

ELECTRICAL SPECIFICATION

1. GENERAL

THE PROVISIONS OF THE GENERAL CONDITIONS ARE PART OF THIS SECTION AS THOUGH FULLY SET FORTH HEREIN. BEFORE SUBMITTING THIS BID, THE BIDDER SHALL VISIT THE SITE, DETERMINE ANY EXISTING CONDITIONS WHICH MAY AFFECT THE COST OF WORK UNDER THIS SECTION, AND INCLUDE ALLOWANCE FOR SUCH IN HIS BID.
2. WORK INCLUDED:

FURNISH MATERIALS AND PERFORM LABOR REQUIRED TO EXECUTE THIS WORK AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS NECESSARY TO COMPLETE THE CONTRACT, INCLUDING, BUT NOT LIMITED TO THESE MAJOR ITEMS:

A. PROVIDE NEW DISTRIBUTION BOARD.

B. PROVIDE NEW BRANCH CIRCUITS, WIRING, OUTLETS, LIGHTING FIXTURES AND WIRING DEVICES AS SHOWN AND SCHEDULED.

C. PROVIDE ALL REQUIRED LAMPS.

D. PROVIDE DATA/TELEPHONE OUTLETS WITH CONDUIT STUBBED INTO CEILING SPACE AND WITH NYLON PULL CORD.

E. PROVIDE SUPPORTS FOR FOR ALL LIGHT FIXTURES.

F. TEST THE COMPLETED WORK. CORRECT ANY DEFECTS TO THE SATISFACTION OF CLIENT REPRESENTATIVE.
3. ELECTRICAL DRAWINGS:

IN GENERAL, THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATIONS OF OUTLETS AND EQUIPMENT AND THE CIRCUIT ARRANGEMENT OF THE REQUIRED WIRING. ALTHOUGH NOT NECESSARILY INDICATING THE ACTUAL RUNS OF CONDUCTORS, THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS COORDINATION WITH THE WORK OF OTHER TRADES AND THE SITUATION WILL PERMIT. THE DRAWINGS ARE NOT INTENDED TO BE SCALED, AND THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LIMITATIONS OF THE BUILDING STRUCTURE AND FINISH. ANY DISCREPANCIES, CONFLICTS, OR QUESTIONABLE POINTS SHALL BE IMMEDIATELY REPORTED TO ENGINEER. IF THE RELOCATION OF ANY OUTLETS IS REQUIRED, IT SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA COST, PROVIDED THE NEW LOCATIONS NOT MORE THAN FIVE FEET FROM LOCATION SHOWN ON THE DRAWINGS AND PROVIDED THE CHANGE IS ORDERED BEFORE THE OUTLET IS INSTALLED. ALL ITEMS NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS OR NOTED ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION SHALL BE INCLUDED.
4. ORDINANCE REQUIREMENTS:

THE ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND OTHER LEGAL REQUIREMENTS. IN CASE OF CONFLICTS BETWEEN CODE REQUIREMENTS, THE MOST RESTRICTIVE SHALL APPLY, EXCEPT THAT WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS EXCEED CODE REQUIREMENTS, THE SPECIFICATION SHALL GOVERN. ALL LIGHTING WORK SHALL COMPLY WITH STATE OF CALIFORNIA TITLE 24 REQUIREMENTS.
5. PERMITS AND INSPECTIONS:

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED FOR THE EXECUTION OF HIS WORK. HE SHALL ARRANGE FOR A PAY FOR ALL REQUIRED TESTS AND INSPECTIONS. HE SHALL GIVE ALL NOTICES REQUIRED BY ANY AND ALL LAWS, RULES, REGULATIONS AND ORDINANCES WHICH PERTAIN TO HIS WORK.
6. TESTS:

CONTRACTOR SHALL CONDUCT SUCH TESTS OF ANY PORTION OF INSTALLATION AS MAY BE NECESSARY TO INSURE FULL COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS. THE COST OF TESTING SHALL BE BORNE BY THE CONTRACTOR AND CONTRACTOR SHALL PROVIDE ALL INSTRUMENTS, EQUIPMENT, LABOR AND MATERIALS TO COMPLETE TEST. SHOULD THESE TESTS INDICATE ANY DEFECT IN MATERIALS OR POOR WORKMANSHIP OR VARIANCE WITH REQUIREMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL MAKE ANY CHANGES NECESSARY AND REMEDY ANY DEFECTS AT HIS OWN EXPENSE.
7. GUARANTEE:

EQUIPMENT AND ACCESSORIES INSTALLED UNDER THIS SECTION SHALL CARRY THE MANUFACTURER'S GUARANTEE FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE EQUIPMENT. THE CONTRACTOR SHALL GUARANTEE IN WRITING, IN A FORM ACCEPTABLE TO CLIENTS, THE ENTIRE ELECTRICAL INSTALLATION AGAINST DEFECTIVE MATERIALS AND IMPROPER WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. DURING THE PERIOD COVERED BY THE GUARANTEE, CONTRACTOR SHALL MAKE NECESSARY REPLACEMENTS AND REPAIRS AT NO COST TO CLIENT.
8. COOPERATION WITH OTHERS:

THE CONTRACTOR SHALL CONSULT AND COOPERATE FULLY WITH ALL OTHER CONTRACTORS FURNISHING LABOR, MATERIALS, OR SERVICES, SO THAT THE WORK, AS A WHOLE SHALL BE EXECUTED IN THE MOST EFFICIENT MANNER, AND WITHOUT CONFLICT OR DELAY.
9. MATERIALS:

ALL MATERIALS AND EQUIPMENT USED IN THE ELECTRICAL WORK HEREIN SPECIFIED SHALL BE NEW (UNLESS OTHERWISE NOTED OR SCHEDULED), AND SUITED TO THE INTENDED USE, AND SHALL BE LISTED BY THE UNDERWRITERS' LABORATORIES, INC., AND SHALL MEET THEIR REQUIREMENTS AND BEAR THEIR LABEL WHENEVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY. ALL MATERIALS AND EQUIPMENT SHALL BE OF THE MAKES AND TYPES SPECIFIED, AND NO SUBSTITUTIONS WILL BE ALLOWED UNLESS APPROVED IN WRITING BY ENGINEER. ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR EQUIPMENT, EITHER BEFORE OR AFTER INSTALLATION, IF,IN HIS OPINION, THE MATERIAL, EQUIPMENT, OR INSTALLATION IS NOT IN COMPLIANCE WITH THESE SPECIFICATIONS.
10. CONDUIT INSTALLATION:

