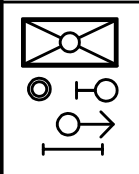
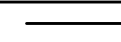





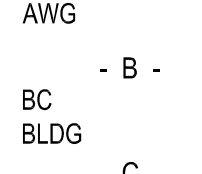
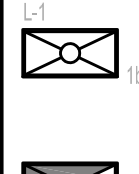
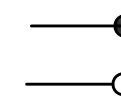
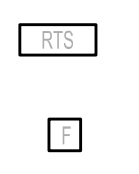
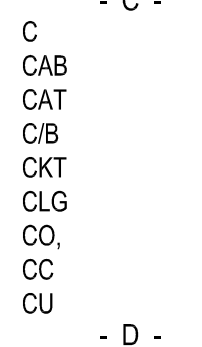
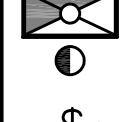
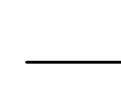
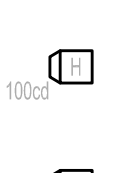
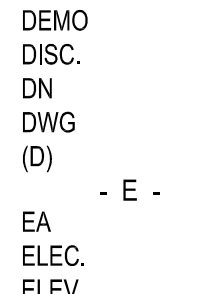

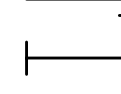
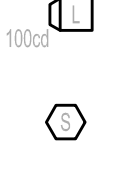
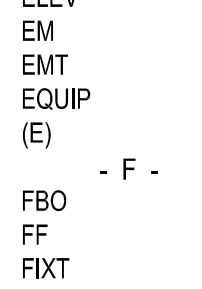

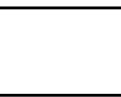
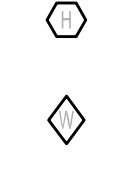
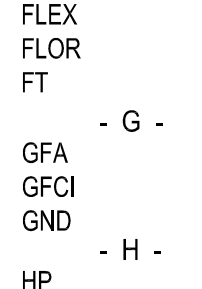

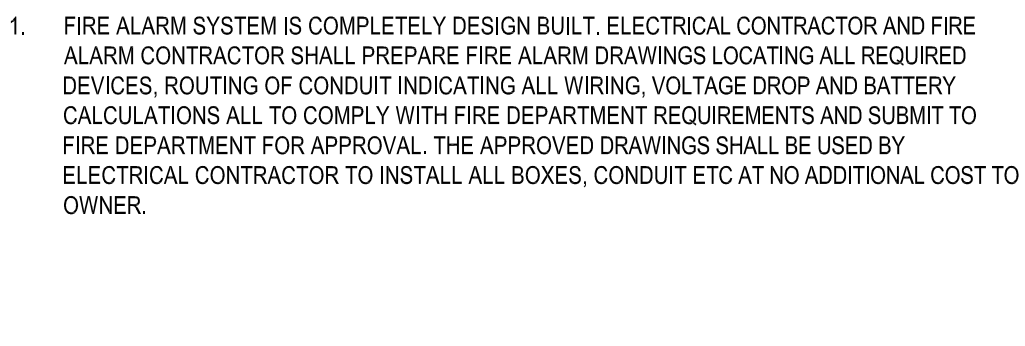
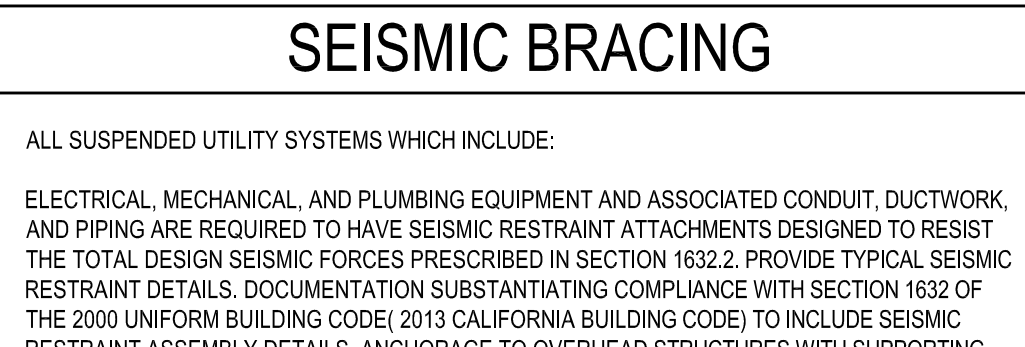
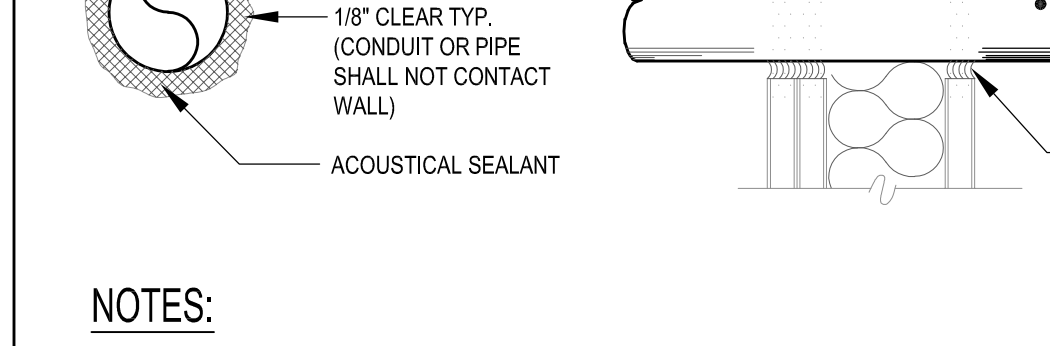


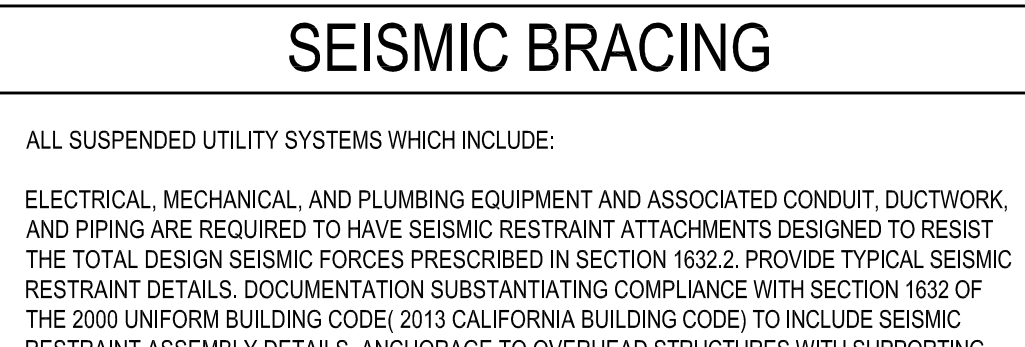
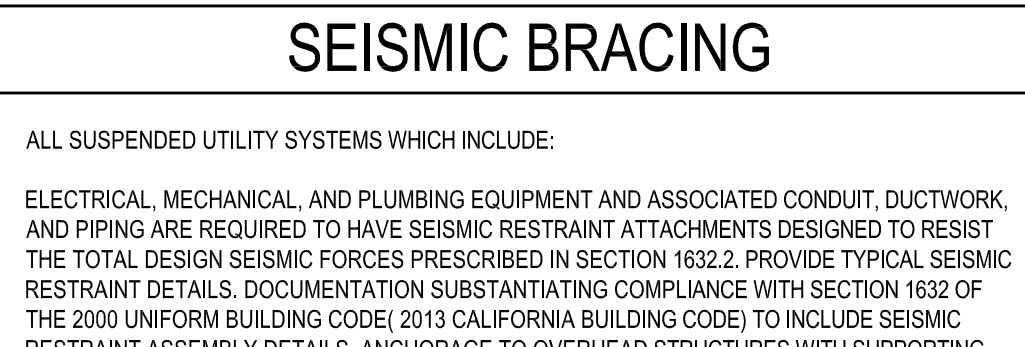
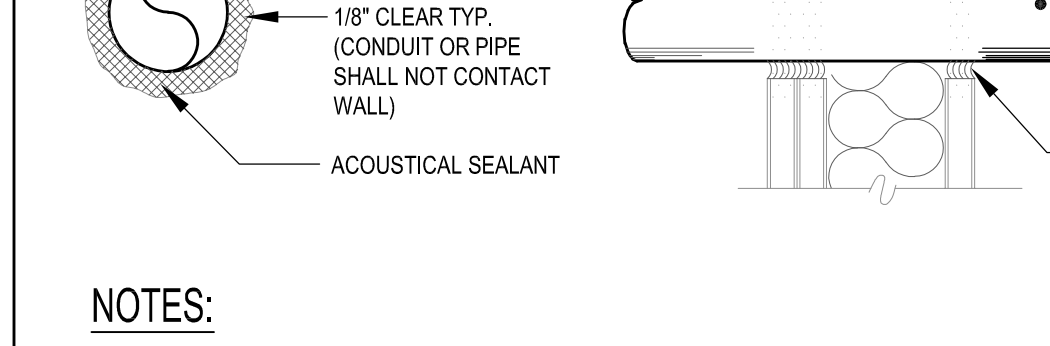

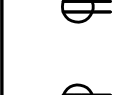
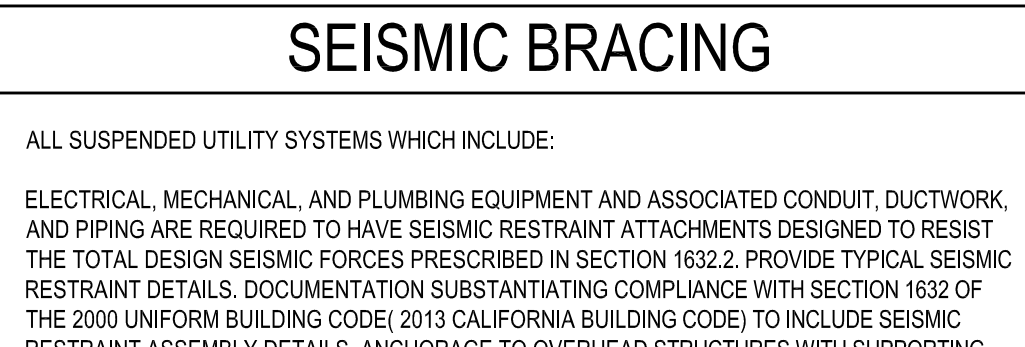
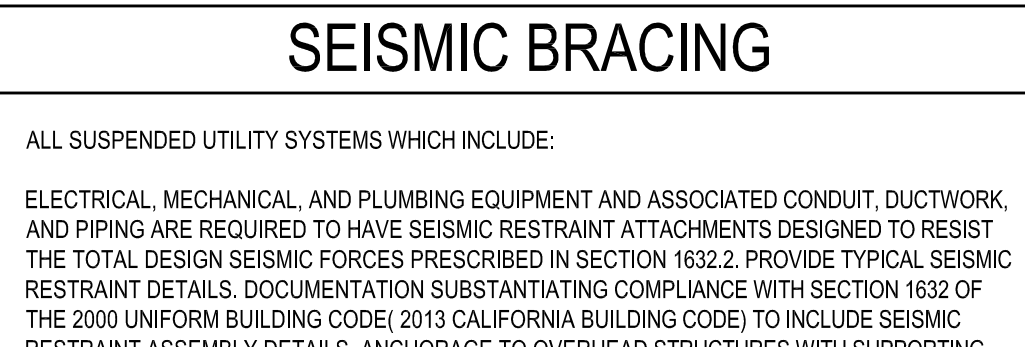
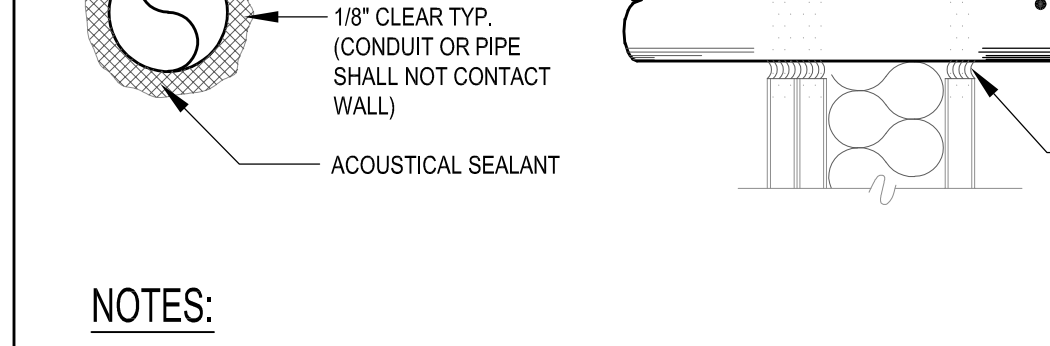

