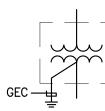


FUSED SWITCH, CLASS L OR R FUSES AS NOTED. "100" INDICATES

SWITCH SIZE, "70" INDICATES FUSE SIZE, "3" INDICATES POLES.



STEP DOWN TRANSFORMER, 480-120/208V, 3ø, 4W U.O.N. RATINGS AS NOTED. GROUND "TP-1" RATED DRY TYPE TRANSFORMERS TO BUILDING STEEL AND NEAREST COLD WATER PIPE.



PANELBOARD, SIZE AS NOTED, MAIN LUGS ONLY UNLESS MAIN BREAKER SHOWN, "100/3" INDICATES MAIN BREAKER SIZE.

CONSTRUCTION NOTES:

- 1. ALL WIRE TO BE THHN/THWN COPPER, STRANDED EXCEPT WHERE NOTED OTHERWISE.
- ALL DEVICES AND EQUIPMENT INSTALLED OUTDOORS OR EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION.
- ALL DEVICES SHALL BE SPECIFICATION GRADE. ALL SINGLE AND GANGED PLATES SHALL BE BRUSHED CHROME/STAINLESS STEEL. GANG DEVICES AT GROUP LOCATIONS UNDER A SINGLE COVER PLATE. DATA PLACES SHALL BE THERMOPLASTIC. VERIFY COLOR.
- 4. ALL FIXTURES INSTALLED IN SUSPENDED T-BAR CEILINGS SHALL BE SUPPORTED BY A MINIMUM OF TWO FIXTURE SUPPORT WIRES FURNISHED BY OTHERS.
- THE ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL OF THE ARCHITECTURAL DETAIL OR SPECIFICS OF ELECTRICAL CONSTRUCTION. TAKE ALL DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS.
- REFER TO THE LATEST EDITION OF THE 2005 NEC, 2007 CEC, 2005 TITLE 24, UBC, 2007 CBC, AND LOCAL ORDINANCES IN EFFECT AT THE TIME OF CONSTRUCTION AS THE CONTROLLING DOCUMENTS.
- ALL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE MADE WITH A MINIMUM OF 24" OF WEATHERPROOF FLEXIBLE CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE.
- COORDINATE ALL MOTOR OVERLOADS AND/OR FUSES FURNISHED BY THIS CONTRACT WITH THE ACTUAL EQUIPMENT INSTALLED. SIZE OVERLOADS BASED ON MOTOR NAMEPLATE FULL LOAD CURRENT AND SERVICE FACTOR. FUSES FOR MOTOR AND TRANSFORMER CIRCUITS SHALL BE DUAL ELEMENT. FUSES FOR OTHER "NON-INRUSH" LOADS SHALL BE FAST ACTING. ALL FUSES SHALL BE CURRENT LIMITING CLASS RK5 OR CLASS L UNLESS OTHERWISE NOTED.
- GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS AND SWITCHBOARDS, ETC. IN ACCORDANCE WITH 2005 NEC ARTICLE 250.
- 10. BONDING OF ALL INTERIOR METAL PIPING SHALL BE IN ACCORDANCE WITH 2005 NEC ARTICLE 250.104 AS FOLLOWS:
- A. ALL INTERIOR METAL WATER PIPING SHALL BE BONDED TO ONE OR MORE GROUNDING ELECTRODES USED. THE BONDING JUMPING SHALL BE SIZED IN ACCORDANCE WITH 2005 NEC TABLE 250.66.
- B. INTERIOR METAL PIPING THAT MAY BECOME ENERGIZED (i.e. GAS PIPING, ETC.), SHALL BE BONDED TO ONE OR MORE GROUNDING ELECTRODES USED. THE BONDING JUMPER SHALL BE SIZED IN ACCORDANCE WITH 2005 NEC TABLE 250.122 USING THE RATING OF THE CIRCUIT THAT MAY ENERGIZE THE PIPING
- INSTALL ALL WALL MOUNTED POWER, TELEPHONE AND DATA OUTLETS AT +18" A.F.F. UNLESS OTHERWISE NOTED, INSTALL ALL LIGHTING CONTROL SWITCHES, FIRE ALARM PULLSTATIONS, FIREMAN'S TELEPHONE JACKS, AND WALL TELEPHONE JACKS AT +48" AFF, UNLESS OTHERWISE NOTED. ALL HEIGHT MEASUREMENTS SHALL BE TO THE CENTERLINE OF THE DEVICE.
- 12. ALL CONDUCTORS IN VERTICAL RACEWAYS SHALL COMPLY WITH 2005 NEC ARTICLE 300.19(A), 300.19(B) AND TABLE 300.19(A), 2007 CEC 376.30(B).
- PROVIDE A MINIMUM OF 24" HORIZONTAL SEPARATION BETWEEN BACK TO BACK RECEPTACLES IN ALL TWO HOUR RATED WALLS. SEE ARCHITECTURAL PLANS FOR WALL RATINGS.
- 14. ALL EQUIPMENT SHALL BE U.L. LISTED FOR ITS INTENDED USE.
- PROVIDE "WARNING: POTENTIAL ARC FLASH HAZARD" LABEL FOR ALL SWITCHBOARDS, PANELBOARDS, METER SOCKET ENCLOSURES AND MOTOR CONTROL CENTERS PER 2005 NEC, 2007 CEC ARTICLE 110.16 "FLASH PROTECTION" REQUIREMENTS. (APPLIES TO DESIGNATED SCOPE OF WORK ONLY.)
- 16. LIGHTING FIXTURE MOUNTING REQUIREMENTS SHALL BE PER 2005 NEC AND 2007 CEC ARTICLE 410.16. FLUORESCENT LIGHTING FIXTURES SHALL HAVE AN INTEGRAL DISCONNECT PROVIDED BY THE FIXTURE MANUFACTURER FOR MAINTENANCE OF BALLAST PER 2007 NEC ARTICLE 410.73(G).
- PROVIDE "HANDLE-TIE" FOR ALL BREAKERS SERVING PARTITION FURNITURE SYSTEMS PER 2005 NEC, 2007 CEI ARTICLES 210.4, 240.20(B)(1), 300.13(B), 605.6, & 605.7
- 18. REFER TO ARCHITECTURAL DRAWING NO. "COVER" FOR THE LIST OF GOVERNING CODES AND STANDARDS. COORDINATE WITH AOR.

SCHOOL EQUIPMENT ANCHORAGE NOTE:

SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENTS SHALL CONFORM TO THE REGULATIONS OF CBC-2007 AND ASCE 7-05, SECTION 13.3, 13.4 AND 13.6.

ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

THE TOTAL DESIGN LATERAL SEISMIC FORCE SHALL BE DETERMINED FROM SECTION 1614A CALIFORNIA BUILDING CODE (CBC) 2007 AND 13.3 ASCE 7-05. FORCES SHALL BE APPLIED IN THE HORIZONTAL DIRECTIONS, WHICH RESULT IN THE MOST CRITICAL LOADING FOR DESIGN.

THE VALUE OF AP (COMPONENT AMPLIFICATION FACTOR) AND RP (COMPONENT RESPONSE MODIFICATION FACTOR) OF SECTION 13.3.1 ASCE 7-05 SHALL BE SELECTED FROM SECTION 13.6-1 ASCE 7-05). THE VALUE OF IP SHALL BE SELECTED FROM SECTION 13.1.3 AND 13.6 OF ASCE 7-05.

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER, STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT:

lateral support for ducts/piping shall comply with the latest edition of SMACNA— 'Guidelines for Seismic Restrains of Mechanical Systems and Plumbing System''.

ABBREVIATIONS:

EXTERIOR LIGHT - ON BY PHOTO

CELL, OFF BY TIME CLOCK

EXISTING

EM EMERGENCY

EQUAL

EX EXPLOSION PROOF

AFF ABOVE FINISH FLOOR KS KNEE SPACE ALUMINUM CONDUCTOR OR BUS KVA KILOVOLT AMPERES AMMETER KW KILOWATTS AMMETER SWITCH (N) NEW C.E.C. CALIFORNIA ENERGY COMMISSION NIGHT LIGHT C.O. CONDUIT ONLY NIC NOT IN CONTRACT CU COPPER CONDUCTOR OR BUS NTS NOT TO SCALE

MCP MOTOR CIRCUIT PROTECTOR (R) REMOVE

(RL) RELOCATE OR RELOCATED SECURITY LIGHT - ON/OFF

BY PHOTO CELL

SLD SINGLE LINE DIAGRAM

FAAP FIRE ALARM ANNUNCIATOR PANEL TC TIME CLOCK

FACP FIRE ALARM CONTROL PANEL TYP TYPICAL FBO FURNISHED BY OTHERS UON UNLESS OTHERWISE NOTED G.E.C. GROUND ELECTRODE CONDUCTOR V.C. VOLUME CONTROL

SIZE PER NEC 250-66 VM VOLTMETER VS VOLTMETER SWITCH IBO INSTALLED BY OTHERS

> WALL MOUNTED EQUIPMENT OF WEATHERPROOF CONSTRUCTION OR DESIGN

DRAWING INDEX:

E-0.0.0 GENERAL E-0.1.0 BUILDING 12 TITLE 24 INTERIOR BUILDING 17 TITLE 24 INTERIOR

ISOLATED GROUND CONDUCTOR

E-0.1.2 BUILDING 17 TITLE 24 INTERIOR E-0.1.3 BUILDING 17 TITLE 24 EXTERIOR E-0.2.0 LIGHTING FIXTURE SCHEDULE

E-2.1.0D BUILDING 12 POWER PLAN DEMOLITION

E-2.1.0 BUILDING 12 POWER PLAN E-2.2.1D BUILDING 17 POWER PLAN DEMOLITION E-2.2.1 BUILDING 17 POWER PLAN

E-2.2.2 BUILDING 17 POWER PLAN ROOF E-3.1.0D BUILDING 12 LIGHTING PLAN DEMOLITION

E-3.1.0 BUILDING 12 LIGHTING PLAN E-3.2.1D BUILDING 17 LIGHTING PLAN DEMOLITION

E-3.2.1 BUILDING 17 LIGHTING PLAN E-4.0.0 BUILDING 12 PANELBOARD SCHEDULES

E-4.0.1 BUILDING 12 PANELBOARD SCHEDULES

E-5.0.0 BUILDING 17 PANELBOARD SCHEDULES AND SINGLE-LINE DIAGRAM E-6.0.0 DETAILS

E-6.1.0 DETAILS E-6.2.0 DETAILS E-6.3.0 DETAILS

SCOPE OF WORK:

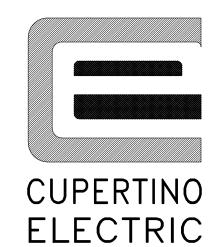
ADDITION/IMPROVEMENTS TO EXISTING BUILDINGS 12 AND 17 TO INCLUDE: BUILDING 12

- ALL PANELBOARDS AND TRANSFORMERS ARE EXISTING, REPLACED (6) EXISTING PANELBOARDS WITH NEW "5EBA", "5LBA", "5RBA", "5L1A", "5R1A & "5R1D". WE ASSUME ALL ARE SUFFICIENTLY SIZED AND FUNCTIONING PROPERLY.
- SAFE-OFF POWER AND LIGHTING CIRCUITS IN WALLS AND CEILINGS FOR DEVICES TO BE REMOVED. MAINTAIN CIRCUIT CONTINUITY TO REMAINING DEVICES.
 - REPLACE ACRYLIC LENSES AT EXISTING 2x4 LIGHT FIXTURES.
- CLEAN ACRYLIC LENSES AT EXISTING PENDANT AND SURFACE MOUNTED FIXTURES.
- REPLACE EXISTING DEVICE OUTLET COVER PLATES WITH NEW COVER PLATES.
- REPLACE RECEPTACLES IN RESTROOMS 12-107 AND 12-117.
- ADD 2x4 LIGHTING FIXTURES AND RECEPTACLES IN NEW PROGRAM SUITE.
- INSTALL OCCUPANCY SENSOR IN OFFICES AND RESTROOMS.
- REPLACE FLUORESCENT LIGHT FIXTURES IN OFFICES AND RESTROOMS.
- ADD STRIP LIGHTING FIXTURES AND RECEPTACLES IN NEW MDF ROOM.
- 11. ADD POWER AND DATA IN CLASSROOMS FOR NEW OVERHEAD PROJECTORS.
- 12. ADD (1) CARD READER AND (1) AUTO DOOR OPENER.
- 13. ADD NEW 10 KVA 480/277 VOLT LIGHTING INVERTER.
- 14. ADD NEW LIGHTING FIXTURES IN HALLWAY 12-001. HALLWAY LIGHTING FIXTURES TO BE CONTROLLED BY EXISTING BUILDING MANAGEMENT SYSTEM.

BUILDING 17

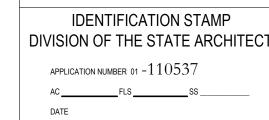
- REPLACE EXISTING FLUSH MOUNTED PANELBOARDS.
- REMOVE EXISTING 45KVA TRANSFORMER T4. ADD NEW 75KVA TRANSFORMER T4.
- SAFE-OFF POWER AND LIGHTING CIRCUITS IN WALLS AND CEILINGS FOR DEVICES TO BE REMOVED. MAINTAIN CIRCUIT CONTINUITY TO REMAIN DEVICES.
- REPLACE ACRYLIC AT EXISTING 2x4 LIGHT FIXTURES.
- REPLACE EXISTING DEVICE OUTLET COVER PLATES WITH NEW COVER PLATES.
- ADD POWER AND RECEPTACLES TO NEW/RECONFIGURED ROOMS.
- ADD LIGHTING FIXTURES TO NEW/RECONFIGURED ROOMS.
- HALLWAYS 17-H1, 17-H2 AND 17-H3 LIGHTING FIXTURES TO BE CONTROLLED BY EXISTING BUILDING MANAGEMENT SYSTEM.
- ADD CARD READERS AND AUTO-DOOR OPENERS AT EAST AND WEST EXIT DOORS IN HALLWAYS 17-HI AND 17-H2.
- INTERCEPT EXISTING POWER AND LIGHTING CIRCUITS THAT ARE TO REMAIN AND REROUTE TO NEW PANELBOARD LOCATIONS.





1740 CESAR CHAVEZ STREET SAN FRANCISCO, CA 94124 (415)970 - 3400C-10 LIC.NO. 174637

"THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED BY CUPERTING ELECTRIC, INC. FOR THEIR EXCLUSIVE USE IN ACCORD WITH SEC. 6737.4 OF HE PROFESSIONAL ENGINEERS ACT OF THE STATE OF CALIFORNIA."



COLLEGE OF SAN MATEO

BUILDING 12 AND 17 **MODERNIZATION** SMCCCD

3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd.

San Mateo, CA 94402 SHEET TITLE

GENERAL

	REVISI(DNS
NO.	DATE	DESCRIPTION
	8/3/10	RECORD DOCUMENT

DATE AUGUST 27, 2009 DRAWN CEI CHECKED CEI SCALE NONE N&T JOB NO.: 2901

SHEET NUMBER

MOUNTED.

PANELBOARD - SURFACE OR FLUSH MOUNTED. VERIFY WALL DEPTH IF FLUSH

	(Part 4 of 4)	LTG-1-C
COLLEGE OF SAN MATEO BLDG 12	DATE 27-Aug-09	
signer: orm is to be used by the designer and attached to the plans. Listed belowner is required to check the boxes by all acceptance tests that apply and	list all equipment that require an accepta	ance test. If all
uipment of a certain type requires a test, list the equipment description and to mber designates the Section in Appendix of the Nonresidential ACM Manual to performing the test (i.e. the installing contractor, design professional, or an plans, completion of this section will allow the responsible party to budget f	that describes the test. Also indicate th agent selected by the owner). Since th	e person responsible
Building Department: estems Acceptance. Before an occupancy permit is granted for a newly of	constructed building or space, or a new	space-conditioning
stem serving a building or space is operated by normal use, all control device a Acceptance Requirements for Code Compliance. In addition a Certificate of illding department that:	es serving the building or space shall be	certified as meeting
A. Certifies plans, specifications, installation certificates, and operating §10-103(b) and Title 24, Part 6.	and maintenance information meet the	requirements of
st Description	Test I	Performed By:
√ x LTG-2-A: Lighting Control Acceptance Document		
Occupancy Sensor Acceptance		
Manual Daylight Controls Acceptance		
Automatic Time Switch Control Acceptance		
uipment requiring acceptance testing Occupancy Sensors		ELECTRICIAN
V ☐ LTG-3-A: Automatic Daylighting Controls Acceptance Docu	ument	
quipment requiring acceptance testing		

ROJECT NAME	COLLEGE OF SAN N	ANCE (P MATEO BLDG 12	DATE 27-Aug-09			
CONROLS FOR CREDIT	IN CONDITIONED AND	UNCONDITIONED SPACES				
CONTROL LOCATION	CONTROL	CONTROL TYPE (Occ Sensor, Daylight, Dimming,		S CONTROLLED # OF	NOTE TO	
(Room # or Dwa #) RESTROOMS	IDENTIFICATION	etc) OCCUPANCY SENSORS	ALL	LUMINAIRES	FIELD	
		OCCUPANCT SENSORS	ALL	ALL		
OFFICES	<u> </u>					
STORAGE						
MDF ROOM	<u> </u>	\	<u> </u>	4		

		-				

CERTIF	ICATE	OF COMP	LIANCE	(Part 2 of 4)		LTG-1-0
PROJECT NAM	E	COLLEGE OF S	AN MATEO BLDG 12) DATE	27-Aug-09	
INSTALLED II	NTERIOR	LIGHTING POWER	FOR CONDITIONED AN	ID UNCONDITIONED		
						INSTALLED WATTS
		INSTA	LLED LIGHTING, CON	DITIONED SPACES	(From LTG-2-C)	1586.0
			POR	TABLE LIGHTING (F	rom LTG-3-C) +	0
		LIGHTING CON	TROL CREDIT, COND	ITIONED SPACES (F	rom LTG-4-C) -	
		CONDITIO	NED SPACE ADJUSTE	ED INSTALLED LIGH	TING POWER =	1414.8
		INSTALLI	ED LIGHTING, UNCON	DITIONED SPACES	(From LTG-2-C)	0
	L	IGHTING CONTR	OL CREDIT, UNCOND	ITIONED SPACES (F	rom LTG-4-C) -	0
		UNCONDITIO	NED SPACE ADJUSTE	D INSTALLED LIGH	TING POWER =	10"
			OR CONDITIONED SP			<u> </u>
11						
		METHOD (from LT	'G-5-C)	ALLOWED LIC	SHTING POWER	ALLOWED WATTS 1567.9
ALTERNATE (COMPLIA ERFORMA	NCE ANCE METHOD GLIGHTING SYSTE				WATTS
ALTERNATE (P C ALLOW	COMPLIA ERFORMA COMMONG VED INTERIO	NCE ANCE METHOD GLIGHTING SYSTEI DR LIGHTING POWER	M (from LTG-8-C) FOR UNCONDITIONED SI	PACES (From LTG-5-C)		WATTS 1567.9
ALTERNATE (P C ALLOW	COMPLIA ERFORMA COMMONG VED INTERIO	NCE ANCE METHOD GLIGHTING SYSTEI DR LIGHTING POWER	M (from LTG-8-C) FOR UNCONDITIONED SI INTERIOR LIGHTING A IG AUTOMATIC CONTE	PACES (From LTG-5-C) ND DAYLIT AREAS ROLS		WATTS 1567.9
ALTERNATE (P C ALLOW	COMPLIA ERFORMA COMMONG VED INTERIO	NCE ANCE METHOD GLIGHTING SYSTEI DR LIGHTING POWER	M (from LTG-8-C) FOR UNCONDITIONED SI	PACES (From LTG-5-C)		WATTS 1567.9
ALTERNATE (P C ALLOW MANDATORY MANDATORY CONTROL LO (Room #, Ar	COMPLIA COMPLIA COMMONG COMMON	ANCE METHOD S LIGHTING SYSTE OR LIGHTING POWER G MEASURES FOR R AND DAYLIGHTIN CONTROL	M (from LTG-8-C) FOR UNCONDITIONED SI INTERIOR LIGHTING A IG AUTOMATIC CONTE CONTROL TYPE (Auto Time Switch, Dimming,	PACES (From LTG-5-C) ND DAYLIT AREAS ROLS SPACE CONTROLLED List the location of	If Control is	watts 1567.9 watts
ALTERNATE (P C ALLOW MANDATORY MANDATORY CONTROL LO (Room #, Ar Descrip	COMPLIA COMPLIA COMMONG COMMON	ANCE METHOD GLIGHTING SYSTE OR LIGHTING POWER GMEASURES FOR R AND DAYLIGHTIN CONTROL IDENTIFICATION	M (from LTG-8-C) FOR UNCONDITIONED SI INTERIOR LIGHTING A IG AUTOMATIC CONTE CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.)	PACES (From LTG-5-C) ND DAYLIT AREAS ROLS SPACE CONTROLLED List the location of controlled lights	If Control is	watts 1567.9
ALTERNATE (P C ALLOW MANDATORY MANDATORY CONTROL LO (Room #, Ar	COMPLIA ERFORMA COMMONG COMMON	ANCE METHOD S LIGHTING SYSTE OR LIGHTING POWER G MEASURES FOR R AND DAYLIGHTIN CONTROL	M (from LTG-8-C) FOR UNCONDITIONED SI INTERIOR LIGHTING A IG AUTOMATIC CONTE CONTROL TYPE (Auto Time Switch, Dimming,	PACES (From LTG-5-C) ND DAYLIT AREAS ROLS SPACE CONTROLLED List the location of	If Control is	watts 1567.9 watts
ALTERNATE OF THE PRESTRO	COMPLIA ERFORMA COMMONG COMMONG CIGHTING CINTERIOR COCATION rea #, or commong COMS ES	ANCE METHOD GLIGHTING SYSTE OR LIGHTING POWER GMEASURES FOR R AND DAYLIGHTIN CONTROL IDENTIFICATION	M (from LTG-8-C) FOR UNCONDITIONED SI INTERIOR LIGHTING AI IG AUTOMATIC CONTE CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.) OCCUPANCY	PACES (From LTG-5-C) ND DAYLIT AREAS ROLS SPACE CONTROLLED List the location of controlled lights	If Control is	watts 1567.9 watts
ALTERNATE (P C ALLOW MANDATORY MANDATORY CONTROL LC (Room #, Ar Descrip RESTRO OFFIC	COMPLIA ERFORMA COMMONG COMMONG CIGHTING CINTERIOR COCATION Tea #, or Tition COMS ES GE	ANCE METHOD GLIGHTING SYSTE OR LIGHTING POWER GMEASURES FOR R AND DAYLIGHTIN CONTROL IDENTIFICATION	M (from LTG-8-C) FOR UNCONDITIONED SI INTERIOR LIGHTING AI IG AUTOMATIC CONTE CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.) OCCUPANCY	PACES (From LTG-5-C) ND DAYLIT AREAS ROLS SPACE CONTROLLED List the location of controlled lights	If Control is	watts 1567.9 watts
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ALTERNATE (P C ALLOW MANDATORY MANDATORY CONTROL LC (Room #, Ar Descrip RESTRO OFFIC STORA	COMPLIA ERFORMA COMMONG COMMONG CIGHTING CINTERIOR COCATION Tea #, or tion COMS ES GE	ANCE METHOD GLIGHTING SYSTE OR LIGHTING POWER GMEASURES FOR R AND DAYLIGHTIN CONTROL IDENTIFICATION	M (from LTG-8-C) FOR UNCONDITIONED SI INTERIOR LIGHTING AI IG AUTOMATIC CONTE CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.) OCCUPANCY	PACES (From LTG-5-C) ND DAYLIT AREAS ROLS SPACE CONTROLLED List the location of controlled lights	If Control is	watts 1567.9 watts
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CERTIFICATE OF	COMPLIANCE	(Part 1 of 4)	LTG-1-
PROJECT NAME	, and the state of		DATE	رائد ونام
COLLEGE OF S/ PROJECT ADDRESS	AN MATEO BLDG 12		27-Au	g-U9
	HILLSDALE BLVD. SAN	I MATEO, CA.		
PRINCIPAL DESIGNER - LIGHTING	iceni	TEEPHONE	Building	g Permit
MILES DOCUMENTATION AUTHOR	ISEKI	(408) 808-8000 TELEPHONE	Checke	ed by/Date
GORDON V	VILLIAMS	(408) 808-8000		ement Agency Use
GENERAL INFORMATION			1	
DATE OF PLANS	8/27/09 BUILDING CONDIT		CLIMATE ZONE	3
BUILDING TYPE		HIGH RISE RESIDENTIAL	HOTEL/MO	TEL GUEST
CONDITIONED SPACES	UNCONDITIONED SPACE	S NDOOR/OUTDOOR SIGNS		
PHASE OF CONSTRUCTION	NEW .	ADDITION JALTERATION		
METHOD OF COMPLIANCE				
	h-Ahd	CATEGORY TAILORED	COMMON LIG	HTING
STATEMENT OF COMPLIANCE				
California Code of Regulations. The		ormance specifications need to co ultima liabtima requirements	inpiy willi 124, Fai	is rand o or the
The second secon	the second transfer self-fermen actif and the	The rest of the contract of th		
The documentation preparer herek	•	tion is accurate and complete.		
DOCUMENTATION AUTHOR	SIGNATURE		DATE	07 4 00
GORDON WILLIAM		d building design represented in thi		27-Aug-09
119, 130-132, 146, 148, & 149 of	ouilding has been designed to r litle 24, Part 6. et the requirements of Part 6 (4	h the specifications, and with any meet lighting requirements containe	other calculations :	submitted with this ts of Section 110,
119, 130-132, 146, 148, & 149 of The plans & specifications me	ouilding has been designed to r litle 24, Part 6. et the requirements of Part 6 (4	h the specifications, and with any meet lighting requirements containe	other calculations : d in applicable par	submitted with this ts of Section 110,
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Line Voltage Track Lighting Worksheet

Signs (See OLTG-4-C Sign Worksheet in Chapter 6, Outdoor Lighting and Signs Chapter)

LTG-9-C

OLTG-4-C

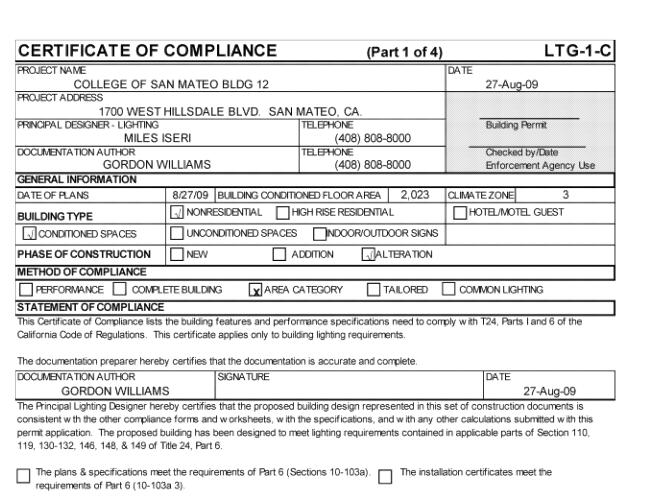
MANDATORY	MEASURES -	_	2005	NONRESIDENTIAL	COMPLIANCE

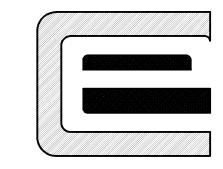
- □ BUILDING LIGHTING SHUT-OFF NOT APPLICABLE THE BUILDING LIGHTING SHUT OFF SYSTEM CONSISTS OF AN AUTOMATIC LINE SWITCH, WITH A ZONE FOR EACH FLOOR; OR THE BUILDING IS SEPARATELY METERED AND EXEMPT FROM THE SHUT-OFF REQUIREMENT
- □ OVERRIDE FOR BUILDING LIGHTING SHUT-OFF NOT APPLICABLE THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET.
- AUTOMATIC CONTROL DEVICES CERTIFIED ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.
- FLUORESCENT BALLAST AND LUMINARIES CERTIFIED ALL FLUORESCENT FIXTURES SUBJECT TO CERTIFICATION AND SPECIFIED FOR THE PROJECTS ARE CERTIFIED.
- INDIVIDUAL ROOM/AREA CONTROLS EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR TO CEILING WALLS.
- UNIFORM REDUCTION FOR INDIVIDUAL ROOMS. ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
- □ DAYLIT AREA CONTROL NOT APPLICABLE ALL ROOMS THAT ARE GREATER THAN 250 SQUARE FEET AND CONTAIN WINDOW AND SKYLIGHTS, THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LIGHTING POWER IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH; OR
- □ THE EFFECTIVE USE OF DAYLIGHT THROUGHOUT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF YEAR IS INCLUDED ON PLANS. NOT APPLICABLE.

