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1098 Alta Ave.  
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### GENERAL ELECTRICAL NOTES

- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL EQUIPMENT, DEVICES AND WIRING.
- RECEPTACLES, LIGHT SWITCHES, TELEPHONE-DATA OUTLETS AND OTHER RECESSED ELECTRICAL DEVICES THAT ARE SHOWN BACK TO BACK ON FIRE RATED WALLS SHALL BE SEPARATED HORIZONTALLY BY AT LEAST 24" AND FIRE SEALED. PENETRATIONS AT RATED WALLS SHALL BE MADE WITH CONDUIT SLEEVES WITH END BUSHINGS AND UL LISTED FIRE PUTTY ON BOTH SIDES. SLEEVES BETWEEN ADJACENT BUILDINGS SHALL BE MADE USING LIQUID TIGHT FLEXIBLE CONDUIT.
- THE CONTRACTOR SHALL VERIFY EXACT LOCATION OF TERMINAL BOXES AND CONDUIT ENTRANCES AGAINST SHOP DRAWINGS AND EQUIPMENT BY OTHER TRADES PRIOR TO INSTALLATION.
- IN CASE OF CONFLICT BETWEEN ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING BEFORE PROCEEDING.
- ALL OUTDOOR DEVICES SHALL BE WEATHERPROOF. CONTRACTOR SHALL PROVIDE ADDITIONAL PULL BOXES WHERE THEY ARE REQUIRED TO MAKE A WORKABLE INSTALLATION. ALL PULL BOXES ABOVE GROUND SHALL BE PAD LOCKABLE.
- DO NOT ROUTE ANY VIDEO/DATA OR ANY OTHER SIGNAL SYSTEM VIA POWER BOXES.
- USE OF RIGID THREADED CONDUIT IS REQUIRED IN ALL LOCATIONS EXPOSED TO PHYSICAL DAMAGE.
- MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE 3/4".
- COORDINATE EXACT LOCATION OF HVAC UNITS AND CONFIRM UNIT NAMEPLATE PRIOR TO ROUGH-IN.
- PROVIDE A CODE SIZED GROUND WIRE IN ALL CONDUIT RUN.
- VERIFY MOUNTING HEIGHTS TO ALL RECEPTACLES MOUNTED ABOVE COUNTERS.
- PROVIDE PANEL LEGENDS TO ALL NEW PANELBOARDS.
- PROVIDE "STICK-ON" LABEL TO ALL RECEPTACLES, LIGHT SWITCHES, DISCONNECT SWITCHES, PANELBOARDS WITH PANELBOARD CIRCUIT DESIGNATION.
- ALL INSTALLATIONS SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND THE NATIONAL ELECTRICAL CODE.
- PROVIDE ALL FINAL ELECTRICAL CONNECTION TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
- THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE CONNECTION OF ALL MECHANICAL AND OTHER EQUIPMENT WHICH IS TO BE INSTALLED AS PART OF THIS CONTRACT.
- PROVIDE ADDITIONAL SUPPORTS FOR SWITCHES, STARTERS, RACEWAYS AND ELECTRICAL EQUIPMENT WHEREVER THE BUILDING STRUCTURE IS NOT SUITABLE FOR DIRECT MOUNTING.
- REFER TO MECHANICAL DRAWINGS FOR EXACT CONTROL WIRING REQUIREMENTS AND MECHANICAL EQUIPMENT LOCATIONS AND CONNECTIONS.
- ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND PROPERLY LABELED.
- ALL SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS SHALL BE FIELD MARKED WARNING QUALIFIED PERSONNEL OF THE POTENTIAL ARC FLASH HAZARDS AND THE APPROPRIATE PPE REQUIRED PER NFPA 70-10.16 AND NFPA 70E-2012.
- GROUPED CONDUCTORS OF DIFFERENT SYSTEMS SHALL BE IDENTIFIED BY SYSTEM AND IDENTIFICATION MEANS TO BE PERMANENTLY POSTED AT EACH BRANCH CIRCUIT PANELBOARD PER NEC ART. 200.6 (D).
- UP-TO-DATE, ACCURATE AND LEGIBLE CIRCUIT DIRECTORY WHICH APPLIES TO PANELBOARDS AND SWITCHBOARDS AS REQUIRED BY NEC ART. 408.4 SHALL BE LOCATED ON THE FACE OR ON THE DOOR OF EACH PANELBOARD OR AT EACH SWITCH ON A SWITCHBOARD. PANEL SCHEDULE SHALL REFLECT CIRCUIT FUNCTION AND LOCATION.
- CONTRACTOR IS RESPONSIBLE FOR THE ARRANGEMENT OF INSPECTING ELECTRICAL EQUIPMENT IN A DE-ENERGIZED STATE PER NFPA 70E-2012.
- CRITICAL EQUIPMENT THAT IS ENERGIZED PRIOR TO INSPECTION SHALL BE DE-ENERGIZED AT INSPECTORS DISCRETION PER ART. 110.3 AND NFPA 70E-2012.
- ELECTRICAL WORK REQUIRING LANDING OF NEW CIRCUITS INTO EXISTING PANELBOARDS SHALL REQUIRE THE SHUTDOWN OF THE PANELBOARD. THIS SHUTDOWN SHALL BE COORDINATED BY THE PARTIES INVOLVED.
- THE GROUND-FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED WHEN FIRST INSTALLED ON SITE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH INSTRUCTIONS THAT SHALL BE PROVIDED WITH THE EQUIPMENT.

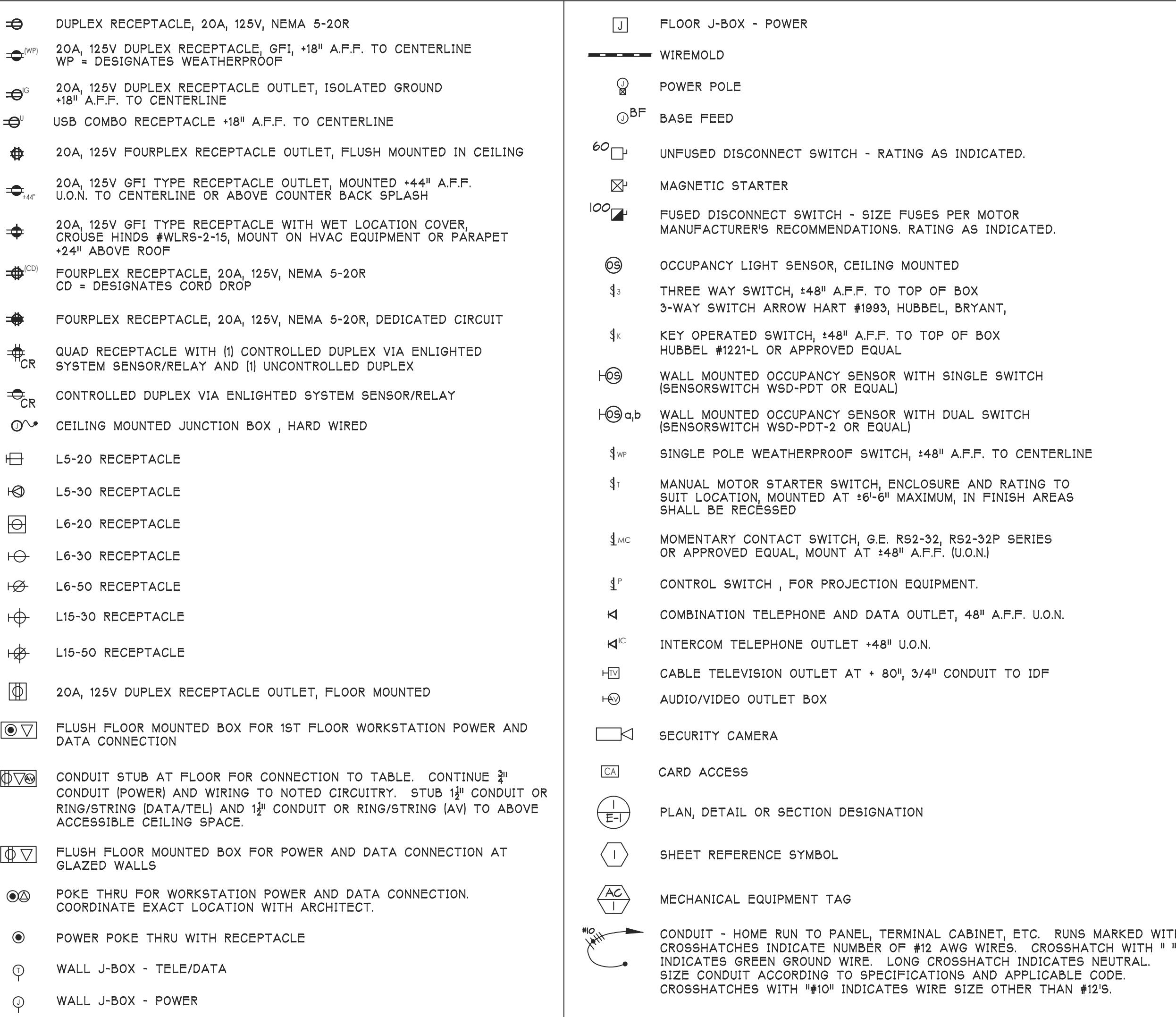
### POWER & SIGNAL NOTES

- UNLESS SPECIFICALLY DIMENSIONED, ALL OUTLETS SHALL BE INSTALLED AT THE NEAREST STUD. REVIEW LAYOUT OF ALL ELECTRICAL DISTRIBUTION SYSTEMS IN THE FIELD WITH THE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL COORDINATE TELEPHONE AND DATA SYSTEM POWER AND DISTRIBUTION REQUIREMENTS WITH THE TENANT. PROVIDE EXTENSION KINGS AND DRAWS STRINGS TO CEILING PLenums. PROVIDE TELEPHONE AND DATA LINES IN VIAL SUPPORT PULLING FROM THE TERMINATIONS SHALL BE N.I.C. UNLESS OTHERWISE NOTED. ALL EXPOSED CABLE IN CEILING PLenum SHALL BE TEFLON COATED OR IN CONDUIT. BUNDLE LARGE CABLE GROUPINGS AND SUPPORT INDEPENDENTLY OF SUSPENDED CEILING.
- MULTIPLE SWITCHES OR OUTLETS OF SIMILAR TYPE WHETHER NEW OR EXISTING SHALL BE GANGED TOGETHER IN SINGLE WALL PLATES.
- ALL NEW OUTLETS ARE TO BE MOUNTED AT NOT LESS THAN 15" FROM BOTTOM OF BOX A.F.F. UNLESS OTHERWISE NOTED.
- ALL NEW SWITCHES ARE TO BE MOUNTED AT NOT MORE THAN 48" FROM TOP OF BOX A.F.F. (U.O.N.)
- DIMENSIONS ARE TO BE CENTERLINE OF FIXTURE OR GROUP OF FIXTURES, DEVICES, UNLESS OTHERWISE NOTED.
- ALL SPACES ON PANELS OR SWITCHBOARDS SHALL BE COMPLETE WITH HARDWARE AND BUSSING FOR FUTURE BREAKER OR SWITCH.
- GROUNDING AND BONDING SHALL BE PER CODE PLUS ANY ADDITIONAL PROVISIONS AS REQUIRED BY EQUIPMENT.
- REMOVE ALL EXISTING ELECTRICAL CONDUIT, SWITCHES, RECEPTACLES, ETC. WHICH WILL NOT BE REUSED OR WHICH ARE NOT IN COMPLIANCE WITH CURRENT CODES, ORDINANCES, ETC.
- ALL OUTLETS, SWITCHES AND COVERPLATES SHALL MATCH THE EXISTING TYPE AND FINISH.
- ALL ACCESSIBLE ABANDONED CLASS 2, CLASS 3, AND PLTC CABLES SHALL BE REMOVED PER THE REQUIREMENTS OF CEC ARTICLES 640, 649, 725, 760, 770, 820, AND 830.
- ELECTRICAL WIRING IN PLENUMS SHALL COMPLY WITH NFPA 70, NATIONAL ELECTRICAL CODE.
- RECESSED LIGHTING FIXTURES, INCLUDING THEIR ASSEMBLIES AND ACCESSORIES, IN PLENUMS SHALL BE LISTED AND LABELED AS SUITABLE FOR USE IN PLENUMS.
- MATERIALS INSTALLED IN PLENUMS SHALL BE LISTED AND LABELED AS SUITABLE FOR USE IN PLENUMS AND SHALL CONFORM TO THE REQUIREMENTS IN CALIFORNIA MECHANICAL CODE SECTION 602.2.

