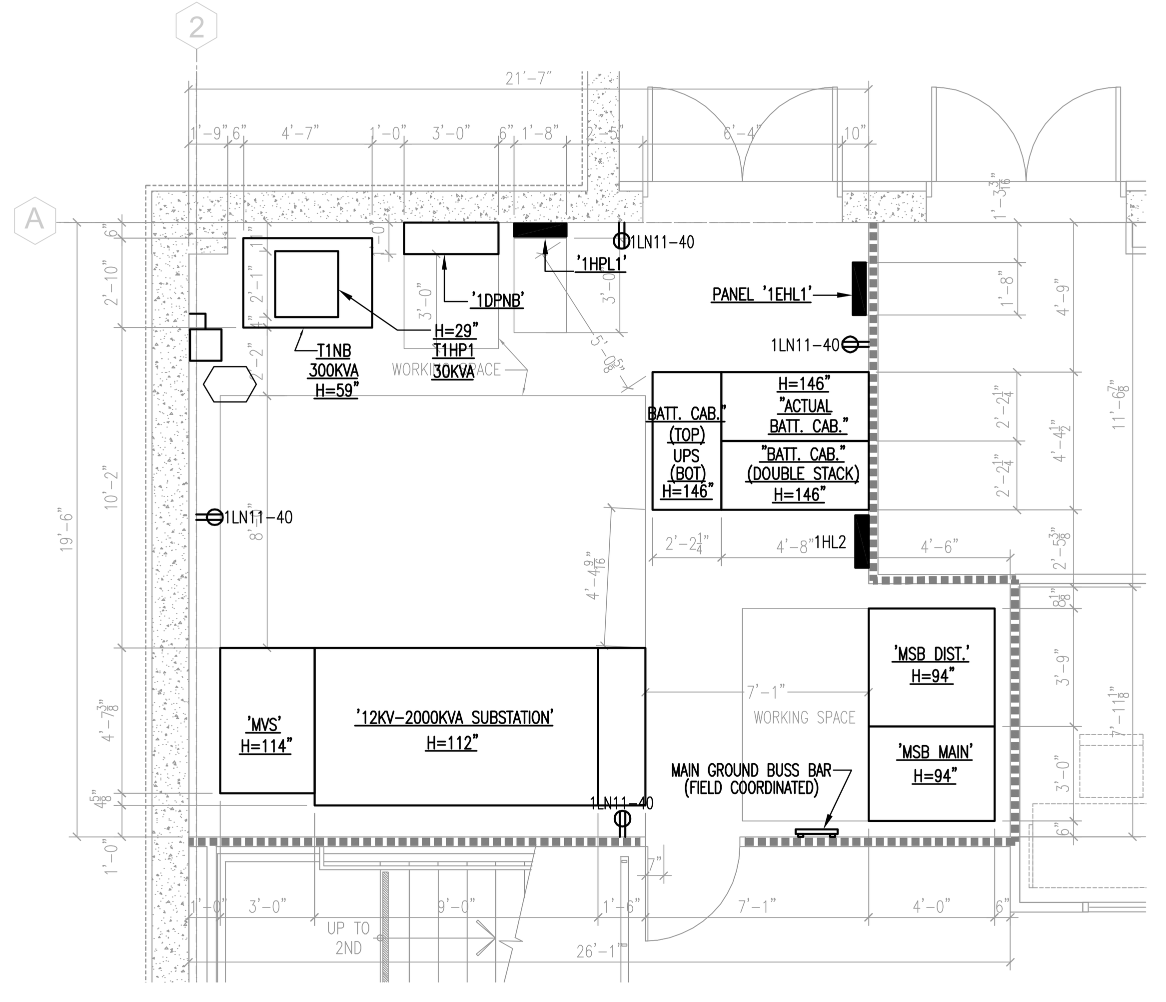
1A E7.01 Elec. Room #157



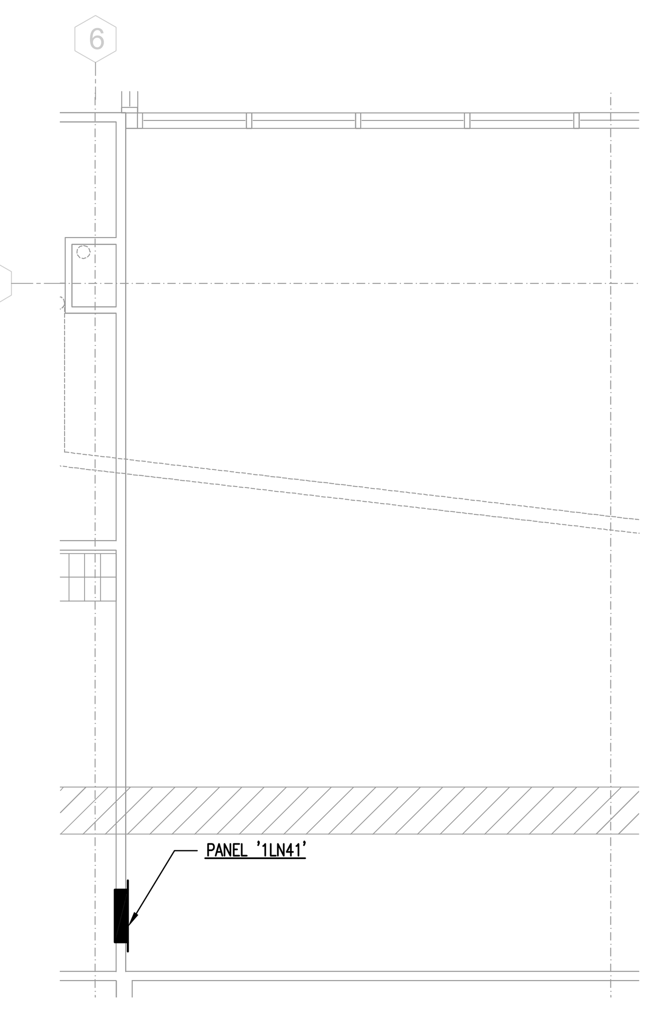
1B E7.01 IDF Room #157A



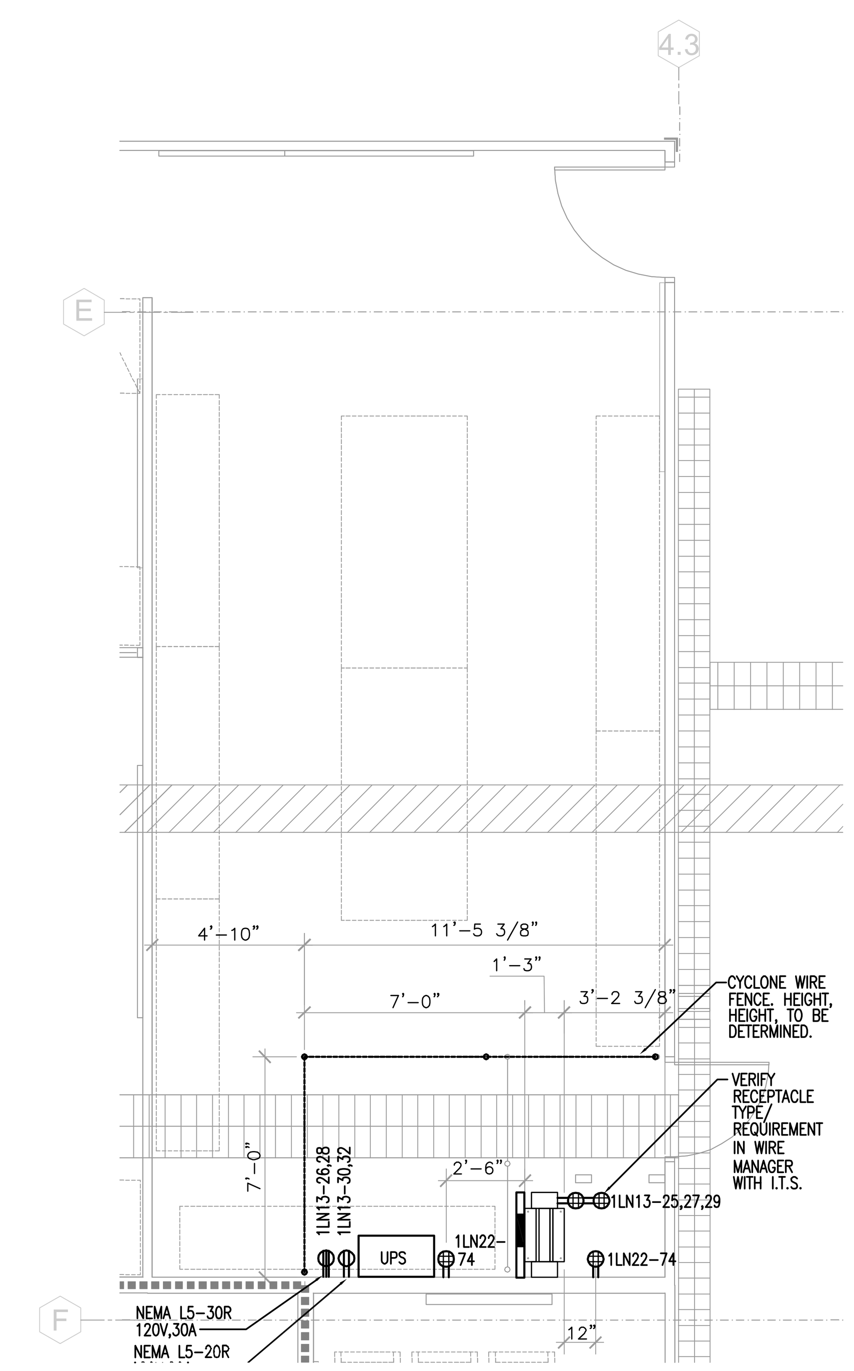
1D E7.01 Facilities Maintenance Storage #176