NTERIOR LIGHTING POWER ALLOWANCE ROJECT NAME COLLEGE OF SAN MATEO BLDG 12	DATE		LTG-5-
	1.11	27-Aug-09	
LLOWED LIGHTING POWER (Choose One Method)			
OMPLETE BUILDING METHOD - CONDITIONED SPACES	WATTS	26. 25. M & 26. V 2000000000	111 2011
BUILDING CATEGORY (From § 146 Table 146-B)	PER (ft²)	COMPLETE BLDG. AREA	ALLOWED WATTS
REA CATEGORY METHOD - CONDITIONED SPACES			
A AREA CATEGORY	B WATTS PER (ft²)	C AREA (ft²)	ALLOWED WATTS
RESTROOMS	0.6	312.0	187.2
OFFICES	1.2	477.0	572.4
HALLWAY	0.6	1064.0	638.4
STORAGE	0.6	73.0	43.8
MDF ROOM	1.3	97.0	126.1
		2023.0	1567.9
	TOTALS		WATTS
AILORED METHOD -CONDITIONED SPACES			
	TOTAL ALI	OWED WATTS (From LTG-6-C)	
NCONDITIONED SPACES			
A	В	C	D
Complete Building and Area Category Methods CATEGORY (From § 146 Table 146-B & C) N/A	WATTS PER (ft²)	AREA (ft²)	ALLOWED WATTS
		AREA	WATTS
	TOTALS	· ANEA	VVALIO

PROJECT NAME		1	CULLEC	iE OF	DAN MAI	EO BLDG	12	DATE	27-Aug-09		
CONTROL CREE	DITS FOR	CONDIT	TIONED S	PACES	}						
Α	В		C		D	T E	F	G	H		J
ROOM#, ZONE ID CONDITIONED AREAS	LIGHT CONT DESCRI	NNG ROL	FLA REFERE	N	ROOM AREA (ft2)	WINDOW WALL RATIO	GLAZING VLT	SKYLIHGT EFFECTIVE APERTURE	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR ²	CONTRO CREDIT WATTS (H X I)
12-107	OCCUP SENS		E3.1	0	144				118.0	0.2	23.6
12-117			-		168				118.0	0.2	23.6
12-105B					111				118	0.2	23.6
12-105C					116				118	0.2	23.6
STORAGE					73				30	0.2	6.0
MDF					97				118	0.2	23.6
12-106					250				236	0.2	47.2
		Ī									
1) From Equation	l on 146-A										
2) From Table						PA	GE TOTAL				171.2

INSTALLED	LIGHTING POWER FOR CO	NDITIONED:	SPACES						
	Luminaire		Lamps/	Ballasts			Installe	d Watts	
А	В	С	T D	E	F	G	Н	l	J
Name	Type Description	Lamp Type	Number of Lamps per Luminaire	Watts Per Lamp	Number of Ballast per Luminaire	Watts per Luminaire	Check if CEC Default	Number of luminaires	Watts (G X I)
Д	SEE FIXTURE	T8	2	32	1	59	T 7	14	826
A1	SCHEDULE	1	2	32	1	59	1 1	4	236
С			2	32	1	59	1 1	3	177
D			2	32	1	59	+	2	118
E			1 1	18	1	22	T 🗸	1	22
F			<u> </u>	32	1	59	+	2	118
F1			1 1	32	1	30	T V	1	30
C3	J		$+\frac{}{2}$	32	1	59	+	-	59
							<u> </u>		
							1		
			+	 			+		<u> </u>
							1		
			-						
			-						
					BU	ILDING TO	PA TAL (sum a	GE TOTAL	1
					PORTAE	LE LIGHTI	NG (From L	TG-3-C) +	-
							EDIT (from		





ARCHITECT OF RECORD

729 Heinz Avenue Berkeley, CA 94710

fax 510.649.3008

510.649.8295

architects and planners

CUPERTINO ELECTRIC

1740 CESAR CHAVEZ STREET SAN FRANCISCO, CA 94124 (415)970 - 3400C-10 LÍC.NO. 174637

"THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED BY CUPERTINO ELECTRIC, INC. FOR THEIR EXCLUSIVE USE IN ACCORD WITH SEC. 6737.4 OF THE PROFESSIONAL ENGINEERS ACT OF THE STATE OF CALIFORNIA."

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 -110537

COLLEGE OF SAN MATEO

BUILDING 12 AND 17 MODERNIZATION

SMCCCD 3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd. San Mateo, CA 94402

SHEET TITLE **BUILDING 12** TITLE 24

REVISIONS NO. DATE DESCRIPTION 8/3/10 RECORD DOCUMENT

DATE AUGUST 27, 2009 DRAWN CEI CHECKED CEI

NONE

N&T JOB NO.: 2901 SHEET NUMBER

SCALE

ERTIFICATE OF COMPLIANCE	(Part 4 of 4)	LTG-1-
OJECT NAME COLLEGE OF SAN MATEO BLDG 17	DATE 27-A	\ug-09
esigner:		
is form is to be used by the designer and attached to the plans. Listed below	3	w w 2
signer is required to check the boxes by all acceptance tests that apply and uipment of a certain type requires a test, list the equipment description and the		•
mber designates the Section in Appendix of the Nonresidential ACM Manual t		E .
performing the test (i.e. the installing contractor, design professional, or an	agent selected by the owner).	Since this form will be part of
plans, completion of this section will allow the responsible party to budget f	or the scope of work appropriat	ely .
uilding Department:		
stems Acceptance. Before an occupancy permit is granted for a newly of	onstructed building or space, or	a new space-conditioning
stem serving a building or space is operated by normal use, all control device		
Acceptance Requirements for Code Compliance. In addition a Certificate of	Acceptance, MECH-1-A, Forms	shall be submitted to the
ilding department that:		
A. Certifies plans, specifications, installation certificates, and operating	and maintenance information m	eet the requirements of
§10-103(b) and Title 24, Part 6.		
est Description		Test Performed By:
√ X LTG-2-A: Lighting Control Acceptance Document		
X E10-2-7. Lighting Control Acceptance Document		
Occupancy Sensor Acceptance		
 Manual Daylight Controls Acceptance 		
Automatic Time Switch Control Acceptance		
uipment requiring acceptance testing Occupancy Sensors		
diplinent requiring acceptance testingOccupancy Sensors		ELECTRICIAN
√ LTG-3-A: Automatic Daylighting Controls Acceptance Docu	ıment	
uipment requiring acceptance testing		

CERTIFICATE	E OF COMPLIA	ANCE (Pa	art 3 of 4)	LI	G-1-(
ROJECT NAME	COLLEGE OF SAN		CATE	27-Aug-09	1
ONROLS FOR CREDIT	T IN CONDITIONED AND	UNCONDITIONED SPACES	E		
The same of the sa	The state of the s	CONTROL TYPE	LUMINAIRE	S CONTROLLED	NOTE
CONTROL LOCATION	CONTROL	(Occ Sensor, Daylight, Dimming,		# OF	TO
(Room # or Dwa #)	IDENTIFICATION	etc)	TYPE	LUMINAIRES	FIELD
OFFICES	◆ ◆	OCCUPANCY SENSORS	ALL	ALL	7 1 2 2 2 2
RESTROOMS		1			
MDF ROOM					
MEETING RM					
WORK RM					
BREAK RM					
CUSTODIAN					
		<u> </u>			
			-		
				-	
			<u> </u>		
			E .		
			1		

(Part 2 of 2)

CERTIFICATE PROJECT NAME		AN MATEO BLDG 17	(Part 2 of 4)		<u>LTG</u>
				27-Aug-09	
INSTALLED INTERIOR L	IGHTING POWER	FOR CONDITIONED AN	D UNCONDITIONED S	SPACES	
					INSTA WAT
	INSTA	LLED LIGHTING, CON	DITIONED SPACES	(From LTG-2-C)	1017
		POR	TABLE LIGHTING (F	rom LTG-3-C) +	C
	LIGHTING CON	TROL CREDIT, COND	TIONED SPACES (F	rom LTG-4-C) -	926
	CONDITIO	NED SPACE ADJUSTE	D INSTALLED LIGH	TING POWER =	924
					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	INSTALLE	ED LIGHTING, UNCON	DITIONED SPACES	(From LTG-2-C)	C
L	IGHTING CONTR	OL CREDIT, UNCOND	TIONED SPACES (F	rom LTG-4-C) -	-
		NED SPACE ADJUSTE	7	,	1/2
	THE PERSON NAMED TO PERSON	e transcenter that a state and t many to the the a man.		THE THE POPULATION OF THE PROPERTY OF THE POPULATION OF THE POPULA	<u> </u>
ALLOWED INTERIOR LI	GHTING POWER F	OR CONDITIONED SPA	CES		
V					
COMPLETE	BUILDING METHO	DD (from LTG-5-C)			
AREA CATE	GORY METHOD (f	rom LTC E C\			
X AKEY CATE	CONT MICHOD (I	rom Lio-a-c)			
TAIL ORFD !	METHOD (from LT	'G-5-C1			
- IALUILUI	METHOD (HOME)	<i>0-0-0</i> ,			ALLC
			ALLOWED LIC		WA1
ALTERNATE COMPLIAN	1/*C		ALLUVVED LIG	HTING POWER	1206
V V	R*₩FE				
PERFORMA	NCE METHOD				
COMMONG	I ICHTING SYSTEI	M (from LTG-8-C)			
A		R FOR UNCONDITIONED SP	ACES (From LTG-5-C)		watts
					Wallo
MANDATORY LIGHTING					
MANDATORY INTERIOR		GAUTOMATIC CONTR	OLS		
MANDATORY INTERIOR CONTROL LOCATION		IG AUTOMATIC CONTR CONTROL TYPE		√ If Control is	
CONTROL LOCATION (Room #, Area #, or	AND DAYLIGHTIN	G AUTOMATIC CONTR CONTROL TYPE (Auto Time Switch, Dimming,	OLS SPACE CONTROLLED List the location of	If Control is	NOTE
CONTROL LOCATION (Room #, Area #, or Description	AND DAYLIGHTIN CONTROL IDENTIFICATION	G AUTOMATIC CONTR CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.)	OLS SPACE CONTROLLED List the location of controlled lights	If Control is	
CONTROL LOCATION (Room #, Area #, or Description OFFICES, REST RMS	AND DAYLIGHTIN	G AUTOMATIC CONTR CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.) OCCUPANCY	OLS SPACE CONTROLLED List the location of	If Control is	
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CONTROL LOCATION (Room #, Area #, or Description OFFICES, REST RMS EQUP RMS MEET/WRK RMS	AND DAYLIGHTIN CONTROL IDENTIFICATION	GAUTOMATIC CONTR CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.) OCCUPANCY SENSORS W/ DUAL LEVEL	OLS SPACE CONTROLLED List the location of controlled lights	If Control is	NOTE FIE
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CONTROL LOCATION (Room #, Area #, or Description OFFICES, REST RMS EQUP RMS MEET/WRK RMS BREAK/CUSTODIAN BREAK/CUSTODIARY	CONTROL IDENTIFICATION	GAUTOMATIC CONTR CONTROL TYPE (Auto Time Switch, Dimming, Photosensor, etc.) OCCUPANCY SENSORS W/ DUAL LEVEL SWITCHING OVERRIDE BUILDING	SPACE CONTROLLED List the location of controlled lights ENTIRE AREA	If Control is	
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CERTIFICATE OF	COMPLIANCE	(Part 1 of 4)	ł	LTG-1
PROJECT NAME			DATE	
	N MATEO BLDG 17		27-Aug	-09
PROJECT ADDRESS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18. 18. 18. 18. 18. 18. 18. 18. 18. 18.		
1700 WEST I	HILLSDALE BLVD. SAN	MATEO, CA. TELEPHONE	Building	Decod
PRINCIPAL DESIGNER - LISHTING MILES I	SEDI	(408) 808-8000	Building	Hermit
DOCUMENTATION AUTHOR	7-4F Rain F 14 B	TELEPHONE	- Chacked	I by/Date
GORDON W	/ILLIAMS	(408) 808-8000		nent Agency Us
GENERAL INFORMATION		1 - 2		•
DATE OF PLANS	8/27/09 BUILDING CONDIT	ONED FLOOR AREA 11,860	CLIMATE ZONE	3
BUILDING TYPE	[.7] NONRESIDENTIAL [7]	IGH RISE RESIDENTIAL	THOTEL MOT	EL GUEST
CONDITIONED SPACES	UNICONDITIONED SPACES	3 INDOOR/OUTDOOR SIGNS		
PHASE OF CONSTRUCTION		ADDITION JALTERATION		
METHOD OF COMPLIANCE	<u></u>			
□ PERFORMANCE □ COMPLI	ETE BUILDING VAREA	CATEGORY TALORED	COMMON LIGH	fing .
STATEMENT OF COMPLIANCE	lii	er commercial [1] is the set milit	kommil nevertarres memori:	0 1 00 T THE
This Certificate of Compliance lists		a programming any processing last group programming that you be bounded to be a returned to the contract of th	eeska sariibba Tiikal - Maada	the Brand E
California Code of Regulations. Thi	· · · · · · · · · · · · · · · · · · ·		ithiy with 124, Parts	s i diliu o ui tile
DOCUMENTATION AUTHOR GORDON WILLIAMS	-		DATE	27-Aug-09
The Principal Lighting Designer her	eby certifies that the proposed	building design represented in this	set of construction	n documents is
The plans & specifications mer requirements of Part 6 (10-103	3a 3).		lation certificates m	neet the
requirements of Part 6 (10-103 The operation & maintenance Pease check one: (These se I hereby affirm that I am eligible person responsible for its pre am a licensed architect. I affirm that I am eligible under document as the person response I affirm that I am eligible under	information meet the requirementations of the Business and Pro- e under the provisions of Divisionaration; and that I am licensed the provisions of Division 3 of consible for its pereparation; an		the Nonresidential I Code to sign this do engineer or electric esection 5537.2 or erforming this work.	Manual.) cument as the cal engineer, or I 6737.3 to sign the
requirements of Part 6 (10-103 The operation & maintenance Please check one: (These se I hereby affirm that I am eligible person responsible for its pre am a licensed architect. I affirm that I am eligible under document as the person response I affirm that I am eligible under or type of w ork described as	information meet the requirement ctions of the Business and Pro- e under the provisions of Divis paration; and that I am licensed the provisions of Division 3 of onsible for its pereparation; an Division 3 of the Business and exempt pursuant to Business	ents of Part 6 (10-103c). fessions Code are printed in full in ion 3 of the Business Professions of in the State of California as a civil the Business Professions Code by dithat I am a licensed contractor per Professions Code to sign this doc	the Nonresidential Code to sign this do engineer or electric section 5537.2 or erforming this work. ument because it p 37, 5538, and 6737	Manual.) comment as the cal engineer, or life 6737.3 to sign the ertains to a struct.1.
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1 7	IGHTING POWER ALLOWAN	CE		LTG-5-C
PROJECT NAME	COLLEGE OF SAN MATEO BLDG 1	7 DATE	27-Aug-09	
ALLOWED LIGHTING	POWER (Choose One Method)			
COMPLETE BUILDIN	IG METHOD - CONDITIONED SPACES			
		WATTS	COMPLETE	ALLOWED
BUILDING	CATEGORY (From § 146 Table 146-B)	PER (ft ²)	BLDG. AREA	WATTS
AREA CATEGORY M	ETHOD - CONDITIONED SPACES			
	Α	В	C	D
		WATTS	AREA	ALLOWED
	AREA CATEGORY	PER (ft ²)	(ft ²)	WATTS
	OFFICES	1.2	6141	7369.2
CORRIDC	PR/SUPPORT AREA / RESTROOMS	0.6	3197	1918.2
£	MDF ROOM	1.3	63	81.9
LOU	NGE/RECREATION (ACTIVITY)	1.1	2235	2458.5
	MECHANICAL ROOM BREAK ROOM	0.7	34 190	23.8 209.0
	BREAK ROOM	1.1	130	203.0

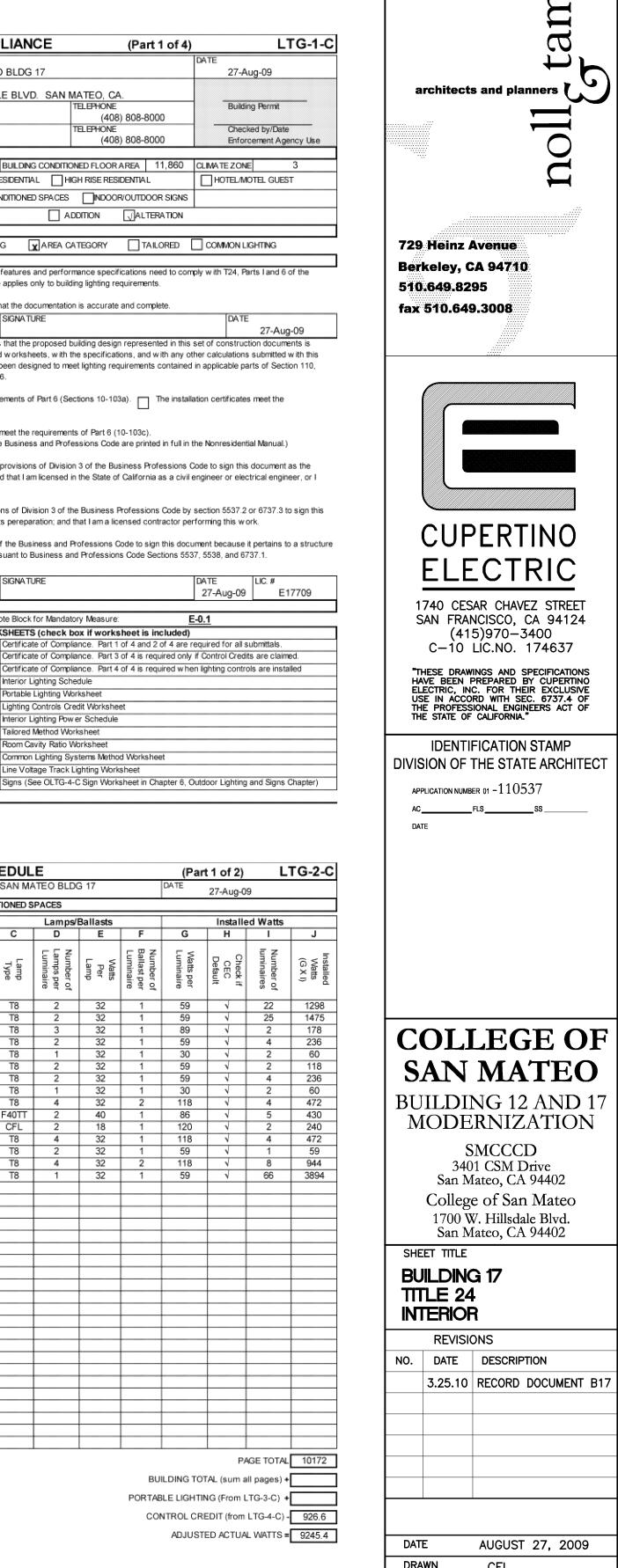
			11860	12060.6
		TOTALS:	AREA	WATTS
TAILORED METHOD	-CONDITIONED SPACES			
		TOTAL ALLO	OWED WATTS	
			(From LTG-6-C)	
	PACES			
UNCONDITIONED SE	A	В	C	D
UNCONDITIONED SE	7.1		the comme control on	ALLOWED
Complete	e Building and Area Category Methods ORY (From § 146 Table 146-B & C)	WATTS PER (ft²)	AREA (ft²)	WATTS
Complete	Building and Area Category Methods			
Complete	e Building and Area Category Methods ORY (From § 146 Table 146-B & C)			
Complete	e Building and Area Category Methods ORY (From § 146 Table 146-B & C)			
Complete	e Building and Area Category Methods ORY (From § 146 Table 146-B & C)			
Complete	e Building and Area Category Methods ORY (From § 146 Table 146-B & C)			
Complete	e Building and Area Category Methods ORY (From § 146 Table 146-B & C)			
Complete	e Building and Area Category Methods ORY (From § 146 Table 146-B & C)			
Complete	e Building and Area Category Methods ORY (From § 146 Table 146-B & C)			

		NDITIONED SPA	·	T	1		I	I a:	
Α	В	С	D	E	F	G	H		J
ROOM#, ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REFERENCE	ROOM AREA (ft2)	WINDOW WALL RATIO1	GLAZING VLT	SKYLIHGT EFFECTIVE APERTURE	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR ²	CONTRO CREDI WATT: (HXI)
17-132	OCC SENSOR	•	155	-			118	0.2	23.6
17-133			155				118	0.2	23.6
17-134			155				118	0.2	23.6
17-135			155				118	0.2	23.6
17-140			153				118	0.2	23.6
17-142			153				118	0.2	23.6
17-144			153				118	0.2	23.6
17-146			153				118	0.2	23.6
17-148			153				118	0.2	23.6
17-150			153				118	0.2	23.6
17-152			153				118	0.2	23.6
17-153			66				30	0.2	6
17-154			153				118	0.2	23.6
17-156			153				118	0.2	23.6
									0
									0
									0
									0
									0
									0
									0
From Equation	on 146-A		4			E			
From Table	146-A			PΔ	GE TOTAL			-	312.8
				BUILD	NG TOTAL			-	926.6

LIGHTING CONTROLS CREDIT WORKSHEET

		PROJECT NAME		COLLEGE OF	SAN MAT	EO BLDG	17	DATE	27-Aug-09		
		CONTROL CRE	DITS FOR CONDIT	TIONED SPACES	3						
T	J	Α	В	С	D	E	F	G	Н	ı	J
T	CONTROL CREDIT WATTS (H X I)	ROOM#, ZONE ID CONDITIONED A REA S	LIGHTING CONTROL DESCRIPTION	PLAN REFERENCE	ROOM AREA (ft2)	WINDOW WALL RATIO ¹	GLAZING VLT	SKYLIHGT EFFECTIVE APERTURE	WATTS OF CONTROL LIGHTING	LIGHTING ADJUSTMENT FACTOR ²	CONTF CRED WAT (HX
	23.6		OCCUPANCY	A							
	23.6	17-101	SENSOR	<u> </u>	153	-	# 	**	118	0.2	23.
	23.6	14-103			153				118	0.2	23.
	23.6	17-105			153				118	0.2	23
T	23.6	17-107			153				118	0.2	23.
T	23.6	17-109			153				118	0.2	23.
T	23.6	17-110			153				118	0.2	23.
-	23.6	17-111			153				118	0.2	23.
-	23.6	17-112D			157				118	0.2	23
ł	23.6	17-112E			98				118	0.2	23
╁		17-112F			98				118	0.2	23
╀	23.6	17-113			200				178	0.2	35
l	6	17-114			176				177	0.2	35
	23.6	17-115			227				118	0.2	23
_	23.6	17-120			155				118	0.2	23
	0	17-121			155				118	0.2	23
	0	17-122			155				118	0.2	23
	0	17-123			155				118	0.2	23
	0	17-124			155				118	0.2	23
_	0	17-125			155				118	0.2	23 23
-	0								118		23 23
	0	17-126			155					0.2	
		17-127			155				118	0.2	23
	312.8	17-128			155				118	0.2	23
•	VIE.V	17-129			155				118	0.2	23
	926.6	17-130			155				118	0.2	23
		17-131	<u> </u>	<u> </u>	155		<u> </u>		118	0.2	23
		1) From Equation	on 146-A								
		2) From Table				P.	AGE TOTAL				613
										-	
						BUILD	ING TOTAL	TG-2-C: Light			613

	R LIGHTING SC						t 1 of 2)	L	TG-2
PROJECT NAME				<i>3</i> 17		DATE	27-Aug-0	9	
NSTALLED L	IGHTING POWER FOR CON	OITIONED S							
	Luminaire		Lamps/					ed Watts	y
Α	В	С	D	E	F	G	H	l	4
Name	Type Description	Type	Number of Lamps per Luminaire	Per Lamp	Number of Ballast per Luminaire	Watts per Luminaire	Check if	Number of	(GX)
A	SEE FIXTURE	T8	2	32	4	59	N	22	129
В	SCHEDULE	T8	2	32	1	59	V	25	14
81	İ	T8	3	32	1	89	T	2	17
C1		T8	2	32	1	59	\ \	4	23
C2		T8	1	32	1	30	V	2	64
D T		T8	2	32	1	59	٧	2	11
F		T8	2	32	1	59	V	4	23
F1		T8	1	32	1	30	V	2	64
G		T8	4	32	2	118	¥	4	47
Н		F40TT	2	40	1	86	₩	5	43
L		CFL	2	18	1	120	*	2	24
M		T8	4	32	1	118	N	4	47
D1		T8	2	32	1	59	V	1	59
K		Tå	4	32	2	118	₩	6	94
R	V	T8	1	32	1	59	¥	66	38
									ļ
									
		-							
		_					-		
									
		1	<u> </u>			<u> </u>			<u></u>
							p ₁	4GE TOTAL	101
					RU	ILDING TO			<u> </u>
						BLE LIGHTIN			
						NTROL CRI			
					しい	ninul UKI	=DII (⊞OM	L113-베-나) -	926
						ADJUST	ED ACTUA	L WATTS =	924