### PANEL SCHEDULE GENERAL NOTES

- WHERE REQUIRED, FURNISH AND INSTALL NEW CIRCUIT BREAKER(S) AS SHOWN IN EXISTING SPACE(S). THE NEW CIRCUIT BREAKER(S) SHALL MATCH EXISTING AND BE COMPATIBLE FOR INSTALLATION IN EXISTING PANELBOARD. FURNISH AND INSTALL ALL MOUNTING HARDWARE AND MAKE ALL NECESSARY CONNECTIONS AS REQUIRED AND COORDINATE WITH THE MANUFACTURER PRIOR TO ORDERING.
- EFFECTIVELY BOND ELECTRICAL CABINETS, ENCLOSURES AND CONDUIT RACEWAYS TO CODE APPROVED GROUND AS PART OF THE CONTINUOUS GROUNDING SYSTEM. PROVIDE COMMON AND ISOLATED GROUNDING SYSTEM AS REQUIRED.
- MODIFICATIONS AND ADDITIONS TO EXISTING PANELBOARDS SHALL UTILIZE COMPONENTS AND EQUIPMENT BY ORIGINAL EQUIPMENT MANUFACTURER.
- TORQUE ALL BUS CIRCUIT BREAKER AND CABLE CONNECTIONS.
- UPGRADE ALL PANELBOARD SCHEDULES TO NEW DESIGNATIONS.

### ELECTRICAL SYMBOLS



### GENERAL LIGHTING NOTES

\* ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL HAVE A MINIMUM 90 MINUTE BATTERY BACKUP. HALF-SHADED FIXTURES SHALL BE CONNECTED TO EMERGENCY LIGHTING INVERTER.  
\*\* ALL NEW LIGHT FIXTURES SHALL BE DIMMABLE.

- CONFIRM LIGHTING FIXTURE TYPES AND CEILING COMPATIBILITY PRIOR TO ORDERING FIXTURES.
- EMERGENCY LED FIXTURES WHICH UTILIZE INVERTERS SHALL PROVIDE MINIMUM LIGHT OUTPUT AT 650-700 LUMENS UPON LOSS OF LIGHTING CIRCUIT POWER.
- THE FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.
- AIRCRAFT CABLE MOUNTED FIXTURES SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE SEISMIC ZONE D REQUIREMENTS.
- ONE ENLIGHTENED SENSOR SHALL BE INSTALLED FOR EVERY LIGHTING FIXTURE EXCEPT FOR CONTINUOUS LINEAR FIXTURES WHERE IT WILL BE ONE SENSOR FOR EVERY 8 FEET OF FIXTURE LENGTH.
- ENLIGHTENED GATEWAYS SHALL CONTROL BETWEEN 200 TO 250 ENLIGHTENED SENSORS. THE SENSORS SHALL BE PROGRAMMED TO BE CONNECTED TO THE NEAREST GATEWAY. THE TOTAL NUMBER OF ENLIGHTENED SENSORS SHOULD BE DIVIDED EQUALLY AMONGST THE ENLIGHTENED GATEWAYS.
- ENLIGHTENED WIRELESS SWITCHES SHALL CONTROL LIGHTING FIXTURES WITHIN THE VICINITY OF THE WIRELESS SWITCH. FOR OPEN OFFICE AREAS, THE ENLIGHTENED WIRELESS SWITCHES SHALL CONTROL ALL LIGHTING THAT NEEDS CONTROL FROM MULTIPLE LOCATIONS.
- LUMINAIRE DESIGNATED AS EMERGENCY LIGHT SHALL BE CONNECTED TO ROOM CONTROL UNIT TO COMPLY WITH CEC 130.1(c) SHUT-OFF CONTROLS. LUMINAIRE ALSO CONNECTED TO INVERTER/BATTERY BACKUP TO AUTOMATICALLY BYPASS SHUT-OFF CONTROLS IN ORDER TO POWER-ON FIXTURE, FOR MINIMUM OF 90 MINUTES, AS REQUIRED UPON LOSS OF NORMAL POWER.
- EXIT SIGNS HAVE BATTERY BACKUP AND SHALL REMAIN ON 100% OF THE TIME. EXIT SIGNS SHALL NOT BE SUBJECT TO SHUT-OFF CONTROLS.
- FLUORESCENT AND LED FIXTURES SHALL BE PROVIDED WITH A DISCONNECTING MEANS PER ARTICLE 410.74(G) OF THE 2016 NEC.
- REQUIRED EXITS SHALL BE MARKED WITH AN APPROVED EXIT SIGN THAT IS READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. ACCESS TO EXITS SHALL ALSO BE MARKED BY SIGNS WHERE THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS, PER CBC 101.1.
- IN CORRIDORS NO POINT SHALL BE GREATER THAN 100FT OR THE LISTED VIEWING DISTANCE FROM THE EXIT SIGNS, WHICHEVER IS LESS, PER CBC 101.1.
- EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED PER CBC 101.2.
- INTERNALLY ILLUMINATED EXIT SIGNS (ELECTRICALLY POWERED, SELF-LUMINESCENT AND PHOTO LUMINESCENT) SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 924 AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CBC CHAPTER 27. THESE SIGNS MUST BE ILLUMINATED AT ALL TIMES, CBC 101.3.
- FACE OF EXTERNALLY ILLUMINATED EXIT SIGN SHALL HAVE AN INTENSITY OF NOT LESS THAN 5FC, CBC 101.3.
- EXTERNALLY ILLUMINATED EXIT SIGNS SHALL BE NORMALLY ILLUMINATED AT ALL TIMES AND PROVIDED WITH EMERGENCY POWER FROM STORAGE BATTERIES OR UNIT EQUIPMENT TO ENSURE CONTINUED ILLUMINATE FOR AT LEAST 90 MINUTES IN CASE OF A PRIMARY POWER LOSS, CBC 101.3.6.

### ABBREVIATIONS

A	AMPERES	GND	GROUND
A.C.	ABOVE COUNTER	GRC	GALVANIZED RIGID CONDUIT
A.F.F.	ABOVE FINISHED FLOOR	HP	HORSEPOWER
A.F.G.	ABOVE FINISHED GRADE	JB	JUNCTION BOX
BF	BASE FEED	KV	KILOVOLTS
BRD	BOARD	KVA	KILOVOLT-AMPERES
C	CONDUIT	LV	LOW VOLTAGE
CKT	CIRCUIT	LTG	LIGHTING
CAB	CABINET	MCB	MAIN CIRCUIT BREAKER
CATV	CABLE TELEVISION	MLO	MAIN LUG ONLY
CB	CIRCUIT BREAKER	MTD	MONTEDED
CC	CENTER TO CENTER	N	NEW
G.O.	CONDUT ONLY (EMPTY CONDUIT) WITH FULL WIRE	N.L.	NIGHT LIGHT
CU	COPPER CONDUCTOR OR BUS	N.T.S.	NOT TO SCALE
E.F.	EXHAUST FAN	Ø	PHASE
EMT	ELECTRIC METALLIC TUBING	P	POLE
E.W.C.	ELECTRIC WATER COOLER	PBV	PULL BOX
EM	EMERGENCY	PNL	PANEL
E. (E)	EXISTING	(R)	RELOCATE(D)
E.O.L.	END OF LINE	RECPT	RECEPCT RECEPTACLE
EPO	EMERGENCY POWER-OFF	RM	ROOM
F	FUSE	SW	SWITCH
FS	FLOW SWITCH	TEL	TELEPHONE
FA	FIRE ALARM	TYP	TYPICAL
FACP	FIRE ALARM CONTROL PANEL	UG	UNDERGROUND
FBO	FURNISHED BY OWNER	U.O.N.	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPS	V	VOLT/VOLTAGE
G	GREEN GROUND WIRE	WP	WEATHERPROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		

### UPS STATIONARY STORAGE BATTERY SYSTEMS

- [1] 16KW UPS SYSTEM - IDF RM #2012  
TOTAL KWH OF BATTERY INVERTER - 16KWH
- TOTAL AMOUNT OF BATTERIES IN SYSTEM/ROOM IS LESS THAN 70KWH WHICH IS EXEMPTED FROM THE REQUIREMENTS OF CFC 608 STATIONARY BATTERY SYSTEMS.

### LIGHTING INVERTER STATIONARY STORAGE BATTERY SYSTEMS

- [1] 12.5KW LIGHTING INVERTER - ELECTRICAL ROOM #2069  
TOTAL KWH OF BATTERY INVERTER - 12KWH
- TOTAL AMOUNT OF BATTERIES IN SYSTEM/ROOM IS LESS THAN 70KWH, WHICH IS EXEMPTED FROM THE REQUIREMENTS OF CFC 608 STATIONARY BATTERY SYSTEMS.

### APPLICABLE CODES

2016 CALIFORNIA BUILDING CODE, 2016 CALIFORNIA MECHANICAL CODE, 2016 CALIFORNIA PLUMBING CODE, 2016 CALIFORNIA ELECTRICAL CODE, 2016 CALIFORNIA GREEN BUILDING CODE INCLUDING THE 2016 T-24 ENERGY STANDARDS

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E2.1CT	CABLE TRAY FLOOR PLAN - LEVEL 1
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E2.2B	POWER FLOOR PLAN - LEVEL 2 SOUTH
E2.2CT	CABLE TRAY FLOOR PLAN - LEVEL 2
E2.3	POWER PLAN - ROOF
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Sheet Name