1C E7.01 Main Electrical Room #102



1F E7.01 Enterprise Room #190



1G E7.01 Equipment Room #187

1 E7.01 Enlarged Electrical Plan - Level 1
SCALE: 1/4"=1'-0"

McCARTHY
LPA KH

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
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REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

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Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
8	FCD 41 EXIT SIGN COORDINATION	07/27/10
8A	PROVIDE ON AIR SIGN - FCD 041	12/14/09
1	2ND FLR LEARNING CENTER & STORE-FRONT WINDOW WALL AT 4T FLR OFFICE - FCD 023	03/24/10
2	DSA CO 01 Conformed Set	03/24/10
4	3RD FLR FINANCIAL AID CHANGES - FCD 038	03/24/10
5	4TH FLR V.P. SUITES CHANGES - FCD 039	03/24/10
6	4TH FLR CONFERENCE RMS 401 & 431 REVISIONS - FCD 040	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

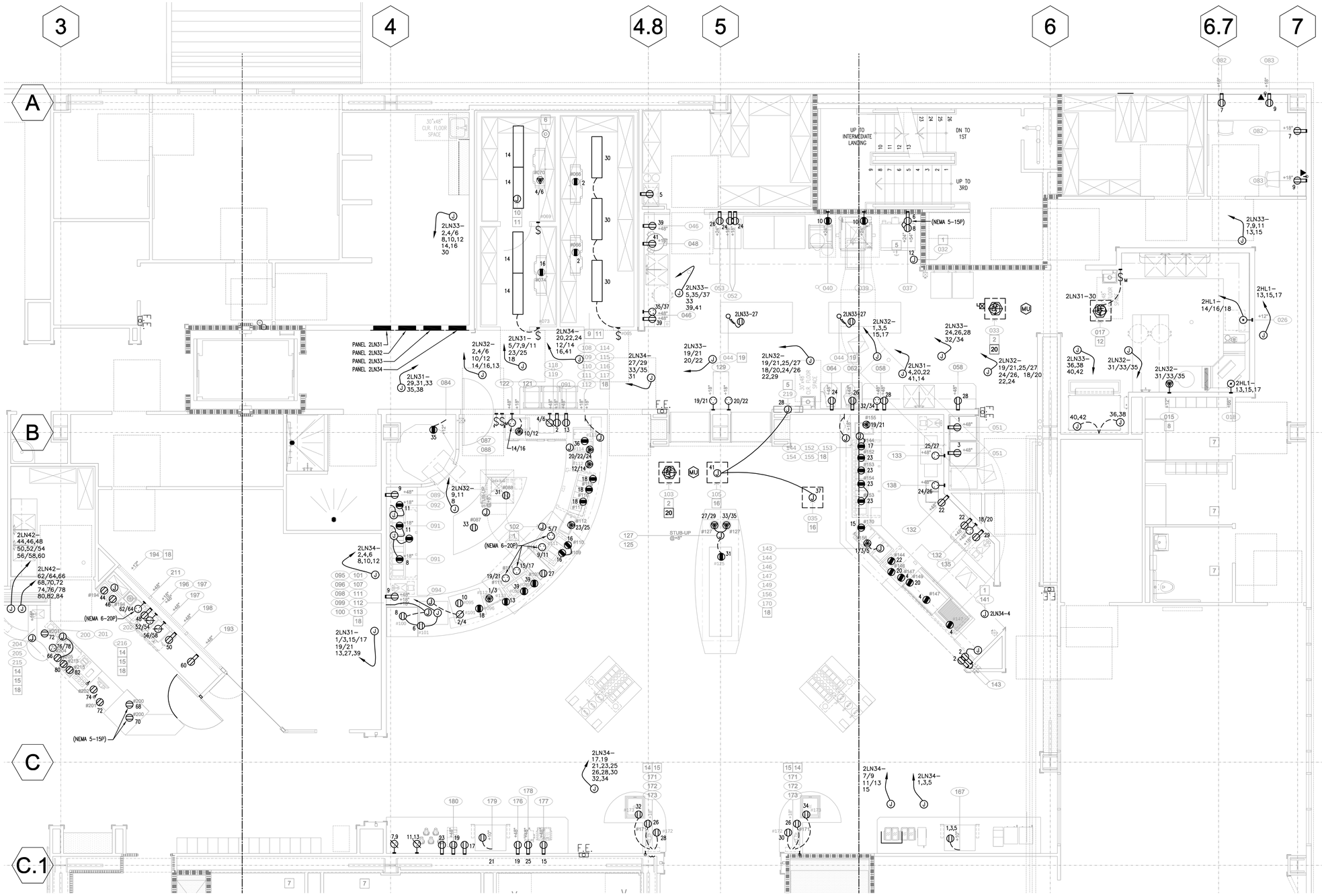
Revision	Description	Date
	100% Design Development	06/09/08
	50% Construction Documents	07/29/08
	DSA Submittal	09/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHT	07/28/09
2	FCD 014	08/05/09
3	FCD 016	09/15/09
7	4TH FLR OFFICES REVISION PER OWNER - FCD 020	11/20/09

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Enlarged Electrical Plans & Equipment Schedules

E7.01



2 E7.02A ENLARGED C-STORE POWER PLAN
SCALE: 1/4"=1'-0"

1 E7.02A ENLARGED KITCHEN POWER PLAN
SCALE: 1/4"=1'-0"

ELECTRICAL KEY NOTES

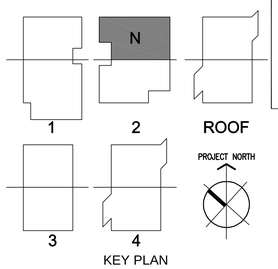
1. POWER ABOVE CEILING. E.C. TO SUPPLY AND WIRE EXHAUST HOOD LIGHTS TO WALL SWITCH. VERIFY LOCATION.
2. POWER ON ROOF FOR EXHAUST FAN W/ SWITCH IN KITCHEN. INTER- CONNECT TO MAKE-UP AIR SYSTEM. VERIFY WITH MECHANICAL DRAWINGS THE NUMBER OF SYSTEMS, SWITCHES, LOCATIONS AND ANY ADDITIONAL REQUIREMENTS.
3. POWER ON ROOF FOR MAKE-UP AIR SYSTEM INTER-CONNECT TO EXHAUST SYSTEM. VERIFY WITH MECHANICAL DRWG'S. THE NUMBER OF SYSTEMS, LOCATIONS AND ANY ADDITIONAL REQUIREMENTS.
4. E.C. TO PROVIDE ELECTRICAL SERVICES IN SERVICE YARD FOR REFRIGERATION SYSTEMS. (VERIFY LOCATION AND REQUIREMENTS)
5. **E.C. TO SUPPLY POWER ABOVE CEILING AND CONNECT TO EXHAUST HOOD CONTROL CABINET. INTER-CONNECT FROM CONTROL CABINET, TO EXHAUST HOOD'S #032 AND #141 SHEETS K-05.1, K-05.2, & K-05.3 FOR DETAILS.**
6. E.C. TO PROVIDE 5 WIRE SERVICE BETWEEN FREEZER COIL AND COMPRESSOR. SEE SHEET K-00.1, DETAIL 6
7. E.C TO PROVIDE MECHANICAL VENTILATION WITH LIGHT AND SWITCH (MIN. AIR EXCHANGE 12 PARTS PER HR.) VERIFY ALL OTHER REQUIREMENTS.
8. E.C. TO WIRE THRU CONTROL PANEL AND SOLENOID. SEE SHEET K-00.1, DETAIL 1.
9. **POWER ABOVE CEILING. E.C. TO WIRE THRU WALK-IN COOLER LIGHTS AND BLOWER COIL. VERIFY LOCATION. SEE SHEET K-00.1, DETAIL 6**
10. POWER ABOVE CEILING. E.C. TO WIRE THRU WALK-IN FREEZER LIGHTS, DOOR AND DRAIN HEATER. VERIFY LOCATION. SEE SHEET K-00.1, DETAIL 6
11. E.C. TO INTERCONNECT WALK-IN COOLER/ FREEZER LIGHTS AND FOAM IN CONDUIT PENETRATIONS.
12. POWER ON ROOF FOR EXHAUST FAN W/ SWITCH @ DISH MACHINE VERIFY LOCATION AND REQUIREMENTS WITH H.V.A.C. CONTRACTOR.
13. NOT USED
14. **E.C. TO PROVIDE DEDICATED CIRCUIT AND RUN TO POS PRINTERS AND STATIONS.**
15. E.C. TO VERIFY ALL REQUIREMENTS OF POS STATIONS, PRINTERS, MONITORS, ETC. WITH DATA COMMUNICATIONS CONSULTANT PRIOR TO ROUGH-IN.
16. E.C. TO PROVIDE POWER IN CEILING FOR ELECTRICAL SOLENOID GAS SHUT- OFF VALVE. INTERCONNECT TO ANSUL CABINET AS REQUIRED.
17. NOT USED
18. **E.C. TO SUPPLY ALL INTERNAL CONDUIT RUNS WITH-IN FIXTURE CABINET BODY, AND CONNECT ALL INTERNAL COMPONENTS WITH IN THE FIXTURE.**
19. CEILING MTD DROP CORDS PROVIDED AND INSTALLED BY ELECTRICIAN.
20. SEE ROOF ELECTRICAL PLAN FOR CONNECTION OF FAN. CONNECT EXHAUST FAN TO CIRCUIT BREAKER WITH SHUNT TRIP. CENTER CONNECT SHUNT TRIP TO KITCHEN FIRE SUPPRESSION CONTROL PANEL.