ARCHITECT OF RECORD

3.25.10 RECORD DOCUMENT B17

DRAWN CEI CHECKED CEI SCALE NONE N&T JOB NO.: 2901

SHEET NUMBER

THE ARTS A STORY AND ASSESSED.	LTAGE						AND T MAKE SHIP		LTG-9-
ROJECT NAME		COLLEG	E OF SA	N MATEO BL	.DG 17		DATE	27-Aug-09	
√ 🔲 МЕ	ETHOD 1 -	VOLT-AI	MPERE (V	/A) RATING (OF THE B	RANCH (CIRCUIT(S) FEEDI	NG THE TRAC	KS
Α			В		A (con	tinued)	B (contir	nued)	С
BRANCH C	IRCUIT	L VOLT-	AMPERE (VA) RATING	BRANCH	CIRCUIT	VOLT-AMPERE (VA) RATING	ADD BOTH SU
NAME O		3	-	H CIRCUIT	NAME		OF THE BRANC		TOTALS
	SU	JB TOTAL			SL	IB TOTAL		TOTAL	
المال	ETHOD 2 -				TED WATT	AGE OF A	LL OF ALL LUMINAI	RES	
Α		90 90 90 90 90 90 90 90 90 90 90 90 90 9	В		С	D	E		F
							TOTAL RATED	Ι ΔΙ	RGER
TRAC	:K#	1	INEAR FE	ETOF		вхс	WATTAGE OF		OF
OR NA			TRACI		(W/LF)	(W)	ALL LUMINAIRES		OR E)
TRAC			10		45	450	120		450
TRAC	K2		10		45	450	120		450
					45 45				
		<u></u>			<u> </u>				
								TOTAL	900
SE TIER 2 V (b) The spe	TO USE TI FOR TIER 1 ALUE	ALL OF T	OD) HE FOLLO ation exclu	DWING STATE	MENTS (3b	o & 3c & 3d	d) MUST BE TRUE. I	F ANY FALSE T	
OMMISSION O QUALIFY F SE TIER 2 V (b) The spe (c) The trac program (d) At time c linear foo	FOR TIER 1 /ALUE ecifications ack in not contained load of fins pection at.	ALL OF To and install nnected to d types. n the actual	ation exclusion addition addition addition addition additional installed	DWING STATE usively include of any kind, in I wattage of hig	MENTS (3b only high cluding pre gh efficacy	efficacy lui eset contre	d) MUST BE TRUE. I	F ANY FALSE T in § 150 (k) 1. lules that have than 7.5 watts	HEN per
OMMISSION O QUALIFY F SE TIER 2 V (b) The spe (c) The trac program (d) At time c linear foo JSE THE HI 25 WATTS P	FOR TIER 1 /ALUE ecifications a eck in not cor mable load of inspection it. IGHER OF ER LINEAR	ALL OF TO and install nnected to d types. n the actual VA RATI	ation exclusion addition addition addition addition additional installed	usively include of any kind, in d wattage of hig	MENTS (3th only high of cluding pro gh efficacy RENT LIMI	efficacy lui eset contre	minaires as defined oller or dimmer mod s is equal to or more	F ANY FALSE T in § 150 (k) 1. lules that have than 7.5 watts	HEN per
OMMISSION O QUALIFY F SE TIER 2 V (b) The spe (c) The trac program (d) At time c linear foo	FOR TIER 1 /ALUE ecifications ack in not contained load of fins pection at.	ALL OF To and install nnected to d types. n the actual	OD) HE FOLLO ation exclusion a dimmer al installed NG OF INTER 2	DWING STATE usively include of any kind, in I wattage of hig	MENTS (3b only high cluding pre gh efficacy	efficacy lui eset contro luminaire: TER, 15 W	d) MUST BE TRUE. I minaires as defined oller or dimmer mod s is equal to or more	F ANY FALSE T in § 150 (k) 1. lules that have than 7.5 watts	per R 1, OR
OMMISSION O QUALIFY F SE TIER 2 V (b) The spe (c) The trac program (d) At time c linear foo JSE THE HI 25 WATTS P	TO USE TI FOR TIER 1 /ALUE ecifications a ck in not con mable load of inspection it. IGHER OF ER LINEAR	ALL OF TO and install nnected to d types. n the actual VA RATI	ation exclusion addition addition addition and installed additional additiona	DWING STATED usively include of any kind, in wattage of high E E "Tier 1" if b, c, and d =	only high cluding pregners of the control of the co	efficacy lui eset contre luminaire FER, 15 W G LINEAR FEET	minaires as defined oller or dimmer modes is equal to or more	in § 150 (k) 1. lules that have than 7.5 watts FOOT FOR TIE!	per R 1, OR
OMMISSION O QUALIFY F SE TIER 2 V (b) The spe (c) The trac program (d) At time c linear foo JSE THE HI 25 WATTS P	TO USE TI FOR TIER 1 /ALUE ecifications ack in not con mable load of inspection t. IGHER OF ER LINEAR	ALL OF TO A L OF TO A ALL OF T	ation exclusion addition addition exclusion addition and installed the second s	DWING STATED usively include of any kind, in wattage of high E E "Tier 1" if b, c, and d = True,	only high cluding pregners of the control of the co	efficacy lui eset contro luminaire G LINEAR FEET OF	minaires as defined oller or dimmer modes is equal to or more. H TOTAL	in § 150 (k) 1. lules that have than 7.5 watts FOOT FOR TIEF	per R 1, OR CHOOSE
OMMISSION O QUALIFY F SE TIER 2 V (b) The spe (c) The trac program (d) At time c linear foo JSE THE HI 25 WATTS P	FOR TIER 1 (ALUE cifications and commable load of inspections). IGHER OF ER LINEAR IF 3 (b)	ALL OF TO ALL OF T	ation exclusion addinger and installed D	DWING STATES usively include of any kind, in wattage of high E "Tier 1" if b, c, and d = True, Otherwise	only high cluding pregners of the cluding predners of	efficacy lui eset contro luminaire G LINEAR FEET OF TRACK	minaires as defined oller or dimmer modes is equal to or more. H TOTAL Watts	in § 150 (k) 1. lules that have than 7.5 watts FOOT FOR TIE! VA RATING OF CURRENT LIMITER	per R 1, OR J CHOOSE LARGER OF
OMMISSION O QUALIFY F SE TIER 2 V (b) The spe (c) The trac program (d) At time c linear foo JSE THE HI 25 WATTS P	TO USE TI FOR TIER 1 /ALUE ecifications ack in not con mable load of inspection t. IGHER OF ER LINEAR	ALL OF TO A L OF TO A ALL OF T	oD) HE FOLLO ation exclusion addinated installed NG OF INTER 2 D IF 3 (d) = TRUE	DWING STATED usively include of any kind, in wattage of high E E "Tier 1" if b, c, and d = True,	only high cluding pregners of the cluding predners of	efficacy lui eset contro luminaire G LINEAR FEET OF	minaires as defined oller or dimmer modes is equal to or more. H TOTAL	in § 150 (k) 1. lules that have than 7.5 watts FOOT FOR TIEF	per R 1, OR CHOOSE
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MANDATORY MEASURES - 2005 NONRESIDENTIAL COMPLIANCE

BUILDING LIGHTING SHUT-OFF - NOT APPLICABLE
THE BUILDING LIGHTING SHUT OFF SYSTEM CONSISTS OF AN AUTOMATIC LINE
SWITCH, WITH A ZONE FOR EACH FLOOR; OR THE BUILDING IS SEPARATELY
METERED AND EXEMPT FROM THE SHUT-OFF REQUIREMENT

DESCRIPTION OF THE AUTOMATIC BUILDING LIGHTING SHUT-OFF - NOT APPLICABLE

THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL,

ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF

OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET.

- AUTOMATIC CONTROL DEVICES CERTIFIED
 ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE
 EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE
 MANUFACTURER.
- FLUORESCENT BALLAST AND LUMINARIES CERTIFIED

 ALL FLUORESCENT FIXTURES SUBJECT TO CERTIFICATION AND SPECIFIED FOR THE PROJECTS ARE CERTIFIED.
- INDIVIDUAL ROOM/AREA CONTROLS

 EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR TO CEILING WALLS.
- UNIFORM REDUCTION FOR INDIVIDUAL ROOMS.

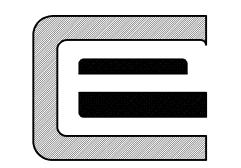
 ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8

 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH

 MULTI—LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
- DAYLIT AREA CONTROL NOT APPLICABLE
 ALL ROOMS THAT ARE GREATER THAN 250 SQUARE FEET AND CONTAIN WINDOW
 AND SKYLIGHTS, THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA
 SHALL HAVE 50% OF THE LIGHTING POWER IN EACH DAYLIT AREA CONTROLLED BY
 A SEPARATE SWITCH; OR
- THE EFFECTIVE USE OF DAYLIGHT THROUGHOUT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF YEAR IS INCLUDED ON PLANS.

architects and planners

729 Heinz Avenue Berkeley, CA 94710 510.649.8295 fax 510.649.3008



CUPERTINO ELECTRIC

1740 CESAR CHAVEZ STREET SAN FRANCISCO, CA 94124 (415)970-3400 C-10 LIC.NO. 174637

"THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED BY CUPERTINO ELECTRIC, INC. FOR THEIR EXCLUSIVE USE IN ACCORD WITH SEC. 6737.4 OF THE PROFESSIONAL ENGINEERS ACT OF THE STATE OF CALIFORNIA."

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 -110537

AC_______FLS______SS_____
DATE

COLLEGE OF SAN MATEO

BUILDING 12 AND 17 MODERNIZATION

SMCCCD 3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd. San Mateo, CA 94402

SHEET TITLE
BUILDING 17
TITLE 24

REVISIONS

NO. DATE DESCRIPTION

3.25.10 RECORD DOCUMENT B17

DATE AUGUST 27, 2009

DRAWN CEI

CHECKED CEI

NONE

N&T JOB NO.: 2901
SHEET NUMBER

SCALE

E-0.1.2

LIGHTING COMPLIA	NCE S	UMMA	\RY						(Par	t 1 of	4)		OLT	G-2-C
PROJECT NAME											D	ATE		
COLLEGE OF SAN MATEO												()8/27/09	}
LIGHTING POWER ALLOWAN				IINATI	ON - (Table 147-A)									
		llotted Wat	·		Luminaire	.	<u> </u>	.amps/	//		-		led Wat	
A	В	С	D	E	F	G	Н	1	J	K	L	М	N	0
Lighting Applications Category (Table 147-A)	Area (ft²) or Length (LF)	Alotted LPD W/ft ² or W/LF	Alotted Watts (B x C)	Code for Luminaire (Type)	Description	Cutoff Designation	Lamp Type	Number of Lamps per Luminaire	Watts per Lamp	Number of Ballasts per Luminaire	1	Check if CEC Default		Installed Watts (L × N)
NORTH FAÇADE	1452	0.17	246.84	N	FLUOR. WALL PACK	FULL	FLR	1	70	1	75		3	225
SOUTH FAÇADE	1452	0.17	246.84	N				1	70	1	75	<u> </u>	3	225
EAST FAÇADE	2208	0.17	375.36	N O				1	70 42	1	75 46	!	6 2	450 92
WEST FAÇADE	1392	0.17	236.64					1	70	1	40 75		2	150
PEDESTRIAN WALKWAY	2880	0.17	489.60	N				1	70	1	75	-	6	450
		W- 11			<u> </u>	<u> </u>	<u> </u>	"		*	1	¥		
														-

	Total Allo	tted Watts	1595.3								Total Ir	nstalled	l Watts	1592.0

	OF COMPLIAN	NCE (P	art 2 of 2)	OLTG-1-C
PROJECT NAME				
COLLEGE OF SAN	MATEO BLDG 17			
Lighting Schedules on I	Plans show that Outdoo	r Lighting Meets Allowed Light	ng Power	
/				
X Lighting power allow an	nces for general site illumina	tion on OLTG-2-C Part 1 of 4		
☐ Not Applicable				
Lighting pow er allow an	nces for local ordinances or	for security multipliers on OLTG-2-0	Part 2 of 4	
Not Applicable				
toming.	nces for specific application	s, other than vehicle service station	s with canopies on OLTG-:	2-C Part 3 of 4
Not Applicable				
	nces for vehicle service stat	tion canopies on OLTG-2-C Part 4 of	4	
X Not Applicable				
Sign lighting compliance	e on OLTG-4-C			
Not Applicable				
Not Applicable	has been determined in acc	cordance with § 130©1		
controlled by a motion s X Not Applicable All luminaires with lamp all outdoor sales areas X Not Applicable All installed outdoor light X Not Applicable	sensor § 132(a) os rated greater than 175 was mee the Cutoff Requiremen		arking lots, building entrand	es, canopies, and
controlled by a motion s X Not Applicable All luminaires w ith lamp all outdoor sales areas Not Applicable All installed outdoor ligh Not Applicable Building facades, parkir Not Applicable	sensor § 132(a) os rated greater than 175 was mee the Cutoff Requiremen nting meets the Control Requiremen ng lots, garages, canopies,	atts in hardscape areas, including parts of § 132(b)	arking lots, building entrand	es, canopies, and
controlled by a motion s X Not Applicable All luminaires w ith lamp all outdoor sales areas Not Applicable All installed outdoor ligh Not Applicable Building facades, parkir Not Applicable	sensor § 132(a) os rated greater than 175 was mee the Cutoff Requiremen nting meets the Control Requiremen ng lots, garages, canopies,	atts in hardscape areas, including parts of § 132(b) sirements of § 132(c)1 and outdoor sales areas meet the M	arking lots, building entrand	es, canopies, and
controlled by a motion s X Not Applicable All luminaires w ith lamp all outdoor sales areas Not Applicable All installed outdoor ligh Not Applicable Building facades, parkir Not Applicable	sensor § 132(a) os rated greater than 175 was mee the Cutoff Requirementing meets the Control Requirementing lots, garages, canopies,	atts in hardscape areas, including parts of § 132(b) irrements of § 132(c)1 and outdoor sales areas meet the M CONTROL TYPE	arking lots, building entrand	nents of § 132(c)2
controlled by a motion s X Not Applicable All luminaires w ith lamp all outdoor sales areas X Not Applicable All installed outdoor ligh X Not Applicable Building facades, parkir Not Applicable MANDATORY AUTOMAT	sensor § 132(a) os rated greater than 175 was mee the Cutoff Requirementing meets the Control Requirementing meets the Control Requirementing lots, garages, canopies, sometimes of Controls	atts in hardscape areas, including parts of § 132(b) irrements of § 132(c)1 and outdoor sales areas meet the M CONTROL TYPE (Auto Time	arking lots, building entrand	nents of § 132(c)2
controlled by a motion s X Not Applicable All luminaires with lamp all outdoor sales areas X Not Applicable All installed outdoor light X Not Applicable Building facades, parkin Not Applicable MANDATORY AUTOMAT CONTROL LOCATION	sensor § 132(a) os rated greater than 175 was mee the Cutoff Requirementing meets the Control Requirementing meets the Control Requirementing lots, garages, canopies, CONTROLS CONTROL IDENTIFICATION	atts in hardscape areas, including posts of § 132(b) irements of § 132(c)1 and outdoor sales areas meet the M CONTROL TYPE (Auto Time Switch/Photosensor etc)	arking lots, building entrand ulit-Level Lighting Requiren	nents of § 132(c)2 NOTE TO FIELD
controlled by a motion s X Not Applicable All luminaires w ith lamp all outdoor sales areas X Not Applicable All installed outdoor ligh X Not Applicable Building facades, parkir Not Applicable MANDATORY AUTOMAT	sensor § 132(a) os rated greater than 175 was mee the Cutoff Requirementing meets the Control Requirementing meets the Control Requirementing lots, garages, canopies, sometimes of Controls	atts in hardscape areas, including parts of § 132(b) irrements of § 132(c)1 and outdoor sales areas meet the M CONTROL TYPE (Auto Time	arking lots, building entrand	nents of § 132(c)2 NOTE TO FIELD

COLLEGE OF SAN MATEO BLDG 17 PROJECT ADDRESS 1700 W. HILLSDALE BLVD. SAN MATEO PRINCIPAL DESIGNER - LIGHTING (415) 808-8000 DOCUMENTATION AUTHOR (415) 808-8000 DOCUMENTATION AUTHOR GORDON WILLIAMS BIRTHONE (415) 808-8000 Checked by/I Enforcement PRINCIPAL INFORMATION DATE OF FLANS 8/27/09 OUTDOOR LIGHTING ZONE (CONE) 121 122 2 2 2 2 3 FUNCTION TYPE 2 CUTDOOR LIGHTING OUTDOOR SIGNS INDOOR SIGN FUNCTION TYPE 3 CUTDOOR LIGHTING OUTDOOR SIGNS INDOOR SIGN PHASE OF CONSTRUCTION NEW ADDITION ALTERATION STATEMENT OF COMPLIANCE This Certificate of Compliance light ing system specifications need to comply with Title 24, Parts 1 and 6 of to 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 GORDON WILLIAMS 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 an calculations submitted with this permit application. The proposed building has been designed to meet lighting requirements of applicable parts of Section 110, 119, 130-132, 146, 148, & 149 of Title 24, Part 6. Please one: 1 I hereby affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this doc as the person responsible for its preparation: and that I am a lincensed contractor performing this work. 1 I affirm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this document by pertains to a structure or type of work described as exempt pursuant to Business and Professions Code to sign this document by pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537 6737.1. (These sections of the Business and Professions Code are prin	PROJECT NAME	999-					DATE	
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DATE OF PLANS 8/27/09 OUTDOOR LIGHTING ZONE (/ One) LZ1 LZ2 LZ3 LZ3 PUNCTION TYPE CM OUTDOOR LIGHTING OUTDOOR SIGNS INDOOR SIGNS I						(415) 808-8000	Enforce	ement A
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PHASE OF CONSTRUCTION NEW ADDITION NEW ALTERATION STATEMENT OF COMPLIANCE This Certificate of Compliance lists the cutdoor lighting system specifications need to comply with Title 24, Parts 1 and 6 of to 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 GORDON WILLIAMS 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 an calculations submitted with this permit application. The proposed building has been designed to meet lighting requirements of applicable parts of Section 110, 119, 130-132, 146, 148, 8 149 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 electron I am a lincensed architect. Laffirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.2 or 6 this document as the person responsible for its preparation; and that I am a lincensed contractor performing this work. Laffirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537.7.1 or 6 this document as the person responsible for its preparation; and that I am a lincensed contractor performing this work. RINCPAL LICHTING DESIGNER-NAME				F				
This Cortificate of Compliance lists the outdoor lighting system specifications need to comply with Title 24, Parts 1 and 6 of to California Code of Regulations. This certificate applies only to building lighting requirements. The documentation preparer hereby certifies that the documentation is accurate and complete. DATE GORDON WILLIAMS DATE GORDON WILLIAMS SISNATURE GORDON WILLIAMS SISNATURE GORDON WILLIAMS DATE GORDON WILLIAMS SISNATURE GORDON WILLIAMS OBJECT The Principal Lighting Designer hereby certifies that the proposed outdoor lighting and signs design represented in this set oconstruction documents is consistent with the other compliance forms and worksheets, with the specifications, and with an calculations submitted with this permit application. The proposed building has been designed to meet lighting requirements of applicable parts of Section 110, 119, 130-132, 146, 148, 8, 149 of Title 24, Part 6. Please ✓ one: If Interest a firm that I am eligible under the provisions of Division 3 of the Business and Professions Code to sign this doc as the person responsible for its preparation; and that I am licensed in the State of California as a civil engineer or electror I am a incensed architect I laffirm that I am eligible under the provisions of Division 3 of the Business and Professions Code by section 5537 2 or 6 this document as the person responsible for its preparation; and that I am a lincensed contractor performing this work. I laffirm that I am eligible under the provisions of Division 3 of the Business and Professions Code be sign this document to pertains to a structure or type of work described as exempt pursuant to Business and Professions Code Sections 5537 6737.1. (These sections of the Business and Professions Code are printed in full in the Nonresidential Manual.) PRINCIPAL LIGHTING DESIGNER-NAME MILES I SERI INSTRUCTIONS TO APPLICANT OUTDOOR LIGHTING COMPLIANCE & WORKSHEETS (✓ box if worksheet is PolyZorion Section of the United Profession Code Section Section Section			N OUTDO				☐ INDOOF	RSIGN
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DIVISION OF THE STATE ARCHITECT APPLICATION NUMBER 01 -110537

April 2005

July 2005

CUPERTINO

1740 CESAR CHAVEZ STREET SAN FRANCISCO, CA 94124 (415)970 - 3400C-10 LÍC.NO. 174637

IDENTIFICATION STAMP

ARCHITECT OF RECORD

729 Heinz Avenue

510.649.8295

fax 510.649.3008

Berkeley, CA 94710

MANDATORY MEASURES: (OUTDOOR)

DETERMINING INSTALL LIGHTING POWER: NOT APPLICABLE.

• INSTALLED LIGHTING POWER HAS BEEN DETERMINED IN ACCORDANCE WITH §130(c)1.

2005 Nonresidential Compliance Forms

CONTROL FOR INEFFICIENT LIGHTING SYSTEMS: NOT APPLICABLE.

• ALL OUTDOOR LUMINAIRES WITH LAMPS RATED OVER 100 WATTS MUST EITHER. HAVE A LAMP EFFICACY OF AT LEAST 60 LUMENS PER WATT; OR BE CONTROLLED BY A MOTION SENSOR (132(a)).

OUTDOOR LUMINAIRE CUTOFF: NOT APPLICABLE.

• OUTDOOR LUMINAIRES THAT USE LAMPS RATED GREATER THAN 175 WATTS (132(b)) IN THE HARDSCAPE AREAS, PARKING LOTS, BUILDING ENTRANCES, CANOPIES AND ALL OUTDOOR SALES AREAS WILL BE REQUIRED TO BE DESIGNATED CUTOFF IN A PHOTOMETRIC TEST REPORT THAT INCLUDES ANY TILT OR OTHER NON-LEVEL MOUNTING CONDITIONS.

CONTROL TO TURN OFF THE LIGHTS DURING THE DAY:

 ALL PERMANENTLY INSTALLED OUTDOOR LIGHTING MUST BE CONTROLLED BY A PHOTOMETRIC SWITCH OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE (132(c)1). EXISTING BUILDING MANAGEMENT SYSTEM.

CONTROL TO PROVIDE THE OPTION TO TURN OFF A PORTION OF THE LIGHTS: NOT APPLICABLE

• FOR LIGHTING OF BUILDING FACADES, PARKING LOTS, GARAGES, SALES AND NON-SALE CANOPIES, AND ALL OUTDOOR SALES AREAS, AUTOMATIC CONTROLS ARE REQUIRED TO PROVIDE THE OWNER WITH THE ABILITY TO TURN OFF THE LIGHTING OR TO REDUCE THE LIGHTING POWER BY AT LEAST 50% BUT NOT EXCEEDING 80% WHEN THE LIGHTING IS NOT NEEDED (132(c)2).

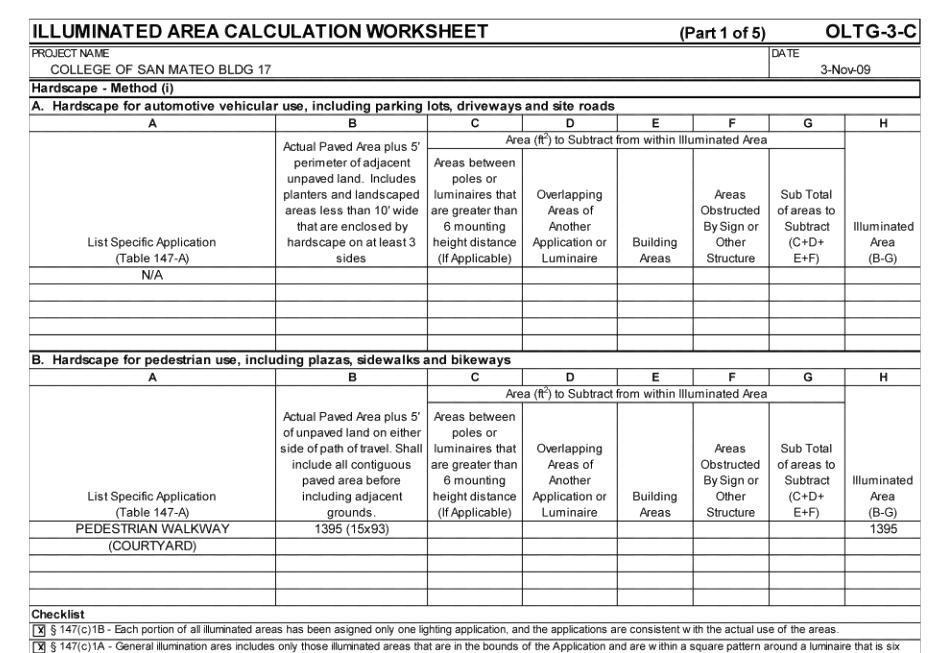
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§ 147(c)1B - Each portion of § 147(c)2B - Measured in unobstructed viewing length view between the principal Building Façade Are A Designated Name a Orientation NORTH FAÇADE SOUTH FAÇADE EAST FAÇADE	plan view, o th, and are v I view ing loo a	bonly illuminated within a 3 mou cation and the B Length 121 184	Sections of onting heights of frontage outdoor C Height 12 12 12	Gross Area (B x C) 1452 1452 2208	E Areas (ft²) Areas covered by signs 0 0 0	F to Subtract from the Gro Do not double count any Area for which Illumination is Obstructed by Other Objects and Area Not Illuminated 0 0 0	G ss Illuminated Area rareas Sub Total (E+F) 0 0 0	Net Area Available for Façade Lighting (D - G) 1452 2208
§ 147(c)1B - Each portion of § 147(c)2B - Measured in punobstructed viewing length view between the principal Building Façade Are A Designated Name and Orientation NORTH FAÇADE SOUTH FAÇADE EAST FAÇADE WEST FAÇADE	plan view, of th, and are view ing look	Length 121 184 116	Sections of onting heights of frontage outdoor C Height 12 12 12 12	Gross Area (B x C) 1452 1208 1392	E Areas (ft²) Areas covered by signs 0 0 0	F to Subtract from the Gro Do not double count any Area for which Illumination is Obstructed by Other Objects and Area Not Illuminated 0 0 0 0	G ss Illuminated Area y areas Sub Total (E+F) 0 0 0	Net Area Available for Façade Lighting (D - G) 1452 2208 1392
§ 147(c)1B - Each portion of § 147(c)2B - Measured in punobstructed viewing length view between the principal Building Façade Are A Designated Name a Orientation NORTH FAÇADE SOUTH FAÇADE EAST FAÇADE	plan view, of th, and are view ing look	bonly illuminated within a 3 mou cation and the B Length 121 184	Sections of onting heights of frontage outdoor C Height 12 12 12	Gross Area (B x C) 1452 1452 2208	E Areas (ft²) Areas covered by signs 0 0 0	F to Subtract from the Gro Do not double count any Area for which Illumination is Obstructed by Other Objects and Area Not Illuminated 0 0 0	G ss Illuminated Area rareas Sub Total (E+F) 0 0 0	Net Area Available for Façade Lighting (D - G) 1452 2208

2005 Nonresidential Compliance Forms

2005 Nonresidential Compliance Forms

July 2005

July 2005	2005 Nonresidential	Compliance Forms



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 obstructed by

2005 Nonresidential Compliance Forms

April 2005

signs or other structures.