ALL CONDUITS INSTALLED IN FINISHED AREAS SHALL BE CONCEALED EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED. ELECTRIC METALLIC TUBING, IN SIZE TWO INCHES OR SMALLER, SHALL BE USED WHERE EXPOSED TO DRY LOCATIONS, IN STUD WALLS, FURRED CEILINGS AND SIMILAR LOCATIONS. FLEXIBLE STEEL CONDUIT SHALL BE USED, IN SHORT LENGTHS, FOR FINAL CONNECTIONS TO LIGHTING FIXTURES AT LOCATIONS WHERE E.M.T. IS IMPRACTICAL. USE RIGID STEEL CONDUIT FOR ANY OTHER INSTRUCTIONS. USE OF ROMEX, MC CABLES OR OTHER TYPES OF SIMILAR WIRING METHODS WILL NOT BE PERMITTED. SUPPORT HORIZONTAL RUNS OF CONDUIT NOT MORE THAN 10' OF CENTER. INSTALL ALL RACEWAYS TRUE & PARALLEL TO BUILDING LINES. MINIMUM SIZE OF CONDUIT USED IN PROJECTS SHALL BE 1/2" DIAMETER. CONDUITS INSTALLED IN TRENCHES SHALL BE PVC, SCHEDULE 40.
11. WIRE AND CABLE:

FURNISH AND INSTALL WIRES AND CABLES OF THE SIZE AND TYPE SHOWN ON DRAWINGS AND AS SPECIFIED HEREIN. UNLESS OTHERWISE SPECIFIED ALL WIRE AND CABLE SHALL BE U.L. STANDARD ANNEALED COPPER WIRE WITH U.S. 600-VOLT INSULATION. WIRES SHALL BE TYPE "THW", "THHN" OR "THHW". ALL BRANCH CIRCUIT WIRE NO.12 THROUGH NO.8 SHALL BE COLOR CODED. POWER CIRCUITS SHALL BE BLACK, RED, AND YELLOW. LIGHTING CIRCUITS SHALL BE WHITE, AND THREE COLORS. GREEN WIRES SHALL BE USED ONLY FOR EQUIPMENT GROUND.
12. CONDUCTOR IDENTIFICATION:

ALL POWER AND LIGHTING FEEDERS SHALL BE TAGGED AT EACH POINT WHERE THE CONDUIT RUN IS BROKEN. ALL BRANCH CIRCUIT CONDUCTORS AT PANELBOARDS AND SWITCHBOARDS SHALL BE IDENTIFIED WITH "E-Z" CODE MARKERS.
13. WIRING DEVICES:

ALL WIRING DEVICES SHALL BE FIRST QUALITY, "SPECIFICATION" GRADE, AND SHALL BE OF COLOR SELECTED BY ARCHITECT. EQUIVALENT ITEMS MAKE BY ARROW-HART, HUBBELL OR SIERRA WILL BE CONSIDERED EQUAL AND ACCEPTABLE.
14. LIGHTING FIXTURES:

THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES AS INDICATED ON DRAWINGS. CONTRACTOR SHALL PROVIDE HANGERS AND ACCESSORIES NECESSARY TO MAKE A COMPLETE INSTALLATION. COORDINATE ALL LIGHTING INSTALLATION WITH REFLECTED CEILING PLAN PROVIDED BY ARCHITECT. VERIFY EXACT FIXTURE TYPE, LENS AND FINISHES WITH ARCHITECT, UNLESS FIXTURE CATALOG NUMBER AND MANUFACTURER ARE INDICATED ON ELECTRICAL PLANS.
15. EQUIPMENT CONNECTION:

IT SHALL BE CLEAR THAT ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS FROM J-BOX OR DISCONNECT SWITCH TO HVAC, PLUMBING, KITCHEN, OR OTHER TYPE OF EQUIPMENT, UNLESS IT IS SPECIFICALLY STATED THAT THOSE CONNECTION SHALL BE MADE BY OTHERS.
16. EQUIPMENT CONTROLS AND INTERLOCK:

CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH ALL CONTROL-INTERLOCK REQUIREMENTS AND DIAGRAMS INDICATED ON HVAC, PLUMBING AND OTHER TRADE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL DEVICES (MAGNETIC MOTOR STARTERS, RELAYS, SELECTOR SWITCHES, PUSH BUTTON STATIONS, ETC.) AND PROVIDE ALL NECESSARY WIRING, CONDUIT SYSTEM AND CONNECTIONS TO HAVE A COMPLETE AND OPERABLE CONTROL-INTERLOCK SYSTEM, UNLESS THIS WORK IS SPECIFICALLY EXCLUDED FROM CONTRACTOR'S SCOPE OF WORK.
17. SWITCHBOARDS, PANELBOARDS AND PANELS DIRECTORIES:

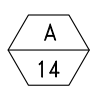




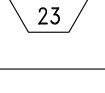
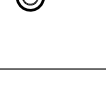
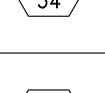

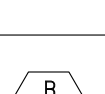
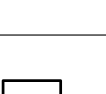
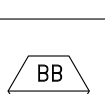
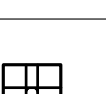
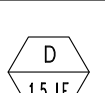

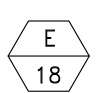

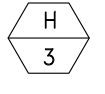
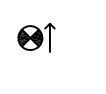
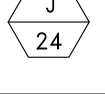

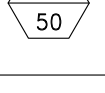
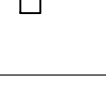
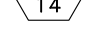



CONTRACTOR SHALL PROVIDE ACCURATE AND CORRECT PANELBOARD AND PANEL DIRECTORIES WITH INDICATION OF CIRCUIT NUMBER, TYPE OF LOAD AND LOAD SIZE FED BY THIS CIRCUIT.
18. ELECTRICAL BOXES:

MOUNT BOXES TO BUILDING STRUCTURE WITH SUPPORTING FACILITIES INDEPENDENT OF RACEWAYS ENTERING OF LEAVING BOXES. SET BOXES SQUARE AND TRUE WITH RESPECT TO BUILDING FINISHED SURFACES.
19. EXISTING OBSTRUCTIONS:

WHERE REQUIRED INSTALLATION OF ELECTRICAL EQUIPMENT AND DEVICES INTERFERES WITH EXISTING BUILDING STRUCTURAL, HVAC OR OTHER OBSTRUCTIONS, INSTALL ELECTRICAL EQUIPMENT IN THE NEAREST VICINITY OF INDICATED LOCATION CLEAR OF ANY OBSTRUCTIONS. VERIFY AND MAINTAIN ALL CODE REQUIRED CLEARANCES. NOTIFY ENGINEER OF POSSIBLE CONFLICTS PRIOR TO EQUIPMENT INSTALLATIONS.
20. CLEANING:



















THE ELECTRICAL CONTRACTOR SHALL REMOVE FROM SITE ALL PACKING CARTONS, SCRAP MATERIALS, AND OTHER RUBBISH AND LEAVE THE PREMISES IN A CONDITION ACCEPTABLE TO THE CLIENT.