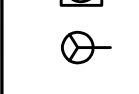
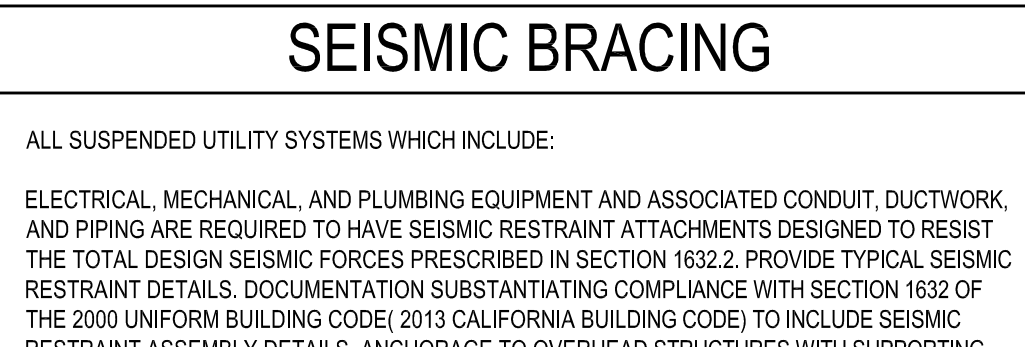
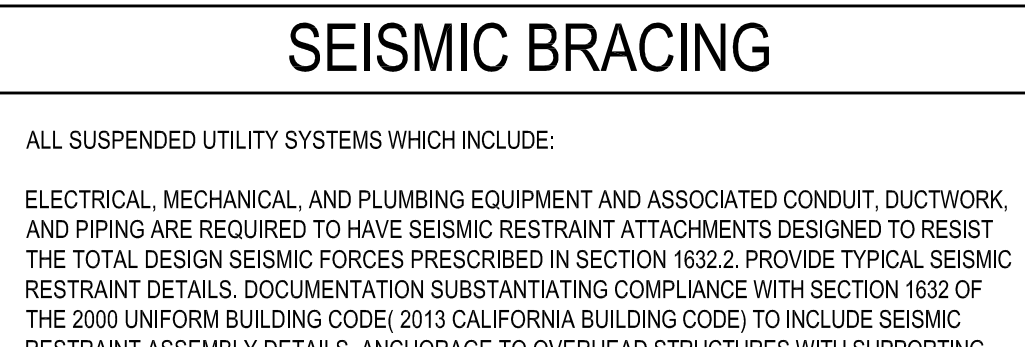
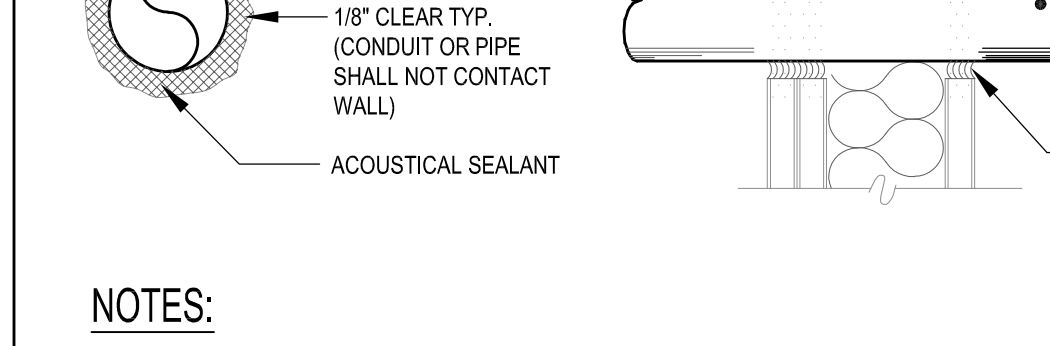


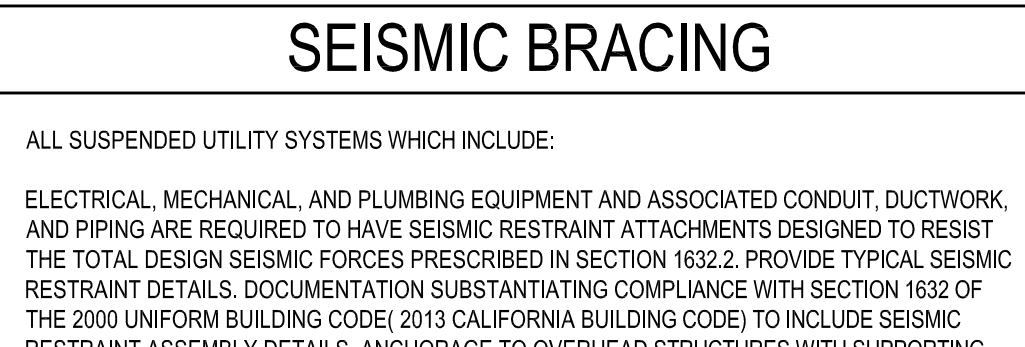
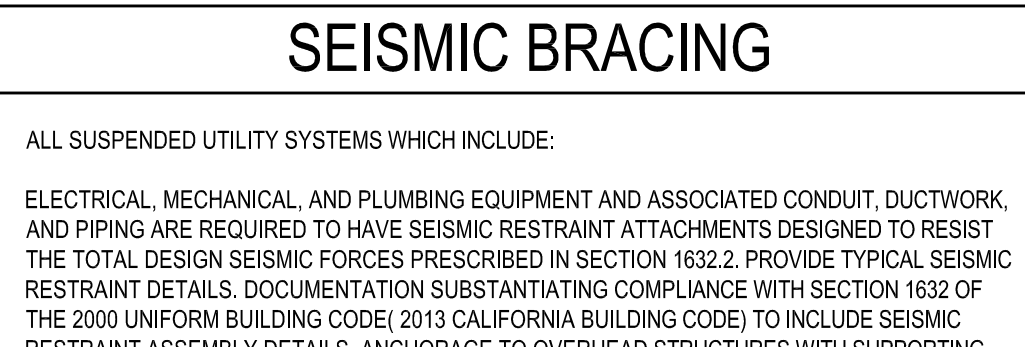
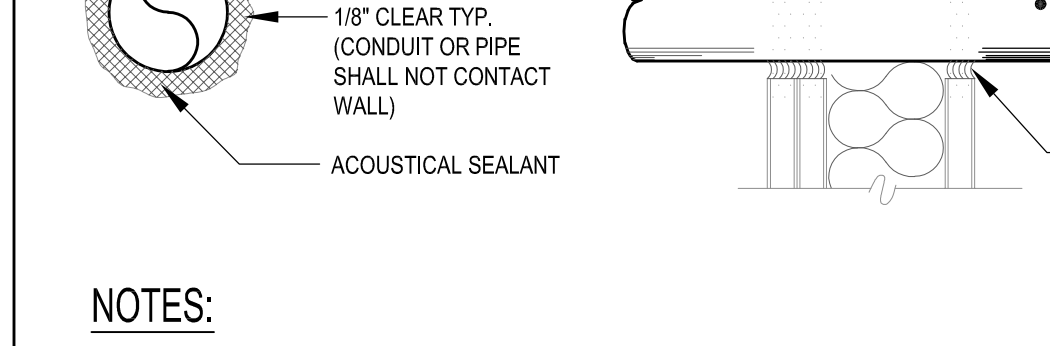

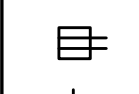
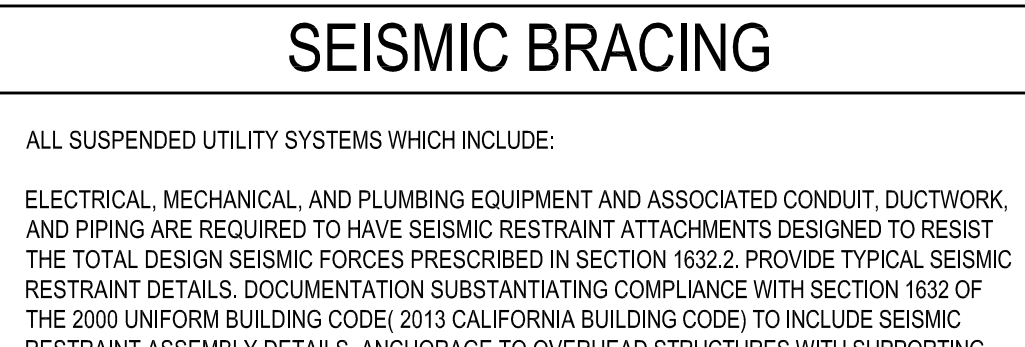
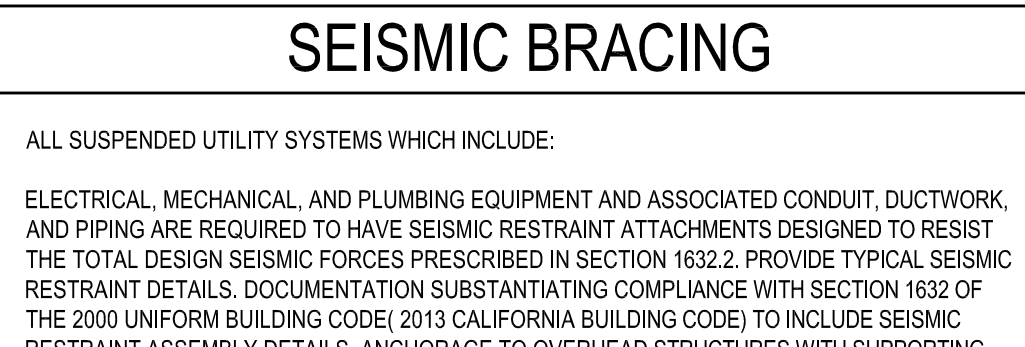
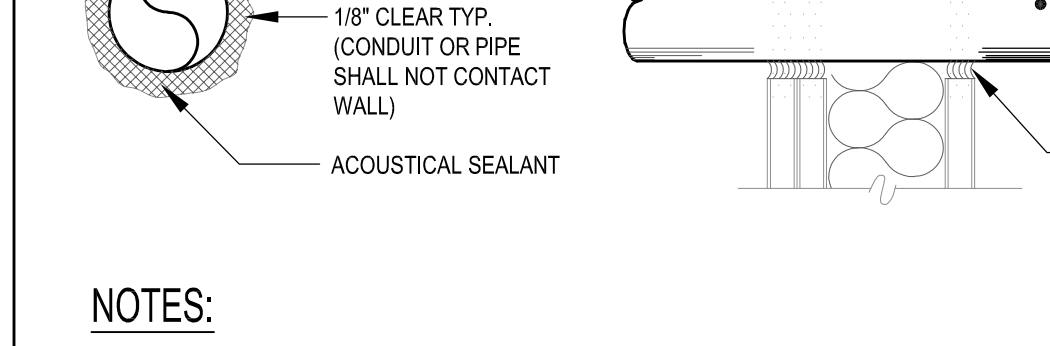
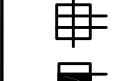
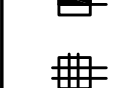
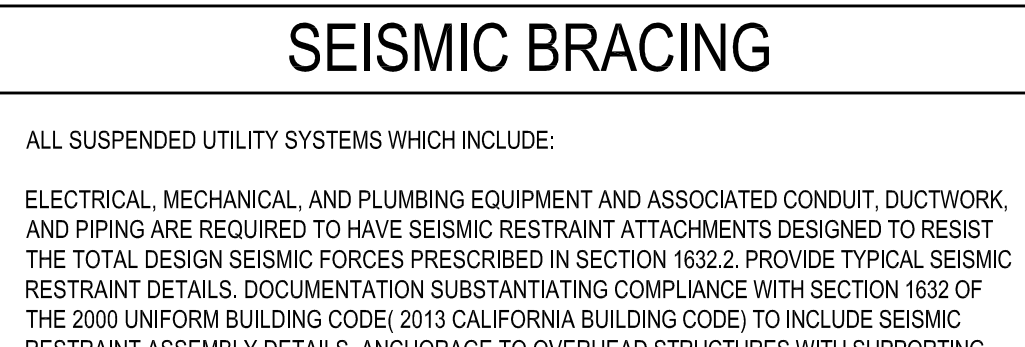
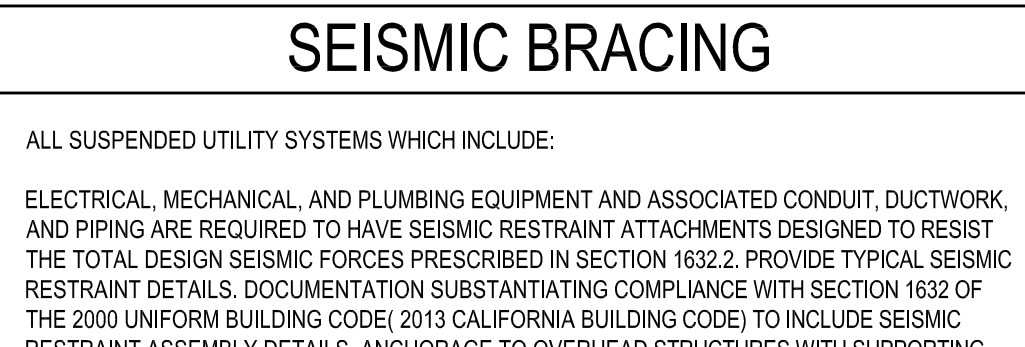
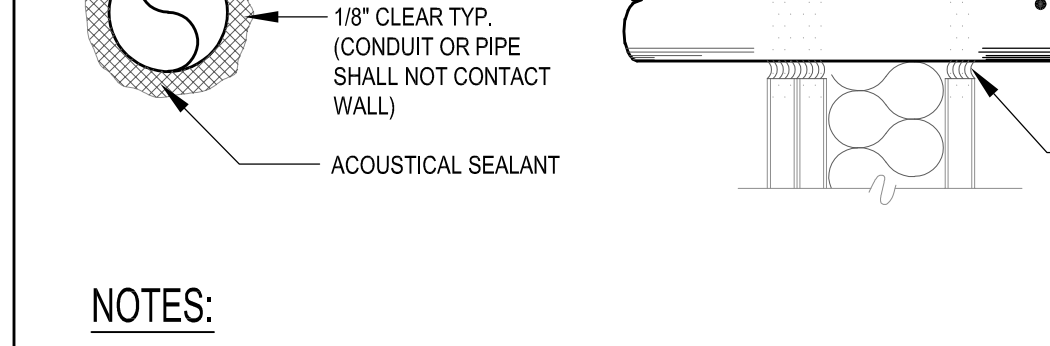
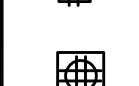