BUILDING 12 AND 17 MODERNIZATION

SMCCCD 3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd. San Mateo, CA 94402

SHEET TITLE **BUILDING 17** TITLE 24 **EXTERIOR**

REVISIONS NO. DATE DESCRIPTION 3.25.10 RECORD DOCUMENT B17

DATE AUGUST 27, 2009 DRAWN CEI CHECKED CEI SCALE

NONE

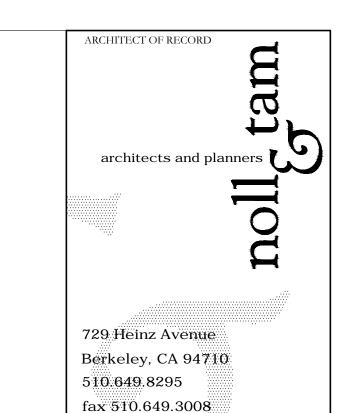
N&T JOB NO.: 2901 SHEET NUMBER

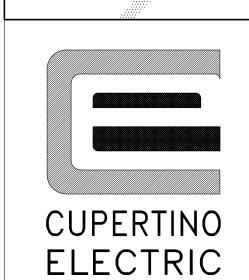
0	RUUD LTG. #E5242-120- UL-J-V	10"W x 6"H x5"D SURFACE MOUNTED FLUORESCENT UP/DOWN EXTERIOR FIXTURE WITH CUT OFF POLY CARBONATE LENS AND TAMPER PROOF SCREWS.	ı	CFM42W GXS42Q 835	46	120
P	TO BE DETERMINED	SURFACE MOUNTED FLUORESCENT FIXTURE WITH GASKETED POLY CARBONATE LENS AND WET LOCATION LABEL.	2	PL18 DTT	44	VERIFY
Q	LUMINIS NT110L.F226-EM42S	CEILING MOUNTED COMPACT FLUORE— SCENT FIXTURE WITH PRISMATIC GLASS LENS DIFFUSER, PURE CAST ALUMINUM COPPER HOUSING, ELECTRONIC BALLAST	2	PL26	26	120
R	EXISTING TO REMAIN	EXISTING 2x4 SURFACE MOUNTED FLUORESCENT FIXTURE, CLEAN AND RE-LAMP AS REQUIRED ELECTRONIC BALLASTS.	2	F32 T8 3500K	59	277
X	LITHONIA #LQM-S-W-3- G-120/277-ELN -SD	EXIT SIGN WITH WHITE HOUSING, GREEN STENCIL FACE, UNIVERSAL MOUNTING, NICKEL CADMIUM EMERGENCY BATTERY WITH SELF DIAGNOSTICS.	INC.	LED	5	277

LIGHTING FIXTURE SCHEDULE

- 1. ALL FLUORESCENT FIXTURES ARE TO HAVE C.E.C. APPROVED ENERGY SAVING TYPE BALLAST.
- 2. ALL LAMPS ARE TO BE ENERGY SAVING TYPE (i.e.-48 INCH FLUORESCENT: 32W, T8).
- 3. SHADED FLUORESCENT FIXTURES ON THE LIGHTING PLANS INDICATE A FIXTURE WITH AN INTEGRAL BATTERY PACK CONNECTED TO A DEDICATED NON-SWITCHED CIRCUIT, OR A FIXTURE CONNECTED TO AN EMERGENCY GENERATOR CIRCUIT. FIXTURES ARE THE SAME AS ALL OTHER FIXTURES OF THAT TYPE.
- 4. ALL SIMILAR FIXTURES OF DIFFERENT SIZES SHALL BE OF THE SAME STYLE AND CONSTRUCTION AND BE PART OF A MATCHING FAMILY OF FIXTURES.

TYPE	MANUFACTURER	DESCRIPTION	LA	MP	FIXT	URE
TIPE	& CATALOG NO.	DESCRIPTION	QTY	DESC.	WATTS	VOLTAGE
A	WILLIAMS #D1G-S24-232- WP-EB2-277	2×4 RECESSED FLUORESCENT T—BAR LAY—IN WITH WHITE PERFORATED FLAT DIFFUSER, 2—LAMP ELECTRONIC BALLASTS.	2	F32 T8 3500K	59	277
(A1)	WILLIAMS #D1G-S24-332- WP-EB2-277	SAME AS TYPE "A" EXCEPT: 3-LAMPS	3	F32 T8 3500K	89	277
B	WILLIAMS #D1S-24-232- WP-EB2-277	2x4 SURFACE MOUNTED FLUORESCENT FIXTURE WITH WHITE PERFORATED FLAT DIFFUSER, 2-LAMP ELECTRONIC BALLASTS.	2	F32 T8 3500K	59	277
(B1)	WILLIAMS #D1S-24-332- WP-EB2-EL-277	SAME AS TYPE "B" EXCEPT: 3—LAMP FIXTURE. ELECTRONIC BALLASTS.	3	F32 T8 3500K	89	277
(C)	WILLIAMS #DIG-S24-232 -WP-EB2-277 -DFK	2X4 RECESSED FLUORESCENT WITH FLANGE/DRYWALL FRAME IN KIT WITH WHITE PERFORATED FLAT DIFFUSER AND 2-LAMP ELECTRONIC BALLAST	2	F32 T8 3500K	59	277
(C1)	WILLIAMS #20-4-232-A- EB2-120	4FT SURFACE MOUNTED FLUORESCENT WRAP AROUND WITH CLEAR ACRYLIC PRISMATIC LENSE AND (1) 2-LAMP ELECTRONIC BALLAST.	2	F32 T8 3500K	59	120
(C2)	WILLIAMS #20-4-132-A- EB1-120	SAME AS TYPE "C1" EXCEPT: 1—LAMP FIXTURE.	1	F32 T8 3500K	30	120
(C3)	WILLIAMS #DIS-24-232 -WP-EB2-277	SAME AS TYPE "C" EXCEPT: SURFACE MOUNTED	2	F32 T8 3500K	59	277
D	WILLIAMS #29-4-232- A-EB2-277	4FT SURFACE MOUNTED FLUORESCENT WALL BRACKET WITH ACRYLIC LENSE AND 2LAMP ELECTRONIC BALLAST.	2	F32 T8	59	277
(D1)	WILLIAMS #29-4-232- A-EB2-120	SAME AS TYPE "D" EXCEPT: 120 VOLTS	2	F32 T8	59	120
E	LITHONIA AF118TRT-8-AR -PCL-277	8" DIA. RECESSED FLUORESCENT DOWNLIGHT WITH CLEAR TRIM RING, SEMI—SPECULAR REFLECTOR AND CLEAR POLYCARBONATE LENS AND ELECTRONIC BALLAST	1	PL 18	22	277
F	WILLIAMS 75-4-232-WG11- EB2-277	4FT FLUORESCENT STRIP FIXTURE WITH WIRE GUARD AND (1)2—LAMP ELECTRONIC BALLAST.	2	F32 T8 3500K	59	277
(F1)	WILLIAMS 75-4-132-WG11- EB2-277	SAME AS TYPE "F" EXCEPT: ONE LAMP FIXTURE.	1	F32 T8 3500K	30	277
F2	WILLIAMS 75-4-232-WG11- EB2-120	SAME AS TYPE "F" EXCEPT: 120V	2	F32 T8 3500K	59	120
(F3)	WILLIAMS 75-4-132-WG11- EB2-120	SAME AS TYPE "F1" EXCEPT: 120V	1	F32 T8 3500K	30	120
G	LITE CONTROL #SD66N-28-T8- BW-CWM-TW -ELB-277	96" LONG SURFACE MOUNTED FLUORESCENT FIXTURE WITH MATTE WHITE FINISH, WHITE BLADE BAFFLE (2) 2 LAMP ELECTRONIC BALLAST.	4	F32 T8	118	277
(G1)	LITE CONTROL #SD66N-24-T8- BW-CWN-TW -ELB-277	SAME AS TYP "G" EXCEPT: 48" LONG FIXTURE.	2	F32 T8	59	277
H	WILLIAMS #DISHS-2-2-2 -40TT-WPR -DUST CVR-EB2 -UNV.	2x2 FLOURESCENT LAY—IN WITH. WHITE PERFORATED ROUND DIFFUSER, DUST AND DEBRIS COVER, (1) 2 LAMP ELECTRONIC BALLAST.	2	F40TT	86	277
K	LITE CONTROL #PD66N 48 T8— FP—CWM—TW— ELB—277	96" LONG PENDANT MOUNTED FLUORESCENT FIXTURE WITH WHITE ACRYLIC DIFFUSER AND (2) TWO LAMP ELECTRONIC BALLASTS	4	F32 T8 3500K	118	277
\(\(\triangle\)	PRESCOLITE ARCHITRAK W/(3) AKTHLCE 218 BL HEADS & (1) AKT10 ONE CIRCUIT TRACK	WALL WASH TRACK WITH (3) 12" LONG FLUORESCENT WALL WASHERS & 10 FT OF SURFACE MOUNTED. TRACK WITH REQUIRED HARDWARE.	(2) PER HEAD	FT18 DL/835 RS/ECO	120	277
(L1)	PRESCOLITE ARCHITRAK W/(2) AKTHLCE 218 BL HEADS & (1) AKT6 ONE CIRCUIT TRACK	SAME AS TYPE "L" EXCEPT: (2) HEADS & 6 FT TRACK.	(2) PER HEAD	FT18 DL/835 RS/ECO	80	277
M	LITE CONTROL #RD 66N-48-T8 -FP-CWM-TW- ELB-277	8FT x 6" RECESSED FLUORESCENT FIXTURE WITH WHITE ACRYLIC LENS AND (2) TWO LAMP ELECTRONIC BALLASTS.	4	F32 T8 3500K	118	277
N	RUUD LTG GWCO270-U	16"x17" SURFACE MOUNTED FLUORESCENT WALL PACK WITH BOROSILICATE GLASS LENS, SPECULAR ALUMINUM REFLECTOR. GASKETED WATERTIGHT SEAL & FULL CUT OFF.	1	70W CFM70W GX24Q 835	75	120





1740 CESAR CHAVEZ STREET SAN FRANCISCO, CA 94124 (415)970-3400 C-10 LIC.NO. 174637

"THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED BY CUPERTINO ELECTRIC, INC. FOR THEIR EXCLUSIVE USE IN ACCORD WITH SEC. 6737.4 OF THE PROFESSIONAL ENGINEERS ACT OF THE STATE OF CALIFORNIA."

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 -110537

AC______FLS_____SS_____

DATE

COLLEGE OF SAN MATEO

BUILDING 12 AND 17 MODERNIZATION

SMCCCD 3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd. San Mateo, CA 94402

SHEET TITLE LIGHTING FIXTURES SCHEDULE

REVISIONS

NO. DATE DESCRIPTION

8/3/10 RECORD DOCUMENT

DATE AUGUST 27, 2009

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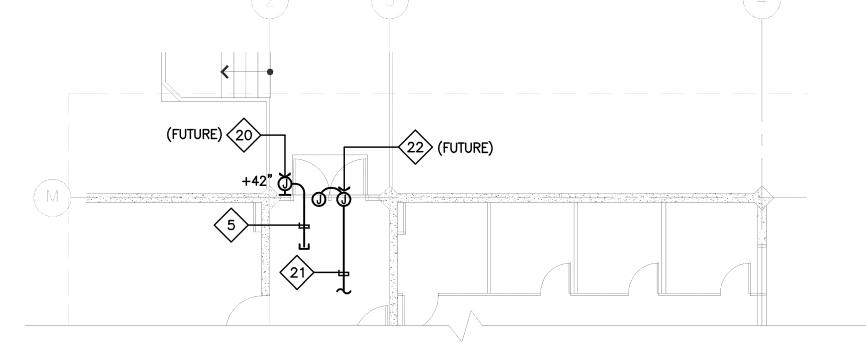
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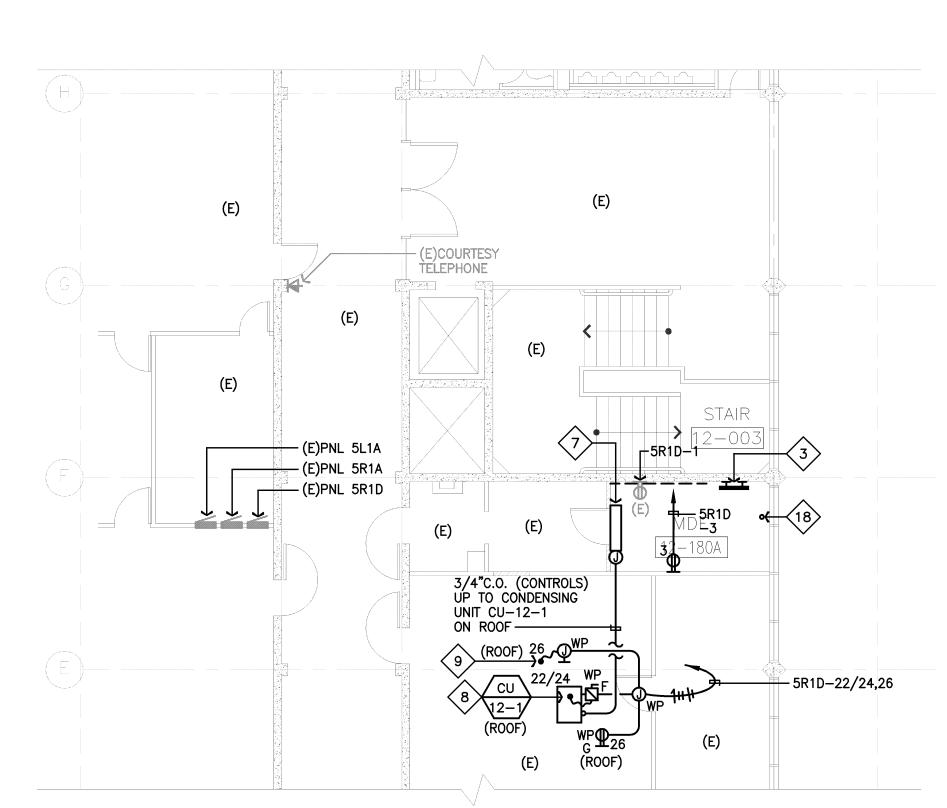
N&T JOB NO.: 2901
SHEET NUMBER

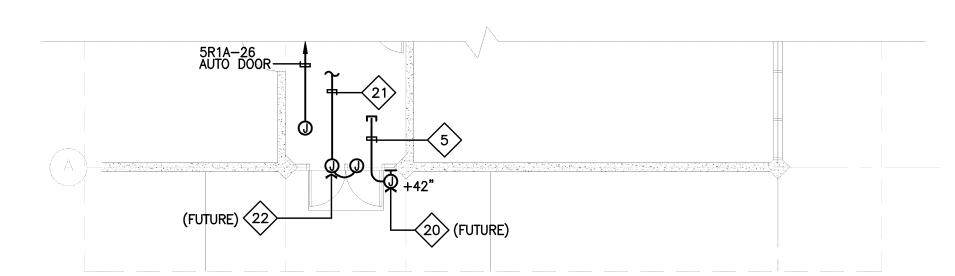
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SCALE

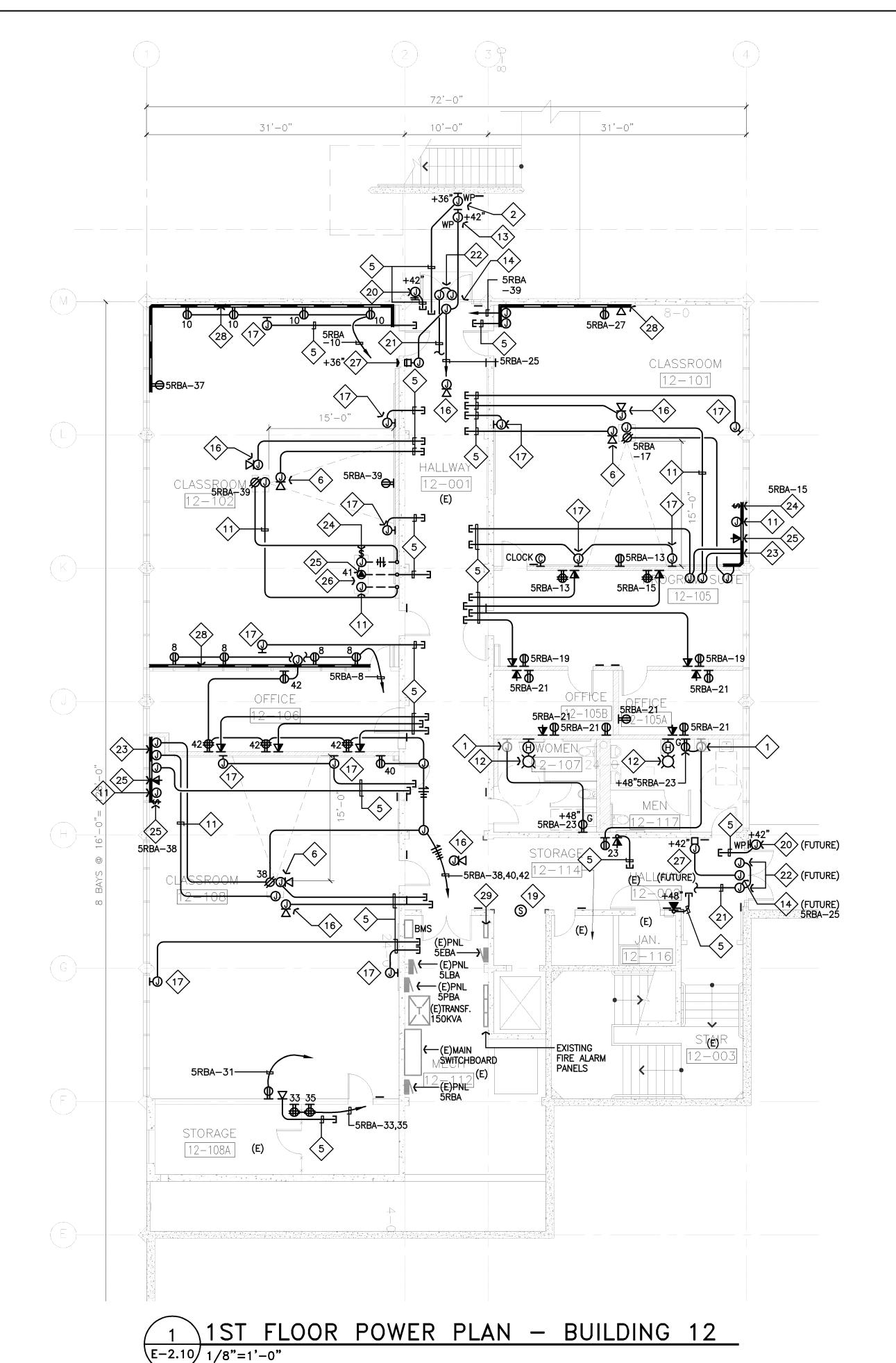
E-0.2.0 RD-8.19







2ND FLOOR POWER PLAN - BUILDING 12



INTERCEPT EXISTING RESTROOM RECEPTACLE CIRCUIT AND EXTEND TO NEW RECEPTACLE

4 VERIFY LOCATION OF AUTO FLUSH VALVE.

(5) STUB CONDUIT INTO ACCESSIBLE CEILING SPACE.

8 CONNECT TO CONDENSING UNIT CU-12-1, 1.2KW 208V, 1ø. VERIFY LOCATION ON ROOF. SEE UNIT WIRING DIAGRAM ON MECH. SHEET AC6.01.

9 CONNECT TO CONDENSING UNIT CONDENSATE PUMP. 1/6HP 120V. PUMP. 1/6HP 120V.

REFER TO FIRE ALARM PLANS FOR EXACT HORN/ STROBE LOCATION.

CONNECT TO 120 VOLT AUTO DOOR OPENER. VERIFY OPENER CONNECTION.

(15) MDF ROOM GROUND BUS. SEE DETAIL 4/E-6.0.0.

VERIFY WIRELESS ACCESS POINT (WAP) (2 CAT6).

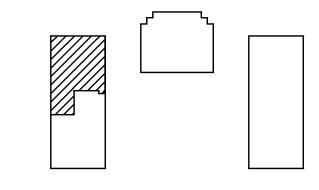
VERIFY SPEAKER BACK BOX LOCATION, SIZE AND CONDUIT REQUIREMENTS.

(2) 4" DATA CONDUIT CORES TO FIRST FLOOR. VERIFY LOCATION.

(19) VERIFY EVENT ANNUNCIATOR JUNCTION BOX LOCATION IN CEILING.

CARD READER. LOCATE AT ACTIVE LEAF SIDE OF DOOR.

VERIFY TEACHER STATION LOCATION AND REQUIRED FLOOR BOX REQUIREMENTS.



SHEET NOTES:

LOCATION AS REQUIRED.

2 DOOR OPENER PUSHBUTTON LOCATION.

3 MDF ROOM GROUND BUS. SEE DETAIL 1/E-6.1.0.

ARCHITECT OF RECORD

729 Heinz Avenue

fax 510.649.3008

510.649.8295

Berkeley, CA 94710

CUPERTINO

ELECTRIC

1740 CESAR CHAVEZ STREET SAN FRANÇISCO, CA 94124

(415)970-3400 C-10 LÍC.NO. 174637

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IDENTIFICATION STAMP

DIVISION OF THE STATE ARCHITECT

COLLEGE OF

SAN MATEO

BUILDING 12 AND 17 MODERNIZATION

SMCCCD 3401 CSM Drive San Mateo, CA 94402

College of San Mateo

1700 W. Hillsdale Blvd. San Mateo, CA 94402

8/3/10 RECORD DOCUMENT

SHEET TITLE

DATE

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SCALE

CHECKED

N&T JOB NO.: 2901

SHEET NUMBER

BUILDING 12

POWER PLAN

REVISIONS NO. DATE DESCRIPTION

APPLICATION NUMBER 01 -110537

architects and planners

6 VERIFY PROJECTOR LOCATION AT CEILING.

7 FAN COIL UNIT MOUNTED ABOVE DOOR BY OTHERS. SEE UNIT WIRING DIAGRAM ON MECH. SHEET AC6.01.

10 DELETED.

2"C.O. (DATA) FROM PROJECTOR TO INSTRUCTORS STATION.

VERIFY KEY PAD AND DOOR OPENER JUNCTION BOX LOCATION AND SIZE. SEE DETAIL 2/E-6.0.0.

21 ROUTE 3/4"C.O. TO MDF ROOM 12-180A.

22 VERIFY DOOR CONTACT LOCATION.

WIREMOLD V4000 DIVIDED. VERIFY MOUNTING LOCATION BELOW WINDOWS AT TEACHERS STATION.

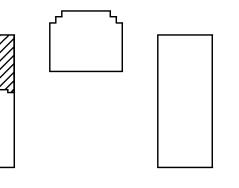
24 PROJECTOR POWER ON/OFF SWITCH.

25 DATA/TELEPHONE OUTLET. (3) CAT 6.

VERIFY DOOR OPERATOR PUSH BUTTON LOCATION ROUTE WIREMOLD V700 RACEWAY DOWN TO PUSH BUTTON LOCATION. VERIFY REQUIRED PUSH BUTTON JUNCTION BOX SIZE. LOCATE AT ACTIVE LEAF SIDE OF DOOR.

(28) WIREMOLD V4000.

(29) LIGHTING INVERTER/PANEL LI12.



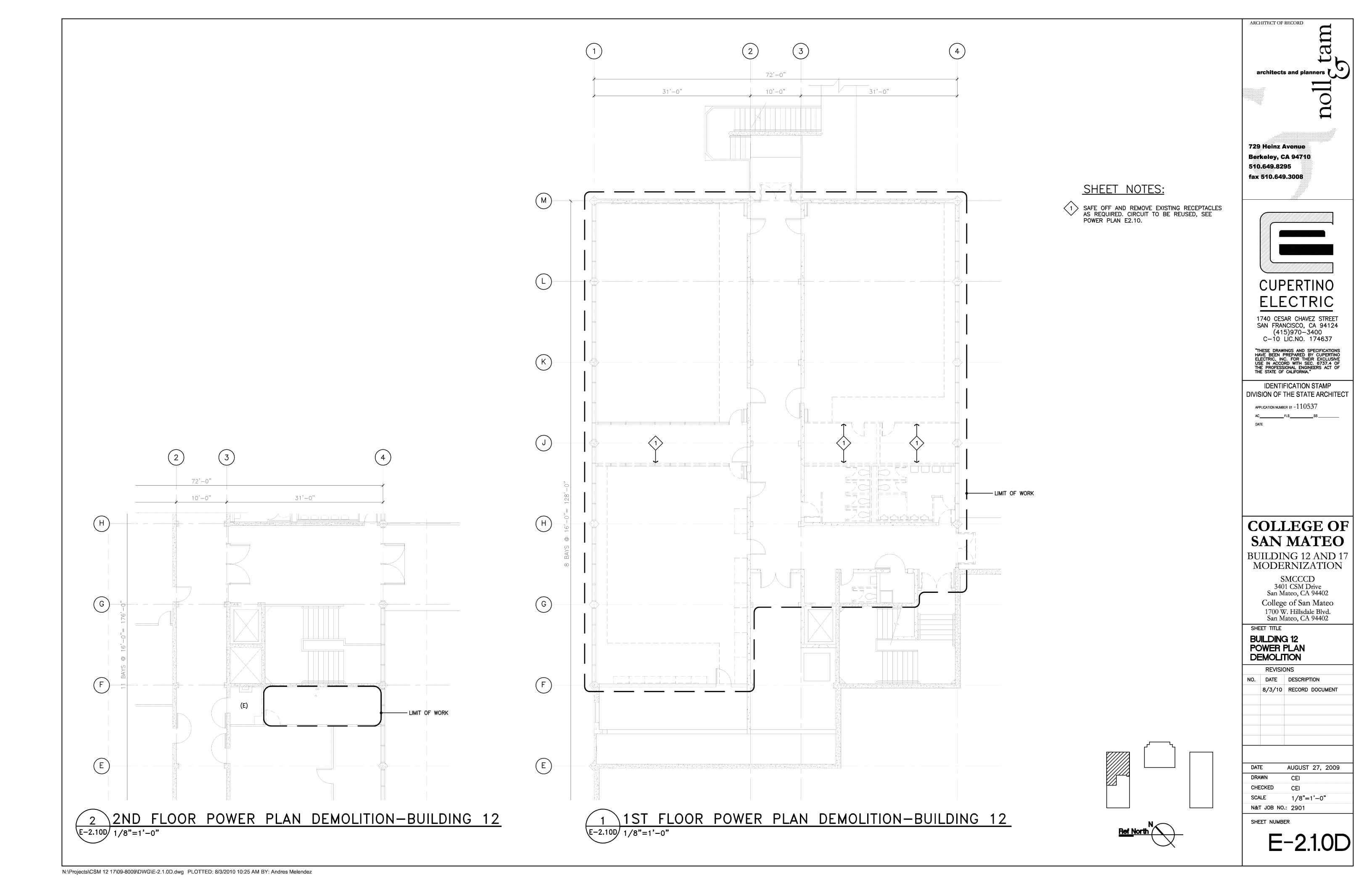
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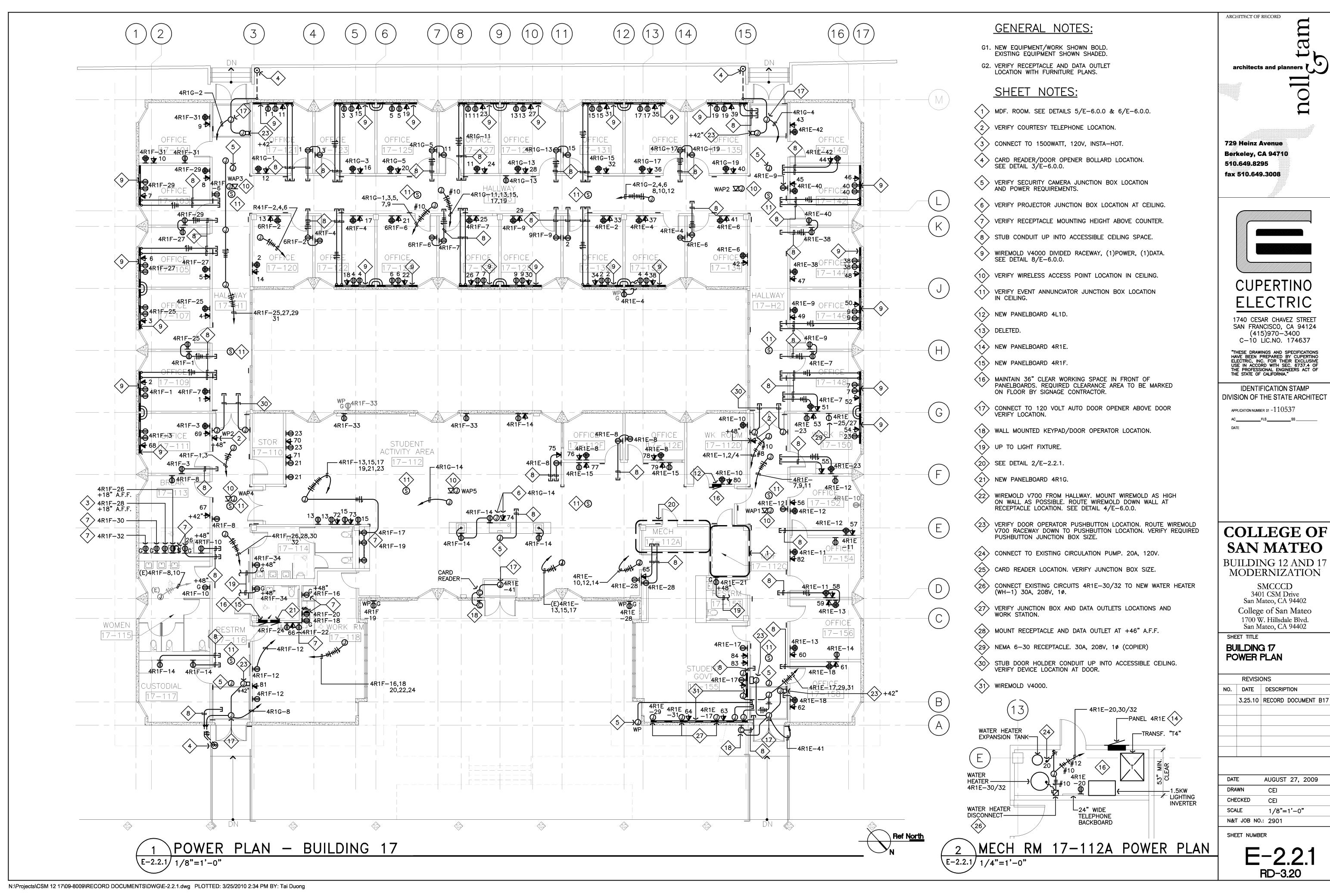
AUGUST 27, 2009