ELECTRICAL COVER SHEET

Sheet Number

E0.1

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# LIGHT FIXTURE SCHEDULE

SYMBOL	DESCRIPTION
	SUSPENDED LED DECORATIVE FIXTURE TBD BY ARCHITECT CIRCULATION
	SUSPENDED LED DECORATIVE FIXTURE WITH SHATTERPROOF LENS TBD BY ARCHITECT 2ND FLR MK
	SUSPENDED LED DECORATIVE FIXTURE TBD BY ARCHITECT, CAFE Fixture shall have shatterproof lens in food prep areas. DIMMABLE, INPUT WATTS: 9W
	SUSPENDED LED DECORATIVE FIXTURE TBD BY ARCHITECT, CAFE Fixture shall have shatterproof lens in food prep areas.
	SUSPENDED LED DECORATIVE FIXTURE WITH SHATTERPROOF LENS TBD BY ARCHITECT 1ST FLOOR MK
	SUSPENDED LED 10" DECORATIVE FIXTURE WITH SHATTERPROOF LENS NICHE MODERN PEN-TRV DIMMABLE, INPUT WATTS: 9W
	SUSPENDED LED 5" DECORATIVE FIXTURE WITH SHATTERPROOF LENS HENNEPIN MADE PCL-(FINISH) DIMMABLE, INPUT WATTS: 9W
	SUSPENDED LED 5" DECORATIVE FIXTURE WITH SHATTERPROOF LENS TBD
<u>F1</u>	SUSPENDED 2" WIDE X 12" TALL LED LINEAR FIXTURE WITH INDIRECT DISTRIBUTION AND ACOUSTIC ABSORBANT CLADDING LOCATION: OPEN OFFICE FOCAL POINT ASMIS-BW-12"-500LF-35 K-IC-UNV-LDI-JXX(FINISH)-BKCD-(PANEL COLOR)-(LENGTH PER DRAWINGS) (PER FOOT) - 4.8-WATT WHITE LED (500 LUMENS, 470,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS: 4.8W/FT
<u>F1A</u>	SUSPENDED 2" WIDE X 12" TALL LED LINEAR FIXTURE WITH DIRECT/INDIRECT DISTRIBUTION AND ACOUSTIC ABSORBANT CLADDING LOCATION: OPEN OFFICE FOCAL POINT ASMIBS-BWRL-12"-250D N-500UP-35K-IC-UNV-LD I-JXX(FINISH)-BKCD-(PANE L COLOR)-(LENGTH PER DRAWINGS) (PER FOOT) - 7.2-WATT WHITE LED (750 LUMENS, 470,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS: 7.2W/FT
<u>F1B</u>	SUSPENDED 2" WIDE X 12" TALL LED LINEAR FIXTURE WITH DIRECT DISTRIBUTION AND ACOUSTIC ABSORBANT CLADDING LOCATION: OPEN OFFICE FOCAL POINT ASMIS-RL-12"-250LF-35K -IC-UNV-LDI-JXX(FINISH)-BKCD-(PANEL COLOR)-(LENGTH PER DRAWINGS) (PER FOOT) - 2.5-WATT WHITE LED (250 LUMENS, 470,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS: 2.5W/FT
<u>F1C</u>	SUSPENDED 2" WIDE X 12" TALL ACOUSTIC BAFFLE LOCATION: OPEN OFFICE FOCAL POINT AUSMIS-NS-12"-JXX(FINIS H)-(PANEL COLOR)-(LENGTH PER DRAWINGS)  Fixture provided for acoustical purposes only.
<u>F2</u>	SUSPENDED 6" DIAMETER ROUND LED PENDANT DOWNLIGHT LOCATION: CIRCULATION USA LBRP6-9016-C3-10-10-35KS-50-SOC-(AIRCRAFT CABLE)-(VOLTAGE)-DIML6E (I) - 16-WATT WHITE LED (1,375 LUMENS, 50,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI, 50 DEG BEAM) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:16W
<u>F2A</u>	SUSPENDED 6" DIAMETER ROUND LED PENDANT DOWNLIGHT LOCATION: MK'S, CORE USA LBRP6-9024-C3-10-10-27KH-50-SOC-(AIRCRAFT CABLE)-(VOLTAGE)-DIML6E (I) - 24-WATT WHITE LED (1,170 LUMENS, 50,000 @ L70 HRS RATED LIFE, 2700K, 90 CRI, 50 DEG BEAM) (INTEGRAL LED) Fixture shall have shatterproof lens in food prep areas. 0-10V DIMMABLE DRIVER, INPUT WATTS:24W
<u>F2B</u>	SUSPENDED 6" DIAMETER ROUND LED PENDANT DOWNLIGHT LOCATION: CAFE USA LBRP6-9033-C3-10-10-27KH-50-SOC-(AIRCRAFT CABLE)-(VOLTAGE)-DIML6E (I) - 33-WATT WHITE LED (1,476 LUMENS, 50,000 @ L70 HRS RATED LIFE, 2700K, 90 CRI, 50 DEG BEAM) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:33W
<u>F2C</u>	SUSPENDED 6" DIAMETER ROUND LED PENDANT DOWNLIGHT LOCATION: MAIN LOBBY USA LBRP6-9024-C3-10-10-27KS-50-SOC-(AIRCRAFT CABLE)-(VOLTAGE)-DIML6E (I) - 24-WATT WHITE LED (1,625 LUMENS, 50,000 @ L70 HRS RATED LIFE, 2700K, 80 CRI, 50 DEG BEAM) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:24W
<u>F2D</u>	SUSPENDED 6" DIAMETER ROUND LED PENDANT DOWNLIGHT LOCATION: STAIRS USA LBRP6-9036-E1-10-D2-10-10-35KS-50-SOC-(AIRCRAFT CABLE)-(VOLTAGE)-DIML6E (I) - 36-WATT WHITE LED (1,625 LUMENS, 50,000 @ L70 HRS RATED LIFE, 2700K, 80 CRI, 50 DEG BEAM) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:36W
<u>F3</u>	RECESSED 3" APERTURE ROUND LED DOWNLIGHT LOCATION: CIRCULATION, RESTROOMS, SHOWERS USA B3RCF-15X1-35KS-50-S-A C-WH-(HOUSING)-UNV-D6E (I) - 15-WATT WHITE LED (1,075 LUMENS, 50,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI, 50 DEG BEAM) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:15W
<u>F3A</u>	RECESSED 3" APERTURE ROUND LED DOWNLIGHT WITH SHATTERPROOF LENS LOCATION: CAFE, FLOOR 1 MK USA B3RCF-20X3-27KH-50-S-A C-WH-(HOUSING)-UNV-D6E (I) - 20-WATT WHITE LED (1,344 LUMENS, 50,000 @ L70 HRS RATED LIFE, 2700K, 90 CRI, 50 DEG BEAM) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:20W
<u>F4</u>	RECESSED 2.5" APERTURE ROUND LED DOWNLIGHT LOCATION: CIRCULATION, OPEN OFFICE USA LNIORD-T-BM-MTG2-20-3 5KS-50-10 + LNC (CEILING THICKNESS)-(VOLTAGE)-DIML 6F (I) - 20-WATT WHITE LED (1,150 LUMENS, 50,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI, 50 DEG BEAM) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:20W
<u>F4A</u>	RECESSED 2.5" APERTURE ROUND LED DOWNLIGHT LOCATION: MEDITATION, MASSAGE ROOM, MOTHER'S ROOM USA LNIORD-T-BM-MTG2-20-2 7KS-50-10 + LNC (CEILING THICKNESS)-(VOLTAGE)-DIML 6B (I) - 20-WATT WHITE LED (1,000 LUMENS, 50,000 @ L70 HRS RATED LIFE, 2700K, 80 CRI, 50 DEG BEAM) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:20W
<u>F5</u>	RECESSED 1" WIDE LED CONTINUOUS LINEAR DOWNLIGHT LOCATION: GENDER NEUTRAL RESTROOM LUMENWERX MIKR-HLO-LED-80-350-35 -(LENGTH PER DRAWINGS)-UNV-MIKDR-I-DMF-(FINISH) (PER FOOT) - 3.6-WATT WHITE LED (350 LUMENS, 60,000 @ L80 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:3.6W/FT
<u>F5A</u>	RECESSED 1" WIDE LED CONTINUOUS LINEAR DOWNLIGHT WITH SHATTERPROOF LENS LOCATION: FLOOR 2 MK LUMENWERX MIKR-HLO-LED-90-350-27 -(LENGTH PER DRAWINGS)-UNV-MIKDR-I-DTL-(FINISH) (PER FOOT) - 3.6-WATT WHITE LED (350 LUMENS, 60,000 @ L80 HRS RATED LIFE, 2700K, 90 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:3.6W/FT
	RECESSED 2' X 2' SQUARE LED DOWNLIGHT LOCATION: CONFERENCE ROOMS FOCAL POINT FCT-22-FL-3000L-35K-IC-UNV-LII-(MOUNTING)-WH (I) - 26-WATT WHITE LED (3,000 LUMENS, 115,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:26W
	WALL-MOUNTED 2.5" SQUARE LED CONTINUOUS LINEAR FIXTURE WITH TWO SIDED LENS AND ILLUMINATED CORNERS LOCATION: PHONE ROOMS LUMENWERX CUBWB-HLO-LED-80-450-35-(LENGTH PER DRAWINGS)-UNV-MIKDR-I-DRM-(FINISH) (PER FOOT) - 3.25-WATT WHITE LED (450 LUMENS, 60,000 @ L80 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:3.25W/FT
<u>F10</u>	RECESSED 4" WIDE LED CONTINUOUS LINEAR WALL SLOT LOCATION: RESTROOMS, OPEN OFFICE FINELITE HP-W5-4W-4D-(LENGTH PER DRAWINGS)-S-835-(VOLTAGE)-SC-(MOUNTING)-SW-(END CONDITIONS)-SF (PER FOOT) - 3.6-WATT WHITE LED (317 LUMENS, 200,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:3.6W/FT
<u>F10A</u>	RECESSED 4" WIDE LED CONTINUOUS LINEAR WALL SLOT LOCATION: CAFE, MASSAGE WAITING FINELITE HP-W5-4W-4D-(LENGTH PER DRAWINGS)-S-927-(VOLTAGE)-SC-(MOUNTING)-SW-(END CONDITIONS)-SF (PER FOOT) - 3.6-WATT WHITE LED (317 LUMENS, 200,000 @ L70 HRS RATED LIFE, 2700K, 90 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:3.6W/FT
<u>F10B</u>	RECESSED 4" WIDE LED CONTINUOUS LINEAR WALL SLOT LOCATION: MASSAGE ROOM, MEDITATION FINELITE HP-W5-4W-4D-(LENGTH PER DRAWINGS)-S-827-(VOLTAGE)-SC-(MOUNTING)-SW-(END CONDITIONS)-(CEILING TYPE)-DIMMING TO 0.1% (PER FOOT) - 3.6-WATT WHITE LED (317 LUMENS, 200,000 @ L70 HRS RATED LIFE, 2700K, 80 CRI) (INTEGRAL LED) 0-10V DIMMABLE DRIVER, INPUT WATTS:3.6W