NOTE:
ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT AS SHOWN ON REFRIGERATION CONDUIT ROUGH- IN PLAN

NOTE
REFER TO FOOD SERVICE DRAWING SHEET K-00.0 FOR ALL NOTES, SYMBOLS, ETC. PERTAINING TO THIS PROJECT.

ELECTRICAL LEGEND

120 VOLT 1 PH. CONVENIENCE OUTLET (C.O.)	120 VOLT 1PH. FLOOR FLUSH OUTLET
120 VOLT 1 PH. QUAD CONVENIENCE OUTLET (C.O.)	CONDUIT CHASE LINE CONNECTION (PULL-BOX)
120 VOLT 1 PH. DIRECT FLEXIBLE CONNECTION	PVC CONDUIT LINE (UNDER FLOOR)
120 VOLT 1 PH. INCANDESCENT LIGHT FIXTURE	REFRIGERATION LINE
208 VOLT 1 PH. OR 3 PH. CONVENIENCE OUTLET (C.O.)	SWITCH
120/208 VOLT 1 PH. OR 3 PH. CONVENIENCE OUTLET (C.O.)	SWITCH FOR HOOD LIGHTS
208 VOLT 1 PH. OR 3 PH. DIRECT FLEXIBLE CONNECTION	SWITCH FOR EXHAUST & M.U.A. FANS
120/208 VOLT 1 PH. DIRECT FLEXIBLE CONNECTION	120 VOLT 1 PH. 150W FLUORESCENT HOOD LIGHT
480 VOLT 3 PH. DIRECT FLEXIBLE CONNECTION	EXHAUST FAN
72" FLEX WHIP (NO INTERNAL WALL CONN'S. BELOW +48")	MAKE-UP AIR FAN
JUNCTION BOX	TELEPHONE (VERIFY W/TELEPHONE COMPANY)
FIRE PULL-BOX (MOUNT @ +48" A.F.F.)	DATA LINE (VERIFY W/ DATA COMMUNICATIONS CONTRACTOR)
208 VOLT 1 PH. OR 3 PH. FLOOR FLUSH OUTLET	ITEM NUMBER (SEE EQUIPMENT SCHEDULE)



KEY PLAN

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

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343 Sansome Street, 14th Floor
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P 415 397-5151
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San Mateo, CA

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San Mateo County Community College District

Revision	Description	Date
1	FCO-4 & EDIT SHEN COORDINATION	01/31/10
2	ROOF PLAN AND SCHA	FCO 011 12/14/09
3	REVISE CEILING CONTROLS	02/24/10
4	REVISE CEILING CONTROLS & FIT-UP OFFICE	FCO 020 03/24/10
5	ADDA COUNTS, Connections & Ext	03/24/10
6	RFO FLR FINANCIAL AID CHANGES	- FCO 028 03/24/10
7	4TH FLR V.P. SUITES CHANGES	- FCO 029 03/24/10
8	4TH FLR CONFERENCE RMS 401 & 411 REVISIONS	FCO 041 03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/31/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
	100% Design Development	05/05/08
	95% Construction Documents	07/25/08
	DSA Submittal	09/18/08
	95% Construction Documents	12/08/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER ARCHT	07/28/09
2	FCO 014	08/05/09
3	FCO 016	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Enlarged
Kitchen PWR Plan

E7.02A

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E7.02A_ENLARGED KITCHEN POWER PLAN.dwg - Nov 07, 2011 Monday - 7:42pm - 30x42-Plt - SFERMIL