INDOOR/OUTDOOR LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	COMMENTS
		LUM-TECH 6" LED 14W RECESSED DOWNLIGHT LEDH-CFK6-14-8-30-UZTD-LEDT-R64-WH -	TRIM AND COLOR BY ARCHITECT - -
		SAME AS FIXTURE ABOVE, WITH 90 MINUTE EMERGENCY BACK UP LEDH-CFK6-14-8-30-LEDT-R64-WH-EM -	1867 LUMENS PER FIXTURE - -
		LUM-TECH 6" LED 23W RECESSED DOWNLIGHT - LEDH-CFK6-14-8-30-UZTD-LEDT-R64-WH -	- - -
		SAME AS FIXTURE ABOVE, WITH 90 MINUTE EMERGENCY BACK UP LEDH-CFK6-14-8-30-LEDT-R64-WH-EM -	2200 LUMENS PER FIXTURE - -
		LUM-TECH 6" LED RECESSED DOWNLIGHT - EXTERIOR APPROVED "THW", "THHN" OR "THHW" LUM-TECH LIGHTING	- - -
		LUM-TECH 6" LED RECESSED DOWNLIGHT - EXTERIOR APPROVED WALL WASHER LEDH-CFK6-14-8-30-LEDT-R636-WH -	- - -
		2' x 2', RECESSED FIXTURE AT1-22-L40/835-DIM-UNV H.E. WILLIAMS	4000 LUMENS PER FIXTURE - -
		2' x 2', RECESSED FIXTURE AT1-22-L50/835-DIM-UNV H.E. WILLIAMS	5000 LUMENS PER FIXTURE - -
		UNDER CABINET LIGHTING SSL-UNDERLINE EDGE UNLE-VIERES-3K-WH -	COLORS, FINISHES ETC, BY THE ARCHITECT - -
		MIRROR-LUX-ADA - MLWC4018 MIRROR WITH LIGHTS MANUFACTURER: AAMSCO LIGHTING GROUP	- - -
		EXIT SIGN EELP - SURFACE MOUNTED LED EDGELITEXIST SIGN EDG-1-6-W-W-EM-SD 90 MINUTE EMERGENCY BACK UP SYSTEM.	300 LUMENS PER LAMP. - -
		FC LIGHTING WALL SCONCE WET LOCATION FCW1011LED -	- - -
		WALL SCONCE, LED DESIGNEDF FOR OUTDOOR LOCATION. TO BE SELECTED BY ARCHITECT ASSUME MAXIMUM 50 WATT	- - -
		3" LED RECESSED DOWNLIGHT DLED9531-14-UZTD-TML234ST-14-8-35-M-WH LUM TECH	- - -

ELECTRICAL SYMBOLS

FOR LIGHTING FIXTURE LEGEND, SEE FIXTURE SCHEDULE, SAME DRAWING.

- **LIGHTING TOGGLE SWITCH,SUBSCRIPT "a" DENOTES OUTLET CONTROLLED**
D - DENOTES DIMMER
- **CONVENIENT DUPLEX OUTLET, 120 V, 1 PHASE, 20 A +15" A.F.F. U.O.N.**
- **DOUBLE DUPLEX OUTLET, 120 V, 1 PHASE, 20 A +15" A.F.F. U.O.N.**
- **DUPLEX OUTLET ON DEDICATED CIRCUIT**
- **FLOOR MOUNTED DUPLEX OUTLET.**
- **FLOOR MOUNTED QUAD OUTLET.**
- **JUNCTION BOX**
- **CONDUIT RUN CONCEALED IN WALL OR CEILING, 2#12 + 1#12 GND, 1/2" C**
- **3#12 + 1#12 GND, 1/2" C**
- **4#12 + 1#12 GND, 1/2" C**
- **"D"-2**
HOME RUN TO PANEL "D", CIRCUIT #2
- **TELEPHONE /DATA OUTLET, 15" A.F.F. U.O.N. STUB 3/4" C.O. TO THE SPACE ABOVE CEILING**
- **PANEL, 120/208V, 3 PHASE, 4 WIRE, RATING AS NOTED**
- **LIGHTING FIXTURE DESCRIPTION, FIXTURE TYPE "A", TOTAL WATTAGE INCLUDING CONTROLLERS: 14 WATTS**
- **ROOM NUMBER**
- **NUMBERED NOTES**
- **FUSED DISCONNECT SWITCH, RATING AS NOTED.**
- **MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION.**

ABBREVIATIONS

- A****AMPERE**
- A.F.F.****ABOVE FINISHED FLOOR**
- C.O.****CONDUIT ONLY**
- GFI****GROUND FAULT INTERRUPTER**
- U.O.N.****UNLESS OTHERWISE NOTED**
- V****VOLT**
- W****WATT**
- WP****WEATHER PROOF**



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ELECTRICAL LEGEND, SHORT SPECS
& LIGHTING FIXTURE SCHEDULE

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GENERAL		ELECTRICAL DEVICES, EQUIPMENT AND INSTALLATION	
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1		ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE LISTED, LABELED OR CERTIFIED FOR ITS USE BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL)	CEC 110.2
2		LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BY ITS MANUFACTURER.	CEC 110.3(B)

GENERAL		DEVICE IDENTIFICATION	
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1	LIFE SAFETY CRITICAL	ALL RECEPTACLES AND LIGHT SWITCHED CONNECTED TO EMERGENCY SYSTEM SHALL HAVE A DISTINCTIVE MARKING OR COLOR TO IDENTIFY THEY ARE ON EMERGENCY SYSTEM.	CEC 517.30(E) CEC 517.41(E)
2	CRITICAL	ALL RECEPTACLES IN CRITICAL CARE PATIENT AREAS SHALL BE MARKED WITH THE PANEL AND CIRCUIT NUMBER SUPPLYING THEM	CEC 517.19(A)
3		IDENTIFY ALL BOXES AND ENCLOSURES ON EMERGENCY SYSTEM.	CEC 700.10(A)
4		PANELBOARDS SHALL HAVE AN ACCURATE CIRCUIT DIRECTORY.	CEC 408.4(A)
5		ALL SWITCHBOARD AND PANELBOARDS SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE POWER SUPPLY ORIGINATES.	CEC 408.4(B)
6		ELECTRICAL EQUIPMENT SHALL BE MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS.	CEC 110.16
7		SERVICE EQUIPMENT SHALL BE MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT. INCLUDE THE DATE AND FAULT CURRENT. INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED.	CEC 110.24(A)