# LIGHT FIXTURE SCHEDULE

SYMBOL	DESCRIPTION
F10C	RECESSED 4" WIDE LED CONTINUOUS LINEAR WALL SLOT LOCATION: 1ST AND 2ND FLOOR LARGE CONFERENCE ROOMS, 2ND FLOOR VISITOR CONF ROOMS FINELITE HP-WS-4W-4D-(LENGTH PER DRAWINGS)-S-835-(VOLTAGE)-SC-(MOUNTING)-SW-(END CONDITIONS)-(CEILING TYPE)-DIMMING TO 1% (PER FOOT) - 3.6-WATT WHITE LED (317 LUMENS, 200,000 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:3.6W SUPPLY VOLTAGE: 277V
F10D	RECESSED 4" WIDE LED CONTINUOUS LINEAR WALL SLOT WITH SHATTERPROOF LENS LOCATION: MK'S FINELITE HP-WS-4W-4D-(LENGTH PER DRAWINGS)-S-927-(VOLTAGE)-SC-(MOUNTING)-SW-(END CONDITIONS)-(CEILING TYPE) (PER FOOT) - 3.6-WATT WHITE LED (317 LUMENS, 200,000 @ L70 HRS RATED LIFE, 2700K, 90 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:3.6W SUPPLY VOLTAGE: 277V
F10E	RECESSED 4" WIDE LED CONTINUOUS LINEAR WALL SLOT LOCATION: OPEN OFFICE FINELITE HP-WS-4W-4D-(LENGTH PER DRAWINGS)-S-835-(VOLTAGE)-SC-(MOUNTING)-SW-(END CONDITIONS)-(CEILING TYPE) (PER FOOT) - 3.6-WATT WHITE LED (317 LUMENS, 200,000 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:3.6W SUPPLY VOLTAGE: 277V
F11	SUSPENDED 2" WIDE LED LINEAR DOWNLIGHT LOCATION: MAIN LOBBY PRUDENTIAL BOLT-LED27-M0-(LENGTH PER DRAWINGS)-SAL(FINISH)-UN V-CA96"-X3-DM01 (PER FOOT) - 5.6-WATT WHITE LED (640 LUMENS, 150,000 @ L70 HRS RATED LIFE, 2700K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:5.6W SUPPLY VOLTAGE: 277V
F12	RECESSED 3" APERTURE ROUND LED WALLWASHER WITH SHATTERPROOF LENS LOCATION: CAFE USAI B3RWF-20X3-27KH-W2-D I-AC-WH-(HOUSING)-UNV-D6E (1) - 20-WATT WHITE LED (1,075 LUMENS, 50,000 HRS RATED LIFE, 2700K, 90 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:20W SUPPLY VOLTAGE: 277V
▼F14	MONOPPOINT-MOUNTED 5" DIAMETER LED ADJUSTABLE ACCENT WITH FLOOD OPTICS LOCATION: CENTRAL SKYLIGHT ERCO 77109.055-2700 + 79039.023 + 78037.000 (1) - 24-WATT WHITE LED (2,119 LUMENS, 100,000 @ L90 HRS RATED LIFE, 2700K, 92 CRI, 30 DEG BEAM) (INTEGRAL LED) DIMMABLE, INPUT WATTS:31W SUPPLY VOLTAGE: 120V
▼F14A	MONOPPOINT-MOUNTED 5" DIAMETER LED ADJUSTABLE ACCENT WITH WIDE FLOOD OPTICS LOCATION: SOUTH SKYLIGHT ERCO 77114.055-3500 + 79039.023 (1) - 24-WATT WHITE LED (2,723 LUMENS, 100,000 @ L90 HRS RATED LIFE, 3500K, 92 CRI, 50 DEG BEAM) (INTEGRAL LED) DIMMABLE, INPUT WATTS:31W SUPPLY VOLTAGE: 120V
F15	WALL-MOUNTED ILLUMINATED MIRROR LOCATION: RESTROOMS ELECTRIC MIRROR FUS2-(DIMENSIONS)-L7C5-35K (1) - 38-WATT WHITE LED (3,600 LUMENS, 124,000 @ L70 HRS RATED LIFE, 3500K, 90 CRI) (INTEGRAL LED) DIMMABLE, INPUT WATTS:38W SUPPLY VOLTAGE: 120V
F16	RECESSED 2" WIDE LED CONTINUOUS LINEAR DOWNLIGHT LOCATION: COPY/PRINT ROOM, POD FINELITE HP-2 R-(LENGTH PER DRAWINGS)-B-835-F-(VOLTAG E)-SC-(CEILING TYPE) (PER FOOT) - 4.6-WATT WHITE LED (423 LUMENS, 200,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:4.6W SUPPLY VOLTAGE: 277V
F17	WALL-MOUNTED 2" WIDE LED LINEAR DIRECT/INDIRECT FIXTURE LOCATION: MOTHER'S ROOM FINELITE HP-2 WM ID-(LENGTH PER DRAWINGS)-S-S-827-ASY-R-F-(VOLTAGE)-MB-FE-SC (PER FOOT) - 7.2-WATT WHITE LED (166 LUMENS, 200,000 @ L70 HRS RATED LIFE, 2700K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:7.2W SUPPLY VOLTAGE: 277V
F19	RECESSED 2' X 2' SQUARE LED DOWNLIGHT WITH DROP LENS LOCATION: 1ST AND 2ND FLOOR LARGE CONFERENCE RMS, 2ND FLOOR VISITOR CONFERENCE RMS FOCAL POINT FNVL-22-(SHIELDING DEPTH)-2500L-35K-IC-UNV -1% DIMMING-(MOUNTING)-WH (1) - 30-WATT WHITE LED (2,500 LUMENS, 128,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:30W SUPPLY VOLTAGE: 277V
F20	RECESSED 2' X 2' SQUARE LED TROFFER LOCATION: CAFE OFFICE FINELITE HPR LED-A-2X2-DCO-S-835-(VO LTAGE)-SC-(CEILING TYPE) (1) - 28.5-WATT WHITE LED (3,397 LUMENS, 200,000 @ L70 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:28.5W SUPPLY VOLTAGE: 277V
F21	RECESSED 2' X 2' SQUARE LED TROFFER WITH SHATTERPROOF LENS LOCATION: CAFE BOH LITHONIA 2TL2-40L-FW-SWL-GZ10-LP835 (1) - 35-WATT WHITE LED (3,892 LUMENS, 60,000 @ L90 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:35W SUPPLY VOLTAGE: 277V
F21A	RECESSED 2' X 2' SQUARE LED TROFFER LOCATION: STORAGE LITHONIA 2TL2-20L-FW-A12-GZ10-L P835 (1) - 18-WATT WHITE LED (2,078 LUMENS, 60,000 @ L90 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:18W SUPPLY VOLTAGE: 277V
F21B	RECESSED 2' X 2' SQUARE LED TROFFER LOCATION: JANITOR'S CLOSET LITHONIA 2TL2-20L-FW-A12-GZ10-L P835-DGA22 (1) - 18-WATT WHITE LED (2,078 LUMENS, 60,000 @ L90 HRS RATED LIFE, 3500K, 80 CRI) (INTEGRAL LED) O-IOV DIMMABLE DRIVER, INPUT WATTS:18W SUPPLY VOLTAGE: 277V
F22	SUSPENDED 2" WIDE LED LINEAR DOWNLIGHT LOCATION: ELECTRICAL + IDF ROOMS LITHONIA CLX-L48-4000LM-HEF-RD-L-WD-(VOLTAGE)-GZ10-35K-80CRI-(OPTIONS)-WH O-IOV DIMMABLE DRIVER, INPUT WATTS:25W SUPPLY VOLTAGE: 277V
F23	SUSPENDED 1" WIDE LIGHTING TRACK LOCATION: COMMUNICATING STAIR ERCO 78341.023 (LENGTH PER DRAWINGS) + MOUNTING ACCESSORIES + JOINERS + POWER FEEDS SUPPLY VOLTAGE: 120V
F23A	TRACK-MOUNTED 4" DIAMETER LED ADJUSTABLE ACCENT WITH ZOOM OPTICS LOCATION: COMMUNICATING STAIR ERCO 27152.055-2100 (1) - 12-WATT WHITE LED (828 LUMENS, 100,000 @ L90 HRS RATED LIFE, 2700K, 92 CRI, 16-65 DEG BEAM) (INTEGRAL LED) DIMMABLE, INPUT WATTS:15W SUPPLY VOLTAGE: 120V
F25	PENDANT MOUNT DIRECT/INDIRECT CONTINUOUS LINEAR SCULPT LIGHTING SCDI-300-300-80-35-BW-FL-S#-X-2777-X-X O-IOV DIMMABLE DRIVER, INPUT WATTS: 5.8W/FT SUPPLY VOLTAGE: 277V
F26	CABLE SUSPENDED LINEAR PENDANT LITHIUM HELIUM I HEI-CSIW-CR-CR-35K-HO-277V-X-X-X-X-X-PSS O-IOV DIMMABLE DRIVER, INPUT WATTS: 10W/FT SUPPLY VOLTAGE: 277V
F26A	CABLE SUSPENDED LINEAR PENDANT LITHIUM HELIUM I HEI-CSIW-CR-CR-35K-SO-277V-X-X-X-X-X-PSS O-IOV DIMMABLE DRIVER, INPUT WATTS: 8W/FT SUPPLY VOLTAGE: 277V
F27	RECESSED 2" APERTURE ROUND LED ADJUSTABLE DOWNLIGHT USAI LNIORA-TOBMOMTG2-14-35KS-25-(TRIM FINISH)-(HOUSING)-(VOLTAGE) DIML6F-(ACCESSORIES)-(OPTICAL ACCESSORIES) SOFD O-IOV DIMMABLE DRIVER, INPUT WATTS: 14W SUPPLY VOLTAGE: 277V
F28	WALL MOUNTED 2" LED LINEAR FIXTURE FINELITE HP-2 WM-D-(LENGTH PER DNGS)-H-835-F-(VOLTAGE)-MB-FE-SC O-IOV DIMMABLE DRIVER INPUT WATTS: 7.1W/FT SUPPLY VOLTAGE: 277V

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**Project Number**

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18070.00

## **Architect**

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## **Project Team**      **Architect's Stamp**

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WILLIAM TURNER

DANA STIERNBERG

Consultar

Consultant Project Number

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## **Issuances**

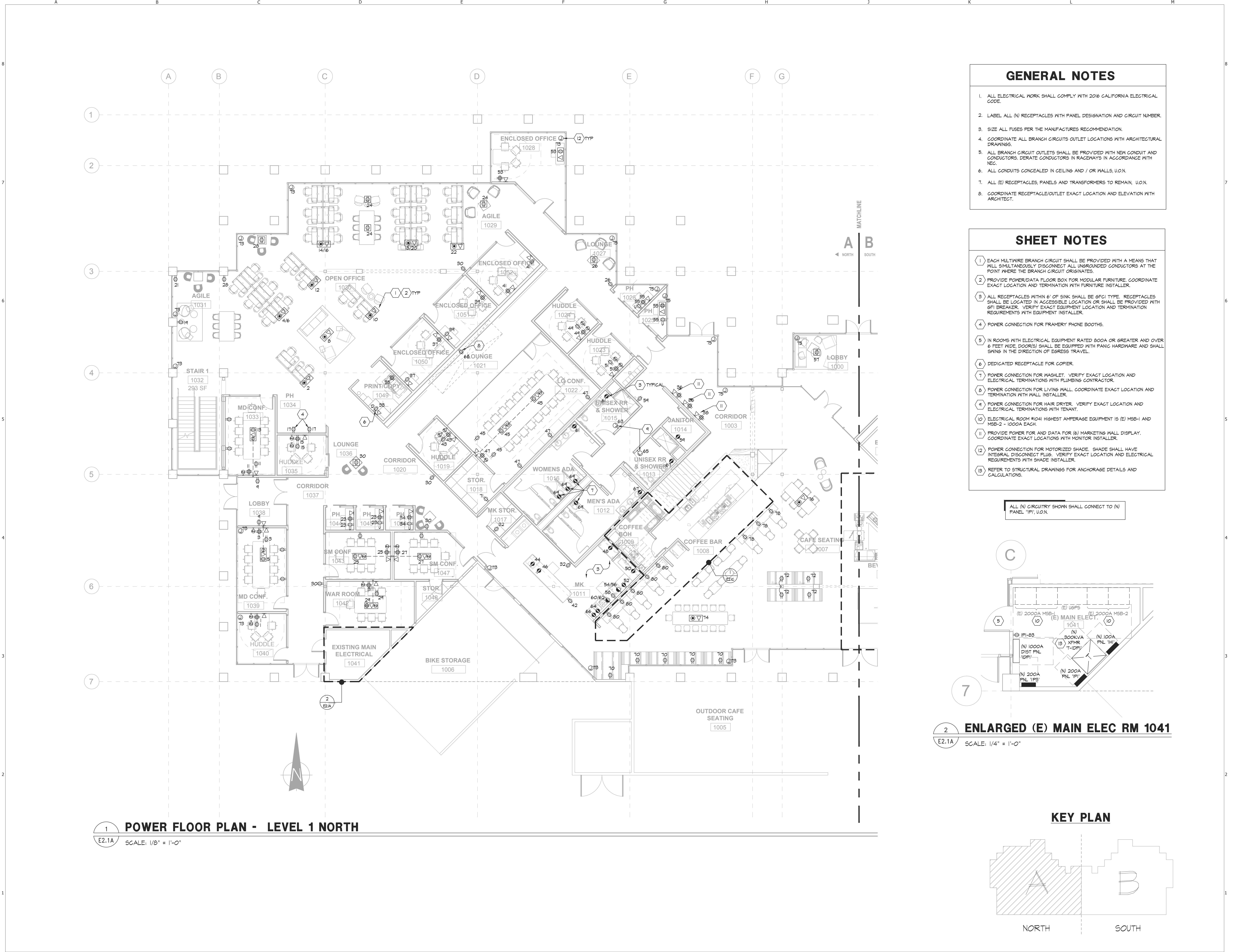
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**Sheet Name:**