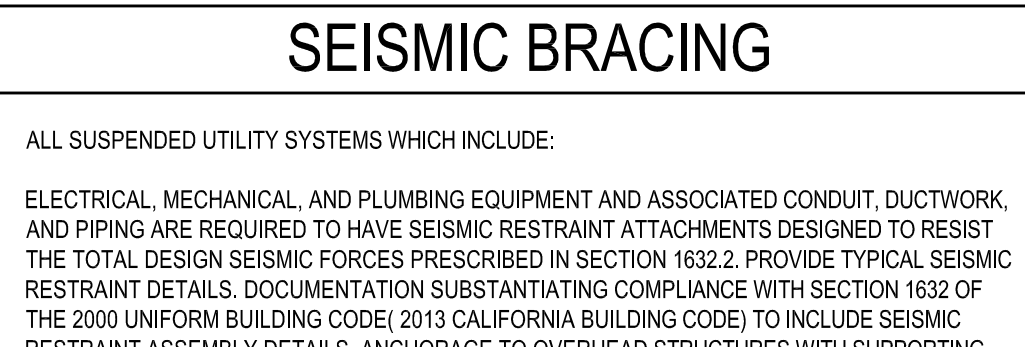
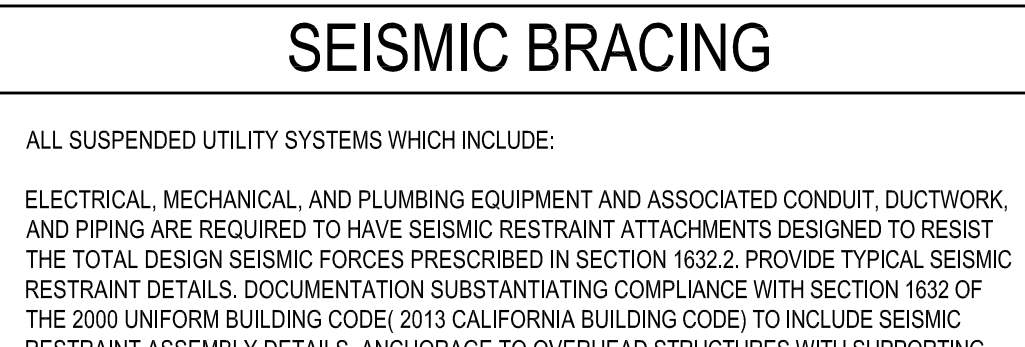
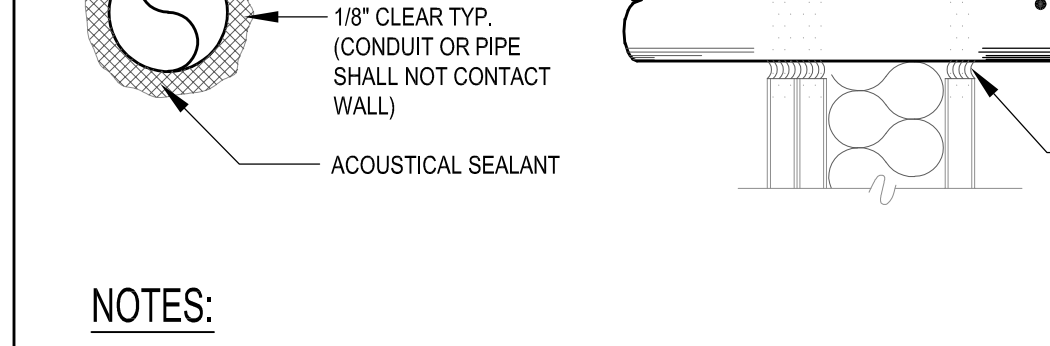


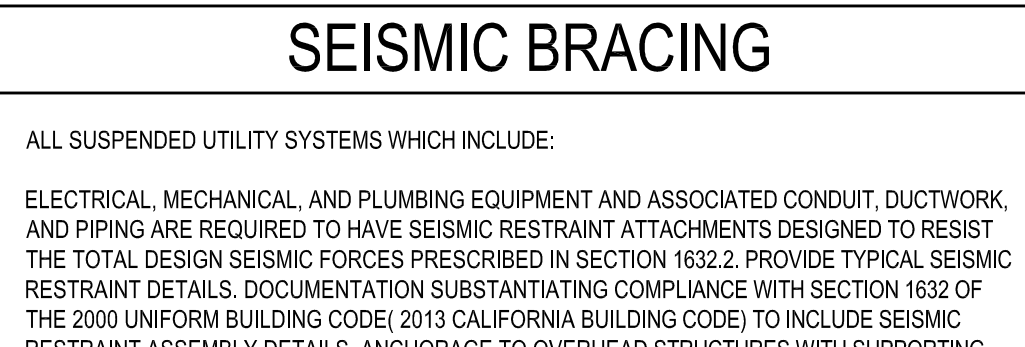
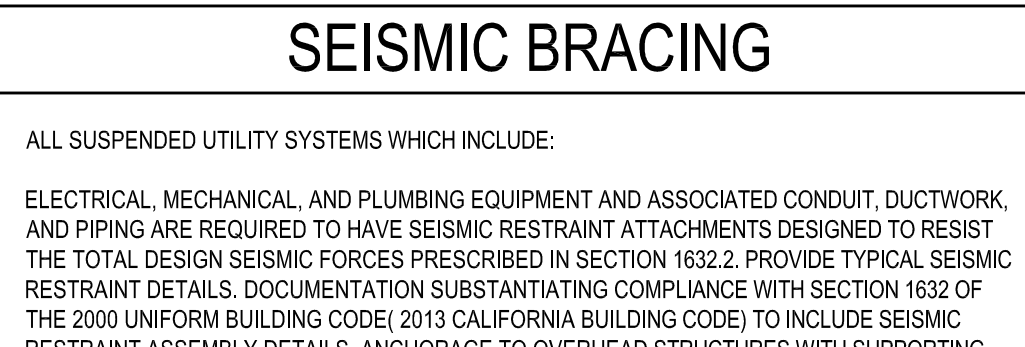
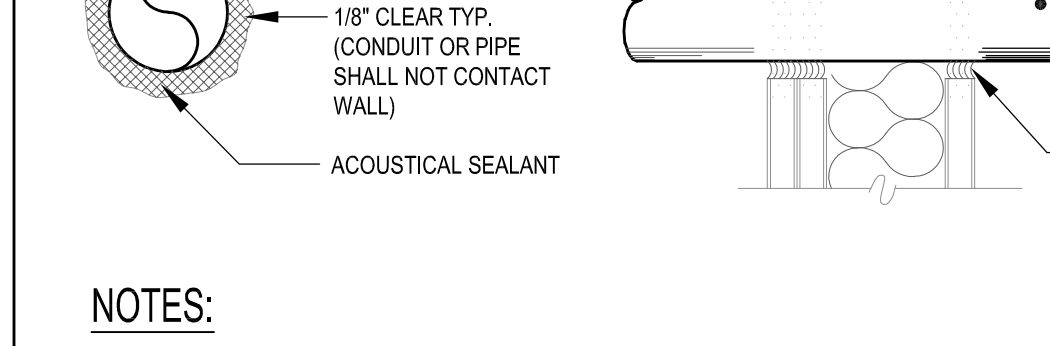

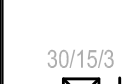
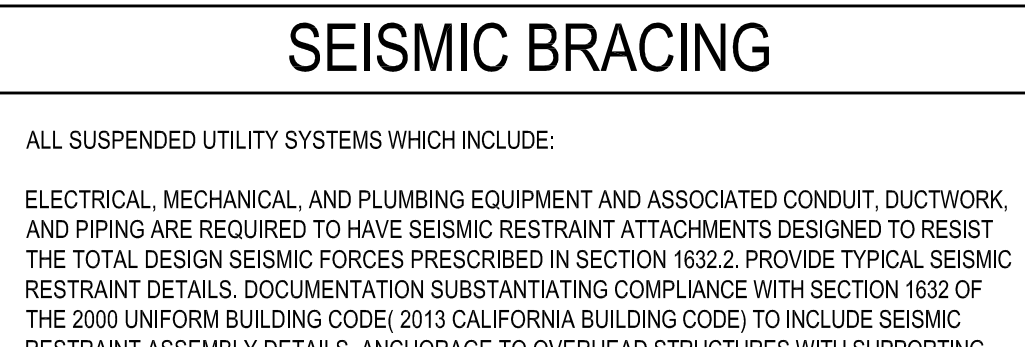
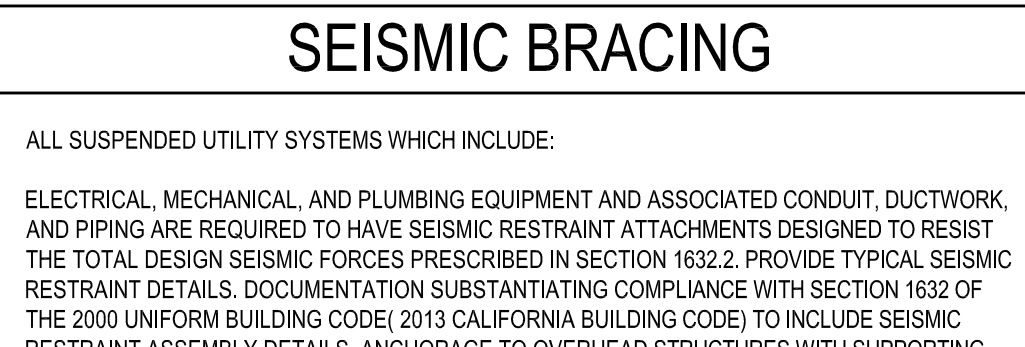
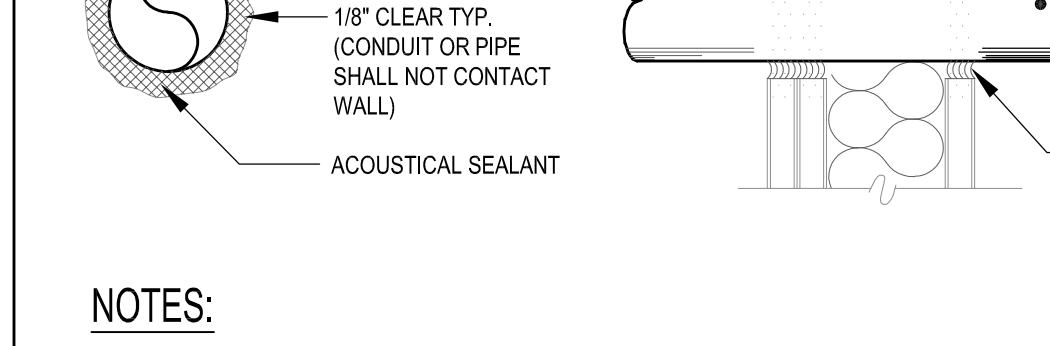