GENERAL		DEVICE IDENTIFICATION	
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1		SEPARATION OF 24 INCHES (HORIZONTAL DISTANCE) FOR SWITCH OR OUTLET BOXES IN FIRE RATED WALLS AND PARTITIONS.	CBC 714.3.2 EX. 1.1
2		ARTIFICIAL LIGHTING LEVELS SHALL BE PER THE ILLUMINATING ENGINEERS SOCIETY OF NORTH AMERICA (IESNA) LIGHTING HANDBOOK FOR OSHPD 1, 2, 3 & 4 AND ANSI/IESNA RP-28, RECOMMENDED PRACTICE FOR LIGHTING AND THE VISUAL ENVIRONMENT FOR SENIOR LEVEL FOR OSHPD 2.	CEC 517.22(A) AND (B) OSHPD PIN 13-- LIGHTING SYSTEM RETROFIT
3		LAMPS SHALL BE PROTECTED AGAINST ACCIDENTAL BREAKAGE.	CEC 517.22(c)
4		FLEXIBLE METAL BE PERMITTED FOR CONNECTION TO LIGHT FIXTURES.	CEC 330 CEC 348.20(A)(2)(c) CEC 410
5		WIRING OF THE SAFETY AND CRITICAL BRANCH SHALL BE ALLOWED TO SHARE THE SAME RACEWAY, BOX, OR CABINET, WITH THE NORMAL BRANCH IF IN AN EXIT SIGN OR EMERGENCY SYSTEM POWER LUMINAIRE LUMINAIRE SUPPLIED BY TWO SOURCES.	CEC 517.30(c)(2) AND (3) CEC 517.41(d)(2) AND (3)
6		LIGHT SWITCHES SHALL NOT BE WITHIN 5 FEET OF THE PERIMETER OF SHOWER STALLS AND BATHTUBS.	CEC 404.4
7	LIFE SAFETY	SWITCHING RESTRICTIONS FOR LIGHT FIXTURES ON THE LIFE SAFETY BRANCH.	CEC 517.32(A) CEC 517.42(A) CEC 700.20
8		PROVIDE MEANS TO DISCONNECT ALL UNDERGROUNDED CONDUCTORS IN A MULTI-WIRE BRANCH CIRCUIT.	CEC 210.4(B)
9	ESSENTIAL	LIGHT SWITCHES SUPPLIED FROM THE ESSENTIAL ELECTRICAL SYSTEM SHALL HAVE A DISTINCTIVE COLOR OR MARKING AS TO BE READILY IDENTIFIABLE.	CEC 517.30(E) CEC 517.41(E)
10	ESSENTIAL	WHERE EMERGENCY ILLUMINATION IS PROVIDED BY ONE OR MORE DIRECTLY CONTROLLED LUMINAIRES THAT RESPOND TO AN EXTERNAL CONTROL INPUT TO BYPASS NORMAL CONTROL LOSS OF NORMAL POWER, SUCH LUMINAIRES' AND EXTERNAL BYPASS' CONTROLS SHALL BE INDIVIDUALLY LISTED FOR USE IN EMERGENCY SYSTEMS.	CEC 700.24

GENERAL		PANELBOARDS	
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1		PROVIDE GROUND BOND BETWEEN PANELBOARDS SERVING THE SAME PATIENT LOCATION.	CEC 517.14
2		PANELBOARDS NOT ALLOWED IN PATIENT CARE ROOMS UNLESS THEY SERVE THAT ROOM.	CEC 517.12(A)

GENERAL		CONDUITS AND CABLES	
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
4		NON-METALLIC SHEATHED CABLE (i.e. NM, NMC, ROMAX) IS NOT PERMITTED FOR USE IN PATIENT AREAS, EMERGENCY SYSTEM WIRING, OR STRUCTURES OF TYPE I AND TYPE II CONSTRUCTION WITHOUT A CONDUIT.	CEC 334.12 CEC 517.13 CEC 517.30(c)(3)
5		FLAT CONDUCTOR CABLE (FCC) IS NOT PERMITTED FOR USE IN HEALTH CARE FACILITIES.	CEC 324.12(4)
6		LOW VOLTAGE CABLE FOR FIRE ALARM, NURSE CALL, COMMUNICATION SYSTEMS, ETC. ARE NOT REQUIRED TO BE IN CONDUIT IF THE POWER SUPPLIES ARE "POWER LIMITED" AND THE CONDUCTORS ARE LISTED FOR SUCH USE.	CEC 517.30(E) CEC 517.41(E)

GENERAL		RECEPTACLES	
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1		RECEPTACLES IN PATIENT CARE AREAS SHALL BE PROVIDED WITH A GREEN INSULATED COPPER GROUNDING CONDUCTOR.	CEC 517.13(B)(1)(1)
2		GFCI FOR RECEPTACLES AND FIXED EQUIPMENT IN WET LOCATIONS.	CEC 517.20(A)
3		GFCI RECEPTACLE LOCATED WITHIN 25 FEET OF ALL HEATING, VENTILATION AIR-CONDITIONING AND REFRIGERATION EQUIPMENT. RECEPTACLES SHALL BE LOCATED ON THE SAME LEVEL AS THE EQUIPMENT. RECEPTACLES SHALL BE LOCATED ON THE SAME LEVEL AS THE EQUIPMENT. RECEPTACLE SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTED MEANS.	CMC 301.4 CMC 210.63
4		SEPARATION OF 24 INCHES (HORIZONTAL DISTANCE) FOR SWITCH OR OUTLET BOXES IN FIRE RATED WALLS AND PARTITIONS.	CBC 714.3.2 ex. 1.1

NEW PANEL "L" (LIGHTING)

120/208 V 3 PHASE 4 WIRE BUS 100A

WALL MOUNTED FEEDER 4#2, 1 1/4" C

MAIN LUGS

LOCATION DATA ROOM

LOCATION	O.K.T	A	B	C	LTG	REC	MIS	LCL	C.B.	A B C	C.B.	LCL	MIS	REC	LTG	A	B	C	O.K.T	LOCATION											
PERIMETER LIGHTS	1	646			17			✓	20	<div style="display: flex; justify-content: space-around; font-size: 0.8em;"> ABC </div>		✓				34	956		2	EXAM ROOMS 1,3,4,6 CORRIDOR & LABORATORY											
EMERGENCY LIGHTING	3		221		17		✓				✓					45		1007		4	LIGHTING										
SPARE	5	—															—			6	SPACE										
	7		—															—		8											
	9		—															—		10											
	11		—															—		12											
	13		—															—		14											
	15		—															—		16											
	17		—															—		18											
	19		—															—		20											
	21		—														—		22												
	23		—														—		24												
	25	↓																—		26	↑										
	27																				28										
	29																												30		
	31																												32		
	33																												34		
	35																												36		
	37																												38		
	39																												40		
	41																												42		
TOTAL												646	221														956	1007			TOTAL

PHASE A 1,602W
LCL 2,830W

PHASE B 1,228W
0.25 LCL 08W

PHASE C —
TOTAL 3,538W

TOTAL 2,830W

AMPS 8

PANEL AMPS 10

NEW PANEL "P"										"P"									
120/208 V 3 PHASE 4 WIRE BUS 100A										MAIN LUGS									
WALL MOUNTED FEEDER 4#2, 1 1/4"										LOCATION DATA LOCATION									
LOCATION		OKT	A	B	C	LTG	REC	MIS	LCL	C.B.	A	B	C	OKT	LOCATION				
EXAM ROOMS 6, 4 & 3		1	900				5	5		20	20			4	720	2	EXAM ROOM 1 & 3		
"	"	3	900				5							3	540	4	" "		
"	"	5		900			5							3	540	6	" "		
EXAM ROOMS 1, 3 & 4 CHAIR		7	912					1						1	1000	8	MICROWAVE		
"	"	9	912					1						1	800	10	REFRIGERATOR		
"	"	11		912				1						6	1080	12	GENERAL AREA		
GENERAL AREA		13	1260				7							5	900	14	" "		
"	"	15		1080			6							7	1260	16	CONTROLLED OUTLETS		
"	"	17		1080			6						1			18	EXAM ROOM 6 CHAIR		
"	"	19	1080				6							5	900	20	EXAM ROOM 2 & 5 CHAIR		
"	"	21		1260			7							6	1080	22	" "		
"	"	23		1260			7						1			24	" "		
ROOF OUTLET		25	180				1							1	912	26	" "		
OPEN OFFICE		27		540			3							5	900	28	OUTDOOR OUTLET		
SPARE		29												1		500	30	MEDICAL STATION	
		31													500	32	EXHAUST FAN		
		33														34	↓		
		35														36	SPACE		
		37														38			
		39														40			
		41														42	↓		
TOTAL			4,332	4,692	4,152										4,932	5,080	3,944	TOTAL	
PHASE A 9,264W		PHASE B 9,772W		PHASE C 8,096W		TOTAL 27,132W		AMPS 75											
LCL 1,000W		0.25 LCL 250W		TOTAL 27,382W		PANEL AMPS 76													