# LIGHT FIXTURE SCHEDULE

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Issuances  
No. | Revision Description | Date  
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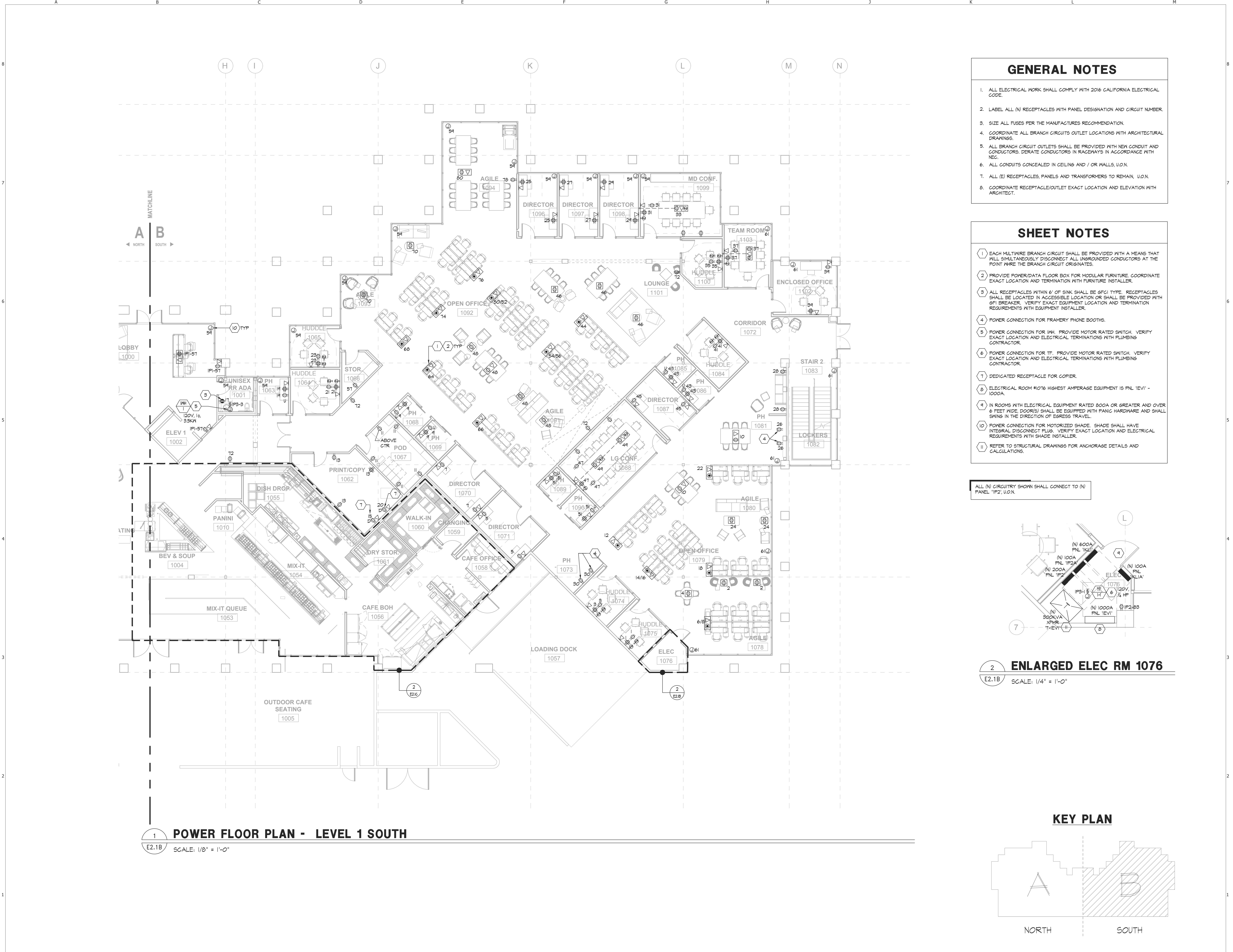
Preliminary Documents

Sheet Name: POWER FLOOR PLAN - LEVEL 1 NORTH

Sheet Number

**E2.1A**

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<b>Issuances</b>		
<b>No.</b>	<b>Revision Description</b>	<b>Date</b>
	ISSUE FOR PERMIT	6/10/2011

The logo consists of a central lowercase 'e' with a diagonal line through it, enclosed within a thick, curved arrow that forms a circle. The arrow is composed of two segments: a top segment in light gray and a bottom segment in dark gray, both with white outlines.

**elcor**<sup>TM</sup>  
**ELECTRIC**

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## Preliminary Documents

# **POWER FLOOR PLAN**

## **FVFI 1 SOUTH**

Sheet Number

# E2.1B



GENERAL NOTES						
1. ALL ELECTRICAL WORK SHALL COMPLY WITH 2016 CALIFORNIA ELECTRICAL CODE.						
2. LABEL ALL (N) RECEPTACLES WITH PANEL DESIGNATION AND CIRCUIT NUMBER.						
3. SIZE ALL FUSES PER THE MANUFACTURE'S RECOMMENDATION.						
4. COORDINATE ALL BRANCH CIRCUITS OUTLET LOCATIONS WITH ARCHITECTURAL DRAWINGS.						
5. ALL BRANCH CIRCUIT OUTLETS SHALL BE PROVIDED WITH NEW CONDUIT AND CONDUCTORS. DERATE CONDUCTORS IN RACEWAYS IN ACCORDANCE WITH NEC.						
6. ALL CONDUITS CONCEALED IN CEILING AND / OR WALLS, U.O.N.						
7. ALL (E) RECEPTACLES, PANELS AND TRANSFORMERS TO REMAIN, U.O.N.						
8. COORDINATE RECEPTACLE/OUTLET EXACT LOCATION AND ELEVATION WITH ARCHITECT.						

SHEET NOTES						
① POWER CONNECTION FOR WALK-IN COOLER EVAPORATOR COILS. VERIFY EXACT TERMINATION LOCATIONS WITH REFRIGERATION CONTRACTOR.						
② RECEPTACLES IN KITCHEN AREAS AND WITHIN 6' OF SINK SHALL BE GFCI. GFCI RECEPTACLE LOCATION SHALL BE ACCESSIBLE OR SHALL UTILIZE GFI CIRCUIT BREAKER.						
③ POWER CONNECTION FOR EXHAUST HOOD FANS. PROVIDE MOTOR RATED SWITCH FOR EXHAUST HOOD FANS. COORDINATE EXACT LOCATION AND TERMINATION WITH KITCHEN EQUIPMENT CONTRACTOR AND MECHANICAL CONTRACTOR.						
④ POWER CONNECTION FOR EXHAUST HOOD LIGHTS. COORDINATE EXACT LOCATION AND TERMINATION WITH KITCHEN EQUIPMENT CONTRACTOR AND MECHANICAL CONTRACTOR.						
⑤ CIRCUIT UNDER THE EXHAUST HOOD AND ASSOCIATED MECHANICAL UNITS SHALL SHUTDOWN UPON ACTIVATION OF CORRESPONDING FIRE SUPPRESSION SYSTEM.						
⑥ SINGLE POINT POWER CONNECTION FOR DISHWASHER MACHINE. COORDINATE EXACT LOCATION AND TERMINATION REQUIREMENTS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN. REFER TO SINGLE LINE DIAGRAM.						
⑦ SINGLE POINT POWER CONNECTION FOR BLENDER DRYER. COORDINATE EXACT LOCATION AND TERMINATION REQUIREMENTS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN. REFER TO SINGLE LINE DIAGRAM.						
⑧ POWER CONNECTION FOR BOOSTER HEATER. COORDINATE EXACT LOCATION AND TERMINATION WITH KITCHEN EQUIPMENT CONTRACTOR AND MECHANICAL CONTRACTOR.						
⑨ POWER CONNECTION FOR SNEEZE GUARD LIGHT. COORDINATE EXACT LOCATION AND TERMINATION WITH KITCHEN EQUIPMENT CONTRACTOR AND MECHANICAL CONTRACTOR.						
⑩ ALL CIRCUITY IN THIS SPACE SHALL CONNECT TO (N) PANEL 'KLI', U.O.N.						
⑪ REMOTE CONDENSING UNIT #R01 IN CEILING PLENUM PSACE ABOVE COOLER. PROVIDE FUSED DISCONNECT SWITCH, SIZE AS NOTED. PROVIDE FUSE PER MANUFACTURER'S NAMEPLATE. VERIFY EXACT EQUIPMENT LOCATION AND TERMINATION REQUIREMENTS WITH FOOD SERVICE CONTRACTOR.						
⑫ SINGLE POINT POWER CONNECTION FOR COOLER UNIT. COORDINATE EXACT LOCATION AND TERMINATION REQUIREMENTS WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO ROUGH-IN. REFER TO SINGLE LINE DIAGRAM.						
⑬ POWER CONNECTION FOR POS BADGE READER. COORDINATE EXACT LOCATION AND TERMINATION WITH CARD READER INSTALLER.						
⑭ PROVIDE ROUGH IN FOR SECURITY BADGE READER. COORDINATE EXACT LOCATION AND TERMINATION WITH SECURITY CONTRACTOR.						
⑮ POWER CONNECTION FOR TIME CLOCK. COORDINATE EXACT LOCATION AND TERMINATION PRIOR TO ROUGH IN.						

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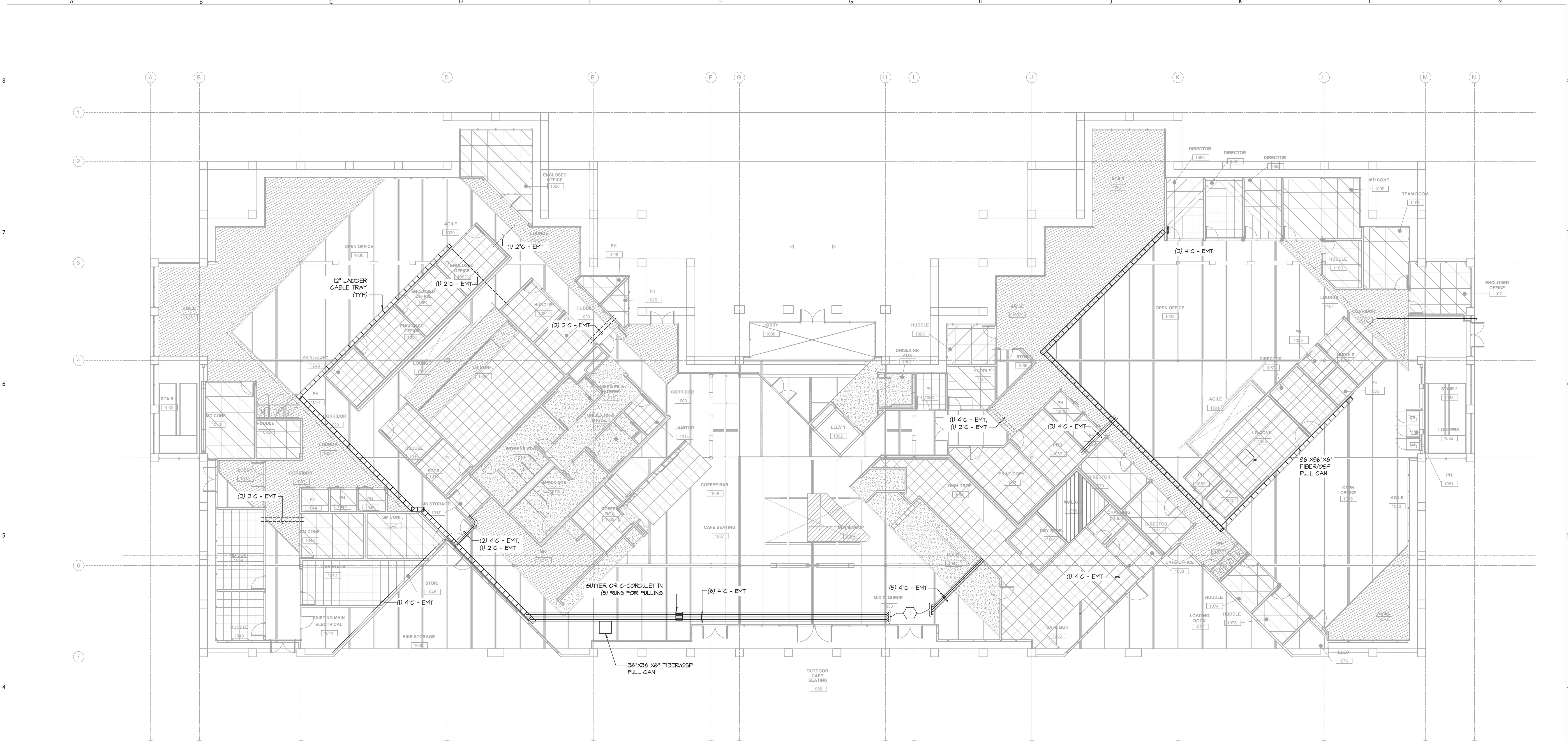
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No. | Revision Description | Date  
ISSUE FOR PERMIT | 6/10/2019

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Preliminary Documents  
Sheet Name  
ENLARGED CAFE POWER PLAN  
Sheet Number  
E2.1C