LIGHTING		CONDUIT		FIRE ALARM (NOT USED)		ABBREVIATIONS		GREEN BUILDING STANDARD NOTES		ELECTRICAL SHEET INDEX	
	FLUORESCENT, INCANDESCENT, AND/OR HID LIGHTING FIXTURES COMPLETE WITH LAMPS. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.		RACEWAY AND CONDUCTORS CONCEALED ABOVE CEILING OR IN WALL AT ELECTRICAL CONTRACTOR'S OPTION. #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE.		PHOTOELECTRIC SMOKE DETECTOR, DUCT TYPE COMPLETE WITH PROBE, FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED AND CONTROL, WIRING BY MECHANICAL CONTRACTOR.		A - A- AFF AF AMP AFG AFC ARCHL AWG	1. MINIMUM OF 50% OF NON HAZARDOUS CONSTRUCTION WASTE IS TO BE RECYCLE. CGC 5.713.8.1.	ELECTRICAL SHEET INDEX		
	EXIT LIGHTS. REFER TO LIGHTING FIXTURE SCHEDULE FOR DETAILS. SURFACE MOUNT ON WALL OR CEILING AS INDICATED.		EXISTING CONDUIT OR BRANCH CIRCUIT TO REMAIN.		JUNCTION BOX FOR SMOKE/FIRE DAMPER BY OTHERS. PROVIDE 120V POWER TO JUNCTION BOX AND PROVIDE PHOTOELECTRIC, DUCT TYPE SMOKE DETECTOR ON SUPPLY SIDE OF DAMPER. CONNECT DUCT-TYPE SMOKE DETECTOR TO FIRE ALARM SYSTEM FOR MONITORING ONLY. VERIFY EXACT LOCATIONS OF SMOKE/FIRE DAMPER AND COORDINATE WIRING REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.		BC BLOG	2. TESTING AND ADJUSTING OF NEW SYSTEMS SHALL COMPLY AS OUTLINED IN CGC SECTION 5.713.10.4.2.			
	LIGHTING FIXTURE NOTATION A, 1, 5, INDICATES: L1 = FIXTURE TYPE, REFER TO SCHEDULE 1 = CIRCUIT NUMBER b = SWITCH CONTROLLING FIXTURE ab = 8-LEVEL DUAL SWITCH CONTROL		RACEWAY DOWN, #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE.		REMOTE TEST/STATUS STATION FOR DUCT SMOKE DETECTOR, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. LOCATE BELOW UNIT, ABOVE FALSE CEILING.		C CAB CAT C/B CKT CLG CO, CC CU	3. OPERATIONS AND MAINTENANCE SCHEDULE (OM) AS LISTED IN CGC SECTION 5.713.10.4.5 SHALL BE DELIVERED TO THE BUILDING OWNER OR REPRESENTATIVE AND THE FACILITIES OPERATOR.	ELECTRICAL SHEET INDEX		
	HALF SHADED FIXTURE FURNISHED WITH EMERGENCY BATTERY PACK BALLAST, UNSWITCHED CIRCUIT TO BATTERY CHARGER.		RACEWAY UP, #12 AWG MINIMUM SIZE CONDUCTOR UNLESS NOTED OTHERWISE.		MANUAL FIRE ALARM PULL STATION. REFER TO SPECIFICATIONS FOR DETAILS. MOUNT AT 4' AFF TO CENTERLINE UNLESS NOTED OTHERWISE.		D DISC DN DNG DNG (D)	4. DURING CONSTRUCTION, ENDS OF DUCT OPENING ARE TO BE SEALED, AND MECHANICAL EQUIPMENT IS TO BE COVERED. CGC 5.714.4.3.			
	20 AMP SINGLE POLE SWITCH, MOUNT AT 4' AFF TO CENTERLINE UNLESS NOTED OTHERWISE.		CONDUIT STUB OUT, CAP END OF CONDUIT.		WALL MOUNTED HORN STROBE LIGHT. REFER TO SPECIFICATIONS FOR DETAILS. MOUNT AT 8' AFF TO CENTERLINE UNLESS NOTED OTHERWISE. NUMBER INDICATES CANDELA RATING.		E ELEC ELEV EM EMT EQUIP (E)	5. VOC'S MUST COMPLY WITH THE LIMITATIONS LISTED IN SECTION 5.504.4 AND TABLES 4.504.1, 5.504.4.1, 5.504.4.2, 5.504.4.3 AND 5.504.4.5 FOR: ADHESIVES, SEALANTS, PAINTS, AND COATINGS, CARPET AND COMPOSITION WOOD PRODUCTS. CGC 5.714.4.4.	ELECTRICAL SHEET INDEX		
	SUBSCRIPTS: 240 = NUMBER OF SWITCH CONTROL OR CHANNELS. 3 = 3-WAY SWITCH. 4 = 4-WAY SWITCH. 12 = DIMMER SWITCH. 12 = MOTOR-RATED TOGGLE SWITCH WITH OVERLOAD PROTECTION.		CONDUIT SLEEVE.		FIRE ALARM SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS NOTED OTHERWISE. CEILING MOUNTED. REFER TO SPECIFICATIONS FOR DETAILS.		F FBO FF FIXT FLEX FLOR FT	6. ALL NONEMERGENCY INTERIOR LUMINAIRES SHALL BE TURNED OFF BETWEEN 11PM AND 5AM.			
POWER		SPECIFICATIONS		FIRE ALARM NOTE		SEISMIC BRACING		SEISMIC SUPPORT DETAIL - T-GRID RECESSED FIXTURE			
	480V - LIGHTING AND APPLIANCE PANELBOARD - FLUSH MOUNTED.	1. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) WHERE UL DOES NOT HAVE A LISTING.	1. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) WHERE UL DOES NOT HAVE A LISTING.								
	480V - LIGHTING AND APPLIANCE PANELBOARD - SURFACE MOUNTED.	2. THE ELECTRICAL WORK SHALL INCLUDE LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, INSURANCE AND PERFORMANCE OPERATIONS REQUIRED TO CONSTRUCT AND INSTALL COMPLETE AND OPERATIVE ELECTRICAL SYSTEMS IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.	2. THE ELECTRICAL WORK SHALL INCLUDE LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, INSURANCE AND PERFORMANCE OPERATIONS REQUIRED TO CONSTRUCT AND INSTALL COMPLETE AND OPERATIVE ELECTRICAL SYSTEMS IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.								
	208V - LIGHTING AND APPLIANCE PANELBOARD - FLUSH MOUNTED.	3. MATERIALS FURNISHED AND WORK INSTALLED SHALL COMPLY WITH THE CURRENT ACCEPTED VERSION OF THE NEC, MUNICIPAL REQUIREMENTS, STATE OF CALIFORNIA AND APPLICABLE REQUIREMENTS OF OSHA.	3. MATERIALS FURNISHED AND WORK INSTALLED SHALL COMPLY WITH THE CURRENT ACCEPTED VERSION OF THE NEC, MUNICIPAL REQUIREMENTS, STATE OF CALIFORNIA AND APPLICABLE REQUIREMENTS OF OSHA.								
	208V - LIGHTING AND APPLIANCE PANELBOARD - SURFACE MOUNTED.	4. OBTAIN AND PAY FOR REQUIRED ELECTRICAL PERMITS AND INSPECTIONS. PAY APPLICABLE STATE SALES TAX.	4. OBTAIN AND PAY FOR REQUIRED ELECTRICAL PERMITS AND INSPECTIONS. PAY APPLICABLE STATE SALES TAX.								
	JUNCTION BOX IN ACCESSIBLE CEILING SPACE OR FLUSH IN WALL WITH BLANK COVER PLATE TO MATCH DEVICE PLATES.	5. WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED OR NOT SHOWN SHALL BE FURNISHED AND INSTALLED COMPLETE TO PERFORM REQUIRED FUNCTION.	5. WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED OR NOT SHOWN SHALL BE FURNISHED AND INSTALLED COMPLETE TO PERFORM REQUIRED FUNCTION.								
	20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLE, MOUNT AT 18\" data-bbox="12 430 30 445"/>	6. WHERE CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS THE MOST STRINGENT APPLICATION SHALL APPLY.	6. WHERE CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS THE MOST STRINGENT APPLICATION SHALL APPLY.								
	20 AMP, 125 VOLT, DUPLEX GROUNDING TYPE RECEPTACLE, MOUNT AT 18\" data-bbox="12 445 30 460"/>	7. THE ENTIRE ELECTRICAL SYSTEM SHALL BE LEFT IN PROPER WORKING ORDER. REPLACE ANY WORK OR MATERIAL PROVIDED FOR UNDER THIS CONTRACT WHICH DEVELOPS DEFECTS WITHIN ONE (1) YEAR OF FINAL ACCEPTANCE BY OWNER.	7. THE ENTIRE ELECTRICAL SYSTEM SHALL BE LEFT IN PROPER WORKING ORDER. REPLACE ANY WORK OR MATERIAL PROVIDED FOR UNDER THIS CONTRACT WHICH DEVELOPS DEFECTS WITHIN ONE (1) YEAR OF FINAL ACCEPTANCE BY OWNER.								
	20 AMP, 125 VOLT, QUADRUPLX GROUNDING TYPE RECEPTACLES, MOUNT IN COMMON BOX WITH COMMON PLATE AT 18\" data-bbox="12 461 30 476"/>	8. COORDINATE WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF OTHER TRADES. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO SEE THAT THIS WORK IS INSTALLED IN A TIMELY MANNER.	8. COORDINATE WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF OTHER TRADES. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO SEE THAT THIS WORK IS INSTALLED IN A TIMELY MANNER.								
	20 AMP, 125 VOLT, DUPLEX TYPE RECEPTACLE, MOUNT ABOVE COUNTER, VERIFY MOUNTING HEIGHT, SHARED INDICATES SPLIT WIRED.	9. PROVIDE AND MAINTAIN AN ADEQUATE TEMPORARY POWER, FIRE ALARM AND LIGHTING SYSTEM. REMOVE AFTER CONSTRUCTION IS COMPLETE.	9. PROVIDE AND MAINTAIN AN ADEQUATE TEMPORARY POWER, FIRE ALARM AND LIGHTING SYSTEM. REMOVE AFTER CONSTRUCTION IS COMPLETE.								
	QUAD GFI TYPE RECEPTACLES.	10. INTERIOR WIRING SHALL BE IN "EMT", WITH SET-SCREW STEEL FITTINGS. TYPE MC CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING WHERE CONCEALED ABOVE DROP CEILING AND WHERE ALLOWED BY CODE AND OWNER. MINIMUM CONDUIT SHALL BE 3/4 INCH UNLESS OTHERWISE NOTED.	10. INTERIOR WIRING SHALL BE IN "EMT", WITH SET-SCREW STEEL FITTINGS. TYPE MC CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING WHERE CONCEALED ABOVE DROP CEILING AND WHERE ALLOWED BY CODE AND OWNER. MINIMUM CONDUIT SHALL BE 3/4 INCH UNLESS OTHERWISE NOTED.								
	GFCI RECEPTACLE ABOVE COUNTER.	11. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR SIZED PER CGC 250.	11. ALL RACEWAYS TO CONTAIN SEPARATE EQUIPMENT GROUNDING CONDUCTOR SIZED PER CGC 250.								
	20 AMP, 125 VOLT, QUADRUPLX GFI TYPE RECEPTACLES, MOUNT IN COMMON BOX WITH COMMON PLATE AT 18\" data-bbox="12 523 30 538"/>	12. WIRE SHALL BE "THIN" OR "XHHW", COPPER, 90 DEGREES CELSIUS, 600 VOLTS, SOLID SIZE 10 AND SMALLER, STRANDED SIZE 8 AND LARGER. PROVIDE FEEDER AND BRANCH CIRCUITS WITH A GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED PER CGC 250-122. TERMINATIONS FOR ELECTRICAL EQUIPMENT SHALL BE RATED FOR 75 DEGREES CELSIUS.	12. WIRE SHALL BE "THIN" OR "XHHW", COPPER, 90 DEGREES CELSIUS, 600 VOLTS, SOLID SIZE 10 AND SMALLER, STRANDED SIZE 8 AND LARGER. PROVIDE FEEDER AND BRANCH CIRCUITS WITH A GREEN-INSULATED EQUIPMENT GROUNDING CONDUCTOR SIZED PER CGC 250-122. TERMINATIONS FOR ELECTRICAL EQUIPMENT SHALL BE RATED FOR 75 DEGREES CELSIUS.								
	20 AMP, 125 VOLT, QUADRUPLX GROUNDING TYPE RECEPTACLES, POKE-THRU FLOOR MOUNTED IN COMMON BOX WITH COMMON PLATE.	13. PROVIDE LIGHTING FIXTURES COMPLETE WITH LAMPS, HANGERS AND INCIDENTALS. FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE.	13. PROVIDE LIGHTING FIXTURES COMPLETE WITH LAMPS, HANGERS AND INCIDENTALS. FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE.								
	COMBINATION FLOOR OUTLET WITH DEVICES AS INDICATED.	14. PROVIDE PANELBOARDS WITH COPPER BUSBARS, FULLY RATED, OF THE SAME MANUFACTURER, (SQUARE D, CUTLER-HAMMER, GE OR SIEMENS), PROVIDE SCREW-ON ENGRAVED NAMEPLATES FOR DISTRIBUTION EQUIPMENT. DISCONNECT SWITCHES SHALL BE HEAVY DUTY.	14. PROVIDE PANELBOARDS WITH COPPER BUSBARS, FULLY RATED, OF THE SAME MANUFACTURER, (SQUARE D, CUTLER-HAMMER, GE OR SIEMENS), PROVIDE SCREW-ON ENGRAVED NAMEPLATES FOR DISTRIBUTION EQUIPMENT. DISCONNECT SWITCHES SHALL BE HEAVY DUTY.								
	MOTOR FURNISHED AND INSTALLED BY OTHERS, WIRED BY ELECTRICAL CONTRACTOR, CONNECT AS DIRECTED BY MOTOR SUPPLIER. NUMERICAL INDICATES HORSEPOWER RATING 1HP.	15. LOCATE LIGHTING FIXTURES AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLAN, WHERE THERE IS A CONFLICT BETWEEN THE ARCHITECTURAL AND ELECTRICAL DRAWINGS ON QUANTITY AND LOCATION, CONTACT THE ELECTRICAL ENGINEER TO VERIFY THE DESIGN PRIOR TO BID.	15. LOCATE LIGHTING FIXTURES AS SHOWN ON ARCHITECTURAL REFLECTED CEILING PLAN, WHERE THERE IS A CONFLICT BETWEEN THE ARCHITECTURAL AND ELECTRICAL DRAWINGS ON QUANTITY AND LOCATION, CONTACT THE ELECTRICAL ENGINEER TO VERIFY THE DESIGN PRIOR TO BID.								
	DISCONNECT SWITCH "T" DENOTES FUSIBLE, HEAVY DUTY TYPE (UNLESS NOTED OTHERWISE ON DRAWINGS) COMPLETE WITH FUSE/TERMINALS TO PROTECT MOTOR, EQUIPMENT OR CONDUCTORS (WHICHEVER IS APPLICABLE), SIZE, POLES, AND TYPE AS INDICATED. HORSEPOWER RATED, QUICK-MAKE, QUICK-BREAK, DISCONNECT SWITCH AND SPECIFICATIONS FOR DETAILS. 30/153 REFERS TO FRAME/TRIPPOLE. 9\" data-bbox="12 585 30 601"/>	16. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.	16. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.								
	COMBINATION FIRE SMOKE DAMPER BOX (BY DIV 15).	17. ALL PENETRATIONS OF FIRE RATED FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITER LABORATORIES LISTINGS FOR THROUGH PENETRATION FIRE STOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE TO THE U.L. LISTING TO THE ARCHITECT/ENGINEER AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.	17. ALL PENETRATIONS OF FIRE RATED FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAILS THAT CONFORM TO UNDERWRITER LABORATORIES LISTINGS FOR THROUGH PENETRATION FIRE STOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE TO THE U.L. LISTING TO THE ARCHITECT/ENGINEER AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE CITY INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.								
	MOTORIZED DAMPER (BY DIV 15).	18. SUBMIT FOR APPROVAL EIGHT (8) SETS OF SHOP DRAWINGS ON THE FOLLOWING: PANELBOARDS, CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING FIXTURES, LAMPS, DEVICES AND COVERPLATES AND ANY OTHER ITEMS REQUESTED BY THE ARCHITECT.	18. SUBMIT FOR APPROVAL EIGHT (8) SETS OF SHOP DRAWINGS ON THE FOLLOWING: PANELBOARDS, CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING FIXTURES, LAMPS, DEVICES AND COVERPLATES AND ANY OTHER ITEMS REQUESTED BY THE ARCHITECT.								
	POWER TRANSFORMER, SIZE AND TYPE NOTED ON PLANS. REFER TO SPECIFICATIONS FOR DETAILS.	19. PROVIDE EQUIPMENT AND MATERIAL AS SPECIFIED, APPROVED MANUFACTURERS ARE LISTED. SUBSTITUTIONS OF EQUAL OR BETTER WILL BE CONSIDERED BY ENGINEER.	19. PROVIDE EQUIPMENT AND MATERIAL AS SPECIFIED, APPROVED MANUFACTURERS ARE LISTED. SUBSTITUTIONS OF EQUAL OR BETTER WILL BE CONSIDERED BY ENGINEER.								
	VARIABLE AIR VOLUME BOX (BY DIV 15).	20. VISIT THE SITE AND CONFIRM EXISTING CONDITIONS EFFECTING SCOPE OF WORK. VERIFY ALL ROUTING OF SYSTEMS AND FEEDERS.	20. VISIT THE SITE AND CONFIRM EXISTING CONDITIONS EFFECTING SCOPE OF WORK. VERIFY ALL ROUTING OF SYSTEMS AND FEEDERS.								
<											