1 PROVIDE JOIN HANDLE FOR SINGLE POLE CIRCUIT BREAKERS.

STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LT1-01-E (Revised 04/16)		 CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE Indoor Lighting		NRCC-LT1-01-E (Page 1 of 6)	
Project Name: LENNOX CLINIC		Date Prepared: 10/02/18	
A. General Information			
Climate Zone:	Conditioned Floor Area: 2,715 SF Unconditioned Floor Area:		
Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input checked="" type="checkbox"/> Conditioned Spaces	<input type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored
Project Address: 10223 FIRMONA AVE. LENOX, CA 90340			
B. Lighting Compliance Documents (select yes for each document included)			
<i>For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission.</i>			
YES	NO	COMP. DOC.	TITLE
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LT1-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LT1-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LT1-03-E	Indoor Lighting Power Allowance
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LT1-04-E	Tailored Method Worksheets
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LT1-05-E	Line Voltage Track Lighting Worksheets
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LT1-06-E	Indoor Lighting Existing Conditions

STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16)		CALIFORNIA ENERGY COMMISSION NRCC-LTI-01-E (Page 2 of 6)	
CERTIFICATE OF COMPLIANCE			
Indoor Lighting			
Project Name: LENNOX CLINIC		Date Prepared: 10/02/18	

C. Summary of Allowed Lighting Power			
Conditioned and Unconditioned space Lighting must not be combined for compliance			
Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
	Watts		Watts
01	Installed Lighting NRCC-LTI-01-E, Table H, page 5 + 1,597	Installed Lighting NRCC-LTI-01-E, Table H, page 5 +	
02	Portable Only for Offices NRCC-LTI-01-E, Table G, page 4 + -	-	
03	Minus Lighting Control Credits NRCC-LTI-02-E, page 2 - -	Minus Lighting Control Credits NRCC-LTI-02-E, page 2 -	
04	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3) = 1,597	Adjusted Installed Lighting Power (row 1 minus row 3) = 0	
Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)		Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05)	
05	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2	2,214	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2

D. Declaration of Required 240 Ificates of Installation		
Declare by selecting yes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)		
YES	NO	Form/Title
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-01-E - Must be submitted for all buildings
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.

STATE OF CALIFORNIA
INDOOR LIGHTING
 CEC-NRCC-LT-01-E (Revised 09/16)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Indoor Lighting

Project Name: **LENNOX CLINIC**

NRCC-LT-01-E

(Page 5 of 6)

Date Prepared: **10/02/18**

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for:

☒ **CONDITIONED SPACE**




 ☐ **UNCONDITIONED SPACE**

H. Indoor Lighting Schedule and Field Inspection Energy Checklist

Luminaire Schedule		Installed Watts				Location	Field Inspector ¹	
01	02	03	04	05	06	07	08	
Name or Item Tag	Complete Luminaire Description (i.e. 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per luminaire	How wattage was determined	Number Luminaires	Total installed Watts in this area (03x04x05)	Primary Function area in which these luminaires are installed	Pass	Fail
A	DOWNLIGHT LED FIXTURE	14	<input type="checkbox"/> <input checked="" type="checkbox"/>	36	504	WAITING AREAS, DATA ROOM – HALLWAY CHECK IN CHECK OUT AREAS – RESTROOMS NURSE STATION, HALLWAYS OPEN OFFICE BUILDING ENTRY, ADA RAMP EXAM ROOMS 114, 115 OFFICES 115 & 117 LOUNGE 110 & SOILED LINEN 114 EXAM ROOMS 105-108 LAB 104 RESTROOMS BUILDING PREMIER BUILDING ENTRY RECEPTION/CHECK IN	<input type="radio"/>	<input type="radio"/>
AA	DOWNLIGHT LED FIXTURE	23	<input type="checkbox"/> <input checked="" type="checkbox"/>	28	644		<input type="radio"/>	<input type="radio"/>
A1,A2	DOWNLIGHT LED FIXTURE	34	<input type="checkbox"/> <input type="checkbox"/>	7	238		<input type="radio"/>	<input type="radio"/>
B	2X2 LED FIXTURE	44	<input type="checkbox"/> <input type="checkbox"/>	11	484		<input type="radio"/>	<input type="radio"/>
BB	2X2 LED FIXTURE	50	<input type="checkbox"/> <input checked="" type="checkbox"/>	10	500		<input type="radio"/>	<input type="radio"/>
E	MIRROR-LUX	18	<input type="checkbox"/> <input checked="" type="checkbox"/>	2	36		<input type="radio"/>	<input type="radio"/>
J	EXTERIOR FIXTURE	24	<input type="checkbox"/> <input type="checkbox"/>	9	216		<input type="radio"/>	<input type="radio"/>
K	WALL SCONCE	50	<input type="checkbox"/> <input type="checkbox"/>	1	50		<input type="radio"/>	<input type="radio"/>
L	RECESSED LED DOWNLIGHT	14	<input type="checkbox"/> <input type="checkbox"/>	6	84	<input type="radio"/>	<input type="radio"/>	
INSTALLED WATTS PAGE TOTAL:						2756	Enter sum total of all pages into NRCC-LT-01-E, Page 2	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

April 2016

STATE OF CALIFORNIA INDOOR LIGHTING CEC-NRCC-LTI-01-E (Revised 04/16)		CALIFORNIA ENERGY COMMISSION 	
CERTIFICATE OF COMPLIANCE Indoor Lighting		NRCC-LTI-01-E (Page 5 of 6)	
Project Name: LENNOX CLINIC		Date Prepared: 10/02/18	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT			
I certify that this Certificate of Compliance documentation is accurate and complete.			
Documentation Author Name: VLADIMIR TSIDULKO		Documentation Author Signature: 	
Company: V&M ELECTRICAL ENGINEERING INC.		Signature Date: 10/02/18	
Address: 3330 BARHAM BLVD. SUITE #204		CEA Certification Identification (if applicable):	
City/State/Zip: LOS ANGELES CALIF., 90068		Phone: 1-323-851-9964	
RESPONSIBLE PERSON'S DECLARATION STATEMENT			
I certify the following under penalty of perjury, under the laws of the State of California:			
1. The information provided on this Certificate of Compliance is true and correct.			
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).			
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.			
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with the building permit application.			
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.			
Responsible Designer Name: VLADIMIR TSIDULKO		Responsible Designer Signature: 	
Company: V&M ELECTRICAL ENGINEERING INC.		Date Signed: 08/14/2018	
Address: 3330 BARHAM BLVD. SUITE #204		License: #E11834	
City/State/Zip: LOS ANGELES CALIF., 90068		Phone: 1-323-851-9964	



integrated
design
construction
management
sustainability
totum




TO HELP EVERYONE
LENNOX CLINIC
10223 FIRMONA AVE.
LENNOX, CA 90304

[illegible]