FIXTURE AND EQUIPMENT SCHEDULE AND MECHANICAL REQUIREMENTS

ITEM	SEIS. DET/ SHT.	DESCRIPTION	MODEL	WGT.	QTY.	ELECTRICAL LOAD VOLTS	HP	KW	AMPS	PHASE	CONN.	REMARKS	PLUMBING WATER HOT	COLD	WASTE	GAS	MBTU	REMARKS
001	A-1 K-00.3	STORAGE SHELVING (4 TIER HIGH)	METRO BR SERIES		1 LOT													
002		EMPLOYEE LOCKERS	WIN-HOLT WL 16/CB		1 LOT													
003		MOP RACK	N.I.C. (BY PURVEYOR)		1													
004		JANITOR'S BASIN	N.I.C. (BY PLUMBER)		1										2"			IN FLOOR VERIFY REQUIREMENTS
005	17 K-00.3	SOAP & CHEMICAL SHELF	CUSTOM ST. STEEL		1													
006		THREADED FAUCET	N.I.C. (BY PLUMBER)		1								1/2"	1/2"				VERIFY REQUIREMENTS
007		MAT RACK	CUSTOM ST. STEEL		1													
008		FLOOR TROUGH	CUSTOM ST. STEEL		1										2"			IN FLOOR
009	8 K-00.2	ICE MACHINE (SELF-CONT / WATER COOLED)	MANITOWOC SY-1805W	1870#	1	208-230			13	3	D				FS			INDIRECT WASTE. P.C. TO RUN SUPPLY WATER FROM FILTER. CHILLED WATER SUPPLY AND RETURN.
010	8 K-00.2	ICE BIN W/ MOBILE TRANSPORT CARTS	FOLLETT ITS1350SG-60	1350#	1										FS			INDIRECT WASTE
011	8 K-00.2	WATER FILTER (ICE MACHINE)	MANITOWOC AR-PRE/ AR-40000	11#	1									1/2"				P.C. TO CONNECT TO ICE MACHINE
012		HOSE BIB	N.I.C. (BY PLUMBER)		1								1/2"	1/2"				
013	2 K-00.2	SOILED DISHTABLE ASSEMBLY	CUSTOM ST. STEEL		1										FS			INDIRECT WASTE
014		TRASH RECEPTACLES	N.I.C. (SUPPLY ITEM)		2													
015	20 K-00.3	SCRAP COLLECTOR	SALVAJOR S419	153#	1	208			5.5	3	D	WIRE THRU CONTROLS	3/4"	3/4"	FS			INDIRECT WASTE- P.C. TO PROVIDE A 12"x 12"x 10" DEEP FLOOR SINK W/ A 3" DRAIN
016	14 K-00.2	PANTLEG - EXHAUST DUCTS	CUSTOM ST. STEEL		1										FS			INDIRECT WASTE
017		EXHAUST SYSTEM	N.I.C. (BY H.V.A.C.)		1	120				1	D	ON ROOF- VERIFY LOCATION. 600 CFM W/ SWITCH @ DISHMACHINE						
018	10 K-00.2	DISHMACHINE	STERO SC 2-4	850#	1	480	*	*	19.7	3	D	ONE FEEDER SIZED FOR: 2 H.P. WASH MOTOR 2 H.P. RINSE MOTOR 10 kw WASH TANK HEAT	3/4"		FS			INDIRECT WASTE- P.C. TO PROVIDE A 12"x 12"x 10" DEEP FLOOR SINK W/ A 3" DRAIN. MINIMUM 180° HOT WATER REQUIRED- 252 GPH/ 20 PSI
019	2 K-00.2	CLEAN DISHTABLE	CUSTOM ST. STEEL		1													
020		POT/ PAN SHELVING	METRO METROMAX		1 LOT													
021	2 K-00.2	SCULLERY SINK	CUSTOM ST. STEEL		1										3"			
022	17 K-00.3	WALL SHELF	CUSTOM ST. STEEL		1													
023		FAUCETS	FISHER 5412	9#	2								3/4"	3/4"				
024	17 K-00.3	POT/ UTENSIL RACK	CUSTOM ST. STEEL		1													
025	17 K-00.3	HANDSINK W/ SOAP & TOWEL DISPENSER	ADVANCE 7-PS-80	32#	1								1/2"	1/2"	1 1/2"			DIRECT WASTE
026		BOOSTER HEATER	HATCO S-27	214#	1	480		27	32.5	3	D	50 AMP BREAKER VERIFY REQUIREMENTS.	3/4		FS			P.C. TO INTERCONNECT TO DISH-**MACHINE. MIN 140° INCOMING WATER**
027		SPARE NUMBER																
028		SPARE NUMBER																
029	A-1 K-00.3	SODA RACK	N.I.C. (BY PURVEYOR)		1													
030		SODA SYSTEM	N.I.C. (BY PURVEYOR)		1	120	1/3			1	C	VERIFY REQUIREMENTS		1/2"	FS			INDIRECT WASTE. P.C. TO SUPPLY & INSTALL DOUBLE CHECK BACKFLOW PREVENTION DEVICE.
031	A-1 K-00.3	DRY STORAGE SHELVING (4 TIER HIGH)	METRO BR SERIES		1 LOT													
032	14 K-00.2	EXHAUST HOOD (WATER WASH)	CAPTIVE AIR 5730 SCA-N-PSP-F		1	120			.6	1	D	6 EA.- 100W. VAPORPROOF LIGHTS W/ SWITCH @ HOOD. E.C. TO INTERCONN DUCT TEMP SENSORS W/ CONTROL CABINET. VFY REQ'S.	(2 EA) 3/4"		FS			INDIRECT WASTE. VERIFY REQ'S 12"x 12"x 10" DEEP FLOOR SINK W/ A 3" DRAIN. P.C. TO CONNECT H2O FROM CONTROL CABINET #219
033		EXHAUST SYSTEM	N.I.C. (BY H.V.A.C.)		1	208				3	D	ON ROOF W/ SWITCH @ HOOD. E.C. TO INTERCONNECT TO MUA SYSTEM. VERIFY REQUIREMENTS						
034		MAKE-UP AIR SYSTEM	N.I.C. (BY H.V.A.C.)		1	208				3	D	ON ROOF W/ SWITCH @ HOOD. E.C. TO INTERCONNECT TO MUA SYSTEM. VERIFY REQUIREMENTS		1/2"				ON ROOF. VERIFY REQUIREMENTS & LOCATION w/ MECH. PLANS
035		FIRE SYSTEM	CUSTOM ANSUL		1							E.C. TO SUPPLY AND INSTALL CONDUIT AND 4/O PULLBOX						P.C. TO INSTALL AUTOMATIC GAS SHUT-OFF VALVE IN ACCESSIBLE CEILING SPACE.
036		WALL FLASHING, CLOSURE PANELS & HANGER RODS	CUSTOM ST. STEEL		1 LOT													
037	23 K-00.3	CONVECTION OVEN	WOLF WKGD-2	944#	1	120			9	1	C				3/4"	88		QUICK DISCONNECT W/ CABLE RESTRAINT.
						120			9	1	C							
038		FLOOR TROUGH	CUSTOM ST. STEEL		1										2"			IN FLOOR
039	20 K-00.3	BRAISING PAN	GROEN BPP-30G	450#	1	120			5	1	D		1/2"	1/2"		1/2"	104	QUICK DISCONNECT W/ CABLE RESTRAINT
040	18 K-00.3	40 QUART TILT KETTLE	GROEN TDH-40	240#	1	120			1	1	D		1/2"	1/2"		1/2"	52	QUICK DISCONNECT W/ CABLE RESTRAINT
041	20 K-00.3	KETTLE STAND W/ DRAIN CART	GROEN TS-8S	40#	1										FS			INDIRECT WASTE
042	23 K-00.3	6 O.B. RANGE	WOLF FS-6J-27	730#	1											3/4"	220	REAR GAS CONNECTION. QUICK DISCONNECT W/ CABLE RESTRAINT
043	23 K-00.3	GRIDDLE W/ OVEN BASE	WOLF FS-0-27-FT36	685#	1											3/4"	130	REAR GAS CONNECTION. QUICK DISCONNECT W/ CABLE RESTRAINT
044		MOBILE WORKTABLE (FLAT TOP)	ADVANCE VSS-367	164#	2	120				1	C	20 AMP DROP CORD FROM CEILING						
045		SPARE NUMBER																
046	2 K-00.2	PREP SINK ASSEMBLY	CUSTOM ST. STEEL		1	120				1	C	2 EA.- 20 AMP CONV. OUTLETS			FS			INDIRECT WASTE
						208				1	C	1 EA.- 20 AMP CONV. OUTLET						
047	17 K-00.3	WALL SHELVES	CUSTOM ST. STEEL		2													
048		SALAD DRYER	ELECTROLUX VP-1	79#	1	120	1/4			1	C	NEMA 5-15P						
049		FAUCET	FISHER 13250	5#	1								1/2"	1/2"				
050		TRASH RECEPTACLES	N.I.C. (SUPPLY ITEM)		1													
051		HOLDING CABINETS	CRES-COR H-137-SUA-12	365#	2	120			12	1	C							
052	23 K-00.3	FRYER W/ FILTER	PITCO SG14SSTC-FD	165#	1	120			6.1	1	C	NEMA 5-15P FRYER				3/4	122	REAR GAS CONNECTION. QUICK DISCONNECT W/ CABLE RESTRAINT
						120	1/3			1	C	FILTER						
053	23 K-00.3	FRYER DUMP STATION W/ HEAT LAMP	PITCO BNB-SG-14S	150#	1	120		.75		1	C	VERIFY REQUIREMENTS.						
054		CAN OPENER	EDLUND #1	9#	1													
055		SPARE NUMBER																
056		SPARE NUMBER																
057	17 K-00.3	HANDSINK W/ SOAP & TOWEL DISPENSER	ADVANCE 7-PS-80	32#	1								1/2"	1/2"	1 1/2"			DIRECT WASTE
058	2 K-00.2	PREP SINK ASSEMBLY	CUSTOM ST. STEEL		1	120				1	C	2 EA.- 20 AMP CONV. OUTLETS			FS			INDIRECT WASTE
						208				1	C	1 EA.- 20 AMP CONV. OUTLET						
059	17 K-00.3	WALL SHELVES	CUSTOM ST. STEEL		2													
060		FAUCET	FISHER 13250	5#	1								1/2"	1/2"				
061		MOBILE EQUIPMENT STAND	LAKESIDE 110	71#	1													
062		SLICER	HOBART 2612	137#	1	120			2.5	1	C							
063		MOBILE EQUIPMENT STAND	LAKESIDE 516	47#	1													
064		20 QT. MIXER	HOBART HL200	204#	1	120			8	1	C							
065	A-2 K-00.3	WALK-IN COOLER W/ FLOOR (10'-0" HIGH)	CUSTOM FAB		1	120		.4		1	D	3 EA.- 100 W. FLUORESCENT LIGHTS W/ SWITCH @ DOOR						
066		EVAPORATOR COIL (WALK-IN COOLER)	CUSTOM REF		2	120			3.6	1	D				FS			INDIRECT WASTE
067		MOBILE TRANSPORT CARTS	LAKESIDE 173	80#	3													
068	A-1 K-00.3	COOLER SHELVING (4 TIER HIGH)	CAMBRO CS SERIES		1 LOT													
069	A-2 K-00.3	WALK-IN FREEZER W/ FLOOR (10'-0" HIGH)	CUSTOM FAB		1	120		.1		1	D	1 - 100 W. FLUORESCENT LIGHTS W/ SWITCH @ DOOR HEATED DOOR VENT.						