PANELBOARD 'HC'														
MAIN: 480/277VOLT 3-PH 4-WIRE & GND				FEED TYPE				MAIN BREAKER: MLO				MOUNTING: FLUSH		
BUS: 1 SEC. SINGLE LUGS				ENCL.: NEMA 1				BUS: 100 AMP				MIN A.I.C. RATING: 10K		
LOAD VA	LOAD DESCRIPTION	OUTLETS		CB / P	# OF CIRC	# OF BUS	CB / P	OUTLET'S		LOAD DESCRIPTION	LOAD VA			
		M	R					L	R					
2880	(E)LTs A01,A05,A09,A16	0	0	20/1	1	A	2	20/1	0	(E)LTs RMS A19-A23,A35,A40	2694			
2268	(E)A06,A27,A29	0	0	20/1	3	B	4	20/1	0	(E)LTs A30,A33,A45,A48	2904			
2772	(E)A10,A15,A24,A26	0	0	20/1	5	C	6	20/1	0	(E)A25,A34,A41,A44	2601			
1980	(E)PERMETER & ENTRYWAY LTS	0	0	20/1	7	A	8	20/1	0	(E)OUTSIDE LIGHTS	171			
	LIGHTS - OPEN OFFICE	0	0	20/1	9	B	10	20/1	0	(E)LTs RM A49,A50,A51	564			
	SPARE - OFF	0	0	20/1	11	C	12	20/1	0	(E) LTS - CORRIDOR	386			
	SPARE - OFF	0	0	20/1	13	A	14	20/1	0		2105			
	SPARE - OFF	0	0	20/1	15	B	16	20/3	0	(E) CHILLER PIT PUMP SHP	2105			
	SPARE - OFF	0	0	20/1	17	C	18	20/1	0		2105			
	SPARE - OFF	0	0	20/1	19	A	20	20/1	0	SPARE - OFF				
864	(E)CHILLER PIT LTS	0	0	20/1	21	B	22	20/1	0	SPARE - OFF				
	SPARE - OFF	0	0	20/1	23	C	24	20/1	0	SPARE - OFF				
1330		0	0	20/1	25	A	26	20/1	0		2105			
1330	LOAD 3HP (E)	0	0	20/3	27	B	28	20/3	0	(E) CHILLER PIT PUMP SHP	2105			
1330		0	0	20/1	29	C	30	20/1	0		2105			
2500	SPARE	0	0	20/1	31	A	32	20/1	0	LIGHTS - CONFERENCE ROOM	205			
2500	SPARE	0	0	20/1	33	B	34	20/1	0	SPARE	2500			
2500	SPARE	0	0	20/1	35	C	36	20/1	0	SPARE	2500			
2500	SPARE	0	0	20/1	37	A	38	20/1	0	SPARE	2500			
2500	SPARE	0	0	20/1	39	B	40	20/1	0	SPARE	2500			
2500	SPARE	0	0	20/1	41	A	42	20/1	0	INVERTER 'EL'	1815			
PHASE		A		B		C		PANEL TOTAL		PANEL LOCATION : ELEC. ROOM				
PHASE TOTAL CONNECTED VA:		20970		21940		20614		63.5 KVA		FED BY: (E) PANEL PP2 (400A)				
CONTINUOUS LOAD @125%: (45089)		19288		20500		16574		56.4 KVA		FIELD VERIFY ALL CIRCUITS AND UPDATE PANEL				
KITCHEN EQUIP. @ 65% (0)		0		0		0		0.0 KVA		DIRECTORY				
LARGEST MOTOR @125%: (6315)		2631		2631		2631		7.9 KVA		MOTOR LOADS SHALL BE EQUIPPED WITH				
HVAC @ 100% (0)		0		0		0		0.0 KVA		HCAR TYPE CIRCUIT BREAKERS				
GEN. RECEPT. DEMAND (0)		0		0		0		0.0 KVA						
REMAINING @100%		3435		3435		5250		12.1 KVA						
PANEL TOTAL W/ DEMAND:		25354		26569		24455		76.4 KVA						
FULL LOAD AMP:		91		96		88		91.9 AMPS						

MYERS

Power Products

Illuminator C-M

**Emergency Lighting
Inverter System**

Single-phase emergency lighting systems: 500VA to 2,000VA

Inverter Module

Battery Module

STANDARD FEATURES

- PWM/MOSFET Inverter technology for high efficiency and low THD
- Small footprint 26"x10"x (20"/30"/40"/50") for 500/1000/1500/2000VA units respectively
- User programmable with password protection for alarms and diagnostics
- 98% efficient in standby mode means no fan for cooling
- Modular design allows separation of inverter and battery modules
- Self testing and diagnostic with Event, Test and Alarm Logs
- Compatible with HID, fluorescent, incandescent and electronic low voltage lighting.
- Protection circuit breakers are Battery, Input and Output
- Electrical knock outs for easy contractor connection and installation
- Circuit breaker and fuse access panel for easy routine maintenance
- Sealed lead calcium valve regulated lead acid batteries are maintenance free
- 16 AWG (0.95") steel construction with powder coat surface
- Microprocessor controlled, 2x20 character display with touch pad controls front panel interface.
- Programmable setpoints are password controlled with user and service levels.
- UL 924 Listed and meets the requirements for NFPA 101

OPTIONAL FEATURES

- Field upgradeable from 500VA to 2000VA by additional battery modules
- Circuit breaker trip alarm
- Normally off output
- RS-232 interface
- Summary alarm dry contact
- Extended runtime

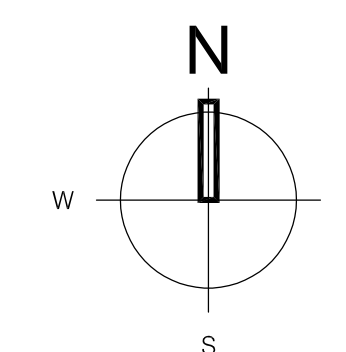
Unit Sizes Watt=VA	Battery Cabinets/ Strings Required	90 Minute Average Battery Current	Battery Weight (lbs.)	System Weight (lbs.)	Voltage Input (Volts)	* Current Input (Amps)	Current Output (Amps)
500	1	13.5 ADC	107	206	120/277	5.2/2.25	4.16/1.80
1000	2	26.5 ADC	214	335	120/277	10.5/4.51	8.33/3.61
1500	3	40 ADC	321	464	120/277	15.6/2/6.78	12.5/5.42
2000	4	52 ADC	427	652	120/277	20.8/9.03	16.66/7.22

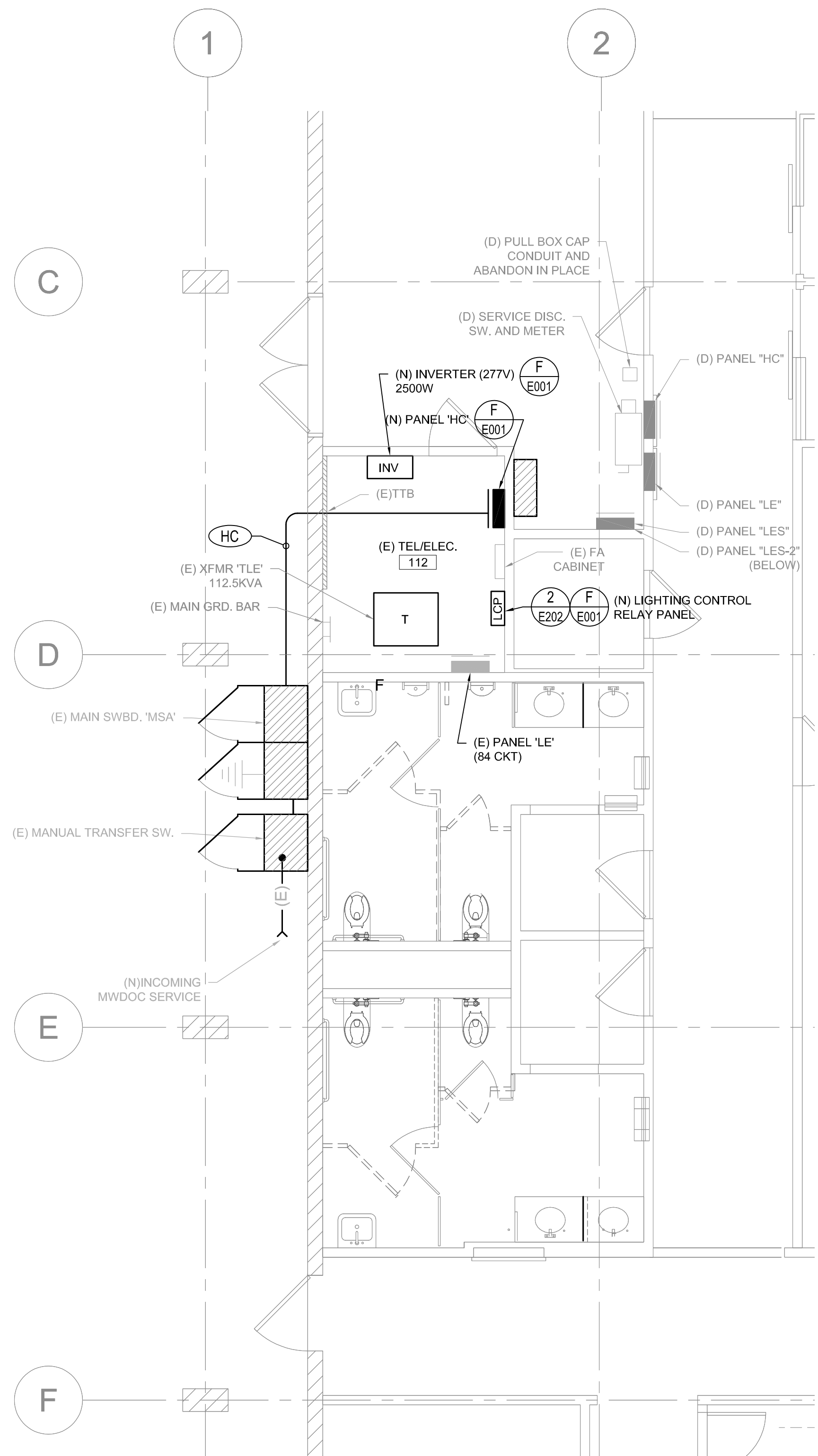
* I_{SC} reflects system at max. charge current plus max. load current
Voltage Output = Voltage Output, external transformer enclosures available for different combinations