TITLE 24 CALCULATIONS
(INDOOR)

E-3


V & M ELECTRICAL ENGINEERING, INC.
3330 Barham Boulevard, Suite 204
Los Angeles, CA 90068
(323)851-9964 Fax (323)851-0153
E-mail: vme@vmelectrical.com

A. Mandatory Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)		
YES	NO	Control Requirements
<input type="radio"/>	<input checked="" type="radio"/>	Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9.
<input checked="" type="radio"/>	<input type="radio"/>	Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="radio"/>	<input type="radio"/>	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
<input type="radio"/>	<input checked="" type="radio"/>	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
<input checked="" type="radio"/>	<input type="radio"/>	All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1.
<input checked="" type="radio"/>	<input type="radio"/>	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
<input type="radio"/>	<input checked="" type="radio"/>	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a4).
<input checked="" type="radio"/>	<input type="radio"/>	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
<input checked="" type="radio"/>	<input type="radio"/>	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
<input type="radio"/>	<input checked="" type="radio"/>	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylight zones are shown on the plans.
<input type="radio"/>	<input checked="" type="radio"/>	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Response Signal in accordance with Section 130.1(e).
<input checked="" type="radio"/>	<input type="radio"/>	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4 (a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

January 2016

B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Checklist																								
									PAF Credit Calculation [†]			✓ Pass/Fail Test Required		Field Inspector										
Standards Complying With ¹ (✓ all that apply, or leave empty if exempted)									Lighting	Watts of Controlled Lighting	PAF	Credit (1 x 1/2)	PASS	FAIL										
Lighting Control Schedule									01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	
Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc...)	# of Units	\$130.1(a)	\$130.0(b)	\$130.1(c)	\$130.1(d)	\$130.1(e)	\$130.6(a)	\$140.6(d)																
OFFICES, EXAM ROOMS, NURSE,	OCCUPANCY SENSOR/DIMMERS	10		✓	✓																			
WAIT AREA, LOUNGE/LAB,																								
Control Credit PAGE TOTAL (Sum of Column 13):																			0					
IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of All Column 13):																								
Enter Control Credit total into NRCC-LTI-01-E; Page 1.																								

1. \$130.1(a) = Manual area controls; \$130.0(b) = Multi Level; \$130.1(c) = Auto Shut-off; \$130.1(d) = Mandatory Daylight; \$130.1(e) = Demand Responsive; \$140.6(d) = Additional lighting controls installed to earn a PAF; \$140.6(f) = Prescriptive Secondary Sidelight Daylight Controls.
 2. Check Table 140.6-A for correct Factor. PAF's shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.

January 2016

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: VLADIMIR TSIDLUKO	Documentation Author Signature: 
Company: Y&M ELECTRICAL ENGINEERING INC.	Signature Date: 12/03/18
Address: 3330 BARHAM BLVD. SUITE #204	CLA Certification Identification (if applicable):
City/State/Zip: LOS ANGELES CALIF., 90068	Phone: 1-323-851-9964

RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
<ol style="list-style-type: none"> The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, such as load calculations, plans, and specifications submitted to the enforcement agency for approval with the building permit application. 	
I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder submits to the building owner at occupancy.	
Responsible Designer Name: VLADIMIR TSIDLUKO	Responsible Designer Signature: 
Company: Y&M ELECTRICAL ENGINEERING INC.	Date Signed: 12/03/18
Address: 3330 BARHAM BLVD. SUITE #204	License: #E11834
City/State/Zip: LOS ANGELES CALIF., 90068	Phone: 1-323-851-9964

January 2016

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:

☒ **CONDITIONED** spaces ☐ **UNCONDITIONED** spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.

If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts.

	(a)	(b)
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)	0	
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-31, Page 2, Row 1	0	0

☐ Check here if building contains both conditioned and unconditioned areas.

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES		Watts
Total from section C-2.		2,214
Total from section C-3.		
Total Watts. Enter Total Watts into section A, row 2 (Above on this page).		2,214
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option.		

April 2016

A separate page must be filled out for each Function and/or Unconditioned Spaces. This page is only for:

☒ CONDITIONED spaces ☐ UNCONDITIONED spaces

C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

- Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E.

- Separately list lighting for each primary function area as defined in §100.1 of the Standards.

O1		X	O2	O3	O4
AREA CATEGORY (From §140.6 Table 140.6.C)			WATTS PER ft ²		
Location in Building	Primary Function Area per Table 140.6.C				
OFFICES	OFFICE AREA		1.0	327	327
EXAM/SOILED/LAB/PEDS' VITALS	MEDICAL & CLINICAL CARE AREA		1.2	668	801
CHECK IN/OUT/CORRIDOR/RESTROOMS/HOUSE KEE.	CORRIDOR,RESTRMS, STAIRS, SUPPORT AREA		0.6	660	396
LOUNGE, /WAIT AREA	LOUNGE AREA		0.9	345	310
LOBBY	LOBBY/MAIN		0.95	400	380
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
					0
			TOTALS	2,715	

Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document)

2,214

WATTS

April 2016

DOCUMENTATION AUTHORITY'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Authority Name VLADIMIR TSIDLUKO	Documentation Authority Signature 
Company V&M ELECTRICAL ENGINEERING INC.	Signature Date 10/02/18
Address 3330 BARMAN BLVD. SUITE #204	ICB Certification Identification (if applicable)
City/State/Zip LOS ANGELES CALIF., 90068	Phone 1-323-851-9964

April 2016




professional stamp

TO HELP EVERYONE
LENNOX CLINIC
10223 FIRMONA AVE.
LENNOX, CA 90304

[illegible]

| | | | |

E-4



V & M ELECTRICAL ENGINEERING, INC.
3330 Barham Boulevard, Suite 204
Los Angeles, CA 90068
(323)851-9964 Fax (323)851-0153
E-mail: vme@vmelectrical.com