C= CONVENIENCE OUTLET
D= DIRECT CONNECTION

ITEM	SEIS. DET/ SHT.	DESCRIPTION	MODEL	WGT.	QTY.	ELECTRICAL LOAD VOLTS	HP	KW	AMPS	PHASE	CONN.	REMARKS	PLUMBING WATER HOT	COLD	WASTE	GAS	MBTU	REMARKS
070		EVAPORATOR COIL (WALK-IN FREEZER)	CUSTOM REF		1							E.C. TO PROVIDE FIVE (5) WIRE SERVICE BETWEEN COIL & COM-PRESSOR.			FS			INDIRECT WASTE. WRAP DRAIN LINE W/ HEATER RIBBON.
071		DUNNAGE RACK	NEW AGE 2014	11#	1													
072	A-1 K-00.3	FREEZER SHELVING (4 TIER HIGH)	CAMBRO CS SERIES		1 LOT													
073	A-2 K-00.3	WALK-IN COOLER W/ FLOOR (10'-0" HIGH)	CUSTOM FAB		1	120		.1		1	D	1 - 100 W. FLUORESCENT LIGHTS W/ SWITCH @ DOOR						
074		EVAPORATOR COIL (BEVERAGE COOLER)	CUSTOM REF		1	120			1.8	1	D				FS			INDIRECT WASTE
075		DUNNAGE RACK	NEW AGE 2014	11#	1													
076	A-1 K-00.3	COOLER SHELVING (4 TIER HIGH)	CAMBRO CS SERIES		1 LOT													
077		SPARE NUMBER																
078		SPARE NUMBER																
079		SPARE NUMBER																
080		SPARE NUMBER																
081		SPARE NUMBER																
082		OFFICE FURNITURE	N.I.C. (BY MILLWORK)		1 LOT	120				1	C	2 EA.- 20 AMP CONVENIENCE OUTLETS						
083		OFFICE EQUIPMENT	N.I.C. (BY OWNER)		1 LOT	120				1	C	2 EA.- 20 AMP CONVENIENCE OUTLETS. DATA LINES						
084	22 K-00.3	PIZZA OVEN	WOODSTON WS-MS-5-RFG-IR	3600#	1	120		1.1	1	D						3/4"	188	
085	15 K-00.3	EXHAUST HOOD	CAPTIVE AIR 3624ND		1													
086		HOOD TRIM & HANGER RODS	CUSTOM ST. STEEL		1 LOT													
087	22 K-00.3	PIZZA PREP COUNTER W/ STONE TOP	CUSTOM ST. STEEL		1	120				1	C	20 AMP CONVENIENCE OUTLET						
088		U/C HEATED CABINET	HATCO FSHC-6W1	175#	1	120		14.1	1	C		NEMA 5-15P						
089	22 K-00.3	WORK COUNTER W/ HAND SINK	CUSTOM ST. STEEL		1	120				1	C	20 AMP CONVENIENCE OUTLET	1/2"	1/2"	1-1/2"			DIRECT WASTE.
090		REFRIGERATED BASE	CUSTOM ST. STEEL		1													
091		EVAPORATOR COIL (REFIGERATED BASE)	CUSTOM REF		2	120			2.9	1	D				FS			INDIRECT WASTE.
092		REFRIGERATED PAN RAIL W/ EVAPORATOR COILS (REMOTE)	CUSTOM C & S SOLUTIONS		1	120			5	1	D				FS			INDIRECT WASTE
093		TRASH RECEPTACLE	CUSTOM ST. STEEL		1													
094	22 K-00.3	PIZZA, PASTA, MEXICAN SERVICE COUNTER W/ STONE	CUSTOM ST.STEEL/ MILLWORK		1	120				1	C	20 AMP CONVENIENCE OUTLET						
095		DROP-IN HEATED SHELF	HATCO GRSBF-36-O	32#	1	120		1.2	9.3	1	C	NEMA 5-15P						
096		HEATLAMP W/ LIGHT	BRASSMITH 1130605-120-30		1	120			.21	1	D	VERIFY REQUIREMENTS.						
097		REFRIGERATED BASE	CUSTOM ST. STEEL		1													
098		EVAPORATOR COIL	CUSTOM REF		1	120			1.5	1	D				FS			INDIRECT WASTE
099		REFRIGERATED PAN RAIL W/ EVAPORATOR COILS (REMOTE)	CUSTOM ST. STEEL		1	120			5	1	D				FS			INDIRECT WASTE
100	22 K-00.3	REFRIG. MERCHANDISER (SELF-CONTAINED)	FEDERAL LPRSS3	450#	1	120			15	1	C							
101		PIZZA DISPLAY	HATCO GR2SDS-30D	174#	1	120/ 208			13.7	1	C	NEMA L14-20P						
102	15 K-00.3	EXHAUST HOOD	CAPTIVE AIR 5430 ND1-PSP-F		1	120			.6	1	D	6 EA.- 100W. VAPORPROOF LIGHTS W/ SWITCH @ HOOD.						
103		EXHAUST SYSTEM	N.I.C. (BY H.V.A.C.)		1	208				3	D	ON ROOF W/ SWITCH @ HOOD. E.C. TO INTERCONNECT TO MUA SYSTEM. VERIFY REQUIREMENTS						
104		MAKE-UP AIR SYSTEM	N.I.C. (BY H.V.A.C.)		1	208				3	D	ON ROOF W/ SWITCH @ HOOD. E.C. TO INTERCONNECT TO MUA SYSTEM. VERIFY REQUIREMENTS		1/2"				ON ROOF. VERIFY REQUIREMENTS & LOCATION w/ MECH. PLANS
105		FIRE SYSTEM	CUSTOM ANSUL		1							E.C. TO SUPPLY AND INSTALL CONDUIT AND 4/O PULLBOX						P.C. TO INSTALL AUTOMATIC GAS SHUT-OFF VALVE IN ACCESSIBLE CEILING SPACE.
106		CLOSURE PANELS & HANGER RODS	CUSTOM ST. STEEL		1 LOT													
107	23 K-00.3	PASTA COOKER	PITCO RS14D	140#	1	120			1	1	C			1/2"	FS	1/2"	78	QUICK DISCONNECT W/ CABLE RESTRAINT
108		REFRIGERATED BASE (REMOTE)	CUSTOM ST. STEEL		1													
109		EVAPORATOR COIL	CUSTOM REF		1	120			1.5	1	D				FS			INDIRECT WASTE
110		REFRIGERATED PAN RAIL W/ EVAPORATOR COILS (REMOTE)	CUSTOM C & S SOLUTIONS		1	120			5	1	D				FS			INDIRECT WASTE
111		INDUCTION BURNERS	COOK TEK MCD-3000	18#	4	208-240			14	1	C	NEMA 6-20P						
112		HOT FOOD WELLS	WELLS MOD-300TD	24#	3	208			4.3	1	D	E.C. TO WIRE THRU CONTROLS			FS			INDIRECT WASTE
113		SNEEZEGUARDS W/ LIGHTS	BRASSMITH Z9915		1 LOT	120				1	D	LIGHTS						
114		HOT FOOD WELLS	WELLS MOD-200TDM	51#	1	208			10.3	3	D	E.C. TO WIRE THRU CONTROLS			FS			INDIRECT WASTE
115		REFRIGERATED BASE (REMOTE)	CUSTOM ST. STEEL		1	120				1	D	DOOR ACTIVATED INTERIOR LIGHT						
116		EVAPORATOR COIL	CUSTOM REF		1	120			1.5	1	D				FS			INDIRECT WASTE
117		REFRIGERATED PAN RAIL W/ EVAPORATOR COILS (REMOTE)	CUSTOM C & S SOLUTIONS		1	120			5	1	D				FS			INDIRECT WASTE
118		U/C REFRIGERATOR (SELF-CONTAINED)	BEVERAGE AIR UCR48	230#	1	120			4.5	1	C	NEMA 5-15P						
119		TORTILLA STEAMER - COUNTER TOP	EMBERGLOW ES10T	73#	1	208				1	C	15 AMP FUSE: 3 WIRE PLUS GROUND TWIST LOCK RECEPTACLE		1/2"				QUICK DISCONNECT WATER HOSE
120		TRASH RECEPTACLES	N.I.C. (BY OWNER)		2													
121		WARMER DRAWERS	HATCO HDW-2BN	159#	1	208		1.0		1	C	NEMA 6-15P						
122		FOOD WARMER	WELLS SMPT	33#	1	208			6.5	1	C	NEMA 6-15P						
123		FILL FAUCET	FISHER 3010	2.5#	2									1/2"				
124	22 K-00.3	SOUP & SALAD BAR W/ STONE TOP	CUSTOM ST. STEEL & MILLWORK		1													
125		SNEEZEGUARDS W/ LIGHTS	BRASS SMITH Z9115		1 LOT	120				1	D	LIGHTS						
126		ICE PAN	CUSTOM ST. STEEL		1										FS			INDIRECT WASTE
127		SOUP & CHILI WELLS	WELLS SS-10ULTD	11#	2	208			3	1	D	E.C. TO WIRE THRU CONTROLS			FS			INDIRECT WASTE
128		DISPLAY STAND W/ STONE TOP	CUSTOM MILLWORK		1													
129	22 K-00.3	REFRIGERATED DISPLAY MERCHANDISER (S.C.)	FEDERAL RSSM-478SC	925#	2	120			13	1	C	NEMA L14-20						
130	A-1 K-00.3	WIRE RACK	METRO BR SERIES		1							VERIFY REQUIREMENTS.						
131		SPARE NUMBER																
132	22 K-00.3	BACK COUNTER W/ 2 HANDSINKS	CUSTOM ST. STEEL		1	120				1	C	2 EA.- 20 AMP CONV. OUTLETS			1 1/2"			DIRECT WASTE.
						208				1	C	1 EA.- 20 AMP CONV. OUTLETS						
133		CONVEYOR TOASTER	APW XWAV 1417A	146#	1	208			19.7	1	C	NEMA 6-30P						
134		TRANSPORT CARTS	LAKESIDE 6540	255#	3													
135		U/C FREEZER (SELF- CONTAINED)	BEVERAGE AIR UCF27A	162#	1	120			6	1	C	NEMA 5-15P						
136		FAUCET	FISHER 3511	5#	2								1/2"	1/2"				
137		TRASH RECEPTACLE	CUSTOM ST. STEEL		2													
138		PANNINI GRILL	ROSITO BASANI APG 2		1	208			16	1	C							
139		SPARE NUMBER																
140		GLASS BREAD DISPLAY	CUSTOM ST. STEEL & GLASS		1													
141	15 K-00.3	EXHAUST HOOD	CAPTIVE AIR **6630 SCA-N-W/ 246 MISC-PSP**		1	120			.8	1	D	8 EA.- 100W. VAPORPROOF LIGHTS W/ SWITCH @ HOOD. E.C. TO INTERCONN DUCT TEMP SENSORS W/ CONTROL CABINET. VFY REQ'S.	(2 EA) 3/4		FS			INDIRECT WASTE. VERIFY REQ'S 12"x 12"x 10" DEEP FLOOR SINK W/ A 3" DRAIN. P.C. TO CONNECT H2O FROM CONTROL CABINET #219
142		CLOSURE PANELS & HANGER RODS	CUSTOM ST. STEEL		1 LOT													
143		FRYER W/ FILTER DRAWER	PITCO 2-SG14-SSTC/FD	560#	1	120			1.7	1	C	NEMA 5-15P				1"	220	QUICK DISCONNECT W/ CABLE RESTRAINT
						120				1	C	FILTER						