 **MYERS**
Power Products, Inc.
Tel: 610-868-3500 Fax: 610-868-8686
www.myerspowerproducts.com

PANEL 'EL'																					
MAIN: 277V/1T-1PH-2-WIRE & GND						ENCL.: NEMA 1						BUS: 30 AMP						MIN A.I.C. RATING: 10K			
LOAD VA		LIGHTING		CB TYPE		L T S		CB / P		PHASE		CB / P		L T S		CB TYPE		LIGHTING		LOAD VA	
	DESCRIPTION	TYPE		ON	OFF					1	2	3	4	5	6			TYPE	DESCRIPTION		
752	CORRIDOR	LED		X	0		20 / 1	1	A	2	20 / 1	0	X			X		LED	CONFERENCE ROOM	700	
0	SPARE			X	0		20 / 1	3	A	4	20 / 1	0	X							0	
PHASE		A																INVERTER LOCATION:		ELEC ROOM	
PHASE TOTAL CONNECTED VA:				1452										1.5 KVA							
CONT. LOAD DEMAND @ 25%:				363										0.4 KVA						FED BY: PANEL HC	
PANEL TOTAL W/ DEMAND:				1815										1.8 KVA							
FULL LOAD AMPS:				8.7										8.7 AMPS							

[illegible]



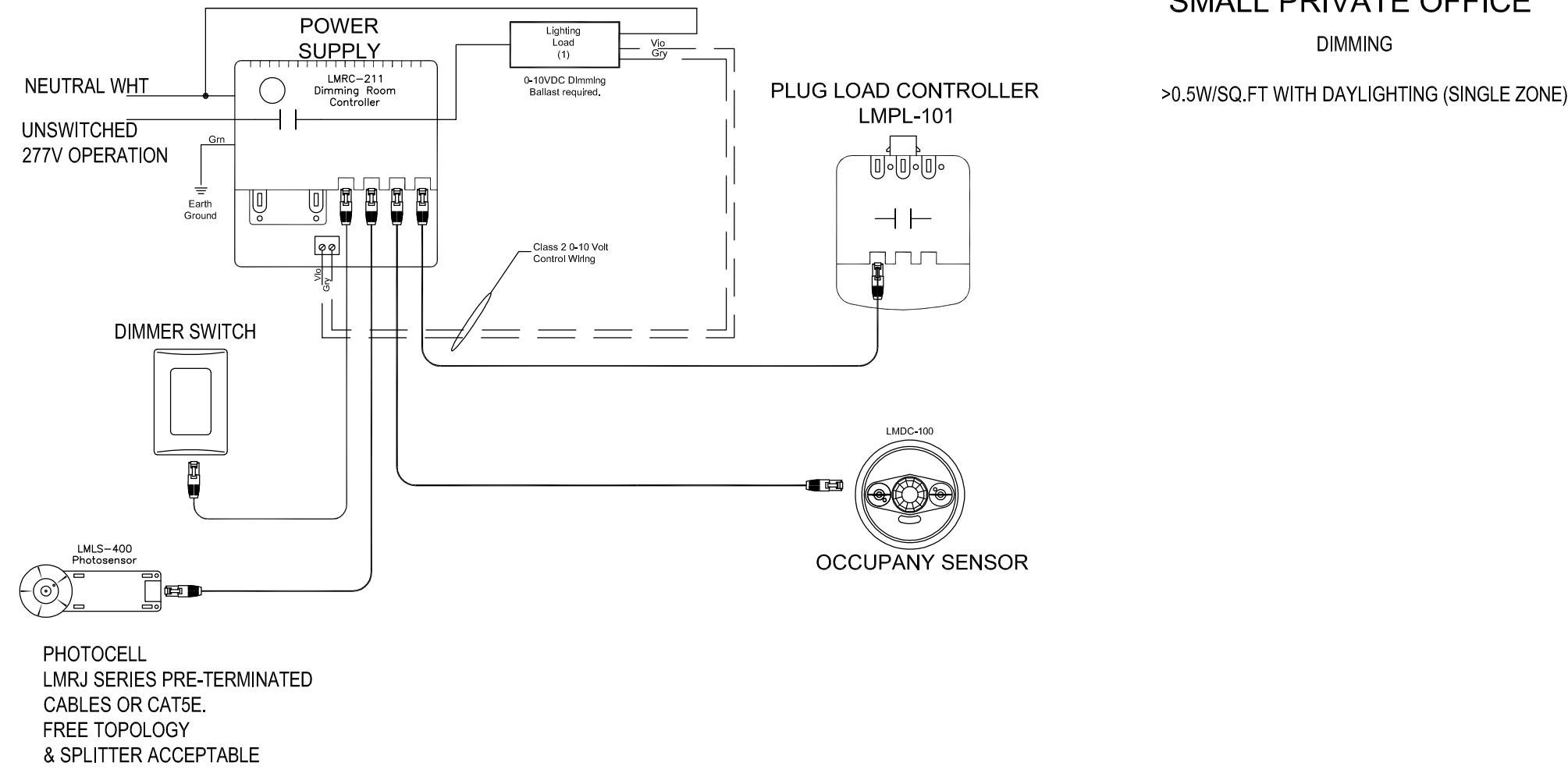


FIXTURE NOTES

1. FIXTURES SHALL INCLUDE ALL ACCESSORIES FOR INSTALLATION AS REQUIRED BY CALIFORNIA AND LOCAL ELECTRICAL CODES.
2. PRIOR TO THE RELEASE OF THE LIGHTING FIXTURE ORDER, THE PARTY RESPONSIBLE FOR FIXTURE PROCUREMENT (TYPICALLY THE CONTRACTOR) SHALL:
 - VERIFY ALL FIXTURES SHALL HAVE APPROPRIATE UL, ETL OR OTHER RECOGNIZED AND ACCEPTED TESTING AGENCY FOR DRY, DAMP, OR WET LOCATION INSTALLATION AS REQUIRED BY CALIFORNIA AND LOCAL ELECTRICAL CODES.
 - VERIFY ALL INTEGRAL OR REMOTE DRIVERS ARE RECOGNIZED BY UL, ETL OR OTHER RECOGNIZED TESTING AGENCY.
 - REMOTE DRIVERS SHALL BE LISTED AS AN "ASSEMBLY" TO OPERATE WITH THE LUMINAIRE.
3. WORK WITH THE CONTRACTOR TO VERIFY ITEMS OUTLINED IN SECTION 5 BELOW
4. PRIOR TO THE RELEASE OF THE LIGHTING FIXTURE ORDER, CONTRACTOR SHALL WORK WITH THE LIGHTING PROCUREMENT AGENT TO:
 - VERIFY FIXTURE LOCATION AND ABOVE-CEILING CLEARANCES FOR RECESSED FIXTURES. CONTRACTOR SHALL NOTIFY THE LIGHTING DESIGNER OF ANY CONFLICTS.
 - VERIFY FINAL FIXTURE VOLTAGE
 - VERIFY CEILING TRIM COMPATIBILITY (E.G. GYP. OR SUSPENDED CEILING)
 - VERIFY FIELD LENGTHS OF COVE OR PERIMETER LIGHTING. THESE FIXTURES MUST NOT BE DIMENSIONED FROM PLANS
 - IDENTIFY FIRE RATED CEILING OR FLOOR ASSEMBLIES AND PROVIDE FIRE RATED ENCLOSURES FOR FIXTURES TO BE INSTALLED IN THESE CONDITIONS
 - IDENTIFY INSULATED CEILING AREAS AND PROVIDE IC RATED HOUSING OPTIONS FOR FIXTURES TO BE INSTALLED IN THESE CONDITIONS. CONTRACTOR SHALL NOTIFY THE LIGHTING DESIGNER IF AN IC OPTION IS NOT AVAILABLE FOR THE SPECIFIED FIXTURE(S)
5. LAMPS OR LED LIGHT ENGINES SHALL BE INSTALLED AS OUTLINED IN THE FIXTURE SCHEDULE BELOW
6. CEILING THICKNESSES IN EXCESS OF 3/4" SHALL BE IDENTIFIED IN WRITING BY THE ARCHITECT OR CONTRACTOR
7. WALLS DIRECTLY ILLUMINATED (E.G. "WALL GRAZING" OR PERIMETER LIGHTING SYSTEMS) SHALL BE A LEVEL 5 FINISH, AS DEFINED IN GYPSUM ASSOCIATION GA 216-96
8. THE ARCHITECT AND LIGHTING DESIGNER SHALL APPROVE FIXTURE SUBSTITUTIONS PRIOR TO BID, IN ACCORDANCE WITH SECTION 26 00 00 SPECIFICATIONS. IF NON-SPECIFIED OR NON-APPROVED ALTERNATES ARE INSTALLED, THEY SHALL BE REPLACED AT THE CONTRACTORS SOLE EXPENSE (INCLUDING BACKCHARGES BY OTHER TRADES SUCH AS DRYWALL, PAINTING, ETC.), WITH NO ADDITIONAL COST TO THE OWNER.