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

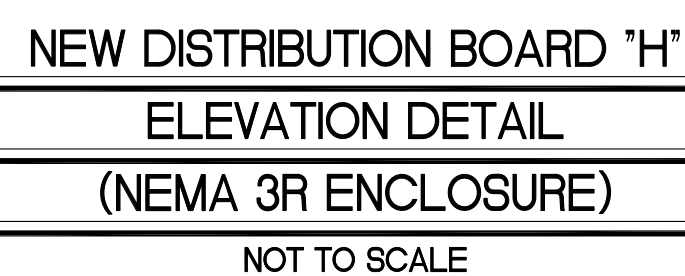
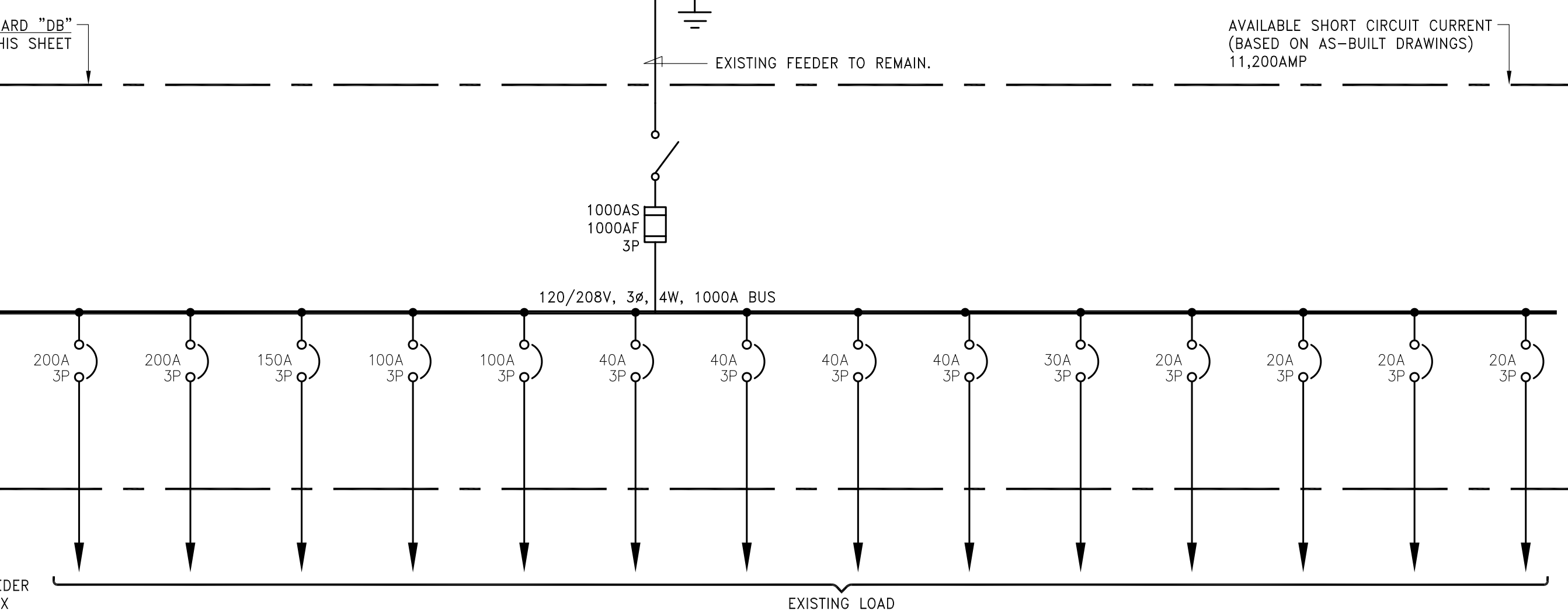
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2017

TITLE 24 CALCULATIONS (OUTDOOR)

F-6



1. FEEDER #1:	26.8 AMP x 208V =	5.6KW
2. FEEDER #2:	19.2 AMP x 208V =	4.0KW
3. FEEDER #3:	26.2 AMP x 208V =	5.6KW
4. FEEDER #4:	NEW PANEL "L"	3.5KW
5. FEEDER #5:	NEW PANEL "P"	27.4KW
6. FEEDER #6:	43.2 AMP x 208V =	9KW
7. FEEDER #7:	43.2 AMP x 208V =	9KW

TOTAL: 64.1KWATT OR 71KVA @ 0.9 P.F.
OR 197AMP @ 120/208V, 3 PHASE, 4 WIRE SYSTEM
BOARD SHALL BE RATED 400AMP.

EXISTING MAIN METERING SWITCHBOARD "MSB-1" LOAD CALCULATIONS
(N.E.C. 220-87)

MAXIMUM DEMAND x 1.25 + NEW LOAD (BOARD "H")
 $145 \times 1.25 + 71 = 252\text{KVA OR } 303\text{AMP @ } 480/277\text{V, } 3\phi, 4\text{W}$
 BOARD "MSB" IS RATED 1600AMP

- 1 NEW CIRCUIT BREAKER IN AVAILABLE SPACE. NEW CIRCUIT BREAKER TO MATCH EXISTING IN MANUFACTURER AND INTERRUPTING CAPACITY.
- 2 PANEL SHALL HAVE 10,000 AMP SHORT CIRCUIT CURRENT RATING.
- 3 BOARD SHALL BE BRACED FOR 50,000AMP AND ALL CIRCUIT BREAKERS SHALL HAVE 10,000 AMP SHORT CIRCUIT INTERRUPTING CAPACITY.
- 4 FEEDERS TO RUN THROUGH MANHOLE MH-2.

ELECTRICAL BILLS SUMMARY OF EXISTING SERVICE "MSB-1"				
METER #V349N-004589				
DATES	MAXIMUM KWATT	P.F.	MAXIMUM KVA	COMMENTS
12/19/17 - 1/20/18	97	0.9	108	MAXIMUM DEMAND
1/20/18 - 2/16/18	104	0.9	116	
2/16/18 - 3/22/18	96	0.9	107	
3/22/18 - 4/19/18	104	0.9	116	
4/19/18 - 5/18/18	92	0.9	102	
5/18/18 - 6/19/18	90	0.9	100	
6/19/18 - 7/19/18	129	0.9	143	
7/19/18 - 8/17/18	115	0.9	128	
8/17/18 - 9/21/18	129	0.9	143	
9/21/18 - 10/18/18	119	0.9	132	
10/18/18 - 11/20/18	109	0.9	121	
11/20/18 - 12/21/18	104	0.9	116	
12/21/17 - 1/19/19	131	0.9	145	




ELECTRICAL SITE PLAN
POWER

E-9

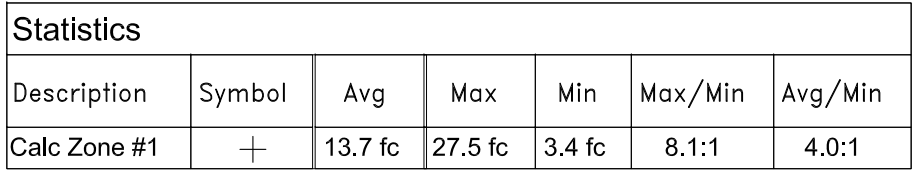


NUMBERED NOTES - (THIS SHEET ONLY)

- 1 FEEDER SHALL BE IN PVC, SCHEDULE 40 CONDUIT.
- 2 NEW MANHOLE, 4' x 4' x 3' DEEP, PRECAST CONCRETE.