C= CONVENIENCE OUTLET
D= DIRECT CONNECTION

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AMPS	AMPHERES
ARCH	ARCHITECT
BTU	BRITISH THERMAL UNITS
CFM	CUBIC FEET PER MINUTE
C/L	CENTER LINE
CLG	CEILING
CLR	CLEAR
CO	CONVENIENCE OUTLET
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CW	COLD WATER
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
EQ	EQUAL
EQP	EQUIPMENT
EX	EXISTING
EXH	EXHAUST
FAB	FABRICATION
FD	FLOOR DRAIN
FIN	FINISH
FF	FINISH FLOOR
FLEX	FLEXIBLE
FLR	FLOOR
FPM	FEET PER MINUTE
FRP	FIBER REINFORCED PANEL
FS	FLOOR SINK
FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
GA	GUAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GYP BD	GYPSUM BOARD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING CONTRACTOR
HW	HOT WATER
ID	INSIDE DIAMETER
INSUL	INSULATION
IW	INDIRECT WASTE
J-BOX	JUNCTION BOX
KW	KILOWATT
LP	LAMINATE PLASTIC
MAT'L	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MUA	MAKE-UP AIR
MTD	MOUNTED
NIC	NOT IN CONTRACT
NO	NUMBER
NSF	NATIONAL SANITATION FOUNDATION
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PH	PHASE
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RADIUS
REQ'D	REQUIRED
REV	REVISION
RM	ROOM
SF	SQUARE FEET
SIM	SIMILIAR
SHT	SHEET
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ	SQUARE
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
STD	STANDARD
SW	SWITCH
TEMP	TEMPERATURE
TYP	TYPICAL
V	VOLTS
W	WATTS
WD	WOOD
WGT	WEIGHT

DRAWING OF RECORD
ROSENDIN ELECTRIC, INC.
DATE: 11-07-2011

McCarthy Building Companies, Inc.
343 Sansome Street, 14th Floor
San Francisco, California 94104
P 415 397-5151
F 415 397-5999

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICE
APPL #: 01-110095
AC _____ FLS _____ SS _____
DATE _____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

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Revision	Description	Date
4	FCD 41 EXIT SIGN COORDINATION	03/12/10
3	REVISE CLAIM SIGN	12/14/09
2	25% DD CORRECTIONS & FCD 40 LOUNGE/CONFERENCE RM 47 SINK STYLE - FCD 039	03/24/10
1	25% DD CORRECTIONS	03/24/10
4	90% FLS FINANCIAL AID CHANGES - FCD 038	03/24/10
3	4TH FLR V.P. SUITES CHANGES - FCD 036	03/24/10
2	4TH FLR CONFERENCE RM 41 & 43 RESTROOM - FCD 040	03/24/10
1	ELECTRICAL DRAWING OF RECORD	01/21/11
	ELECTRICAL DRAWING OF RECORD	11/07/11

Revision	Description	Date
4	100% Design Development	06/19/08
3	50% Construction Documents	07/29/08
2	DSA Submittal	09/18/08
1	95% Construction Documents	11/26/08
	DSA Final	03/11/09
1	ELEC RM CHANGES PER AHCHT	07/28/09
2	FCD 014	08/05/09
3	FCD 016	09/15/09
4	4TH FLR OFFICES RESISCHPER OWNER - FCD 020	11/20/09

College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Kitchen Fixture & EQMT Schedule

E7.02B

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E7.02B_ENLARGED KITCHEN POWER PLAN.dwg - Nov 07, 2011 Monday - 7:43pm - 30x42-Plt - SFERMIL