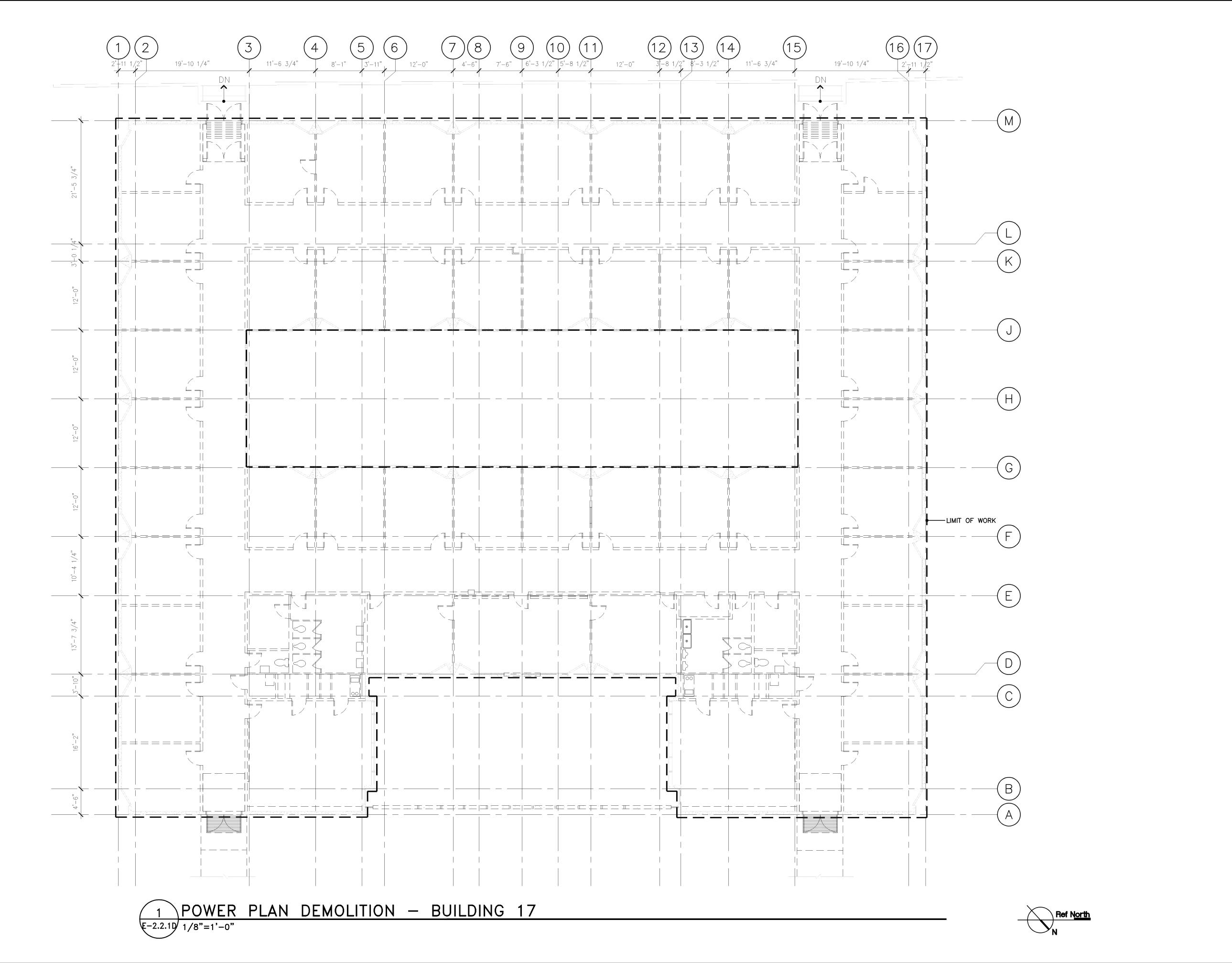
1/8"=1'-0"

CEI

CEI







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729 Heinz Avenue Berkeley, CA 94710 510.649.8295 fax 510.649.3008



CUPERTINO ELECTRIC

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DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 -110537

AC______FLS_____SS_____

IDENTIFICATION STAMP

COLLEGE OF SAN MATEO

BUILDING 12 AND 17 MODERNIZATION SMCCCD

3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd. San Mateo, CA 94402

SHEET TITLE

BUILDING 17 POWER PLAN DEMOLITION

REVISIONS

NO. DATE DESCRIPTION

3.25.10 RECORD DOCUMENT B17

DATE AUGUST 27, 2009

DRAWN CEI

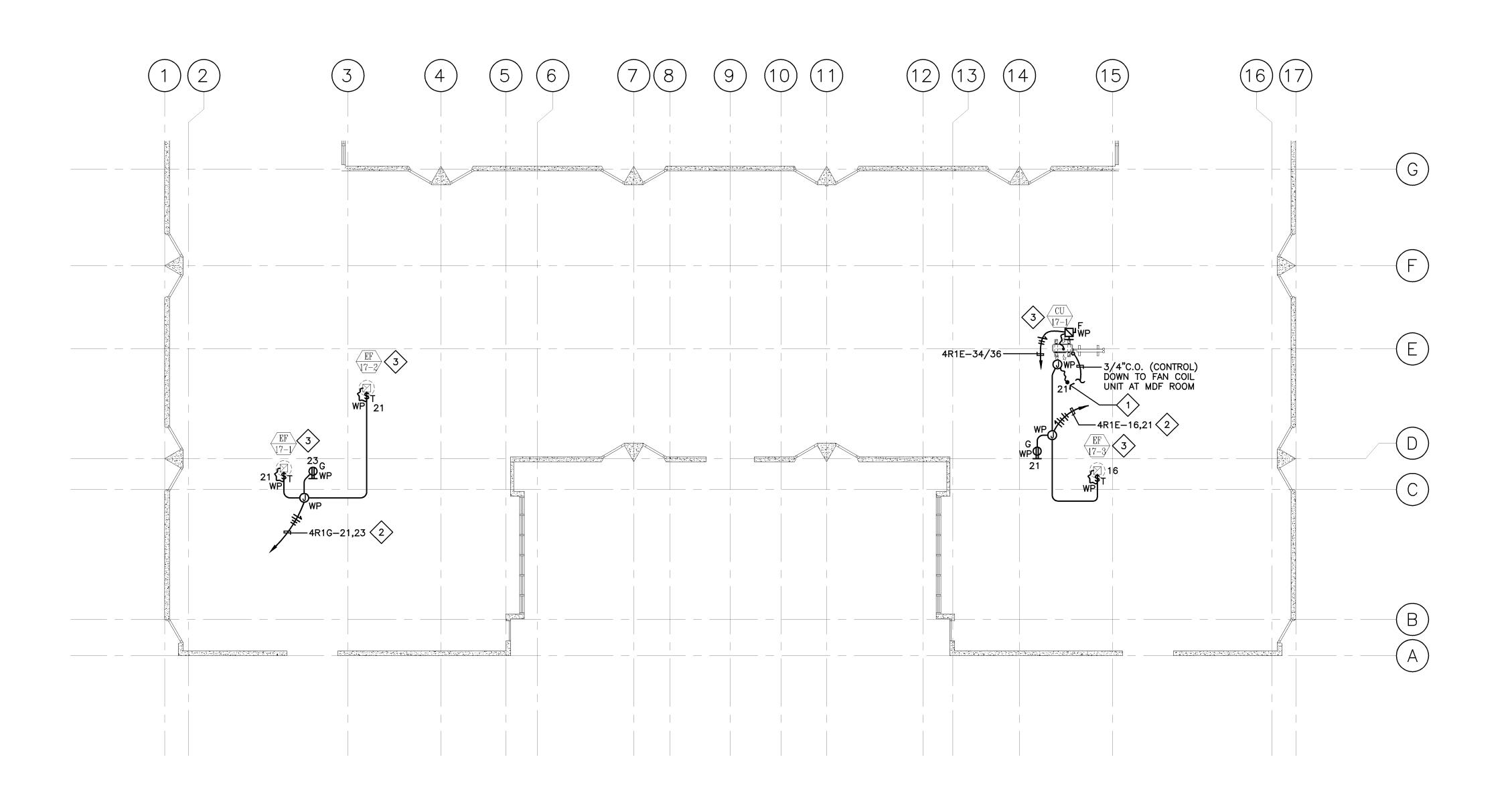
CHECKED CEI

N&T JOB NO.: 2901
SHEET NUMBER

SCALE

E2.2.1D

1/8"=1'-0"



1 POWER PLAN - ROOF - BUILDING 17

(1) CONNECT TO CONDENSING UNIT CONDENSATE PUMP 1/6HP, 120V.

2 ROUTE CIRCUITS 4RIG-21 AND 4R1E-16 VIA EXISTING BUILDING MANAGEMENT SYSTEM (BMS).

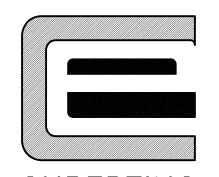
3 SEE UNIT WIRING DIAGRAM ON MECH. SHEET AC6.01.

E-2.2.2 1/8"=1'-0"

SHEET NOTES:

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CUPERTINO ELECTRIC

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COLLEGE OF SAN MATEO

BUILDING 12 AND 17 MODERNIZATION

SMCCCD 3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd. San Mateo, CA 94402

SHEET TITLE

BUILDING 17 POWER PLAN - ROOF

NO. DATE DESCRIPTION

3.25.10 RECORD DOCUMENT B17

DATE AUGUST 27, 2009
DRAWN CEI

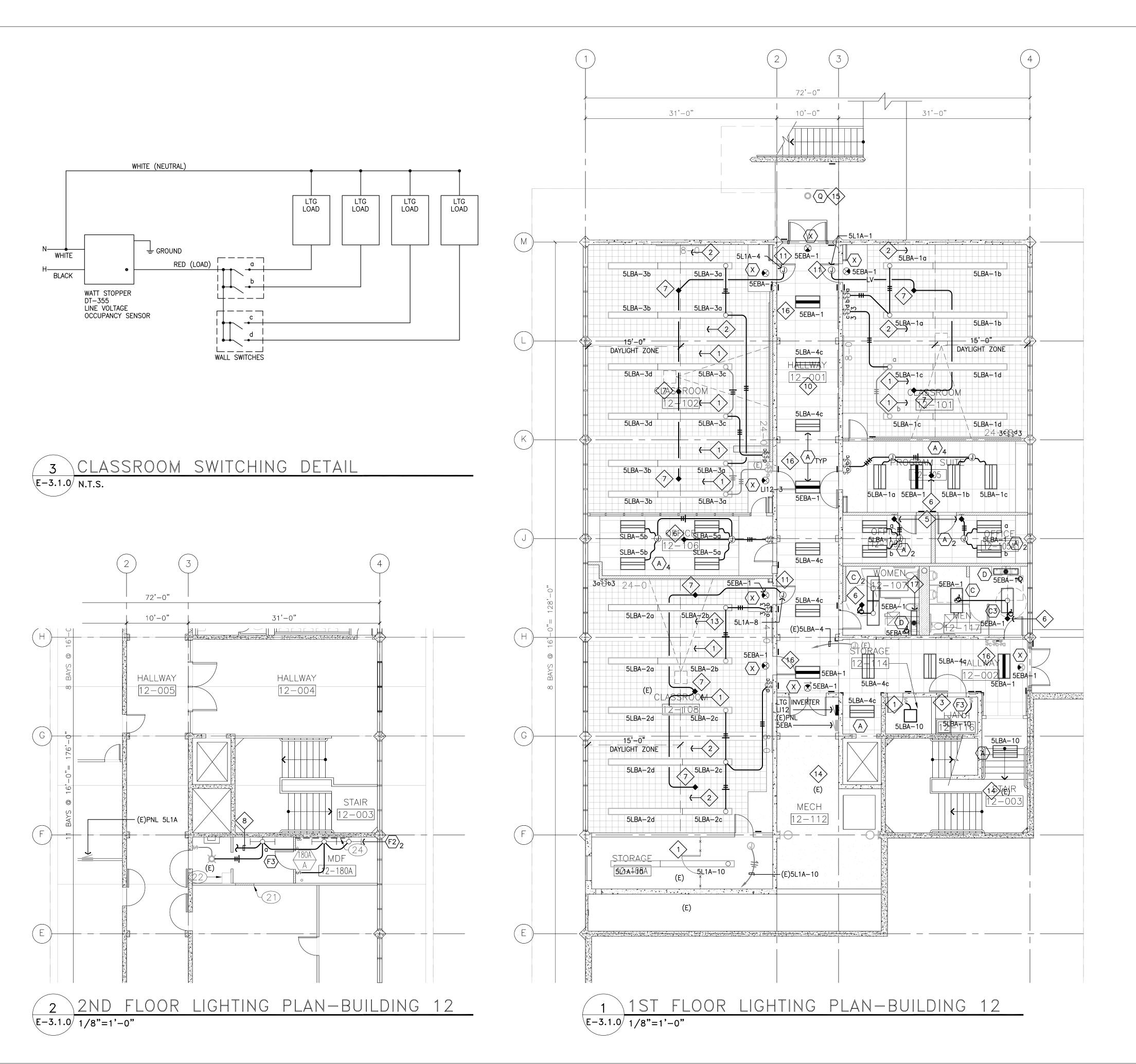
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SCALE 1/8"=1'-0"

N&T JOB NO.: 2901

SHEET NUMBER

E-2.2.2



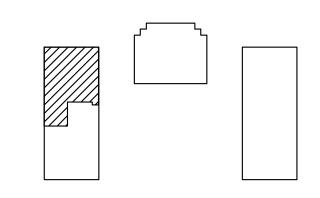
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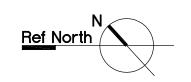
- G1. FIELD SET OCCUPANCY SENSOR TIME DELAY
 - AS FOLLOWS:

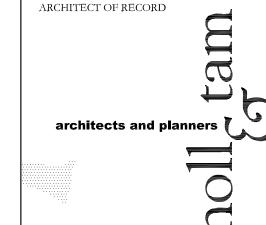
 1) CLASSROOM AND CONFERENCE ROOMS: 15 MINUTES.
 2) RESTROOM: 15 MINUTES. 30 MINUTES IF INTERLOCK
 - WITH THE EXHAUST FAN.
 3) STORAGE ROOM, JANITOR'S CLOSETS, SINGLE STALL
 - RESTROOM: 5 MINUTES.
 4) OFFICES: 15 MINUTES.
 - 5) ALL OTHER SPACES: 15 MINUTES.

SHEET NOTES:

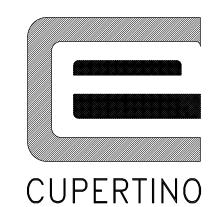
- EXISTING LIGHTING FIXTURES, SWITCHING AND CEILING TO REMAIN. CLEAN EXISTING ACRYLIC LENSES AND RELAMP FIXTURES.
- 2 EXISTING LIGHTING FIXTURE. DISCONNECT EXISTING FIXTURE SWITCHING AND REMOVE BACK TO LAST UNCHANGED FIXTURE. EXTEND EXISTING UNSWITCHED LIGHTING CIRCUIT TO FIXTURE THROUGH NEW SWITCHES. REPLACE EXISTING ACRYLIC LENSES AND RELAMP FIXTURES.
- REPLACE EXISTING DOWN LIGHT WITH NEW FLUORESCENT STRIP FIXTURE. VERIFY EXISTING CIRCUIT VOLTAGE. REPLACE EXISTING PLASTIC SWITCH PLATE WITH NEW METAL SWITCH PLATE. EXISTING CIRCUITING TO REMAIN.
- 4 DELETED.
- 5 DUAL LEVEL WALL MOUNTED OCCUPANCY SENSOR. WATT STOPPER WI-300-277V OR APROVED EQUAL.
- 6 CEILING MOUNTED LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR. WATT STOPPER DT-355-277V OR APPROVED EQUAL.
- 7 CEILING MOUNTED LINE DUAL TECHNOLOGY OCCUPANCY SENSOR. CONNECT OCCUPANCY SENSOR AHEAD OF SWITCHES. WATT STOPPER MODEL DT-335-277V OR APPROVED EQUAL. SEE DETAIL 3/E-3.1.0
- 8 CONNECT TO EXISTING UNSWITCHED 120 VOLT LIGHTING CIRCUIT MADE AVAILABLE DURING DEMOLITION.
- 9 SINGLE LEVEL WALL MOUNTED OCCUPANCY SENSOR. WATT STOPPER WI-200-277V OR APPROVED EQUAL.
- CONNECT NEW NORMAL LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUIT 5L1A-22, NEW EGRESS LIGHTING FIXTURES TO EXISTING EGRESS CIRCUIT 5EBA-1 AND NEW EXIT LIGHTS TO EXISTING EXIT CIRCUIT 5EBA-5. RECONNECTED HALLWAY LIGHTING FIXTURES ARE CONTROLLED BY BUILDING MANAGEMENT SYSTEM (BMS).
- (11) SEE CLASSROOM SWITCHING DETAIL 3/E-3.1.0.
- EXISTING LIGHTING FIXTURES TO REMAIN. CONNECT TO NEW LIGHTING CONTROLS AS REQUIRED. FIXTURE SIMILAR TO FIXTURE TYPE "C1".
- RELOCATE EXISTING FIXTURES. SWITCHING AND CEILING TO REMAIN. CLEAN EXISTING ACRYLIC LENSES AND RELAMP FIXTURES.
- (14) LIGHTING NOT IN SCOPE OF WORK.
- REPLACE EXISTING LIGHT FIXTURE. EXISTING CIRCUITING AND CONTROL TO REMAIN.
- 16 CONNECT EGRESS LIGHTING FIXTURES TO EXISTING NIGHTLIGHT CIRCUIT 5EBA-1. CONNECT EXIT LIGHT FIXTURES TO EXISTING EXIT CIRCUIT 5EBA-3.
- MOUNT FIXTURE TIGHT TO THE CORNER OF THE PLUMBING WALL AND THE HALLWAY WALL.







729 Heinz Avenue Berkeley, CA 94710 510.649.8295 fax 510.649.3008



CUPERTINO ELECTRIC

1740 CESAR CHAVEZ STREET SAN FRANCISCO, CA 94124 (415)970-3400 C-10 LIC.NO. 174637

"THESE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED BY CUPERTINO ELECTRIC, INC. FOR THEIR EXCLUSIVE USE IN ACCORD WITH SEC. 6737.4 OF THE PROFESSIONAL ENGINEERS ACT OF THE STATE OF CALIFORNIA."

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 - 110537

AC_____FLS____

COLLEGE OF SAN MATEO

BUILDING 12 AND 17 MODERNIZATION

> SMCCCD 3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd. San Mateo, CA 94402

SHEET TITLE

BUILDING 12 LIGHTING PLAN

		REVISION	DNS
N	0.	DATE	DESCRIPTION
		8/3/10	RECORD DOCUMENT

DATE AUGUST 27, 2009

DRAWN CEI

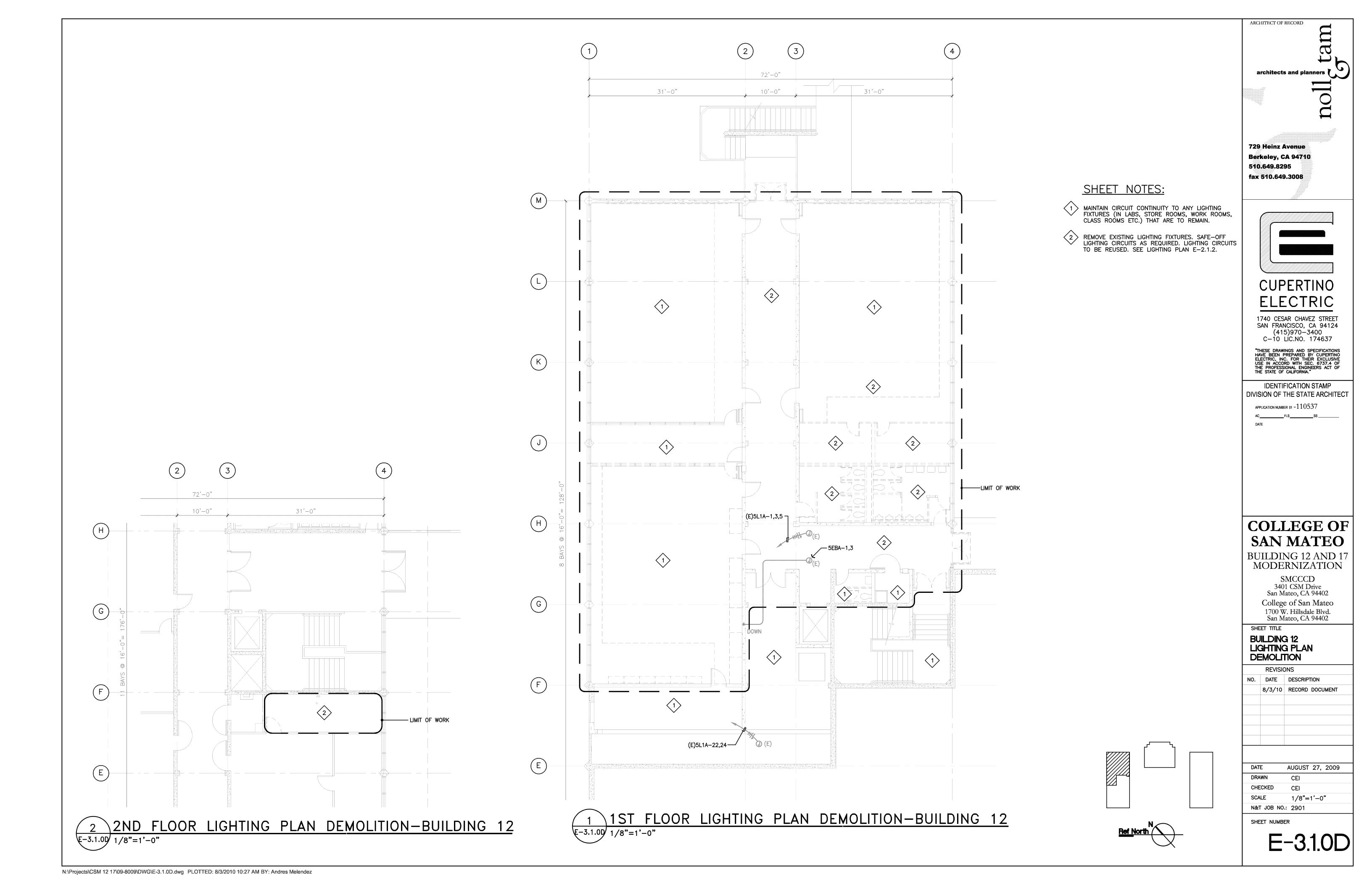
CHECKED CEI

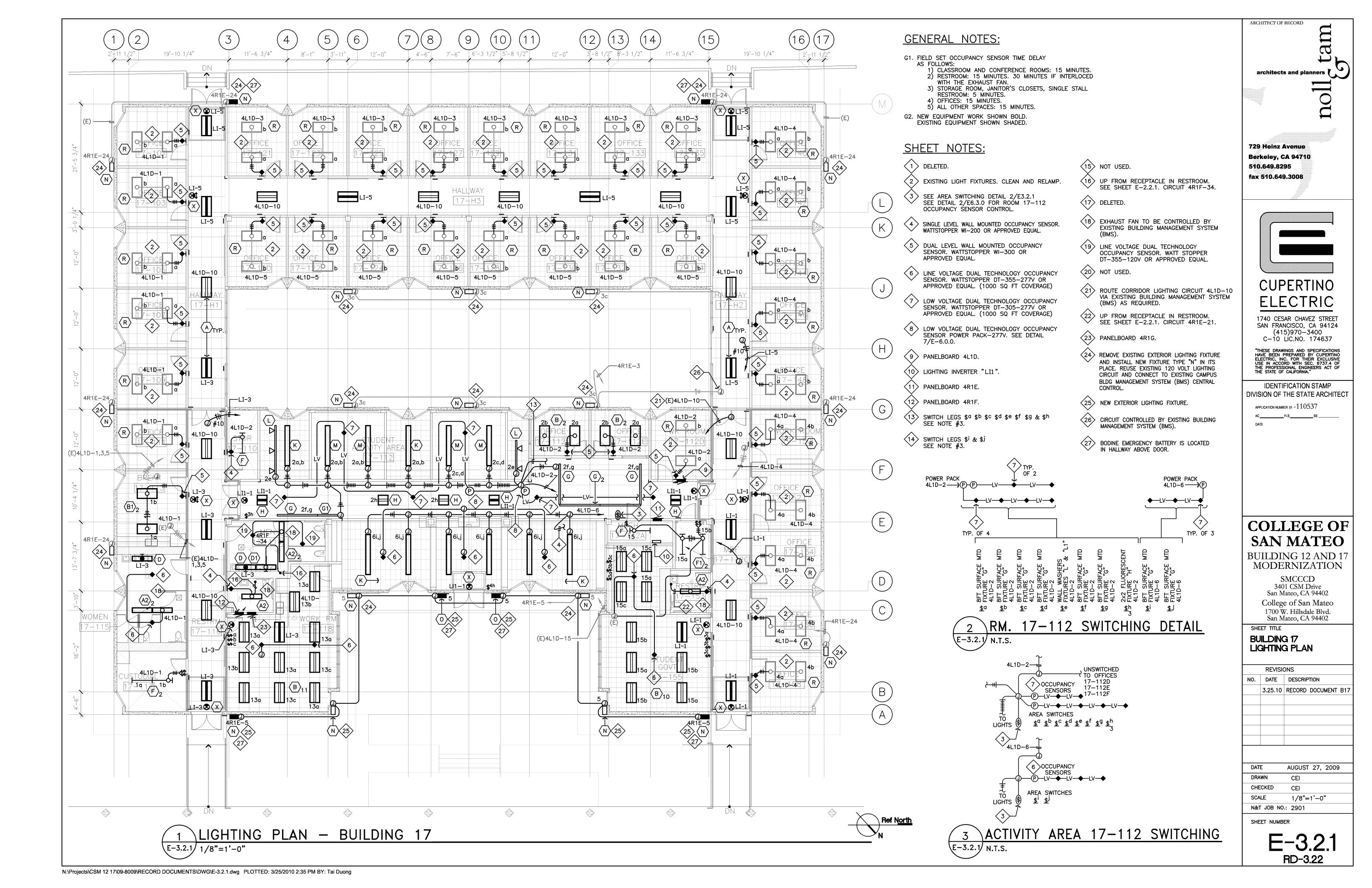
SCALE 1/8"=1'-0"