Latest revisions in **BOLD**

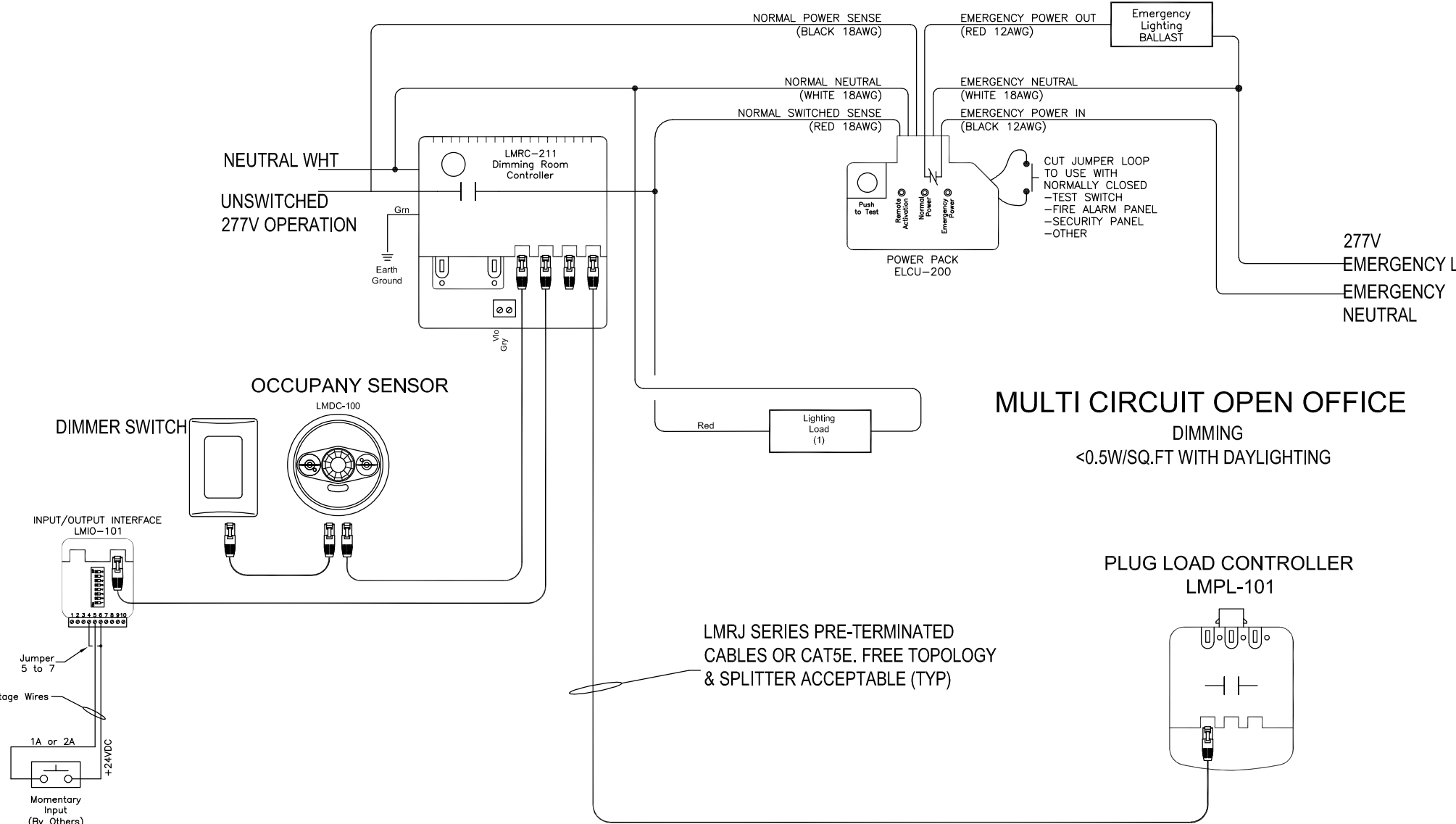
LIGHT FIXTURE SCHEDULE							
TYPE	DESCRIPTION	LOCATION	MANUFACTURER & CATALOG #	LUMENS OUTPUT / KELVIN TEMP	TOTAL WATTS	VOLTS	REMARKS
A	2x4 LED TROFFER, 0-10V DIMMING DRIVER	OFFICES & CORRIDOR	SAYLITE #SBX SERIES	5000	40	277	RECESSED T-GRID. PROVIDE SEISMIC SUPPORTS T-GRID FRAME KIT
B	4" DIA. LED DOWN LIGHT WITH 0-10V DIMMING DRIVER, W/ A REGRESSED REFLECTOR LENS	CONF. ROOMS	DMF #DRD2 STANDARD SERIES	1090 / 3500K	12.8	277	
BW	4" DIA. LED WALL WASH DOWN LIGHT WITH 0-10V DIMMING DRIVER	CONF. ROOMS	DMF #DRD2 STANDARD SERIES	1090 / 3500K	12.8	277	GYP. BD. CEILING. EQUIP FRAME KIT
C	4" 2"x3" PERIMETER LINEAR LED FIXTURE WITH CONTINUOUS SNAP ON LENS AND CAST ALUMINUM HOUSING, 0-10V DIMMING	CONF. ROOMS	PRUDENTIAL # BOLT BOX SERIES	2565 / 3500K	5.75/LF	277	SURFACE MOUNTED TO SUSPENDED GYP. BD. CEILING. REFER TO ARCHITECTURAL DETAILS
D	LINEAR WALL SLOT LED FIXTURE WITH GRID TRIM, WHITE FINISH, FIELD CONFIRM LENGTHS FOR EXACT LINEAR COME RUN	RESTROOMS	LITE CONTROL # WALL SLOT 6000 SERIES (4LF & 8LF RUNS)	1200 / 3500K	18	277	GYP. BD. CEILING. EQUIP WITH EXTRUDED ALUM. MOUNTING RAILS. REFER TO ARCHITECTURAL DETAILS
E	8LF LINEAR LED ASYMMETRIC WALL WASH FIXTURE WITH 0-10V DRIVER	LOBBY	PRUDENTIAL #MICRO WASH SERIES (8LF RUNS)	3499 / 3500K	39	277	STEM MOUNTED. REFER TO ARCHITECTURAL DETAILS
F	3" DIA. SEMI-RECESSED LED LIGHT FIXTURE WITH OPAL LENS & 0-10V DIMMING DRIVER, LOW LIGHT OUTPUT	LOBBY	PRUDENTIAL #3900 SERIES	5800 / 3500K	56	277	STEM MOUNTED CANOPY AND T-GRID CEILING MOUNTED
G	LED COVE LIGHT WITH EXTRUDED ALUMINUM CHANNEL AND LENS	CONF. ROOMS AND LOBBY	INFINEX CHANNEL SERIES TAPE LIGHT	91 LUMENS / LF 3500K	1.5W/LF	277	EQUIP WITH MANUFACTURERS STEPDOWN TRANSFORMER AND POWER SUPPLY. REFER TO ARCHITECTURAL DETAILS FOR MOUNTING
X	EXIT SIGN, GREEN LED EDGE LIT		DUAL WEDGE LIT SERIES	5 / GREEN	5	277	CEILING MOUNTED. REFER TO ARCHITECTURAL PLANS FOR DIRECTIONAL ARROW REQUIREMENTS



LIGHTING CONTROL WIRING DIAGRAM

NONE

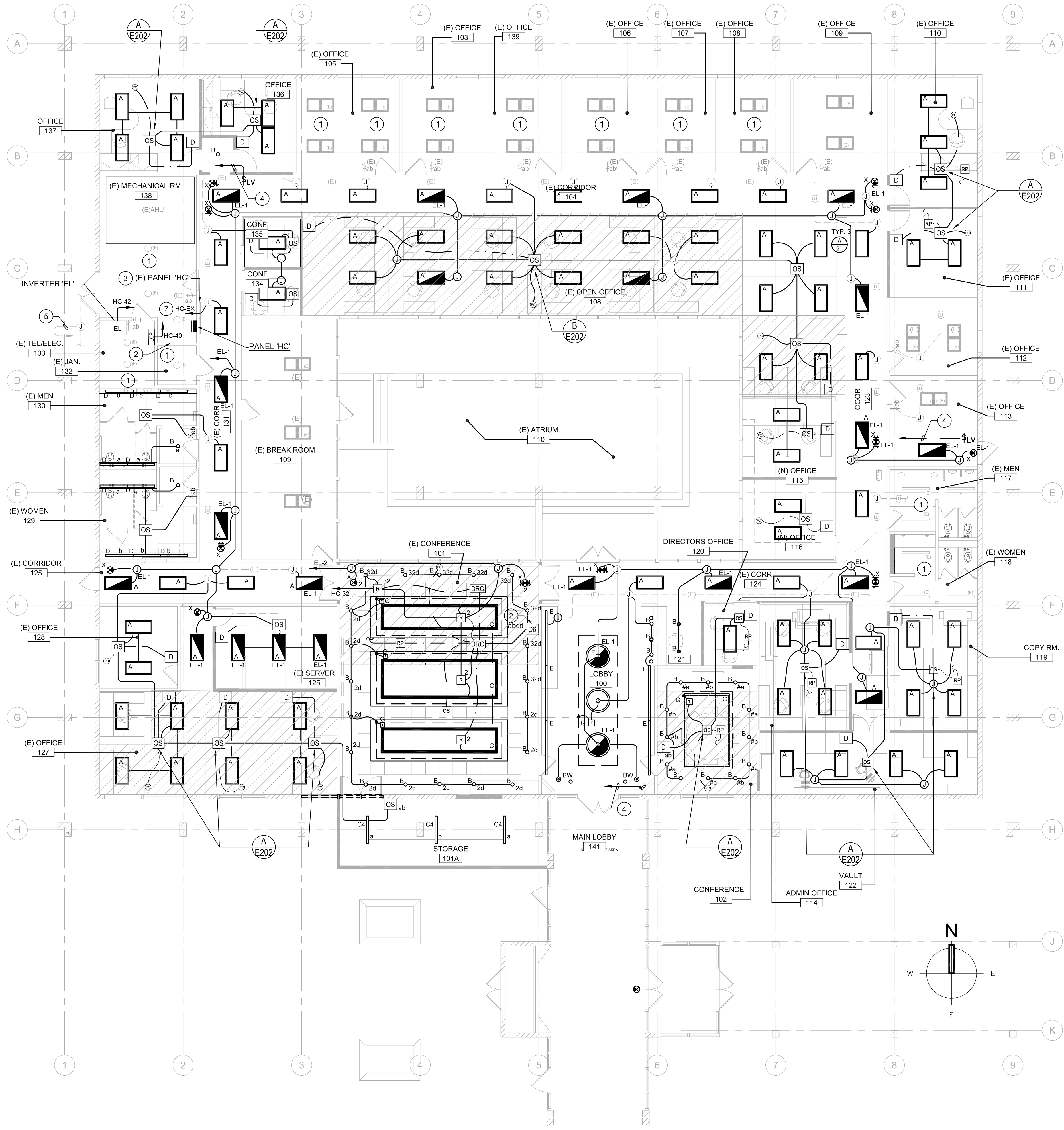
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LIGHTING CONTROL WIRING DIAGRAM

NONE

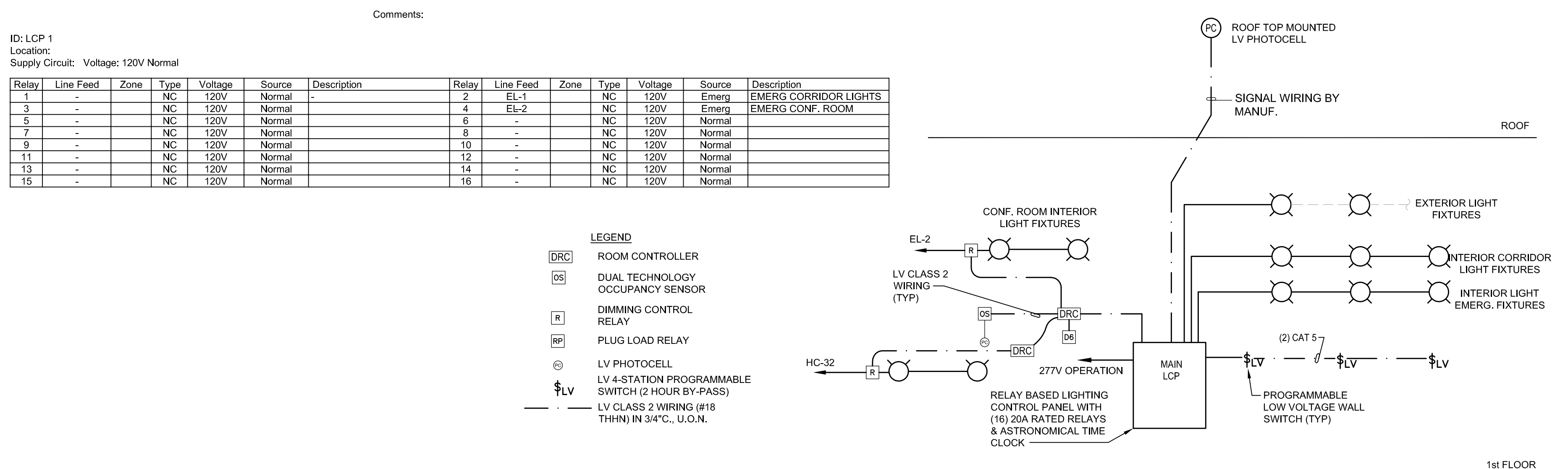
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FLOOR PLAN - LIGHTING

1/8" = 1'-0"

1



LIGHTING CONTROL RISER DIAGRAM

1/8" = 1'-0"

2

GENERAL NOTES

1. PROVIDE A DISCONNECTING MEANS FOR EACH MULTI-WIRE LIGHTING BRANCH CIRCUIT IN ACCORDANCE W/ NEC 410.130(G)(1) THRU (3). DISCONNECTING MEANS SHALL BE LOCATED AT POINT WHERE CIRCUIT ORIGINATES AND SHALL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
3. VERIFY EXACT CEILING CONSTRUCTION W/ ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES W/ NECESSARY MOUNTING HARDWARE.
4. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS W/ MECHANICAL EQUIPMENT AND DUCT WORK PRIOR TO ROUGH-IN.
5. RECESSED FIXTURES SHALL BE PROVIDED W/ ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY CURRENTLY ACCEPTED EDITION OF APPLICABLE NATIONAL, STATE, AND CITY CODES, ORDINANCES, AND AMENDMENTS.
6. DIMMING BRANCH CIRCUITS SHALL BE PROVIDED W/ A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
7. LOW VOLTAGE WIRING NOT RUN IN CONDUIT SHALL BE PENUM RATED.
8. CONTRACTOR TO PROVIDE NECESSARY TRAVELER CONDUCTORS FOR ALL 3 AND 4 WAY SWITCHING APPLICATIONS.
9. GENERAL CONTRACTOR SHALL VERIFY CEILING FIRE RATING WITH ARCHITECT, AND BOX OR TENT RECESSED LIGHT FIXTURES, IF REQUIRED, TO MAINTAIN CEILING FIRE RATING.
10. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
11. A CERTIFICATE OF ACCEPTANCE SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY UNDER TITLE 24, 130.4(a) OF PART 1 FOR: A. LIGHTING CONTROLS.
12. VERIFY EXACT CEILING CONSTRUCTION AT SITE AND PROVIDE LIGHTING FIXTURES W/ ALL NECESSARY MOUNTING HARDWARE.
13. ALL NEW FIXTURES SHALL BE PROVIDED W/ ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY CURRENTLY ACCEPTED EDITION OF ALL APPLICABLE NATIONAL, STATE, AND CITY CODES, ORDINANCES, AND AMENDMENTS.
14. PROGRAM ALL LIGHTING CONTROLS TO MEET THE LATEST REQUIREMENTS OF THE LIGHTING TITLE 24.
15. ALL LIGHTING FIXTURES AND CONTROLS ARE NEW UNLESS OTHERWISE NOTED.
16. LIGHT FIXTURES WITH INTERFACE WITH THE MECHANICAL VARIABLE REFRIGERATION SUPPLY AND EXHAUST FANS, CONTRACTOR SHALL REFER AND COORDINATE WITH THE MECHANICAL PLANS FOR LIGHTING OCCUPANCY SENSOR 0-10VDC OUTPUT SIGNAL ELECTRICAL. CONTRACTOR SHALL PROVIDE PENUM RATED LOW VOLTAGE WIRING TO THE MECHANICAL EQUIPMENT ACCORDINGLY.
17. CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS ASSOCIATED WITH EXISTING PANEL 'HC'. TAG AND EXTEND TO PANEL 'HC' NEW LOCATION AND RECONNECT. UPDATE PANEL DIRECTORIES ACCORDINGLY.