FIXTURE AND EQUIPMENT SCHEDULE AND MECHANICAL REQUIREMENTS

ITEM	SEIS. DET/ SHT.	DESCRIPTION	MODEL	WGT.	QTY.	ELECTRICAL LOAD VOLTS	HP	KW	AMPS.	PHASE	CONN.	REMARKS	PLUMBING WATER HOT	COLD	WASTE	GAS	MBTU	REMARKS
144		SNEEZEGUARDS W/ LIGHTS	BRASS SMITH Z9915		1 LOT	120				1	D	LIGHTS						
145		PASS SHELF	CUSTOM ST. STEEL		1													
146		REFRIGERATED BASE (REMOTE)	CUSTOM ST. STEEL		1	120				1	D	DOOR ACTIVATED INTERIOR LIGHT						
147		EVAPORATOR COIL	CUSTOM REF.		3	120			4.4	1	D				FS			INDIRECT WASTE
148		CHARBROILER (RADIANT STYLE)	WOLF ACB-36	370#	1											3/4"	96	QUICK DISCONNECT W/ CABLE RESTRAINT
149		REFRIGERATED PAN RAIL W/ EVAPORATOR COILS (REMOTE)	CUSTOM ST. STEEL & MILLWORK		1	120			5	1	D				FS			INDIRECT WASTE
150		GRIDDLE	WOLF ASA48	480#	1											3/4"	108	QUICK DISCONNECT W/ CABLE RESTRAINT
151	23 K-00.3	GRILL, DELI, ASIAN SERVICE COUNTER W/ STONE TOP	CUSTOM ST.STEEL & MILLWORK		1													
152		REFRIGERATED BASE (REMOTE)	CUSTOM ST. STEEL		1	120				1	D	DOOR ACTIVATED INTERIOR LIGHT						
153		EVAPORATOR COIL	CUSTOM REF.		2	120			2.9	1	D				FS			INDIRECT WASTE
154		REFRIGERATED PAN RAIL W/ EVAPORATOR COILS (REMOTE)	CUSTOM ST. STEEL		1	120			5	1	D				FS			INDIRECT WASTE
155		HOT FOOD WELLS	WELLS MOD-100TD	24#	1	208			4.3	1	D	E.C. TO WIRE THRU CONTROLS			FS			INDIRECT WASTE
156		HOT FOOD WELLS	WELLS MOD-300TDM	78#	1	208			10.3	3	D	E.C. TO WIRE THRU CONTROLS			FS			INDIRECT WASTE
157	23 K-00.3	CONDIMENT STAND W/ STONE TOP	CUSTOM MILLWORK		2													
158		CONDIMENTS PUMPS	N.I.C. (SUPPLY ITEM)		1 LOT													
159		CONDIMENT PANS	N.I.C. (SUPPLY ITEM)		1 LOT													
160		SILVERWARE BULLETS	N.I.C. (SUPPLY ITEM)		1 LOT													
161		TRASH RECEPTACLE	N.I.C. (SUPPLY ITEM)		4													
162		TRASH RING	CUSTOM ST. STEEL		4													
163		NAPKIN DISPENSERS	N.I.C. (SUPPLY ITEM)		4													
164	23 K-00.3	BEVERAGE COUNTER W/ STONE TOP	CUSTOM ST. STEEL & MILLWORK		1	120				1	C	2 EA- 20 AMP CONVENIENCE OUTLETS						
165		COFFEE BREWER	N.I.C. (PURVEYOR)		2	120/ 208			30	1	C	VERIFY REQUIREMENTS W/ SUPPLIER		1/2"				VERIFY REQUIREMENTS W/ SUPPLIER. FILTERED WATER
166		HOT BEVERAGE DISPENSER	N.I.C. (BY PURVEYOR)		1	120			12	1	C	VERIFY REQUIREMENTS W/ SUPPLIER		1/2"				VERIFY REQUIREMENTS W/ SUPPLIER. FILTERED WATER
167		ICE & SODA DISPENSER	N.I.C. (BY PURVEYOR)		1	120			5	1	C	VERIFY REQUIREMENTS W/ SUPPLIER		1/2"	FS			INDIRECT WASTE. P.C. TO SUPPLY & INSTALL DOUBLE CHECK BACKFLOW PREVENTION DEVICE.
168		ICE TEA BREWER	N.I.C. (BY PURVEYOR)		1	120			14	1	C	VERIFY REQUIREMENTS W/ SUPPLIER		1/2"				VERIFY REQUIREMENTS W/ SUPPLIER. FILTERED WATER
169		JUICE DISPENSERS	N.I.C. (BY PURVEYOR)		2	120			12	1	C	VERIFY REQUIREMENTS W/ SUPPLIER		1/2"				VERIFY REQUIREMENTS W/ SUPPLIER. FILTERED WATER
170		HEAT LAMP W/ LIGHT	BRASSMITH 1130605-120-36		1	120			.21	1	D							
171	22 K-00.3	CASHIER STANDS W/ STONE TOP	CUSTOM ST. STEEL & MILLWORK		2	120				1	C	20 AMP CONVENIENCE OUTLET						
172		POS STATION	N.I.C. (BY OWNER)		2	120				1	C	DEDICATED CIRCUIT/ DATA LINE VERIFY REQUIREMENTS						
173		DROP-IN ICE CREAM FREEZER (SELF-CONTAINED)	SILVERKING SKCTMDI	130#	2	120			2.7	1	C	NEMA 5-15P						
174		CUP DISPENSER	SAN JAMAR C2410C	4#	12													
175		TRASH RECEPTACLE	CUSTOM ST. STEEL		2													
176	22 K-00.3	BEVERAGE COUNTER W/ STONE TOP	CUSTOM ST. STEEL		1	120				1	C	2 EA- 20 AMP CONVENIENCE OUTLETS						
177		JUICE DISPENSER (FUTURE)	N.I.C. (BY PURVEYOR)		1	120			12	1	C	VERIFY REQUIREMENTS W/ SUPPLIER		1/2"				VERIFY REQUIREMENTS W/ SUPPLIER. FILTERED WATER
178		TEA DISPENSER (FUTURE)	N.I.C. (BY PURVEYOR)		1													
179		ICE & SODA DISPENSER	N.I.C. (BY PURVEYOR)		1	120			5	1	C	VERIFY REQUIREMENTS W/ SUPPLIER		1/2"	FS			INDIRECT WASTE. P.C. TO SUPPLY & INSTALL DOUBLE CHECK BACKFLOW PREVENTION DEVICE.
180		HOT BEVERAGE DISPENSER (FUTURE)	N.I.C. (BY PURVEYOR)		1	120			12	1	C	VERIFY REQUIREMENTS W/ SUPPLIER						
181		AIRPOTS	N.I.C. (BY PURVEYOR)		1 LOT													
182		SPARE NUMBER																
183		SPARE NUMBER																
184		SPARE NUMBER																
185		SPARE NUMBER																
186		SPARE NUMBER																
187		SPARE NUMBER																
188		ST. STEEL INSULATED ICE PAN	CUSTOM ST. STEEL		1										FS			INDIRECT WASTE.
189	2 K-00.2	SCULLERY SINK	CUSTOM ST. STEEL		1										2"			
190	17 K-00.3	WALL SHELF	CUSTOM ST. STEEL		1													
191		FAUCET	FISHER 5414	9#	2								3/4"	3/4"				
192	A-1 K-00.3	DRY STORAGE SHELVING (4 TIER HIGH)	METRO BR SERIES		1 LOT													
193	22 K-00.3	BACK COFFEE COUNTER W/ STONE TOP	CUSTOM MILLWORK		1	120				1	C	20 AMP CONVENIENCE OUTLET						
194		BLENDERS	VITAMIX 34100		2	120			11.5	1	C	NEMA 5-15P						
195		WATER DISPENSER	DELFIELD 307	7#	1									1/2"	FS			INDIRECT WASTE
196		U/C REFRIGERATOR (SELF- CONTAINED)	BEVERAGE AIR UCR48A	230#	1	120			4.5	1	C	NEMA 5-15P						
197		COFFEE BREWERS	N.I.C. (PURVEYOR)		2	120/ 208			30	1	C	VERIFY REQUIREMENTS W/ SUPPLIER		1/2"				VERIFY REQUIREMENTS W/ SUPPLIER.FILTERED WATER
198		COFFEE GRINDER	N.I.C. (BY PURVEYOR)		1	120			9	1	C	VERIFY REQUIREMENTS W/ SUPPLIER						
199		STONE PICK-UP SHELF	CUSTOM MILLWORK		1													
200		HYBRID MERCHANDISING CASE (SELF-CONTAINED)	FEDERAL SSRC3652	590#	1	120	1/3		15.0	1	C	NEMA 5-15P						
201	22 K-00.3	COFFEE COUNTER W/ HAND SINK	CUSTOM ST. STEEL & MILLWORK		1	120				1	C	2 EA - 20 AMP CONVENIENCE OUTLET			1/2"			INDIRECT WASTE
202		POS STATION	N.I.C. (BY OWNER)		1	120				1	C	DEDICATED CIRCUIT/ DATA LINE VERIFY REQUIREMENTS						
203		STONE PASS SHELF	CUSTOM MILLWORK		1													
204		ESPRESSO MACHINE	ROSITO PORTOFINO DEL-2		1	208		3.5		1	C			1/2"	FS			INDIRECT WASTE. VERIFY REQUIREMENTS W/ SUPPLIER
205		U/C REFRIGERATOR (SELF-CONTAINED)	BEVERAGE AIR UCR27A	157#	1	120			4	1	C	NEMA 5-15P						FILTERED WATER
206		FAUCET	FISHER 3511	4.75#	1								1/2"	1/2"				
207		TRASH RECEPTACLE	CUSTOM ST. STEEL		2													
208	22 K-00.3	CONDIMENT COUNTER W/ STONE TOP	CUSTOM MILLWORK		1													
209		TRASH RECEPTACLE	N.I.C. BY OWNER		1													
210		TRASH CHUTE	CUSTOM ST. STEEL		1													
211		CONVEYOR TOASTER	HATCO TQ-800	52#	1	208		3.3	15.9	1	C	NEMA 6-20P						
212		REFRIGERATION RACK (LOCATED IN SERVICE YARD)	COLDZONE ET-2	2,040#	1	208-230			67.9	3	D	SINGLE POINT CONNECTION 75 AMP MAX FUSE						
213		DIPPERWELL & FAUCET	FISHER 3041	3.5#	1									1/2"	FS			INDIRECT WASTE
214		SYRUP RACK	N.I.C. (BY OWNER)		1													
215		ESPRESSO GRINDER	ROSITO JOLLY-A		2	120	1/2		5	1	C							
216		PRINTER	N.I.C. (BY PURVEYOR)		1	120			9	1	C	VERIFY REQUIREMENTS. DEDICATED LINE/ DATA LINE.						
217		KNOCK BOX	CUSTOM ST. STEEL		1													
218		SPARE NUMBER																

C= CONVENIENCE OUTLET
D= DIRECT CONNECTION

ITEM	SEIS. DET/ SHT.	DESCRIPTION	MODEL	WGT.	QTY.	ELECTRICAL LOAD VOLTS	HP	KW	AMPS.	PHASE	CONN.	REMARKS	PLUMBING WATER HOT	COLD	WASTE	GAS	MBTU	REMARKS
219		VENTILATOR CONTROL CABINET CABINET FOR #032 & #141	CAPTIVE AIR TAC-3000		1	120				1	D	E.C. TO PROVIDE THE FOLLOWING: (2) WIRES & GROUND TO SUPPLY VOLTAGE (2) WIRES FROM CABINET TO EXHAUST FAN MAG. STARTER. (2) WIRES FROM CABINET TO SUPPLY FAN MAG. STARTER (5) WIRES & GROUND TO EACH GROUP. SEE EXHAUST HOOD DETAIL K-05.3 FOR WIRING DETAILS 15 AMP BREAKER	1 1/2"		FS			INLET WATER MIN. 140°/ 180° MAX 34 GPM @ 20 PSI (MIN) 51 GPM @ (MAX) INDIRECT WASTE PLUMBER TO INTER-CONNECT **FROM CABINET TO SEPARATE .75"** H.W. LINES TO EXHAUST HOODS #032 AND #141. SEE SHEETS K-05.1 THRU K-05.3 FOR DETAILS.