V & M ELECTRICAL ENGINEERING, INC.
3330 Barham Boulevard, Suite 204
Los Angeles, CA 90068
(323)851-9964 Fax (323)851-0155
E-mail: vme@vmelectrical.com



SCALE: 1/4" = 1'-0"



EMERGENCY LIGHTING
PHOTOMETRICS



100

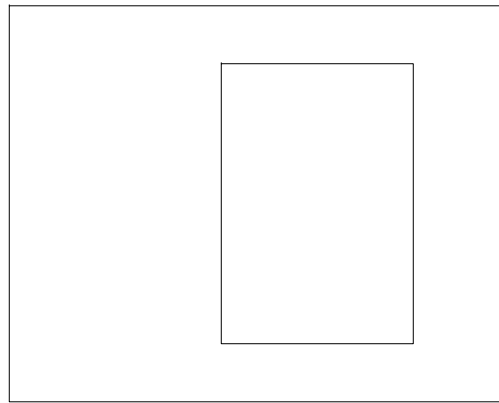
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one	two	three	four	five	six	seven	eight	nine	ten	eleven	twelve	thirteen	fourteen	fifteen	sixteen	seventeen	eighteen	nineteen	twenty	twenty-one	twenty-two	twenty-three	twenty-four	twenty-five	twenty-six	twenty-seven	twenty-eight	twenty-nine	thirty	thirty-one	thirty-two	thirty-three	thirty-four	thirty-five	thirty-six	thirty-seven	thirty-eight	thirty-nine	forty	forty-one	forty-two	forty-three	forty-four	forty-five	forty-six	forty-seven	forty-eight	forty-nine	fifty	fifty-one	fifty-two	fifty-three	fifty-four	fifty-five	fifty-six	fifty-seven	fifty-eight	fifty-nine	sixty	sixty-one	sixty-two	sixty-three	sixty-four	sixty-five	sixty-six	sixty-seven	sixty-eight	sixty-nine	seventy	seventy-one	seventy-two	seventy-three	seventy-four	seventy-five	seventy-six	seventy-seven	seventy-eight	seventy-nine	eighty	eighty-one	eighty-two	eighty-three	eighty-four	eighty-five	eighty-six	eighty-seven	eighty-eight	eighty-nine	ninety	ninety-one	ninety-two	ninety-three	ninety-four	ninety-five	ninety-six	ninety-seven	ninety-eight	ninety-nine	one 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continued

Year	1990	2000
Population (millions)	1.2	1.5
GDP (billions of dollars)	100	150
Life expectancy (years)	70	75
Urban population (%)	40	55
Healthcare expenditure (percent of GDP)	5	8
Education expenditure (percent of GDP)	3	4
Unemployment rate (%)	10	12
Government debt (percent of GDP)	20	30
Foreign aid (billions of dollars)	5	10
Trade balance (billions of dollars)	-10	-15
Immigration (thousands)	50	100
Birth rate (per 1,000 live births)	15	12
Death rate (per 1,000 live births)	10	8
Infant mortality rate (per 1,000 live births)	20	15
Adult literacy rate (%)	60	70
Gender inequality index	0.7	0.8
Human Development Index	0.5	0.6
Corruption index	2.5	3.0
Environmental quality index	3.0	3.5
Peace index	4.0	4.5
Trust index	5.0	5.5
Welfare index	6.0	6.5
Quality of life index	7.0	7.5
Life satisfaction index	8.0	8.5
Healthcare access index	9.0	9.5
Education access index	10.0	10.5
Unemployment index	11.0	11.5
Government debt index	12.0	12.5
Foreign aid index	13.0	13.5
Trade balance index	14.0	14.5
Immigration index	15.0	15.5
Birth rate index	16.0	16.5
Death rate index	17.0	17.5
Infant mortality index	18.0	18.5
Adult literacy index	19.0	19.5
Gender inequality index	20.0	20.5
Human Development Index	21.0	21.5
Corruption index	22.0	22.5
Environmental quality index	23.0	23.5
Peace index	24.0	24.5
Trust index	25.0	25.5
Welfare index	26.0	26.5
Quality of life index	27.0	27.5
Life satisfaction index	28.0	28.5
Healthcare access index	29.0	29.5
Education access index	30.0	30.5
Unemployment index	31.0	31.5
Government debt index	32.0	32.5
Foreign aid index	33.0	33.5
Trade balance index	34.0	34.5
Immigration index	35.0	35.5
Birth rate index	36.0	36.5
Death rate index	37.0	37.5
Infant mortality index	38.0	38.5
Adult literacy index	39.0	39.5
Gender inequality index	40.0	40.5
Human Development Index	41.0	41.5
Corruption index	42.0	42.5
Environmental quality index	43.0	43.5
Peace index	44.0	44.5
Trust index	45.0	45.5
Welfare index	46.0	46.5
Quality of life index	47.0	47.5
Life satisfaction index	48.0	48.5
Healthcare access index	49.0	49.5
Education access index	50.0	50.5
Unemployment index	51.0	51.5
Government debt index	52.0	52.5
Foreign aid index	53.0	53.5
Trade balance index	54.0	54.5
Immigration index	55.0	55.5
Birth rate index	56.0	56.5
Death rate index	57.0	57.5
Infant mortality index	58.0	58.5
Adult literacy index	59.0	59.5
Gender inequality index	60.0	60.5
Human Development Index	61.0	61.5
Corruption index	62.0	62.5
Environmental quality index	63.0	63.5
Peace index	64.0	64.5
Trust index	65.0	65.5
Welfare index	66.0	66.5
Quality of life index	67.0	67.5
Life satisfaction index	68.0	68.5
Healthcare access index	69.0	69.5
Education access index	70.0	70.5
Unemployment index	71.0	71.5
Government debt index	72.0	72.5
Foreign aid index	73.0	73.5
Trade balance index	74.0	74.5
Immigration index	75.0	75.5
Birth rate index	76.0	76.5
Death rate index	77.0	77.5
Infant mortality index	78.0	78.5
Adult literacy index	79.0	79.5
Gender inequality index	80.0	80.5
Human Development Index	81.0	81.5
Corruption index	82.0	82.5
Environmental quality index	83.0	83.5
Peace index	84.0	84.5
Trust index	85.0	85.5
Welfare index	86.0	86.5
Quality of life index	87.0	87.5
Life satisfaction index	88.0	88.5
Healthcare access index	89.0	89.5
Education access index	90.0	90.5
Unemployment index	91.0	91.5
Government debt index	92.0	92.5
Foreign aid index	93.0	93.5
Trade balance index	94.0	94.5
Immigration index	95.0	95.5
Birth rate index	96.0	96.5
Death rate index	97.0	97.5

[illegible]



- 1 ELECTRIFIED PATIENT EXAMINATION CHAIR, 7.6 AMP, 120 VOLT.
- 2 OUTLET FOR MEDICAL STATION.
- 3 FEEDER TO BE INSTALLED IN THE FLOOR.
- 4 RUN HOMERUN IN THE FLOOR TO THE NEAREST WALL AND STUD UP TO THE SUSPENDED CEILING.
- 5 RUN HOMERUN THROUGH AUTO-TIMER SEE DIAGRAM, SHEET E-
- 6 OUTLET UNDER SINK FOR ELECTRIFIED FAUCET.

integrated
design
construction
management
sustainability
t o t u m




TO HELP EVERYONE
LENNOX CLINIC
10223 FIRMONA AVE.
LENNOX, CA 90304

[illegible]

FLOOR PLAN
POWER

E-12



V & M ELECTRICAL ENGINEERING, INC.
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