KEY NOTES

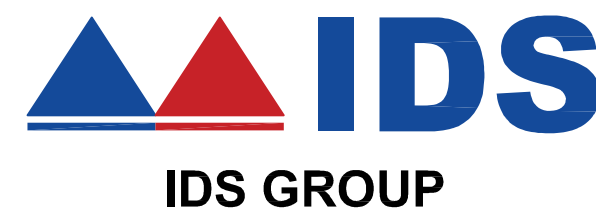
1. EXISTING LIGHTING & ASSOCIATED CONTROL TO REMAIN AS IS.
2. RELAY BASED LIGHTING CONTROL PANEL. ALL PROGRAMMING SHALL BE COORDINATED WITH THE OWNER FOR SEQUENCE OF OPERATION.
3. DISCONNECT, REMOVE, AND EXTEND ALL EXISTING CIRCUITS IN EXISTING PANEL TO NEW PANEL 'HC'. PROVIDE AN ABOVE CEILING WIREWAY ABOVE PANEL FOR INTERCEPTING EXISTING CIRCUITS.
4. EXTEND CAT 5 WIRING TO LIGHTING CONTROL RELAY PANEL. REFER TO LIGHT CONTROL RISER DIAGRAM, SHEET E-202.
5. INTERCEPT EXISTING EXTERIOR LIGHTING CIRCUIT AND EXTEND TO NEW PANEL VIA THE LIGHTING CONTROL RELAY CABINET.
6. PROVIDE A SIX STATION PROGRAMMABLE DIMMING STATION WITH ASSOCIATED RELAYS, COMBINATION OCCUPANCY SENSOR / PHOTOCELL, ROOM CONTROLLER AND LOW VOLTAGE WIRING, LEVITON # GREEN MAX DRC SERIES.
7. FIELD VERIFY EXISTING CIRCUIT. EXTEND TO UPGRADED PANEL LOCATION, AND RECONNECT. UPDATE PANEL DIRECTORY FOR EXACT CIRCUIT IDENTIFIED.



PROJECT NAME

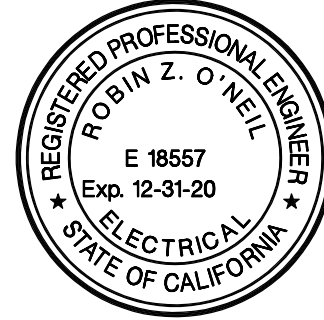
MUNICIPAL WATER DISTRICT
OF ORANGE COUNTY
**ADMINISTRATIVE
BUILDING-SEISMIC
RETROFIT, ADA
COMPLIANCE AND
TENANT IMPROVEMENT**

ENGINEER/ARCHITECT



1 PETERS CANYON ROAD, SUITE 130
IRVINE, CA 92618
TEL: 949-387-8500, FAX: 949-387-0800

STAMP



STAMP

ISSUE

REV.	DESCRIPTION	DATE
90%	CD Owner Review	

KEY PLAN

PROJECT NO.

18X093.00

PRINT DATE

DRAWN BY

CHECKED BY

SHEET TITLE

**FLOOR PLAN
LIGHTING AND
FIXTURE SHEDULE**




SHEET NUMBER

E-202

SHEET NO.

OF

NOT FOR CONSTRUCTION

STATE OF CALIFORNIA Indoor Lighting		CALIFORNIA ENERGY COMMISSION		 NRCC-L11-E Page 6 of 6 8/14/2019	
NRCC-L11-E (Created 7/18)					
CERTIFICATE OF COMPLIANCE					
Project Name: NWDJ - Seismic Retrofit		Report Page:		8/14/2019	
Project Address: 18700 Ward Street		Date Prepared:		8/14/2019	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT					
Documentation Author Name: Elka Meradjanpay		Documentation Author Signature: 			
Company: IDS Electrical Engineers, Inc.		Signature Date: 8/14/19			
Address: 1 Peters Canyon Road, Suite 130		CEA/HERS Certification Identification (if applicable):			
City/State/Zip: Irvine, CA 92606		Phone: (949) 387-8500			
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 design)					
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 this 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: Robin O'Neill		Responsible Designer Signature: 			
Company: IDS Electrical Engineers, Inc.		Date Signed: 8/14/19			
Address: 1 Peters Canyon Road, Suite 130		License: E18557			
City/State/Zip: Irvine, CA 92606		Phone: (949) 387-8500			

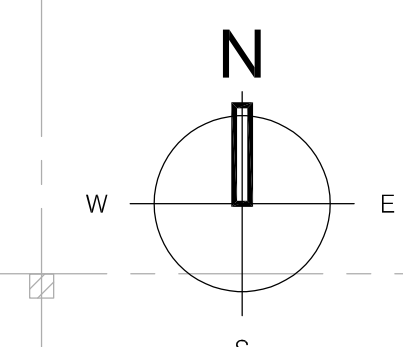
STATE OF CALIFORNIA Indoor Lighting NRCOC LTI-E (Created 7/7/18)		CALIFORNIA ENERGY COMMISSION NRCOC LTI-E Page 5 of 6 8/14/2019			
CERTIFICATE OF COMPLIANCE Project Name: MWOJC - Seismic Retrofit Project Address: 18700 Ward Street		Report Page: Date Prepared:			
T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION					
<i>Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2013publications/CESR-409-2013-033/appendixes/forms/NRCOC</i>					
YES	NO	Form/Title	Field Inspector		
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Pass</td> <td style="width: 50%;">Fail</td> </tr> </table>	Pass	Fail
Pass	Fail				
<input checked="" type="radio"/>	<input type="radio"/>	NRCO-LTI-01-E - Must be submitted for all buildings	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				
<input checked="" type="radio"/>	<input type="radio"/>	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-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.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-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.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				
<input type="radio"/>	<input checked="" type="radio"/>	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				
U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE					
<i>Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks: These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCOP). For more information visit: http://www.energy.ca.gov/titles24/setup/providers.html</i>					
YES	NO	Form/Title	Field Inspector		
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Pass</td> <td style="width: 50%;">Fail</td> </tr> </table>	Pass	Fail
Pass	Fail				
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-05-A - Must be submitted for insituational tuning power adjustment factor (PAF).	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">□</td> <td style="width: 50%; text-align: center;">□</td> </tr> </table>	□	□
□	□				

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/titles24/2016standards>
July 2018

01		02		03		04		05		06		
Area Description		Complete Building or Area Category Primary Function Area		Allowed Density (W/ft ²)		Area (ft ²)		Allowed Wattage (Watts)		Additional Allowances / Adjustments		
										Footnotes	PAF	Portable Lig
J. POWER ADJUSTMENT: SPECIAL LIGHTING IN OFFICES This Section Does Not Apply												
K. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD FOOTNOTES This Section Does Not Apply												
L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This Section Does Not Apply												
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS This Section Does Not Apply												
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This Section Does Not Apply												
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This Section Does Not Apply												
P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS This Section Does Not Apply												
Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This Section Does Not Apply												
R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF) This Section Does Not Apply												
S. RATED POWER REDUCTION COMPLIANCE BY SPACE This Section Does Not Apply												

NOT FOR CONSTRUCTION

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Corridor 104, 123, 131	+	39.6 fc	51.1 fc	6.8 fc	7.5:1	5.8:1
Corridor 108	+	41.8 fc	49.5 fc	38.2 fc	1.3:1	1.1:1
Corridor 125	+	43.7 fc	50.8 fc	31.6 fc	1.6:1	1.4:1



1. PROVIDE A DISCONNECTING MEANS FOR EACH MULTI-WIRE LIGHTING BRANCH CIRCUIT IN ACCORDANCE W/ NEC 410.130(9)(1) THRU (3). DISCONNECTING MEANS SHALL BE LOCATED AT POINT WHERE CIRCUIT ORIGINATES AND SHALL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
3. VERIFY EXACT CEILING CONSTRUCTION W/ ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES W/ NECESSARY MOUNTING HARDWARE.
4. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS W/ MECHANICAL EQUIPMENT AND DUCT WORK PRIOR TO ROUGH-IN.
5. RECESSED FIXTURES SHALL BE PROVIDED W/ ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY CURRENTLY ACCEPTED EDITION OF ALL APPLICABLE NATIONAL, STATE, AND CITY CODES, ORDINANCES, AND AMENDMENTS.
6. DIMMING BRANCH CIRCUITS SHALL BE PROVIDED W/ A DEDICATED NEUTRAL CONDUCTOR FOR EACH ZONE/CHANNEL.
7. LOW VOLTAGE WIRING NOT RUN IN CONDUIT SHALL BE PLENUM RATED.
8. CONTRACTOR TO PROVIDE NECESSARY TRAVELER CONDUCTORS FOR ALL 3 AND 4 WAY SWITCHING APPLICATIONS.
9. GENERAL CONTRACTOR SHALL VERIFY CEILING FIRE RATING WITH ARCHITECT, AND BOX OR TENT RECESSED LIGHT FIXTURES, IF REQUIRED, TO MAINTAIN CEILING FIRE RATING.
10. PENETRATIONS THRU FIRE RATED WALLS SHALL BE PROTECTED FROM THE FLETHOOD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
11. A CERTIFICATE OF ACCEPTANCE SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY UNDER TITLE 24, 130.4(a) OF PART 1 FOR: A. LIGHTING CONTROLS.
12. VERIFY EXACT CEILING CONSTRUCTION AT SITE AND PROVIDE LIGHTING FIXTURES W/ ALL NECESSARY MOUNTING HARDWARE.
13. ALL NEW FIXTURES SHALL BE PROVIDED W/ ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY CURRENTLY ACCEPTED EDITION OF ALL APPLICABLE NATIONAL, STATE, AND CITY CODES, ORDINANCES, AND AMENDMENTS.
14. PROGRAM ALL LIGHTING CONTROLS TO MEET THE LATEST REQUIREMENTS OF THE LIGHTING TITLE 24.
15. ALL LIGHTING FIXTURES AND CONTROLS ARE NEW UNLESS OTHERWISE NOTED.
16. LIGHT FIXTURES WITH INTERFACE WITH THE MECHANICAL VARIABLE REGENERATION SUPPLY AND EXHAUST FANS. CONTRACTOR SHALL REFER AND COORDINATE WITH THE MECHANICAL PLANS FOR LIGHTING OCCUPANCY SENSOR 0-10VDC OUTPUT SIGNAL. ELECTRICAL CONTRACTOR SHALL PROVIDE PLENUM RATED LOW VOLTAGE WIRING TO THE MECHANICAL EQUIPMENT CONTROL LINEARLY.



18700 WARD STREET
FOUNTAIN VALLEY, CA 92708

MUNICIPAL WATER DISTRICT
OF ORANGE COUNTY

ADMINISTRATIVE
BUILDING-SEISMIC
RETROFIT, ADA
COMPLIANCE AND
TENANT IMPROVEMEN



1 PETERS CANYON ROAD, SUITE 130
IRVINE, CA 92606
TEL: 949-387-8500, FAX: 949-387-0800

KEY PLAN

PROJECT NO.	18X093.00
PRINT DATE	
DRAWN BY	
CHECKED BY	

EMERGENCY PHOTOMETRIC CALCULATION

E-401

OF