C= CONVENIENCE OUTLET
D= DIRECT CONNECTION

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AMPS	AMPHERES
ARCH	ARCHITECT
BTU	BRITISH THERMAL UNITS
CFM	CUBIC FEET PER MINUTE
C/L	CENTER LINE
CLG	CEILING
CLR	CLEAR
CO	CONVENIENCE OUTLET
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CW	COLD WATER
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
EQ	EQUAL
EQP	EQUIPMENT
EX	EXISTING
EXH	EXHAUST
FAB	FABRICATION
FD	FLOOR DRAIN
FIN	FINISH
FF	FINISH FLOOR
FLEX	FLEXIBLE
FLR	FLOOR
FPM	FEET PER MINUTE
FRP	FIBER REINFORCED PANEL
FS	FLOOR SINK
FSEC	FOODSERVICE EQUIPMENT CONTRACTOR
GA	GUAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
GYP BD	GYPSUM BOARD
HORIZ	HORIZONTAL
HP	HORSEPOWER
HT	HEIGHT
HVAC	HEATING, VENTILATION & AIR CONDITIONING CONTRACTOR
HW	HOT WATER
ID	INSIDE DIAMETER
INSUL	INSULATION
IW	INDIRECT WASTE
J-BOX	JUNCTION BOX
KW	KILOWATT
LP	LAMINATE PLASTIC
MAT'L	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MUA	MAKE-UP AIR
MTD	MOUNTED
NIC	NOT IN CONTRACT
NO	NUMBER
NSF	NATIONAL SANITATION FOUNDATION
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PH	PHASE
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
R	RADIUS
REQ'D	REQUIRED
REV	REVISION
RM	ROOM
SF	SQUARE FEET
SIM	SIMILIAR
SHT	SHEET
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ	SQUARE
SQ FT	SQUARE FEET
SS	STAINLESS STEEL
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E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
4	FCO 11 EDIT ECM COORDINATION	03/11/10
3	REVISE CSA AIR SIGN	12/14/09
2	2ND FLT CLEARANCE CENTER & ADDITIONAL CONTROLS AT FIVE OFFICE	FCO 020 03/24/10
1	DSA CO GL Conformed Set	03/24/10
3	3RD FLR FINANCIAL AID CHANGES	- FCO 038 03/24/10
2	4TH FLR V.P. SUITES CHANGES	- FCO 039 03/24/10
1	4TH FLR CONFERENCE RMS 401 & 403 REVISIONS	FCO 045 03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

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	100% Design Development	06/03/08
	50% Construction Documents	07/23/08
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3	FCO 016	09/15/09
4	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
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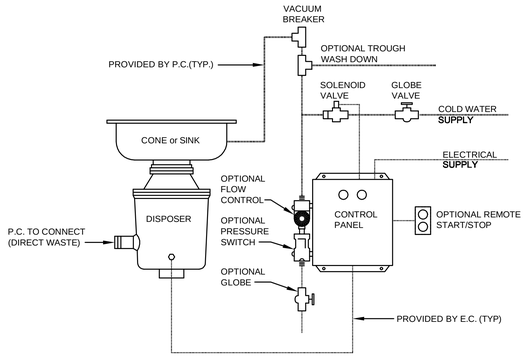
Checked by	
Scale	

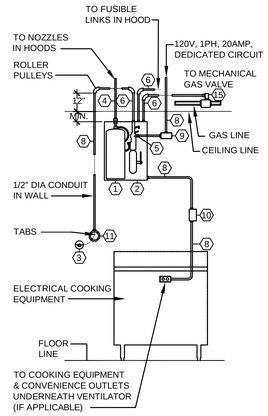
Kitchen Fixture & EQMT Schedule

E7.02C

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E7.02C_ENLARGED KITCHEN POWER PLAN.dwg - Nov 07, 2011 Monday - 7:44pm - 30x42-Plt - SFERMIL



1 DISPOSER INSTALLATION DETAIL N.T.S.



NOTES:
1. ALL TRADES TO COORDINATE WITH FIRE EQUIPMENT CONTRACTOR.
2. ALL COMPONENTS LOCATION TO BE FIELD VERIFIED.
3. DEFERRED APPROVALS FOR FIRE SUPPRESSION SYSTEM. INSTALLER TO PROVIDE SHOP DRAWINGS TO FIRE DEPT. FOR APPROVAL PRIOR TO INSTALL.

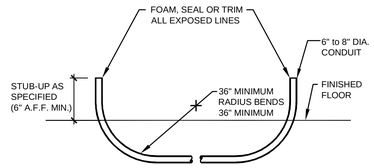
BY KITCHEN EQUIP CONT'R (K.E.C.):
1. R-102 TANK
2. CONTROL AUTOMAN
3. MANUAL PULL (FLUSH MOUNT)
4. BLACK IRON (SCHEDULE #40)
5. DOUBLE THROW MICRO SWITCH
6. 1/2" E.M.T. CONDUIT W/ CABLE

BY ELECTRICIAN (E. C.):
8. CONCEALED CONDUIT
9. FLUSH MOUNTED J-BOX
10. MAGNETIC CONTACTORS (IN CEILING) OR SHUNT TRIP BREAKER (ELECT. PANEL)
11. 4/O CONCEALED J-BOX +48" A.F.F.

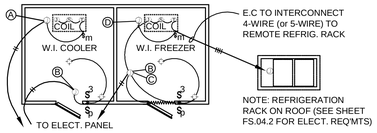
NOTE:
E.C. TO INTERCONNECT FIRE PROTECTION SYSTEM TO BUILDING FIRE ALARM.

BY K.E.C., INSTALLED BY P. C.:
15. MECHANICAL GAS VALVE

2 MECH. FIRE PROTECTION SYSTEM DETAIL N.T.S.



3 CONDUIT DETAIL N.T.S.



ELECTRICAL CONTRACTOR TO PROVIDE:

(A) 120 VOLT 1 PH FOR COIL, SOLENOID AND THERMOSTAT.

(B) 120 VOLT 1 PH FOR LIGHTS THROUGH SWITCHES- MOUNT LIGHTS IF SHIPPED LOOSE.

(C) 120 VOLT 1 PH FOR FREEZER DOOR HEATER AND COIL DRAIN HEATER.

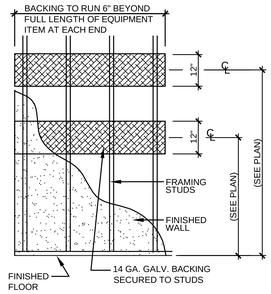
(D) 208V/ 1PH (or PER PLAN) FOR COIL, COIL HEATER, SOLENOID AND THERMOSTAT. ALSO, 4-WIRE (or 5-WIRE) TO DEFROST TIMER AT COMPRESSOR.

NOTE:
E.C. TO WIRE THRU TO ALL THREE AND FOUR WAY SWITCHES PER PLANS AND SPECIFICATIONS.

NOTE:
ELECTRICAL CONTR'R. TO WIRE FROM ROUGH-IN POINTS A, B, C & D TO ALL COMPONENTS OF WALK-IN ASSEMBLIES, INCLUDING COMPRESSORS, TO MAKE A COMPLETE & OPERABLE REFRIGERATION SYSTEM. ELECTRICAL CONTR'R. TO MAKE PENETRATIONS FROM ROUGH-IN LOCATIONS TO INTERIOR WALK-IN BOX AND PROVIDE PROPER SEALING OF SAME PENETRATIONS (VERIFY SPECIFIC REQUIREMENTS WITH GENERAL CONTR'R). SEAL CONDUIT AFTER ALL WIRES ARE PULLED.

4 WALK-IN WIRING DETAIL N.T.S.

5 NOT USED N.T.S.



NOTES:
1. WALL BACKING TO BE VERIFIED & COORDINATED BY THE F.S.E.C.
2. G.C. TO PROVIDE AND INSTALL WALL BACKING AS SPECIFIED.

6 WALL BACKING DETAIL N.T.S.

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AC ____ FLS ____ SS ____
DATE ____
FILE NUMBER: 41-C1

REGISTERED PROFESSIONAL ENGINEER
ERNESTO ANTONIO HERNANDEZ
E015390
EXP.6/30/11
ELECTRICAL
STATE OF CALIFORNIA

BUILDING QUALITY BUILDING VALUE BUILDING PEOPLE
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College of San Mateo
Building 10N

San Mateo, CA

Developed for
San Mateo County Community College District

Revision	Description	Date
1	FCO 11 EXIT SIGN COORDINATION	02/01/10
2	REVISED FS AIR SIGN	12/14/09
3	RE-FLT LEARNING CENTER & ELEC. EQUIPMENT AT FS/SA OFFICE - FCO 022	03/24/10
4	DSA CO 01 Construction Set	03/24/10
5	2ND FLR FINANCIAL AID CHANGES - FCO 038	03/24/10
6	4TH FLR V.P. SUITES CHANGES - FCO 039	03/24/10
7	4TH FLR CONFERENCE RM 401 & 403 REVISIONS - FCO 045	03/24/10
	ELECTRICAL - DRAWING OF RECORD	01/21/11
	ELECTRICAL - DRAWING OF RECORD	11/07/11

Revision	Description	Date
1	100% Design Development	06/03/08
2	50% Construction Documents	07/03/08
3	DSA Submittal	09/18/08
4	95% Construction Documents	12/05/08
5	DSA Final	03/11/09
6	ELEC EM CHANGES PER ARCHT	07/28/09
7	FCO 014	08/05/09
8	FCO 016	09/15/09
9	4TH FLR OFFICES REVISION PER OWNER - FCO 020	11/20/09

Job. No.	
Date	March 2009
Drawn by	
Checked by	
Scale	

Kitchen Details

E7.02D

L:\Eng_2\Current Projects\College of San Mateo-Bldg 10N_300085\Electrical Design-DOR_11-07-2011\300085_10N_E7.02D_KITCHEN DETAILS.dwg - Nov 07, 2011 Monday - 7:45pm - 30x42-Plt - SFERMIL