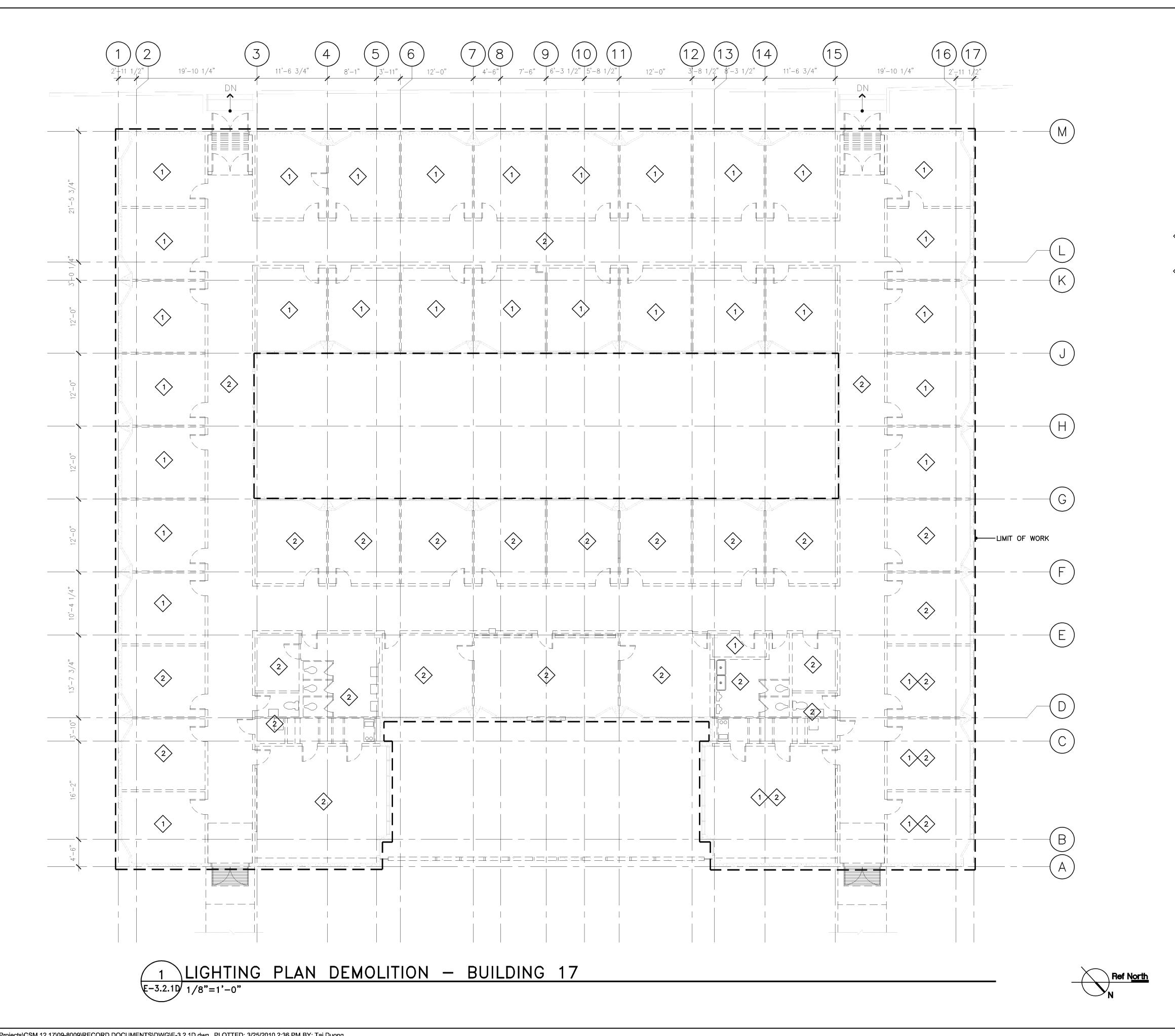
N&T JOB NO.: 2901

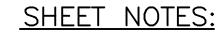
SHEET NUMBER

E-3.1.0 RD-8.21







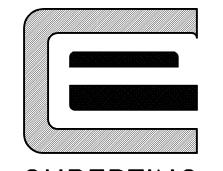


- MAINTAIN CIRCUIT CONTINUITY TO ANY LIGHTING FIXTURES (IN LABS, STORE ROOMS, WORK ROOMS, CLASS ROOMS ETC.) THAT ARE TO REMAIN.
- 2 REMOVE EXISTING LIGHTING FIXTURES. SAFE-OFF LIGHTING CIRCUITS AS REQUIRED. LIGHTING CIRCUITS TO BE REUSED. SEE LIGHTING PLAN E-3.2.1.

architects and planners

ARCHITECT OF RECORD

729 Heinz Avenue Berkeley, CA 94710 510.649.8295 fax 510.649.3008



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IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT APPLICATION NUMBER 01 -110537

COLLEGE OF SAN MATEO

BUILDING 12 AND 17 MODERNIZATION

SMCCCD 3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd. San Mateo, CA 94402

SHEET TITLE

BUILDING 17 LIGHTING PLAN DEMOLITION

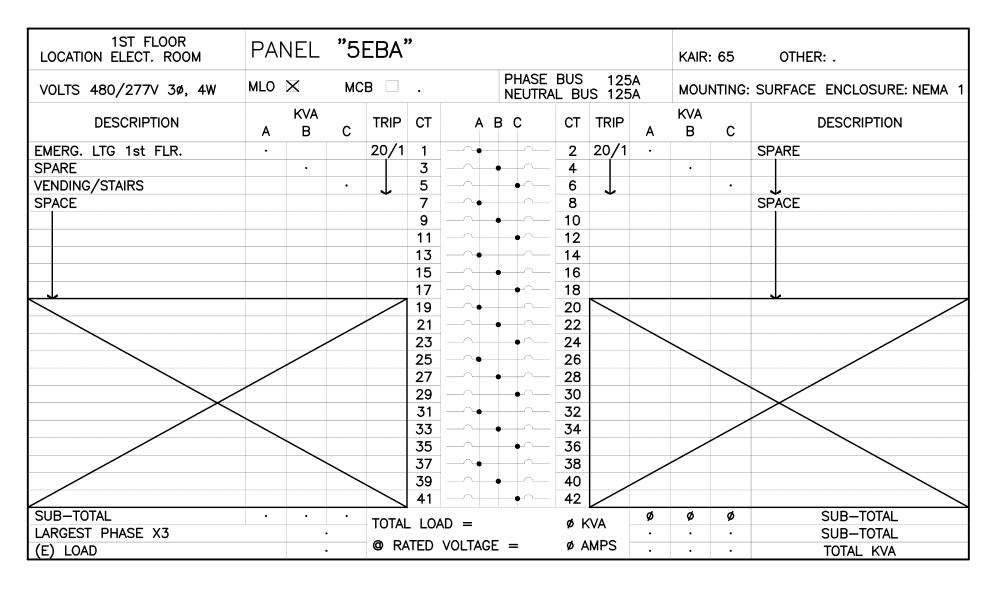
REVISIONS NO. DATE DESCRIPTION 3.25.10 RECORD DOCUMENT B1

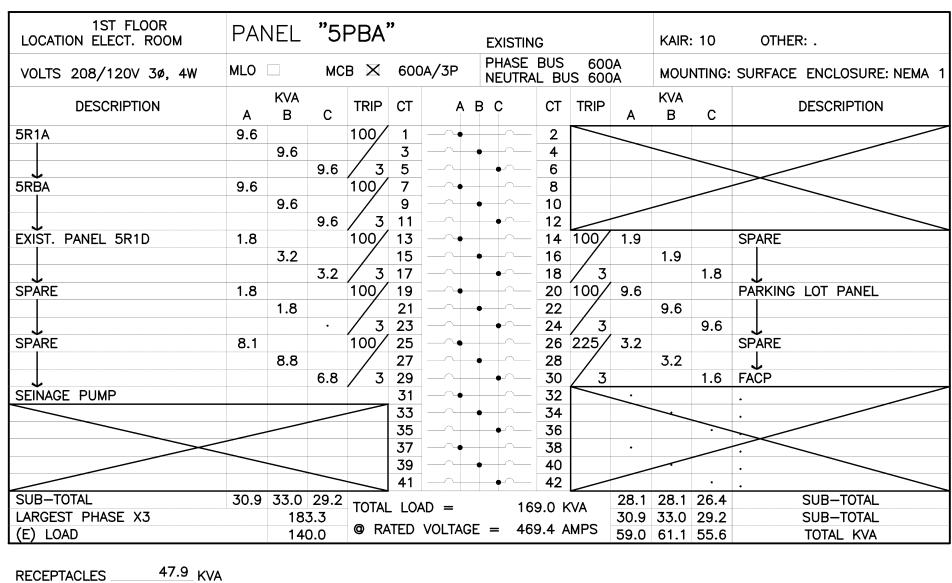
AUGUST 27, 2009 DRAWN CEI

CHECKED CEI SCALE 1/8"=1'-0" N&T JOB NO.: 2901

SHEET NUMBER

E-3.2.1D





100% OF FIRST 10 KVA		10.0	KVA				
50% OF REMAINDER		19.0	KVA				
LIGHTS @ 125%		Ø	KVA				
EQUIPMENT @ 100% (EXIST	ING)	140.0	KVA				
OTHER		Ø	KVA				
	TOTAL	169.0	KVA	0	208	VOLTS	3 PHASE =

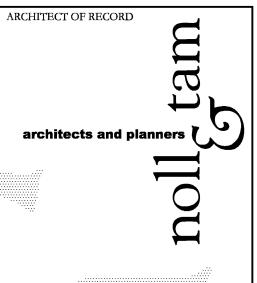
								FED	FROM	PANEL 5PBA
1ST FLOOR LOCATION ELECT. ROOM	PANEL	SITE LT SUB PA	G ANEL					KAIR:	10	OTHER: .
VOLTS 208/120V 3ø, 4W	MLO 🔀	мсв 🗆		PHASE NEUTRA		100A 100A		MOU	NTING:	SURFACE ENCLOSURE: NEMA
DESCRIPTION	KVA A B	c TRIP	СТ	АВС	СТ	TRIP	Δ,	KVA B	С	DESCRIPTION
TS1	•	30/	1		2 3	50/	•			TS3
	•	/2	3		4	/2		•		
SPACE		•	5		6				•	SPACE
TŞ2	•	30/	7		ļ	0/	•			TS4
	•	/2	9		10	/2		•		
SPACE		•	11		12				•	SPACE
			13		14					/
			15		16					
			17		18					
			19		20					
			21		22 24					
			25		26				_/	
$\overline{}$			27		28					
			29		30					
			31		32					
			33	†L	34					
			35	†	36					
			37	1	38		/			
			39		40					
			41		42					
SUB-TOTAL	35.1 36.2	34.0		AD 40		, <u>,</u> 28	3.1	28.1	26.4	SUB-TOTAL
LARGEST PHASE X3	192	2.9			9.0 KV	'A 35			34.0	SUB-TOTAL
(E) LOAD	140		ATED	VOLTAGE = 469	9.4 AM	100			60.4	TOTAL KVA

469.4 AMPS.

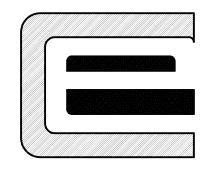
1ST FLOOR LOCATION ELECT. ROOM	PAI	NEL	" 5	LBA"	,							KAIR:	65	OTHE	₹: .
VOLTS 480/277V 3ø, 4W	MLO		МС	вХ	50A	/3P		HASE EUTRA		125 S 125	SA SA	MOUI	NTING:	SURFACE	ENCLOSURE: NEMA 1
DESCRIPTION	Α	KVA B	С	TRIP	СТ	A	В	С	СТ	TRIP	Α	KVA B	С		DESCRIPTION
RECEPT. 101,105	•			20/1	1				2	20/1	•			RECEPT.	108
102		•			3		-		4			8.0		CORRIDO	R
106			•		5			<u> </u>	6				•	SPARE	
EXISTING	•				7				8		•				
		•			9		<u> </u>		10			•		STORAGE	
\downarrow			•		11			<u> </u>	12				•		
SPACE					13				14					SPACE	
					15		+		16						
					17			-	18						
					19				20						
					21		+		22						
					23			<u> </u>	24						
					25				26			`\			
					27		+		28						
					29			∳ ^	30						
/					31				32						
					33		+		34				/		<u> </u>
					35			∳ -^	36						
					37				38						
			\		39		-		40						
					41			<u> </u>	42						
SUB-TOTAL	•	•	•	TOTAL	104	νD =		2	1.7 K	\/Δ	•	0.8	٠		SUB-TOTAL
LARGEST PHASE X3		0.	.8				_				•	Ø	•		SUB-TOTAL
(E) LOAD		20).9	(C) RA	MED	VOLTAG	<i>∍</i> ∟ =	= 2	6.1 Al	MPS	•	0.8	•		TOTAL KVA

1ST FLOOR LOCATION ELECT. ROOM	PAI	NEL	"5l	RBA	,,							KAIR:	: 10K	OTHER	: .
VOLTS 208/120V 3ø, 4W	MLO		МС	вХ	225	5A/3P		PHASE NEUTRA		225 IS 225	5A 5A	MOUI	NTING:	SURFACE	ENCLOSURE: NEMA
DESCRIPTION	A	KVA B	С	TRIP	СТ	A	В	C	СТ	TRIP	Α	KVA B	С	ſ	DESCRIPTION
EXISTING	1.0			20/1	1				2	20/1	0.8			BLDG. MC	MT SYS
VENDING (E)		1.2			3		-		4			•		EXISTING	LOAD
EXISTING			1.2		5				6				8.0	J	
SPARE	0.8				7				8		0.8			RECEPT.	102
		0.8			9		•		10			8.0		J	
			0.8		11			+^-	12				•	EXISTING	LOAD
RECEPT. 101,105	1.0				13		+	$+ \sim$	14		•				
105		1.0			15		•		16			•			
101			0.8		17			$\rightarrow \frown$	18				•		
105	0.8				19		+	$+ \cap$	20		•				
105A/B		0.8			21		•	$+ \cap$	22			•			
CORRIDOR 107,117			0.8		23			$\uparrow \frown$	24				•		
AUTO DOOR	0.8				25			-	26		•			J	
RECEPT. 101		1.0			27		1		28			0.8		ELEVATOR	
EXTERIOR LIGHTS			0.8		29			$\uparrow \cap$	30				•	EXISTING	LOAD
RECEPT. 108	0.8				31	1			32		•			<u> </u>	
CHARGERS 108A		0.8			33		•	+	34			0.8		ELEVATOR	
1	0.0		0.8		35			\uparrow	36		4 7		•	EXISTING	
102	0.8	0.0			37	1			38		1.3			RECEPT.	
		8.0	~ ~		39		•	\top	40			0.8	4 ^		106
SUB TOTAL	F 0	5.6	0.6	<u> </u>	41				42	J	2.0	7.0	1.0	J	CUB TOTAL
	-TOTAL 5.2		5.0	TOTAL	L LOA	4D =		1	8.7 K	(VA	2.9	3.2	1.8		SUB-TOTAL
	GEST PHASE X3		5.4	@ RA	ATED	VOLTA	GE	= 5	51.9 A	MPS	5.2	5.6	5.0		SUB-TOTAL
(E) LOAD			•							•	8.1	8.8	6.8		TOTAL KVA

RECEPTACLES 20.5 KVA							
100% OF FIRST 10 KVA	10.0	KVA					
50% OF REMAINDER	5.3	KVA					
LIGHTS @ 125% 0.8x1.25	1.0	KVA					
EQUIPMENT @ 100%	2.4	KVA					
OTHER	0.0	KVA					
TOTAL	18.7	KVA	@	208	VOLTS	3 PHASE =	51.9 AMPS.



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SHEET TITLE

BUILDING 12

PANELBOARD

SCHEDULES

REVISIONS

NO. DATE DESCRIPTION

8/3/10 RECORD DOCUMENT

DATE AUGUST 27, 2009
DRAWN CEI

CHECKED CEI

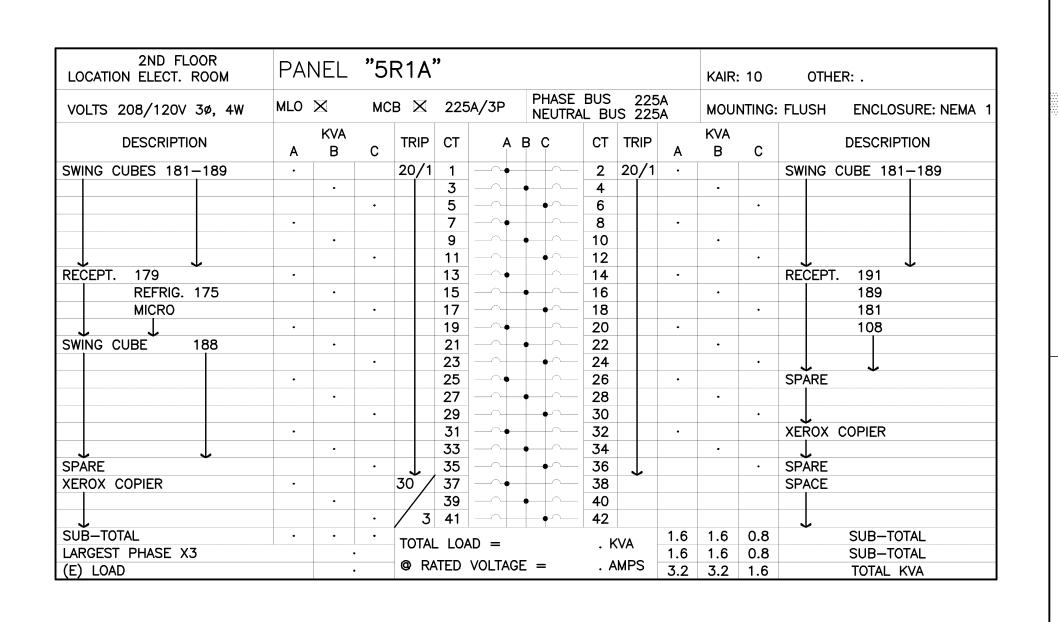
SCALE NONE

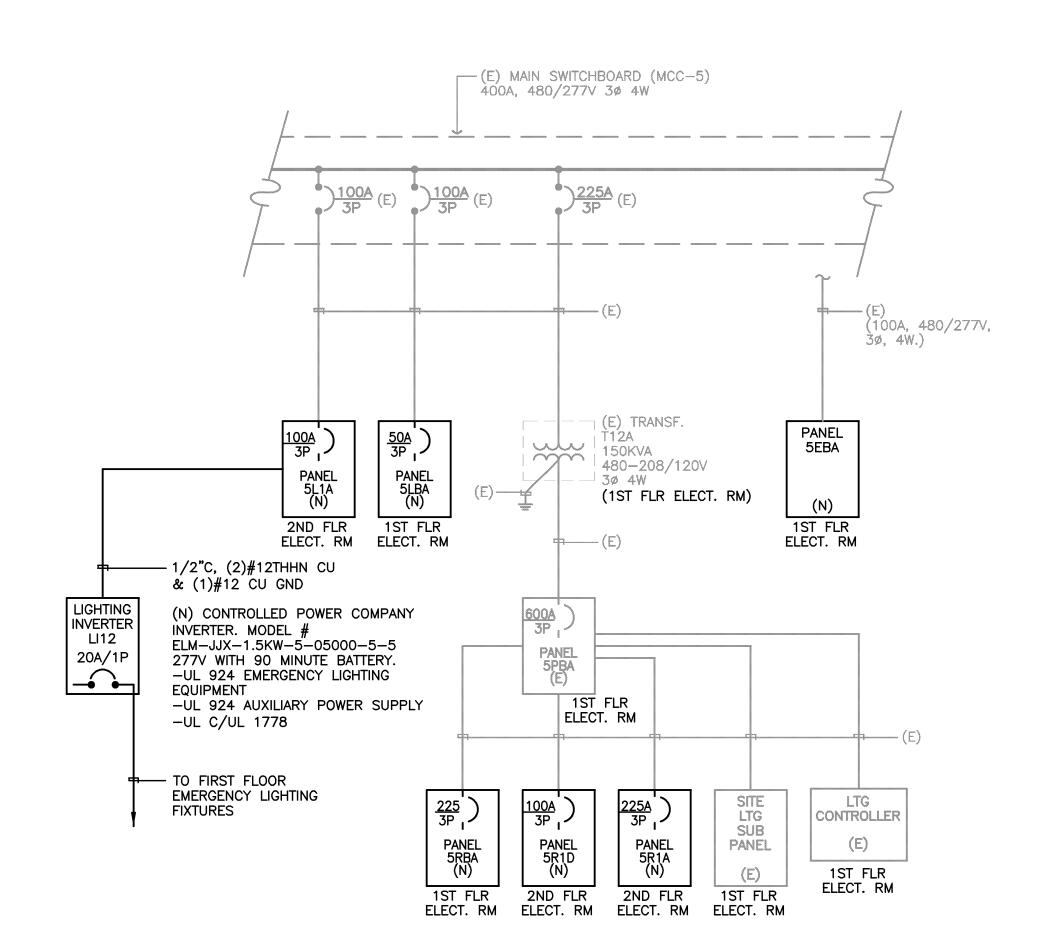
N&T JOB NO.: 2901

SHEET NUMBER

E-4.0.0

LOCATION	2ND FLOOR LELECT. ROOM	PAI	NEL	"5	L1A'	,						KAIR	: 65 OTI	HER: .
VOLTS 48	80/277V 3ø, 4W	MLO		МС	в 🗵	100)A/3P	PHASE NEUTRA		12 JS 12	5A 5A	мои	NTING: FLUSH	ENCLOSURE: NEMA 1
С	DESCRIPTION	Α	KVA B	С	TRIP	СТ	A 1	ВС	СТ	TRIP	Α	KVA B	С	DESCRIPTION
LTG	116-124				20/1	1		<u> </u>	2	20/1	•		LTG	116
	120					3]		4			•		107
•	103,104 LOBBY					5	I — ^ —	 	6				•	\downarrow
•	125,126					7	<u> </u>		8		•			108
•	127,128,129					9	1		10			•		108,111
J	129					11]	<u> </u>	12				•	109,110,112
SPARE						13	I — ^ •		14		•			112
						15	Ī	←	16			•		113,114,115
						17	<u> </u>	├	18				•	114
						19	│ —		20		•			SPARE
						21	I —		22			•		CORRIDOR
						23	1		24				• SPARE	-
EXIT SIGN						25	Ī —		26		İ		SPACE	
SPACE						27	Ī — ^ —	←	28					
						29	Ī	<u> </u>	30					
						31		 	32					
						33	1		34					
						35	1	<u> </u>	36					
						37	1 — ^ -	<u></u>	38					
						39]		40					
						41	1	<u></u>	42					
SUB-TOTA	B-TOTAL · ·			•	TOTAL	L	4 D		I	^\	•	•		SUB-TOTAL
LARGEST	RGEST PHASE X3				TOTAL					(VA	•	•	•	SUB-TOTAL
(E) LOAD					@ RA	TED	VOLTAGE	=	. A	MPS	•	•	•	TOTAL KVA

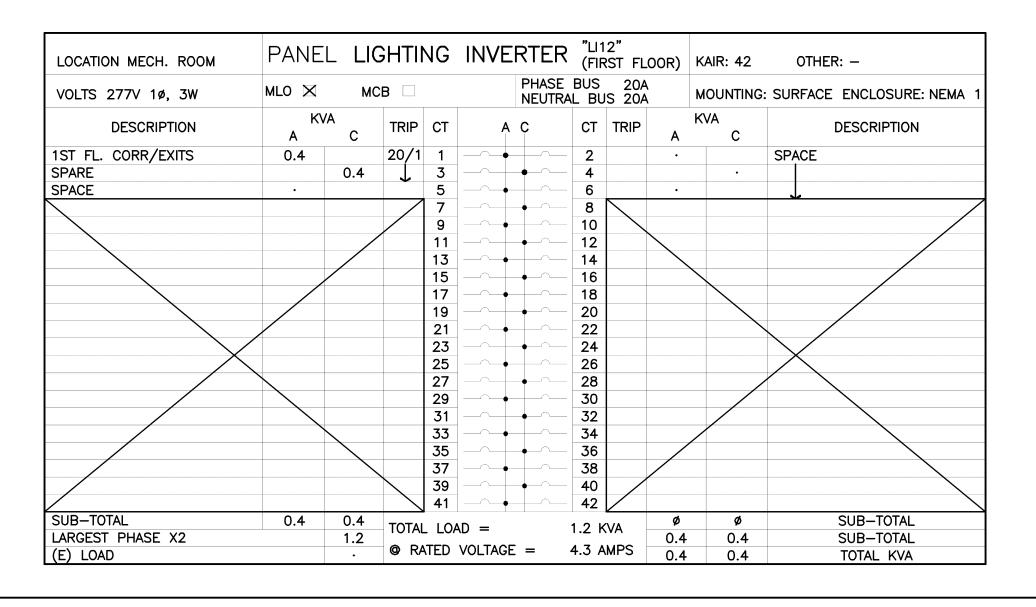


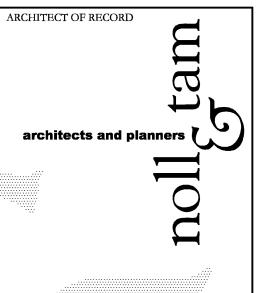


PARTIAL SINGLE LINE DIAGRAM-BLDG 12

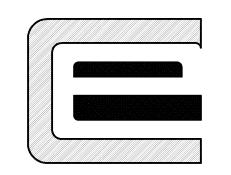
- N.T.S.