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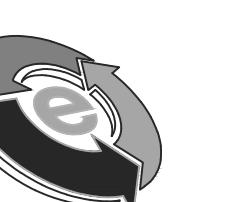
### Project Team Architect's Stamp

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### Consultant

### Consultant Project Number

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### Preliminary Documents

**Sheet Name**  
**CABLE TRAY FLOOR  
PLAN - LEVEL 1**

### Sheet Number

**E2.1CT**

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## 1 CABLE TRAY FLOOR PLAN - LEVEL 1

E2.1CT

SCALE: 3/32" = 1'-0"

SYMBOL LEGEND	
-----	2" CONDUIT - EMT
_____	4" CONDUIT - EMT
██████████	12" LADDER CABLE TRAY
□	36'X36'X6" FIBER/OSP FULL CAN

SHEET NOTES	
(1) PROVIDE (6) 5" CORES TO SECOND FLOOR: - (2) 4" DATA - (1) 4" DAS - (1) 4" SECURITY - (1) 4" OSP - (1) 4" SPARE	

A B C D E F G H I J K L M

8 7 6 5 4 3 2 1

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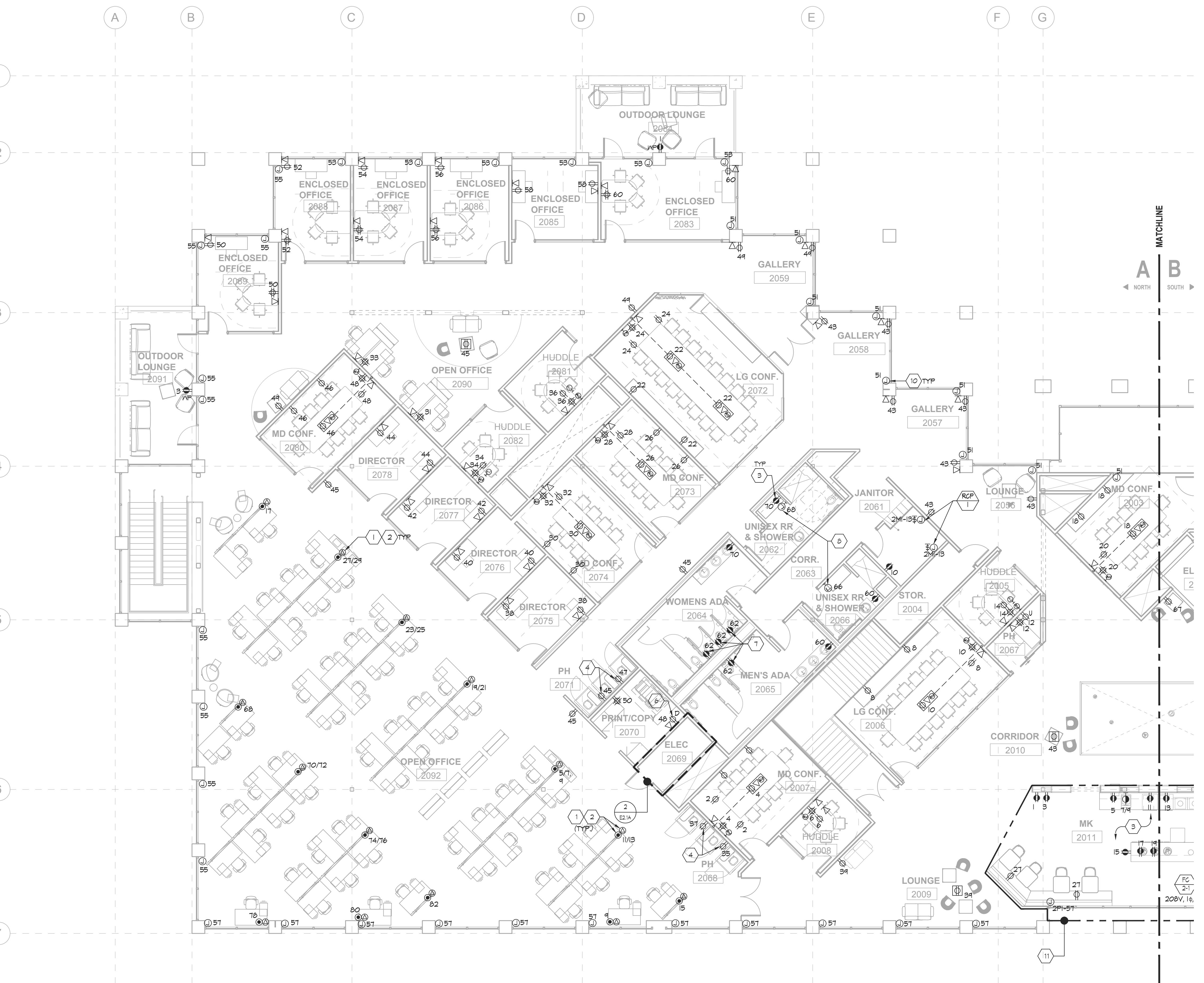
Preliminary Documents

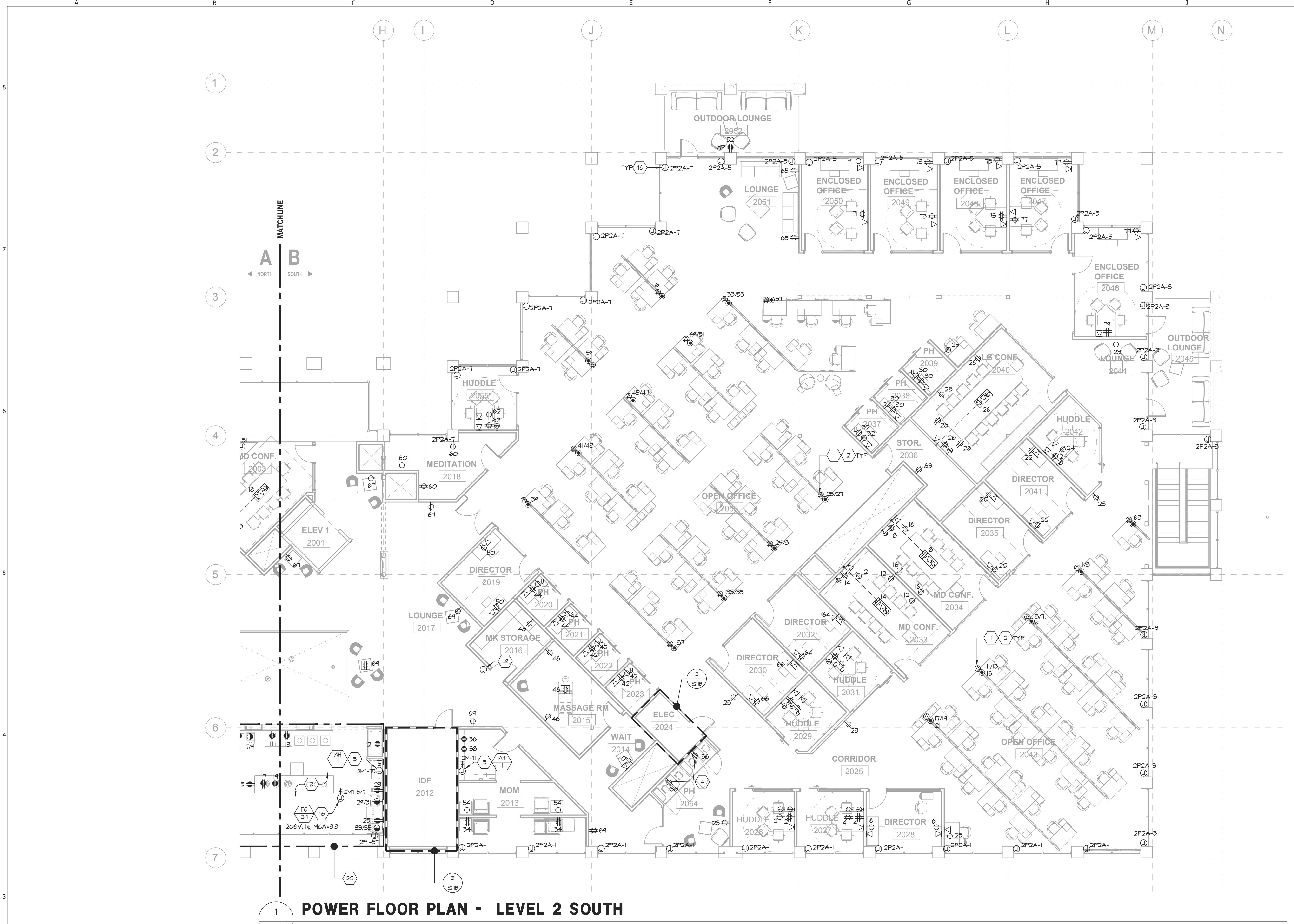
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POWER FLOOR PLAN -  
LEVEL 2 NORTH

Sheet Number

# E2.2A

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# **GENERAL NOTES**

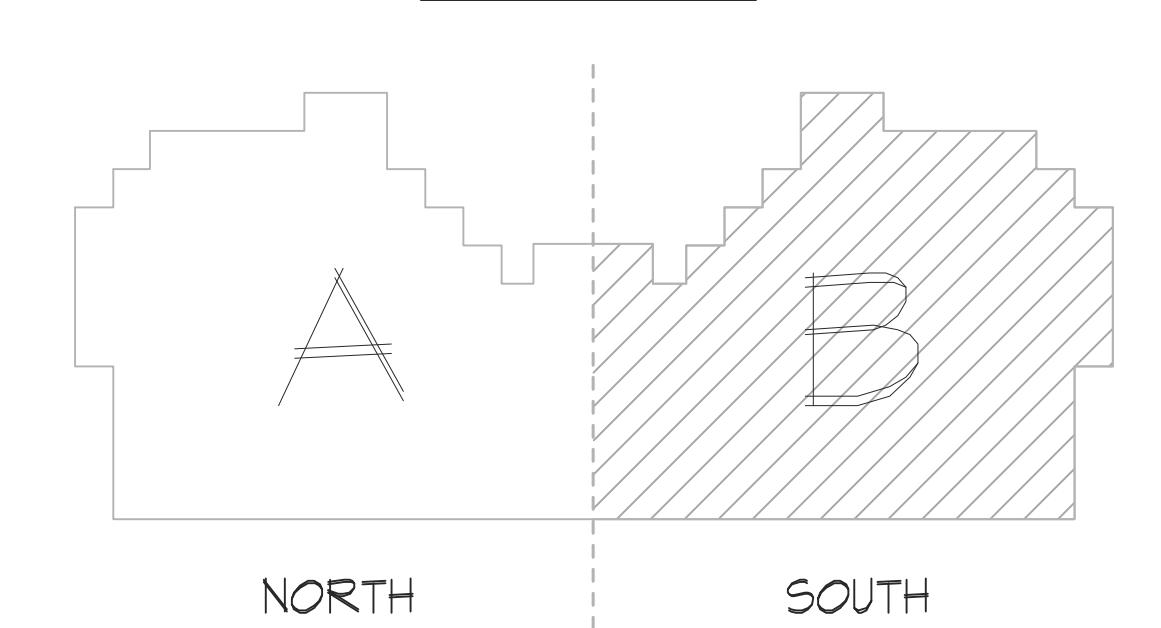
1. ALL ELECTRICAL WORK SHALL COMPLY WITH 2016 CALIFORNIA ELECTRICAL CODE.
  2. LABEL ALL (N) RECEPTACLES WITH PANEL DESIGNATION AND CIRCUIT NUMBER.
  3. SIZE ALL FUSES PER THE MANUFACTURES RECOMMENDATION.
  4. COORDINATE ALL BRANCH CIRCUITS OUTLET LOCATIONS WITH ARCHITECTURAL DRAWINGS.
  5. ALL BRANCH CIRCUIT OUTLETS SHALL BE PROVIDED WITH NEW CONDUIT AND CONDUCTORS. DERATE CONDUCTORS IN RACEWAYS IN ACCORDANCE WITH NEC.
  6. ALL CONDUITS CONCEALED IN CEILING AND / OR WALLS, U.O.N.
  7. ALL (E) RECEPTACLES, PANELS AND TRANSFORMERS TO REMAIN, U.O.N.
  8. COORDINATE RECEPTACLE/OUTLET EXACT LOCATION AND ELEVATION WITH ARCHITECT.