2ND FLOOR LOCATION ELECT. ROOM	PAI	NEL	"5	R1D	**						KAIR:	: 10	OTHER	₨.
VOLTS 208/120V 3ø, 4W	MLO		МС	в 🗵	100	DA/3P	PHASE NEUTRA		100 JS 100)A)A	MOU	NTING	: FLUSH	ENCLOSURE: NEMA 1
DESCRIPTION	Α	KVA B	С	TRIP	СТ	A E	3 C	СТ	TRIP	Α	KVA B	С	1	DESCRIPTION
SECURITY				20/1	1			2	20/1				RECEPT.	172,176
MDF SERVERS					3]	+	4						170
SPARE					5		<u> </u>	6					\downarrow	170
RECEPT. 172	•				7			8		•			SPARE	
176		•			9		<u>+</u>	10			•			
170,176			•		11		<u> </u>	12				•	$oxed{oxed}$	
106,107	•				13			14		•			RECEPT.	108,110,111
106,107		•			15		<u> </u>	16			•			177,173
173,177			•		17]	<u> </u>	18				•		170
SPARE	•				19			20		•				116,117,118,119
SPARE		•		20/	21]	-		20/		•		MDF CON	IDENSING UNIT
			•	/2	23		<u> </u>	24	/2			•		
SPARE				20/1	25	T		26	20/1	•			SPARE	
		•			27		<u> </u>	28			•			
Ţ			•		29		<u> </u>	30				•		
EXISTING LOAD					31	1		32						
					33]	 	34						
					35		<u> </u>	36						
SPACE					37]		38					SPACE	
					39		<u> </u>	40						
<u> </u>					41			42						
SUB-TOTAL		•	•	TOTA		AD =		L	(VA	•	•	•		SUB-TOTAL
LARGEST PHASE X3			•				_			•	•	•		SUB-TOTAL
(E) LOAD			•	(Q R	ATED	VOLTAGE	=	. <i>P</i>	MPS	•	•	•		TOTAL KVA





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AC _______FLS _______SS _____

DATE

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BUILDING 12 AND 17 MODERNIZATION

SMCCCD 3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd. San Mateo, CA 94402

BUILDING 12
PANELBOARD
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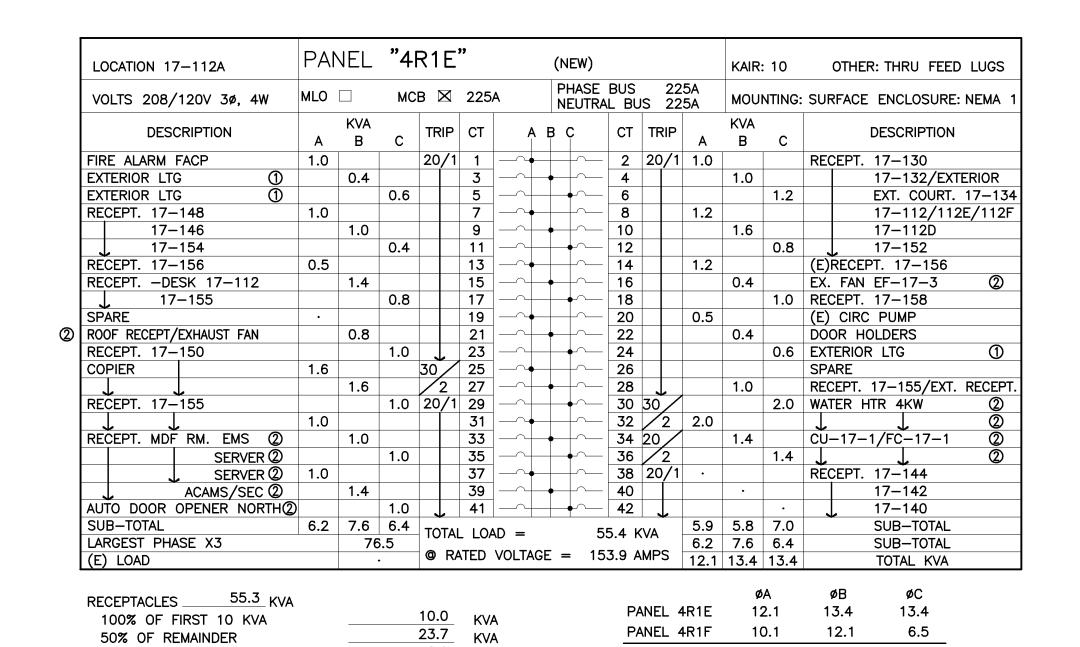
DATE AUGUST 27, 2009

DRAWN CEI
CHECKED CEI
SCALE NONE

SHEET NUMBER

N&T JOB NO.: 2901

E-4.0.1



2.0 _{KVA}

19.7 KVA

0.0 KVA

① LIGHTS @ 125% (1.6x1.25)

50% OF REMAINDER

LIGHTS @ 125%

OTHER

② EQUIPMENT @ 100%

② EQUIPMENT @ 100%

OTHER

TO	TAL			55.4	_	KVA		208	VOI	LTS	3 PI	HASE	=_	153	.9 AN	MPS.	
												F	ED	FROM	/ PAN	IEL 4R1	E
WORK ROOM LOCATION 17-118	PAI	NEL	"4	R1	F"			(NEW)	SEC ⁻	ΓΙΟΝ	1	К	AIR:	10	0	THER: TI	HRU FEED LUGS
VOLTS 208/120V 3ø, 4W	MLO	⋈ *	МС	В					E BUS RAL BU		225A 225A	M	10UN	ITING:	SURF	ACE EN	ICLOSURE: NEMA 1
DESCRIPTION	А	KVA B	С	TRI	IP (СТ	A	ВС	СТ	TRII	A		VA B	С		DES	SCRIPTION
RECEPT. 17-109	1.0			20,	/1	1		1	- 2	20/	1 1.0	0			RECE	PT. 17-	-120
17-111		1.0		İ		3		+	- 4	Í		1	.0			17-	-122
SPARE			•			5		+	- 6					1.0		17-	-124
RECEPT. 17-126	1.0					7		++	- 8		0.0	6			RECE	PT. 17-	–113
17-128		1.0				9		+	- 10			1	.8			17-	-113/115
SPARE			•		•	11		+	- 12					0.8		17-	–118
RECEPT. 17-112 COMPUTER	1.0				1	13		++	- 14		0.4	4				17-	-112/17-117
		1.0			1	15		+	- 16			1	.2			17-	-118 REFRIG.
COUNTERTOR			0.8		1	17		+	- 18					0.2			COUNTER
/EXTERIO	R 0.8				1	19		++	- 20		0.4	4					G.D.
VIDEO		1.0			- 2	21		+	- 22			1	.5				HOT PLATE @
Ţ			1.0		2	23		+	- 24					1.5			
17-107	1.0				2	25		++	- 26		1.7	7				17-	-113 G.D. 3/4HP
17-105		1.0			2	27		+	- 28			0).8				INSTA-HOT
17–103			1.0			29		+	- 30					0.2			COUNTER
17–101	1.0					31		++	- 32		0.5	2					\downarrow
COURTYARD/17-112		0.2				33		+	- 34			0).6		RECE	PT.17-	114/17-116/EF @
SPARE			•			35		+	- 36						SPAC	Έ	
	•				<u> </u>	37		++	- 38								
SPACE		•				39		+	- 40								
\downarrow			•		_ 4	41		+	- 42								
SUB-TOTAL	5.8	5.2	2.8	TO	TAL	ι 🗛	D -		28.2 k	Λ/Δ	4.	3 6	3.9	3.7		SU	B-TOTAL
LARGEST PHASE X3		45	5.3								5.8			2.8			B-TOTAL
(E) LOAD			•		KAII	FD '	VOLTAG	<u> </u>	78.3 A	MPS	10	.1 1:	2.1	6.5		TO	TAL KVA
* 150 AMP FEEDER																	
RECEPTACLES 33.1 KVA													ØΑ		ØE		øС
100% OF FIRST 10 KVA				10.0	0_	KVA			PA	ANEL	4R1F	=	10	.1	12	1	6.5

TOTAL

PANEL 4R1G 5.0

3.0

15.1 KVA 15.1 KVA 9.5 KVA

3.0

22.2 KVA 25.5 KVA 19.9 KVA

OTHER	TOTAL			28.2	KV KV			208	VOL	LTS	3 PH/	ASE =	78	.3 AN	MPS.	
												FED			IEL 4R1F	
WORK ROOM LOCATION 17-118	PAI	NEL	"4	R1G	"		((NEW)	SECT	TION	2	KAIR	: 10	0	THER: .	
VOLTS 208/120V 3ø, 4W	MLO	×	МС	В 🗆				PHASE NEUTRA			25A 25A	MOU	NTING:	: FLUS	H ENCLOSURI	E: NEMA
DESCRIPTION	Α	KVA B	С	TRIP	СТ	A	В	C	СТ	TRIF	A	KVA B	С		DESCRIPTION	I
RECEPT. 17-121	1.0			20/1	1				2	20/	1 1.0			DOOF	R OPENERS	Q
17-123		1.0			3	1	•		4	ĺ		1.0				2
17-125			1.0		5	1		→ ^_	6				•	SPAR	RE	
SPARE	•				7] —			8		1.0			DOOF	R OPENERS	(2
		•			9]	+		10			•		SPAR	RE	
RECEPT. 17-127			1.0		11]		<u></u>	12				•			
17-129	1.0				13	<u></u>			14							
17–131		1.0			15]	+		16							
17-133			1.0		17]		→ ^_	18							
17–135	1.0			ot	19	<u> </u>			20					SPAC	E	
SPACE		•			21]	+		22							
			•		23]	+	→ ^	24							
	•				25	<u> </u>			26							
		•			27]	•		28							
					29]		→ ^_	30							
	•				31	<u> </u>			32							
		•			33]	+		34							
			•		35]		→ ^	36							
					37	<u></u>	+		38							
					39]	+		40							
\downarrow					41	$1-\uparrow$		<u></u>	42							
SUB-TOTAL	3.0	2.0	3.0	TOTAL	ΙO	4D =		1	5.0 k	Δ\/Δ	2.0	1.0	Ø		SUB-TOTAL	
LARGEST PHASE X3		15	5.0				_				3.0	2.0	3.0		SUB-TOTAL	
(E) LOAD			•	@ RA	AIED	VOLTAG	E	= 4	1.7 A	MPS	5.0	3.0	3.0		TOTAL KVA	

___ø_ KVA

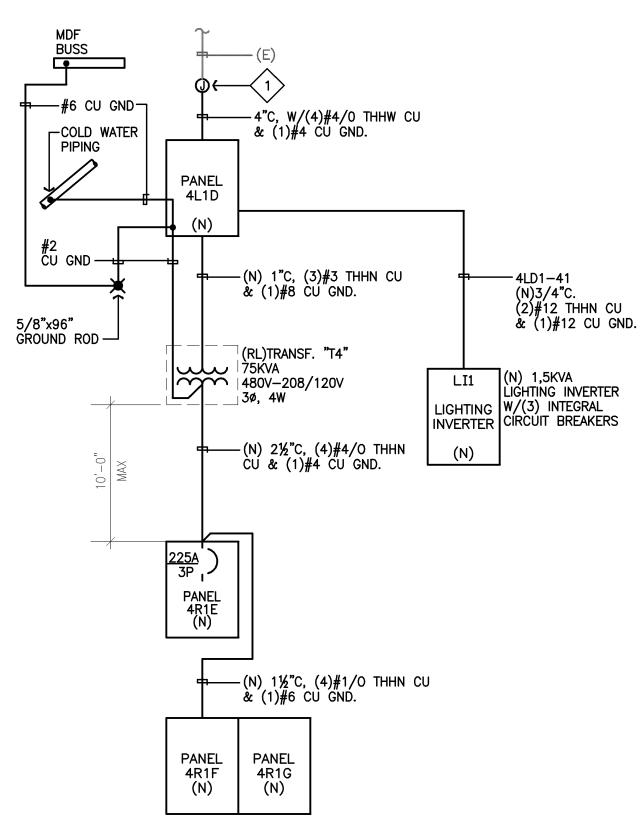
6.6 KVA

0.0 KVA

LOCATION	ON 17-112		PAN	NEL	"4l	_1D ³))		(NEW)				KAIR:	65	(OTHE	R: .	
VOLTS	TS 17-118 ① 17-155/MDF		MLO	×	MCI	в 🗆			PHASE NEUTRA			225A 225A	мои	NTING:	SUR	FACE	ENCLOSU	RE: NEMA
	DESCRIPTION		Α	KVA B	С	TRIP	СТ	A	ВС	СТ	TRI	P A	KVA B	С			DESCRIPTION	ON
LIGHTS	- OFFICE	1	2.1			20/1	1			2	20/	/1 2.1			LIGH	ITS	17-112	1
		1		2.3		ĺ	3	1	←	4	Í		2.3				OFFICE	1
		1			2.3		5	1	 • • • • • • • • • • • • • • • • • • •	6				0.8			17-112	1
TRANSF.	. T4		21.2			100/	7]	 	8		•			SPA	RE		
	PNL 4R1E,	/4R1F		25.5			9	1	—	10			0.6		LIGH	ITS	HALLWAY	3
					18.9	/ 3	11]	<u> </u>	12				•	SPA	RE		
LIGHTS	17–118	①	0.6				13] — ^ ф	 	14		•						
$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	17-155/M	DF		0.6			15]	┿ /	16			•					
SPARE					•		17		+-	18				•				
			•				19	<u> </u>	+	20		•						
				•			21	1	†	22			•					
					•		23	1	+	24	<u></u> ↓ ↓							
			•				25	<u> </u>	++		50							
				•			27	1	•	28								
					•		29	1	+^-	30		3				1		
SPARE			•			20 /	31] —^ +	++	32					SPĄ	CE		
				•		/_	33	1	•	34								
↓					•	/ 3	35	1	$\uparrow \uparrow \uparrow \uparrow$	36								
SPACE			•				37	1		38								
4 510 / 1	TO 1411/EDTES		1	•	1.0	00 /4	39	1—()		40								
	TG INVERTER	<u>(y)</u>	07.0	00.4	1.2	20/1	41		<u> </u>	42		0.4	0.0				CUD TOTA	1
SUB-TO			25.9	28.4		TOTAL	L LO	4D =	7	1.5 k	(VA	2.1	2.9	0.8			SUB-TOTA	
	GEST PHASE X3 LOAD			93	3.9	@ R/	ATED	VOLTAGE	= 8	6.1 A	MPS	23.9		22.4			SUB-TOTA	
(E) LOA	עע				•							26.0	31.3	23.2			TOTAL KV	Α

RECEPTACLES 55.3 KVA			3	PROVIDE	CIRCUIT	BREAKER	LOCK-ON.	
100% OF FIRST 10 KVA	10.0	KVA						
50% OF REMAINDER	22.7	KVA						
① LIGHTS @ 125% (15.3x1.25)	19.1	KVA						
② EQUIPMENT @ 100%	19.7	KVA						
OTHER	0.0	KVA						
TOTAL	71.5	KVA @	48	O VOL	TS 3 P	HASE =	86.1 AMP	S.

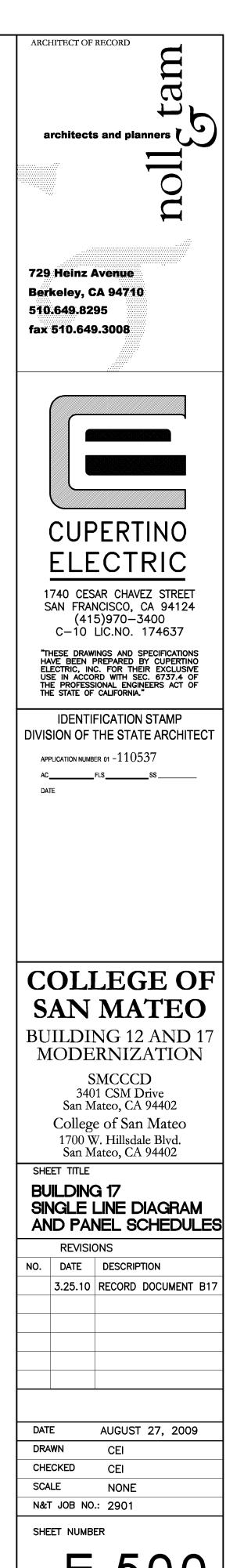
MECH. ROOM LOCATION: 17-112A	PANEL:	LIC	GHTI	NG	INVE	RTER	"	LI1"		KAIR: 42	OTHE	:R: —
VOLTS: 277V, 1ø, 3W	MAIN BF	REAKER:		MLC)	PHASE NEUTRA		20A IS 20A		MOUNTING:	: SURFACE	ENCLOSURE: NEMA 1
DESCRIPTION	A KV	'A C	TRIP	СТ	Ą	Ç	СТ	TRIP	Α	KVA C		DESCRIPTION
EXIT & EGRESS LTG	0.38		20/1	1			2				NOT AVA	ILABLE
		0.42		3	│ ───┼	— ~—	4					
	0.38			5	 		6					
SUB-TOTAL	0.76	0.42	TOTAL	10	\D _	1	1 Q L/	۸/۸	ø	Ø		SUB-TOTAL
LARGEST PHASE X2			TOTAL LOAD = 1.18 KVA						0.76	0.42	SUB-TOTAL	
(E) LOAD			∣OO RA	TED	VOLTAGE	. = 4	l.3 A	MPS	0.76	0.42		TOTAL KVA



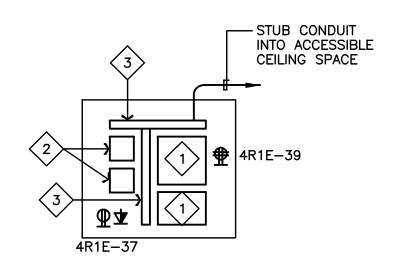


SHEET NOTE:

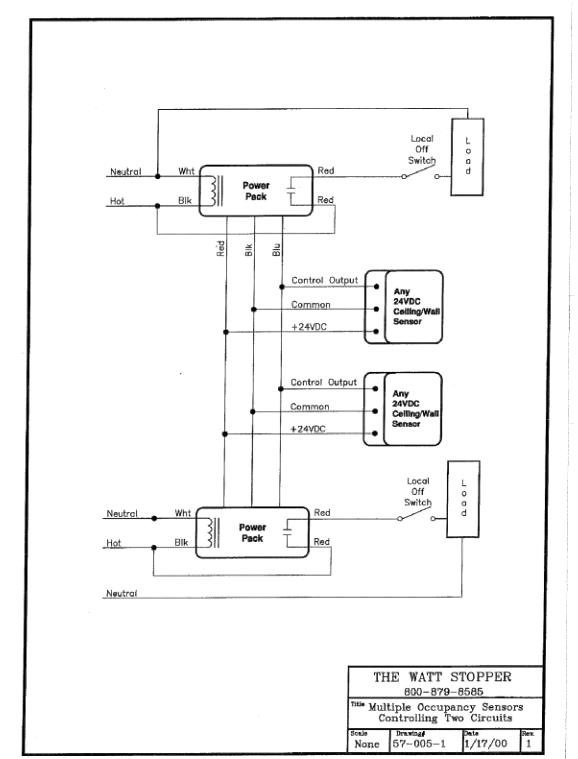
1) INTERCEPT EXISTING FEEDER AND EXTEND AS REQUIRED TO NEW PANELBOARD LOCATION.



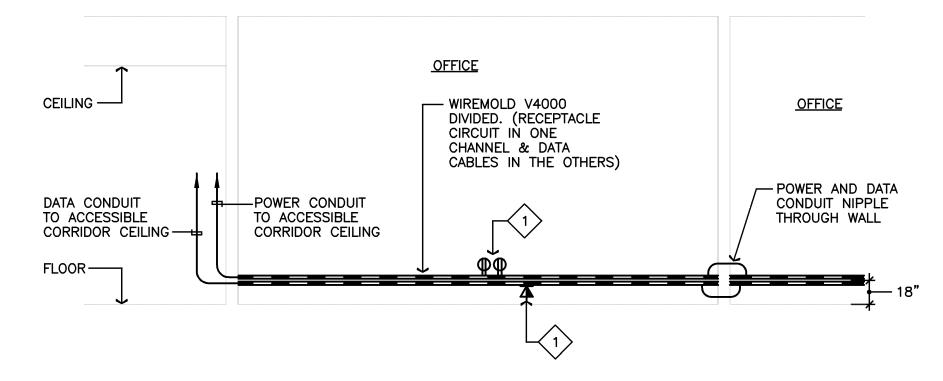
RD-3.24



6 ACAMS LAYOUT RM 17-112C



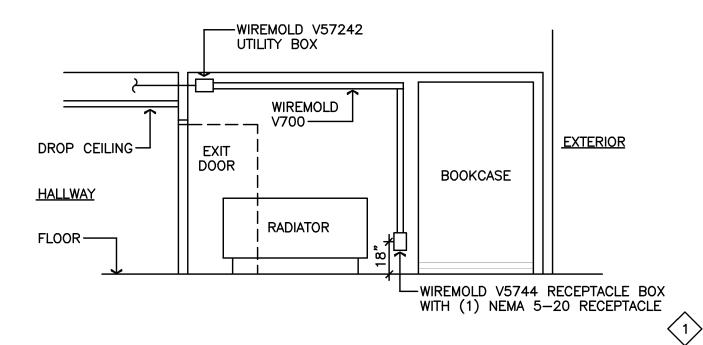
7 OCCUPANCY SENSOR SCHEMATIC
- N.T.S.



8 OFFICE RECEPTACLE LOCATION
- N.T.S.

DETAIL NOTE:

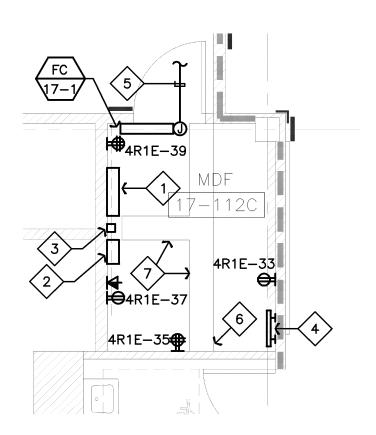
1) VERIFY RECEPTACLE AND DATA OUTLET LOCATIONS ON POWER PLANS.



4 OFFICE RECEPTACLE LOCATION

DETAIL NOTE:

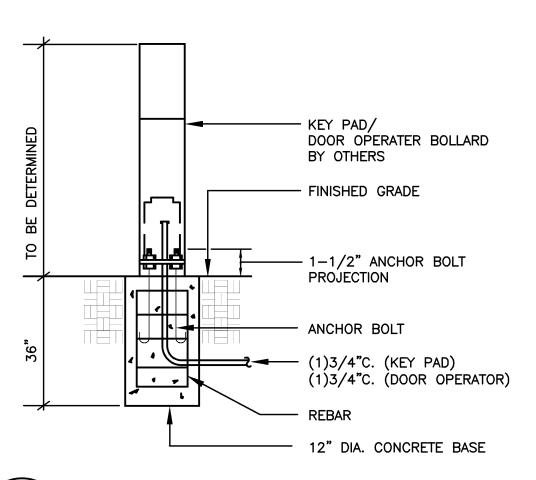
1 VERIFY DUPLEX RECEPTACLE LOCATION IN EACH ROOM.



5 BLDG 17 — MDF POWER PLAN

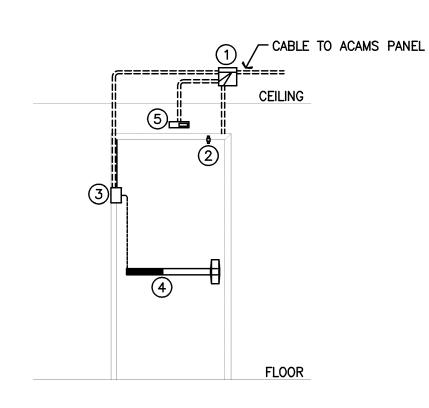
DETAIL 5 & 6 NOTES:

- 24"X24"X6" JUNCTION BOX WITH SCREW COVER. A CAM PANEL. SEE DETAIL 6/E-6.0.0.
- 2 12"X12"X6" JUNCTION BOX WITH SCREW COVER. A CAM PANEL. SEE DETAIL 6/E-6.0.0.
- 4"X4"X48" WIREWAY. WITH SCREW COVER. SEE DETAIL 6/E-6.0.0.
- 4 GROUND BUS. SEE DETAIL 1/E-6.0.0.
- 5 FAN COIL UNIT FC-17-1. ROUTE 3/4"C.O. (CONTROL) UP TO CONDENSING UNIT CU-17-1 ON ROOF. SEE UNIT WIRING DIAGRAM ON MECH. SHEFT AC6 01
- 6 SEE DETAIL 3/E-6.1.0, 4/E-6.1.0 & 5/E-6.1.0 FOR EQUIPMENT RACK ANCHORAGE DETAILS.
- 7 12" WIDE LADDER RACK ABOVE EQUIPMENT.



1 KEY PAD/DOOR OPERATOR BOLLARD

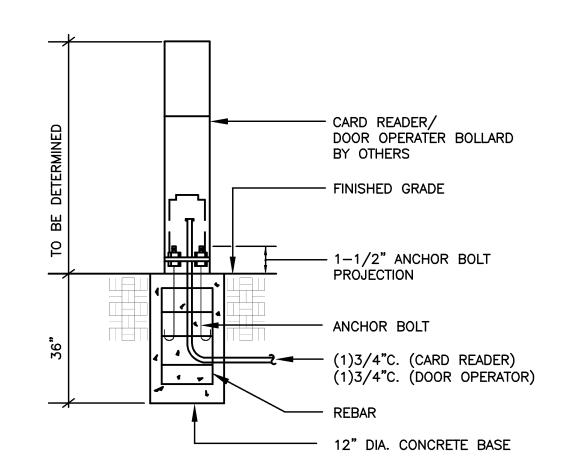
- N.T.S.



- 1) PROVIDE JUNCTION BOX 10' A.F.F.
- 2 STUB CONDUIT INTO HEADER OF DOOR FRAME FOR DOOR CONTACT. INSTALL DOOR CONTACT 6" FROM HANDLE SIDE EDGE.
- (3) STUB CONDUIT DOWN DOOR FRAME FOR ELECTRIC POWER TRANSFER.
- (4) ELECTRIFIED PANIC BAR.
- (5) REQUEST TO EXIT MOTION SENSOR.

THIS DOOR IN UNLOCKED DURING SCHOOL HOURS AND THE DOOR CONTACTS ALARM FUNCTION IS DISABLED. AFTER HOURS THE DOOR IS LOCKED FROM THE OUTSIDE AND THE DOOR CONTACT IN ENABLED. THE REQUEST TO EXIT SHALL SERVE TO GRANT EGRESS AFTER HOURS.

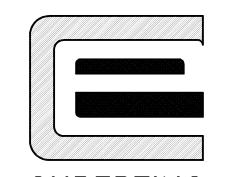




CARD READER/DOOR
OPERATOR BOLLARD
N.T.S.

729 Heinz Avenue
Berkeley, CA 94710
510.649.8295
fax 510.649.3008

ARCHITECT OF RECORD



CUPERTINO ELECTRIC

1740 CESAR CHAVEZ STREET SAN FRANCISCO, CA 94124 (415)970-3400 C-10 LIC.NO. 174637

"THESE DRAWINGS AND SPECIFICATION HAVE BEEN PREPARED BY CUPERT ELECTRIC, INC. FOR THEIR EXCLUSUSE IN ACCORD WITH SEC. 6737.4 THE PROFESSIONAL ENGINEERS ACT

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER 01 –110537

AC______FLS______SS_____

DATE

COLLEGE OF SAN MATEO

BUILDING 12 AND 17 MODERNIZATION

SMCCCD 3401 CSM Drive San Mateo, CA 94402 College of San Mateo 1700 W. Hillsdale Blvd.

San Mateo, CA 94402

SHEET TITLE

DETAILS

REVISIONS

NO. DATE DESCRIPTION

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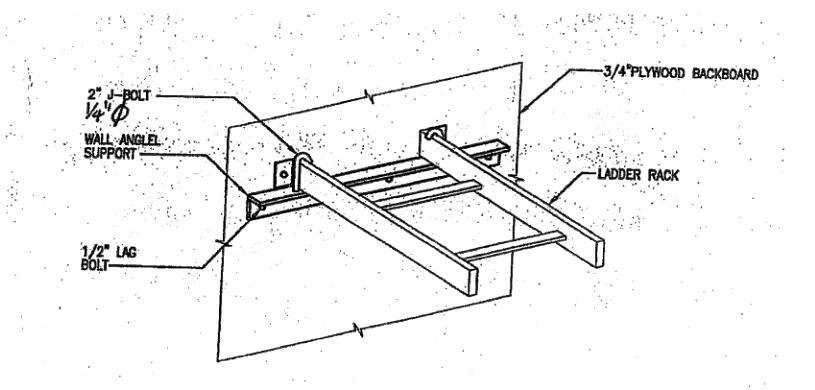
DATE AUGUST 27, 2009
DRAWN CEI
CHECKED CEI

N&T JOB NO.: 2901
SHEET NUMBER

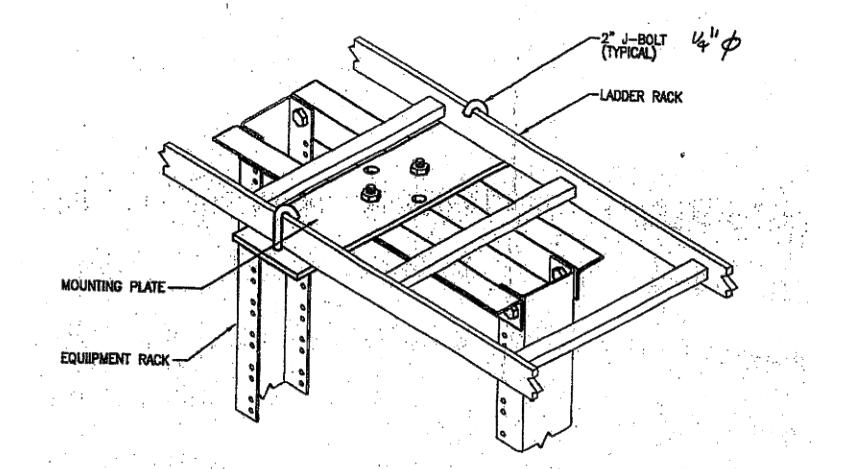
SCALE

E-6.0.0

NONE



3 LADDER RACK WALL MOUNTING DETAIL
- N.T.S.

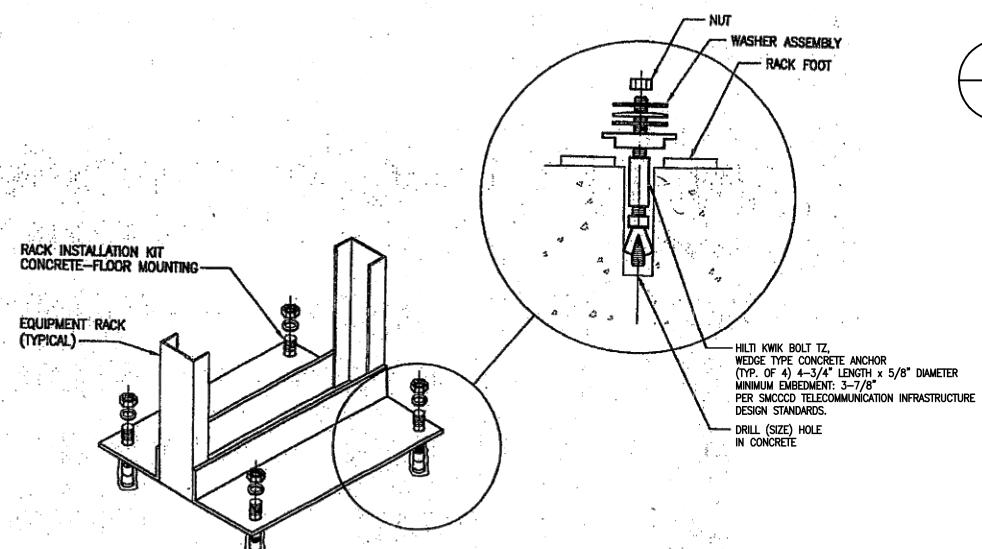


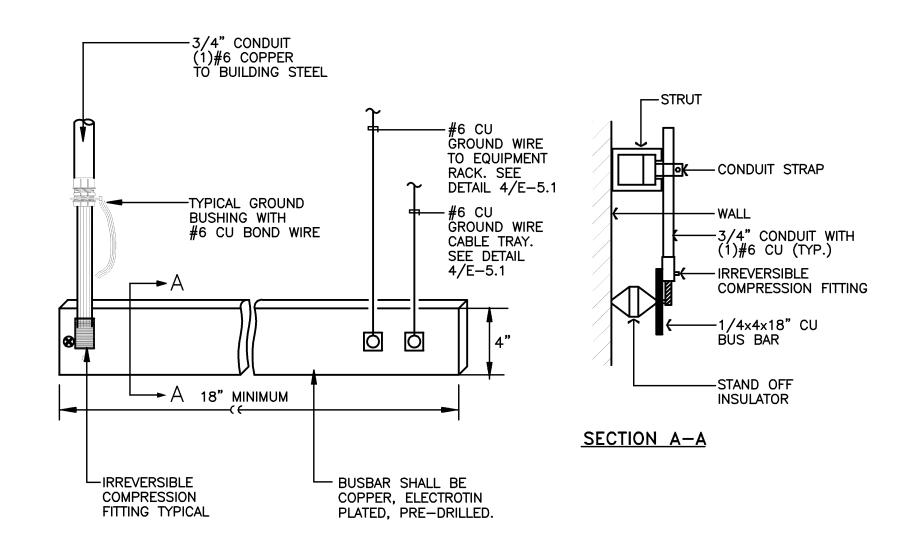
EQUIPMENT RACK TO LADDER RACK

MOUNTING DETAIL

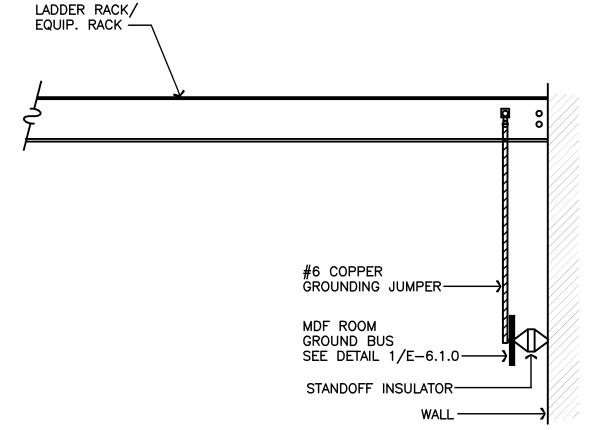
N.T.S.

\EQUIPMENT RACK AHCHORAGE





1 MDF GROUND BUS DETAIL
- N.T.S.



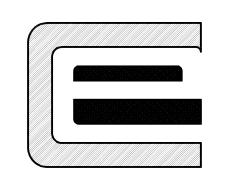
2 LADDER RACK / EQUIPMENT RACK
- GROUNDING DETAIL

N.T.S.

729 Heinz Avenue
Berkeley, CA 94710
510.649.8295

fax 510.649.3008

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SCALE AS NOTED

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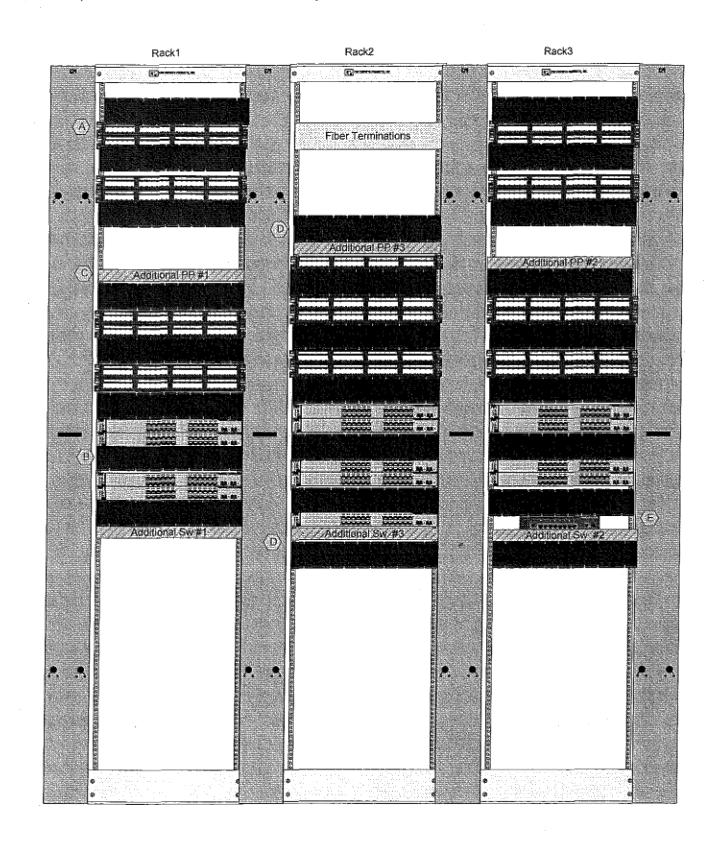
SHEET NUMBER

E-6.1.0

Rack Layout for BLDG 15.

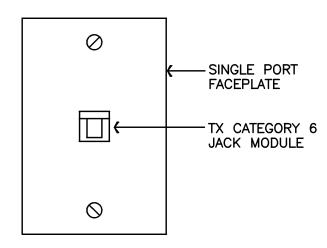
Assuming 13-24port patch panels

- A Twisted Pair terminations. 100 pairs on Rack 1, the other 100 on Rack3
- B Contractor needs to supply horizontal cable managers for switches as well as patch panels.
 C If more then 13 patch panels are needed, then added above starting Rack1 and then Rack 3.
- D If 2 patch panels are added to any rack then additional horizontal cable manger will need to be provided.
- E 8 port Switch for ACAMS Panel and Security Camera

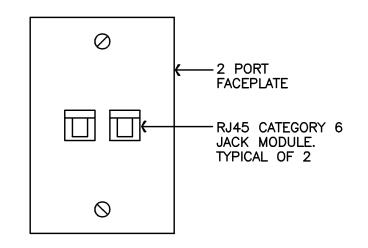


5 MDF RACK ELEVATION (FRONT)

N.T.S.

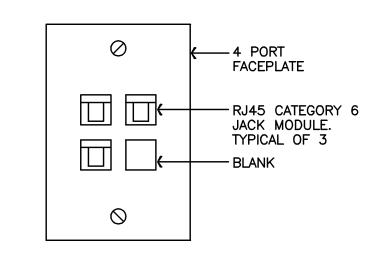


1 SINGLE JACK WALL TELEPHONE OUTLETS (▼)
- N.T.S.

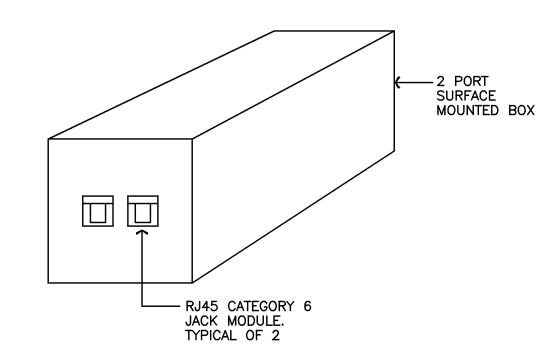


DOUBLE JACK WORK AREA OUTLETS (□)

N.T.S.

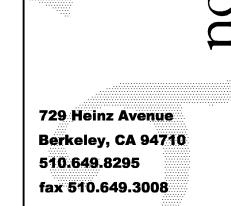


TRIPLE JACK WORK AREA OUTLETS (**)

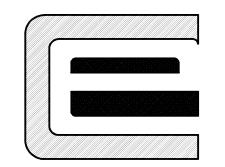


WIRELESS ACCESS POINT (WAP) ABOVE CEILING (೨▽)

N.T.S.



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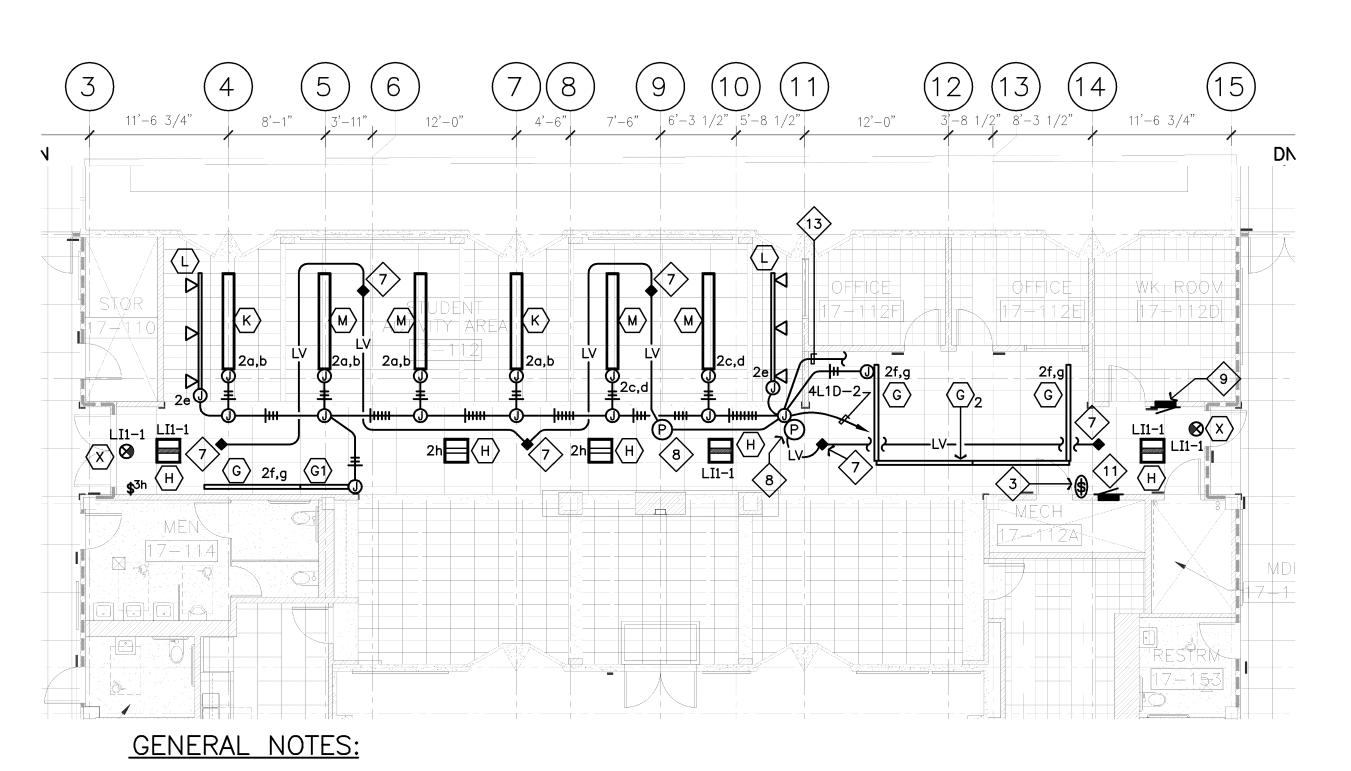
DRAWN CEI
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SCALE AS NOTED

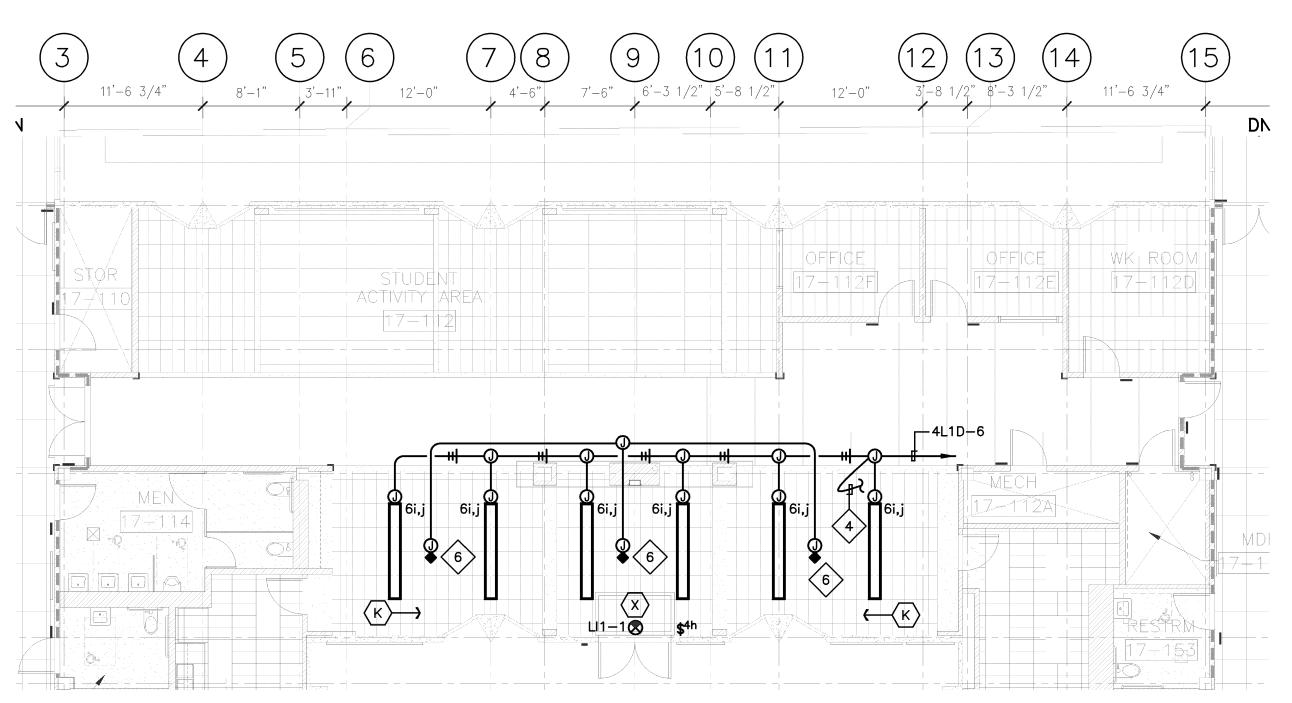
N&T JOB NO.: 2901

SHEET NUMBER

E-6.2.0



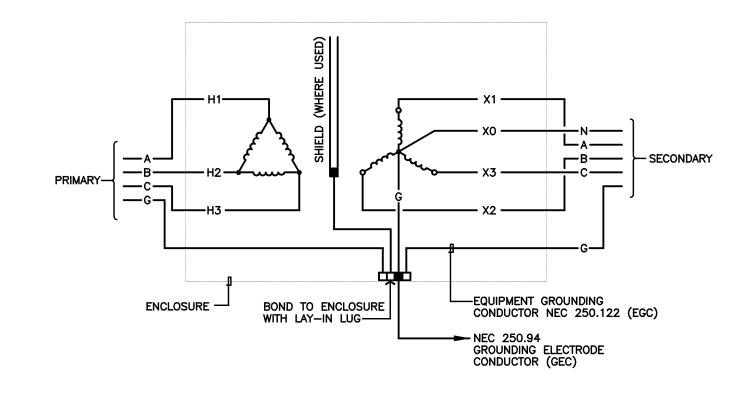
G1. OCCUPANCY SENSORS ($\sqrt{7}$) IN THIS AREA CONTROL LIGHT SWITCHES REFER TO SHEET E-3.2.1. FOR ADDITIONAL SHEET NOTES (\sqrt{x}). REFER TO DETAILS 2/E-3.2.1 AND 3/E-3.2.1 FOR SWITCHING DETAILS.

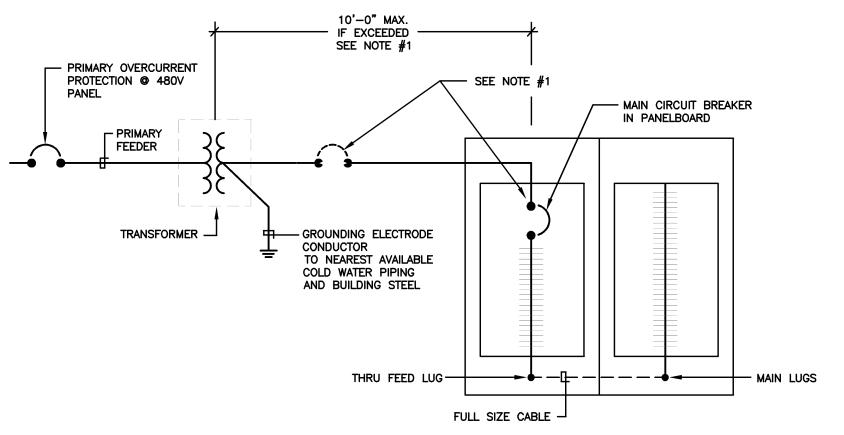


GENERAL NOTES:

G1. OCCUPANCY SENSORS ($\stackrel{6}{\bigcirc}$) IN THIS AREA CONTROL LIGHT SWITCHES REFER TO SHEET E-3.2.1. FOR ADDITIONAL SHEET NOTES ($\stackrel{\checkmark}{\bigcirc}$). REFER TO DETAILS 2/E-3.2.1 AND 3/E-3.2.1 FOR SWITCHING DETAILS.

RM 17-112 OCCUPANCY SENSOR CONTROL





TRANSFORMER FEEDING BRANCH CIRCUIT PANELBOARD(S)

. IF LENGTH OF FEEDER EXCEEDS 10'-0" PROVIDE OVERCURRENT PROTECTION AT SECONDARY SIDE OF TRANSFORMER AND MAIN LUGS ONLY IN PANELBOARD. THE LENGTH OF THE FEEDER MAY BE 25'-0" LONG FOR INDUSTRIAL INDSTALLATIONS.



BRANCH CKT LENGTHS FOR VOLTAGE DROP

#12	CU	#10	CU	#8	#8 CU		
3%	5%	3%	5%	3%	5%		
100FT	160FT	160FT	260FT	250FT	415FT		
80FT	140FT	130FT	220FT	210FT	345FT		
70FT	120FT	110FT	185FT	180FT	295FT		
60FT	100FT	100FT	160FT	155FT	260FT		
100.1	1.00.1	1.00	1.00	1.00.1	1200. 1		
	3% 100FT 80FT 70FT	100FT 160FT 80FT 140FT 70FT 120FT	3% 5% 3% 100FT 160FT 160FT 80FT 140FT 130FT 70FT 120FT 110FT	3% 5% 3% 5% 100FT 160FT 160FT 260FT 80FT 140FT 130FT 220FT 70FT 120FT 110FT 185FT	3% 5% 3% 5% 3% 100FT 160FT 260FT 250FT 80FT 140FT 130FT 220FT 210FT 70FT 120FT 110FT 185FT 180FT		

	#12	CU	#10	cu	#8 CU		
LOAD	3%	5%	3%	5%	3%	5%	
10A	271FT	452FT	432FT	720FT	648FT	1080FT	
12A	225FT	376FT	357FT	597FT	538FT	898FT	
14A	191FT	318FT	305FT	510FT	460FT	770FT	
16A	166FT	277FT	265FT	443FT	403FT	670FT	

HOMERUN S	SCHEDULE	(OVERSIZED	NEUTRAL)	HOMERUN SCHEDULE						
NO. OF CURRENT CARRYING CONDUCTORS	PHASE & NEUTRAL CONDUCTOR WIRE SIZE	GROUND WIRE SIZE	MIN. CONDUIT SIZE	NO. OF CURRENT CARRYING CONDUCTORS	PHASE & NEUTRAL CONDUCTOR WIRE SIZE	GROUND WIRE SIZE	MIN. CONDUIT			
1 TO 6	#12 & #10N	#12	3/4°C	1 TO 6	#12 & #12N	#12	3/4°C			
7 TO 9	#12 & #10N	#12	3/4"C	7 TO 9	#12 & #12N	#12	3/4°C			
10 TO 15	#10 & #8N	#10	1"C	10 TO 15	#10 & #10N	#10	1"C			
16 TO 20	#10 & #8N	#10	1 1/4°C	16 TO 20	#10 & #10N	#10	1 1/4°C			

NOTE 2: PROVIDE 1 GROUND WIRE PER HOMERUN

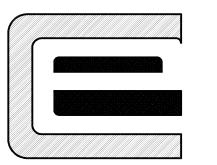
NOTE 3: CURRENT CARRYING CONDUCTORS INCLUDES THE NEUTRAL

NOTE 4: FURNISH AND INSTALL THHN Cu CONDUCTORS IN ALL HOMERUNS

NOTE 5: PROVIDE OVERSIZED NEUTRAL TO OFFICES, ELECTRIFIED PARTITIONS, COMPUTERS & DATA/TELCO EQUIPMENT.

ARCHITECT OF RECORD

729 Heinz Avenue Berkeley, CA 94710 510.649.8295 fax 510.649.3008



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SHEET TITLE **DETAILS**

REVISIONS NO. DATE DESCRIPTION 8/3/10 RECORD DOCUMENT

AUGUST 27, 2009

DRAWN CEI CHECKED CEI

SHEET NUMBER

N&T JOB NO.: 2901

SCALE

AS NOTED