# SHEET NOTES

- ① EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES.
  - ② PROVIDE FLOOR BOX WITH POKE-THRU, DATA FOR MODULAR FURNITURE.
  - ③ ALL RECEPTACLES WITHIN 6' OF SINK SHALL BE GFCI TYPE. RECEPTACLES SHALL BE LOCATED IN ACCESSIBLE LOCATION OR SHALL BE PROVIDED WITH GFI BREAKER. VERIFY EXACT EQUIPMENT LOCATION AND TERMINATION REQUIREMENTS WITH EQUIPMENT INSTALLER.
  - ④ POWER CONNECTION FOR FRAMERY PHONE BOOTHS.
  - ⑤ POWER CONNECTION FOR IWH. PROVIDE MOTOR RATED SWITCH. VERIFY EXACT LOCATION AND ELECTRICAL TERMINATIONS WITH PLUMBING CONTRACTOR.
  - ⑥ PROVIDE GROUND BUS BAR WITH (1) #6 CU TO MAIN BUILDING GROUND BUS BAR, MOUNTED @ +96" AFF.
  - ⑦ PROVIDE NEMA L6-50 RECEPTACLE FOR "MOVE-N-COOL" UNIT.
  - ⑧ WIREMOLD G6000 MOUNTED TO LADDER RACK.
  - ⑨ POWER CONNECTION FOR UPS. PROVIDE 100A, 1Φ NON-FUSED DISCONNECT SWITCH.
  - ⑩ REFER TO SINGLE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL CONDUIT AND CONDUCTOR INFORMATION.
  - ⑪ REFER TO EQUIPMENT SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
  - ⑫ IDF ROOM #2012 HIGHEST AMPERAGE EQUIPMENT ARE PNL'S '2IDF' AND '2UPS' - 100A.
  - ⑬ PROVIDE 2"C. TO ROOF FOR SATELLITE TV.
  - ⑭ IDF ROOMS CONTAIN UPS BATTERIES AND THEREFORE DOOR(S) SHALL BE EQUIPPED WITH PANIC HARDWARE AND SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL.
  - ⑮ POWER CONNECTION FOR TF. PROVIDE MOTOR RATED SWITCH. VERIFY EXACT LOCATION AND ELECTRICAL TERMINATIONS WITH PLUMBING CONTRACTOR.
  - ⑯ POWER CONNECTION FOR FC. PROVIDE 208V MOTOR RATED SWITCH. VERIFY EXACT LOCATION AND ELECTRICAL TERMINATIONS WITH PLUMBING CONTRACTOR.
  - ⑰ ELECTRICAL ROOM #2024 HIGHEST AMPERAGE EQUIPMENT IS DIST. PNL '2DPI' - 600A.
  - ⑱ POWER CONNECTION FOR MOTORIZED SHADE. SHADE SHALL HAVE INTEGRAL DISCONNECT PLUG. VERIFY EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH SHADE INSTALLER.
  - ⑲ PROVIDE ROUGH-IN FOR CIPHER LOCK. COORDINATE EXACT LOCATION WITH SECURITY CONTRACTOR.
  - ⑳ CIRCUITRY IN THIS SPACE SHALL CONNECT TO PANEL '2PIA', U.O.N.
  - ㉑ REFER TO STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS AND CALCULATIONS.

ALL (N) CIRCUITRY SHOWN SHALL CONNECT TO (N)  
PANEL "2P2", U.O.N.

# KEY PLAN



# Google 1098 Alta

## Project Address

---

**Project Number**

---

18070.00

# VALERIO DEWALT TRAIN

**424 Waverley Street  
Palo Alto, California 94301**

Project Team	Architect's Stamp
WILLIAM TURNER	
DANA STIERNBERG	
ANDREW PAUL	
IAN CLIFTIS	

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Consultant Project Number

Issuances		
No.	Revision Description	Date
	ISSUE FOR PERMIT	6/10/2011

Electrical Design Build  
License: C10 500228  
Exp. 08/31/20

## Preliminary Documents

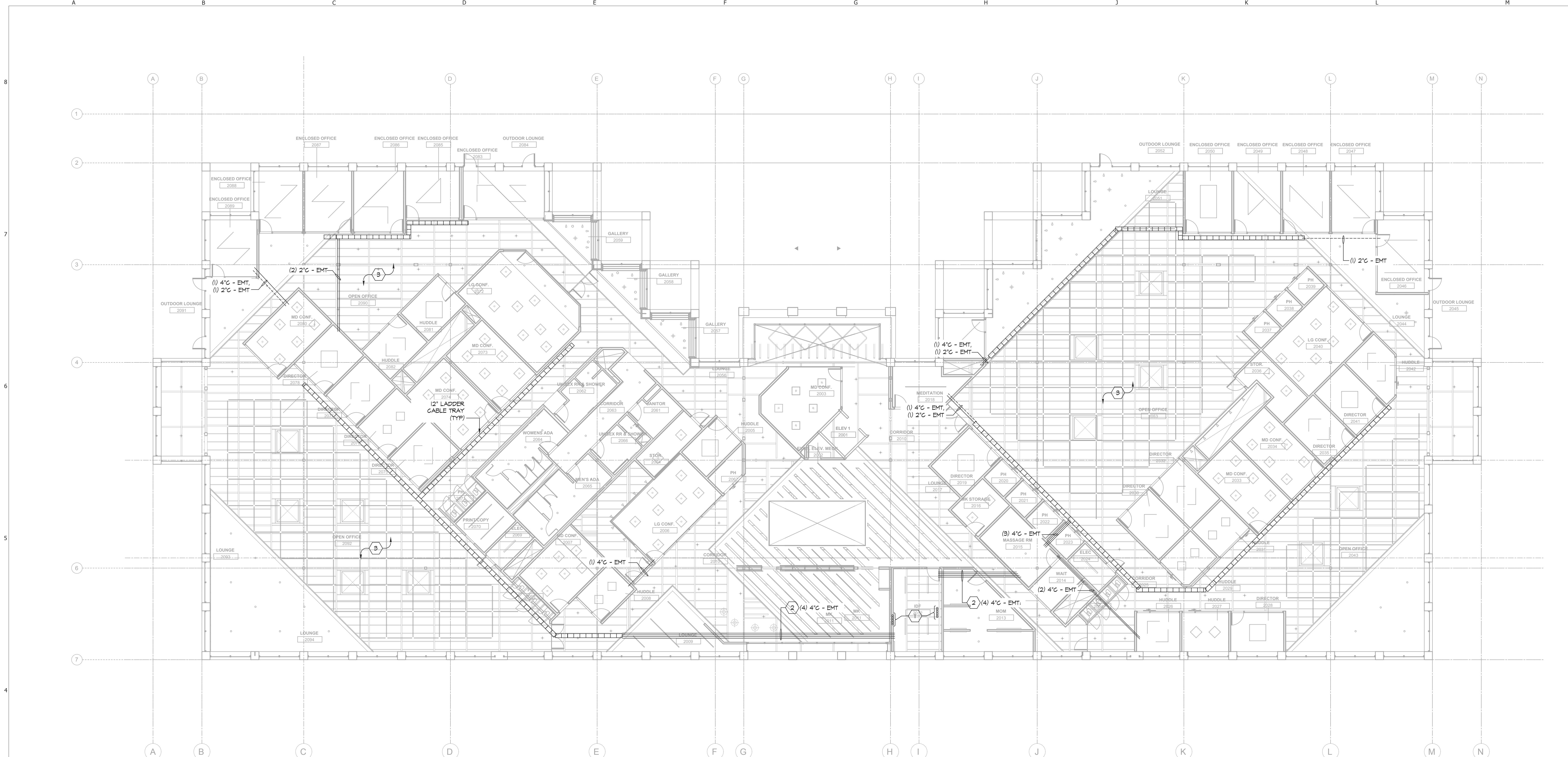
**Sheet Name**

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# **POWER FLOOR PLAN**

## **LEVEL 2 SOUTH**

E2.2B



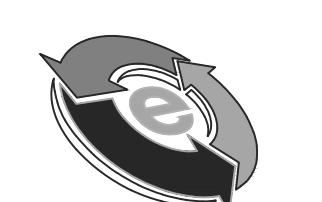
### CABLE TRAY FLOOR PLAN - LEVEL 2

E2.2CT

SCALE: 3/32" = 1'-0"

SYMBOL LEGEND	
-----	2" CONDUIT - EMT
_____	4" CONDUIT - EMT
██████████	12" LADDER CABLE TRAY
□	36"X36"X6" FIBER/OSP PULL CAN

SHEET NOTES	
①	PROVIDE (6) 5" CORES TO FIRST FLOOR: - (2) 4" DATA - (1) 4" DAS - (1) 4" SECURITY - (1) 4" OSP - (1) 4" SPARE
②	PROVIDE (4) 4" CONDUITS: - (2) 4" DATA - (1) 4" DAS - (1) 4" SECURITY
③	OPEN OFFICE FURNITURE DATA TO BE FED FROM CABLE TRAY/ACCESSIBLE CEILING SPACE ON FIRST FLOOR



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Exp. 08/31/20

Preliminary Documents

Sheet Name  
**CABLE TRAY FLOOR  
PLAN - LEVEL 2**

Sheet Number

**E2.2CT**

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# Google 1098 Alta

Project Address  
1098 Alta Ave,  
Mountain View, CA 94043

Project Number  
18070.00

Architect

# VALERIO DEWALT TRAIN

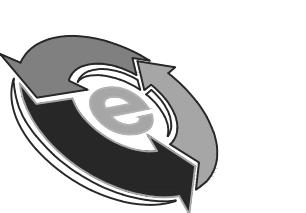
424 Waverley Street  
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Consultant Project Number

Issuances  
No. | Revision Description | Date  
ISSUE FOR PERMIT | 6/10/2019



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Preliminary Documents

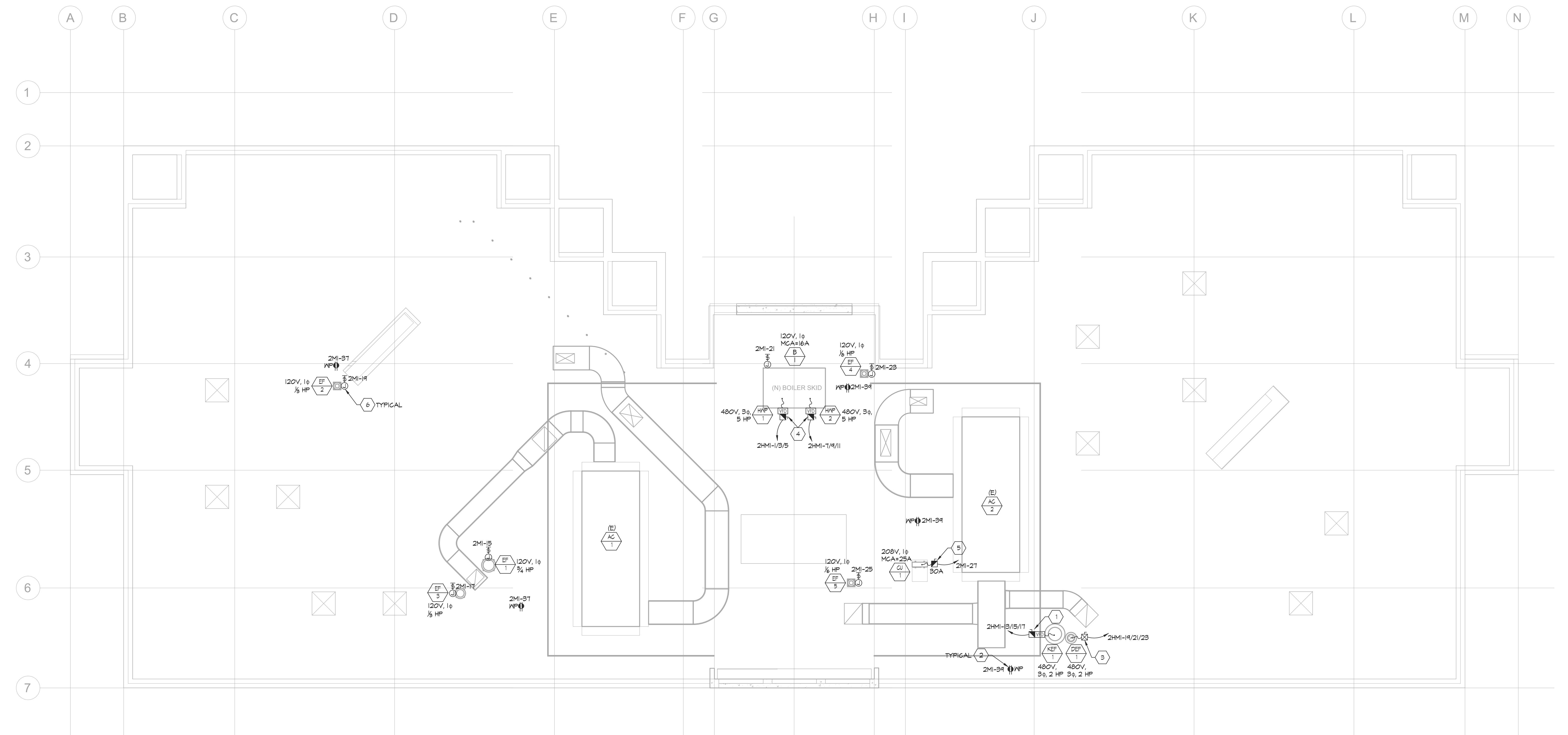
Sheet Name

POWER PLAN -  
ROOF

Sheet Number

**E2.3**

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## POWER PLAN - ROOF

E2.1A

SCALE: 3/32" = 1'-0"

### GENERAL NOTES

- ALL ELECTRICAL WORK SHALL COMPLY WITH 2016 CALIFORNIA ELECTRICAL CODE.
- PROVIDE PITCH POTS OR CONDUIT FOR PENETRATIONS IN ROOF.
- FIELD VERIFY LOCATIONS FOR MOUNTING DISCONNECT SWITCHES AND OTHER DEVICES PRIOR TO INSTALLATION. REFER TO MECHANICAL DRAWINGS FOR ACTUAL LOCATION OF EQUIPMENT AND OTHER DETAILS.
- PROVIDE 120V CONTROL POWER TO EQUIPMENT INSTALLED BY OTHERS. REFER TO MECHANICAL AND PLUMBING DRAWINGS.
- PROVIDE 120V POWER TO DUCT SMOKE DETECTORS LOCATED IN AIR DUCT AT FIRE RATED WALLS. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
- ALL RECEPTACLES ON ROOF TO BE GFCI TYPE, OR CIRCUIT SUPPLIED VIA A GFCI CIRCUIT BREAKER.
- INSTALL NON-FUSED AND FUSED DISCONNECT SWITCHES, INCLUDING FUSED TYPE AND SIZE PER MANUFACTURER'S LABEL RATING ON EQUIPMENT.
- USE MANUAL STARTERS WITH MELTING ALLOY TYPE THERMAL OVERLOAD RELAY FOR ALL FRACTIONAL HORSEPOWER 120V EXHAUST FAN MOTORS.
- AC SYSTEM DESIGNED BY MECHANICAL ENGINEERS. REFER TO MECHANICAL DRAWINGS FOR SYSTEM CONTROL WIRING, REQUIRING AUXILIARY CONTACTS IN STARTERS OF (EF) SUPPLY FANS AND 480V EXHAUST FAN.
- MINIMIZE CONDUIT ON ROOF. ROUTE/INSTALL CONDUIT BELOW ROOF/IN CEILING SPACE WHEREVER POSSIBLE.
- SIZE EACH COMBINATION MANUAL STARTER DISCONNECT PER EQUIPMENT NAMEPLATE RATINGS.
- DISCONNECT SWITCH SHALL NOT BE INSTALLED ON UNIT. MUST BE INSTALLED ADJACENT TO UNIT.
- ALL FACTORY INTEGRATED DISCONNECTS SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.

### SHEET NOTES

- PROVIDE FUSED DISCONNECT SWITCH SIZE AS NOTED FOR KEP. PROVIDE FUSE PER MANUFACTURER'S NAMEPLATE. VFD SUPPLIED BY MECHANICAL. PROVIDE WITH SHUNT TRIP. INTERLOCK WITH KITCHEN HOOD. VERIFY EXACT EQUIPMENT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PROVIDE WEATHERPROOF GFCI ROOF SERVICE OUTLET WITHIN 25' OF MECHANICAL EQUIPMENT. CONNECT TO CIRCUITY NOTED.
- PROVIDE COMBINATION STARTER/FUSED DISCONNECT SWITCH SIZE AS NOTED FOR DEF. PROVIDE WITH SHUNT TRIP. PROVIDE FUSE PER MANUFACTURER'S NAMEPLATE. VERIFY EXACT EQUIPMENT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PROVIDE FUSED DISCONNECT SWITCH SIZE AS NOTED FOR HMP. PROVIDE FUSE PER MANUFACTURER'S NAMEPLATE. VFD SUPPLIED BY MECHANICAL. VERIFY EXACT EQUIPMENT LOCATION AND TERMINATION REQUIREMENTS WITH PLUMBING CONTRACTOR.
- PROVIDE FUSED DISCONNECT SWITCH SIZE AS NOTED FOR CU. PROVIDE FUSE PER MANUFACTURER'S NAMEPLATE. VERIFY EXACT EQUIPMENT LOCATION AND TERMINATION REQUIREMENTS WITH PLUMBING CONTRACTOR.
- POWER CONNECTION FOR EF. PROVIDE MOTOR RATED SWITCH. VERIFY EXACT EQUIPMENT LOCATION AND TERMINATION REQUIREMENTS WITH MECHANICAL CONTRACTOR.

# Google 1098 Alta

Project Address

1098 Alta Ave,  
Mountain View, CA 94043

Project Number

18070.00

Architect

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Consultant Project Number

Issuances No. | Revision Description Date

ISSUE FOR PERMIT 6/10/2019

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Preliminary Documents

Sheet Name  
**LIGHTING FLOOR PLAN - LEVEL 1 NORTH**

Sheet Number

**E3.1A**

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## GENERAL NOTES

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2016 CALIFORNIA ELECTRICAL CODE.
- ALL CONDUITS CONCEALED IN CEILING AND / OR WALLS, ION.
- ALL BRANCH LIGHTING CIRCUITS SHALL BE PROVIDED WITH NEW CONDUIT AND CONDUCTORS. DERATE CONDUCTORS IN RACEWAYS IN ACCORDANCE WITH NEC.
- ALL EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CONNECTED TO NON-SWITCHED LIGHTING CIRCUIT SERVING THE ROOM.
- THE CONTROLS AND SWITCHES SHALL NOT BE MORE THAN 48" ABOVE FINISHED FLOOR FROM TOP OF BOX.
- COORDINATE ALL SWITCH LOCATIONS WITH TENANT.
- PROVIDE INDEPENDENT CONDUIT SYSTEM FOR EMERGENCY CIRCUITRY.

## SHEET NOTES

- (1) PRIMARY DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY PRIMARY DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
- (2) SECONDARY DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY SECONDARY DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
- (3) LIGHTING IN PRIMARY DAYLIT ZONE IN LOBBY AREA SUSPENDED FROM SECOND FLOOR CEILING SEE SECOND FLOOR LIGHTING PLAN FOR FIXTURE LOCATIONS AND CONTROLS.
- (4) OVERALL LIGHTING LOAD IN PRIMARY DAYLIT AREA IS LESS THAN 120W AUTOMATIC DAYLIGHTING CONTROLS NOT REQUIRED PER GEG SECTION 190.1(D) EXCEPTION #1.
- (5) HOMERUN TO PANEL 'IHI-1' AND PANEL 'IPI-1' AS NOTED. ALL 27W LIGHTING SHALL CONNECT TO PANEL 'IHI-1'. ALL 120W LIGHTING SHALL CONNECT TO PANEL 'IPI-1'.
- (6) 120V FIXTURE TYPE NOTED SHALL CONNECT TO PNL 'IPI-1'

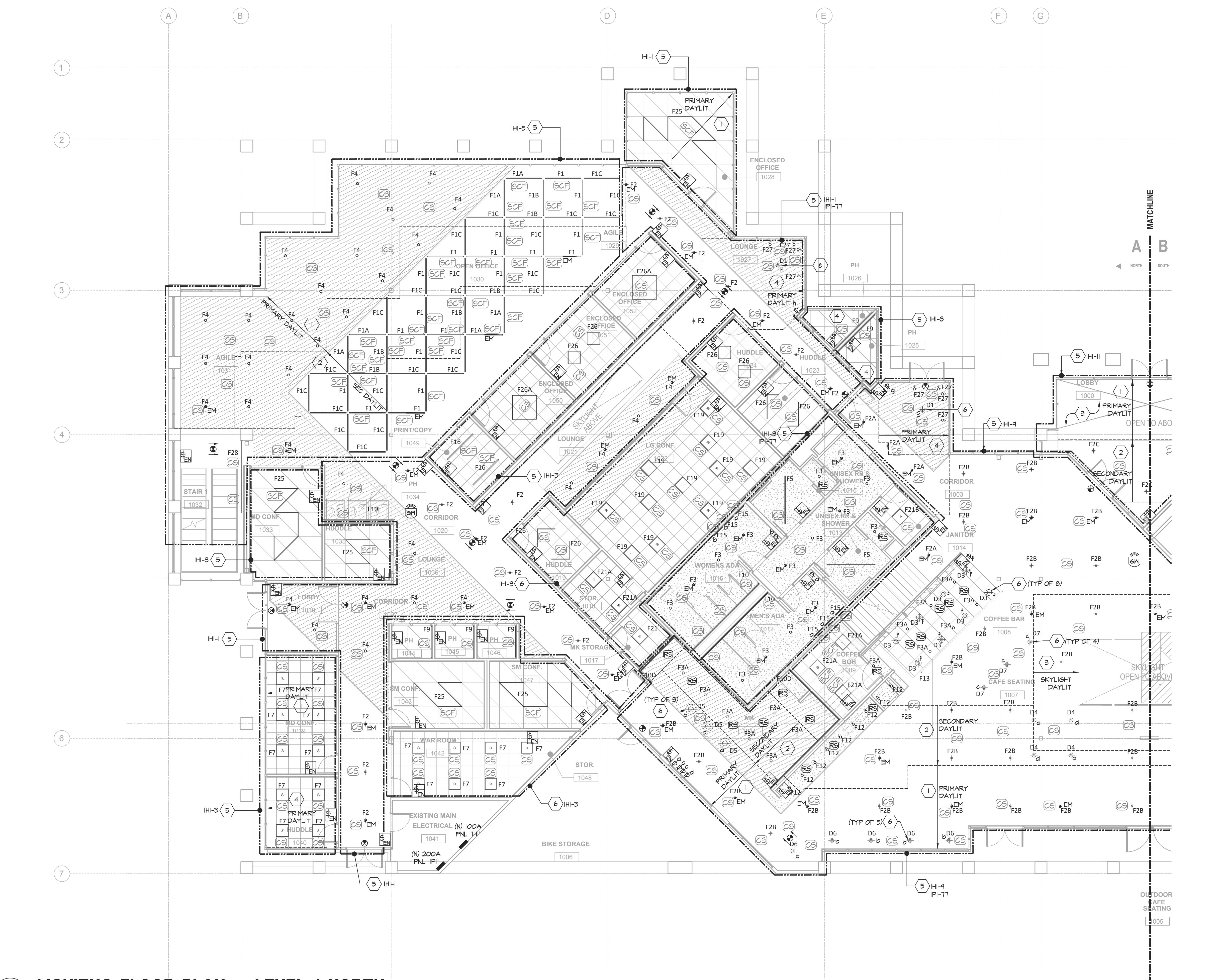
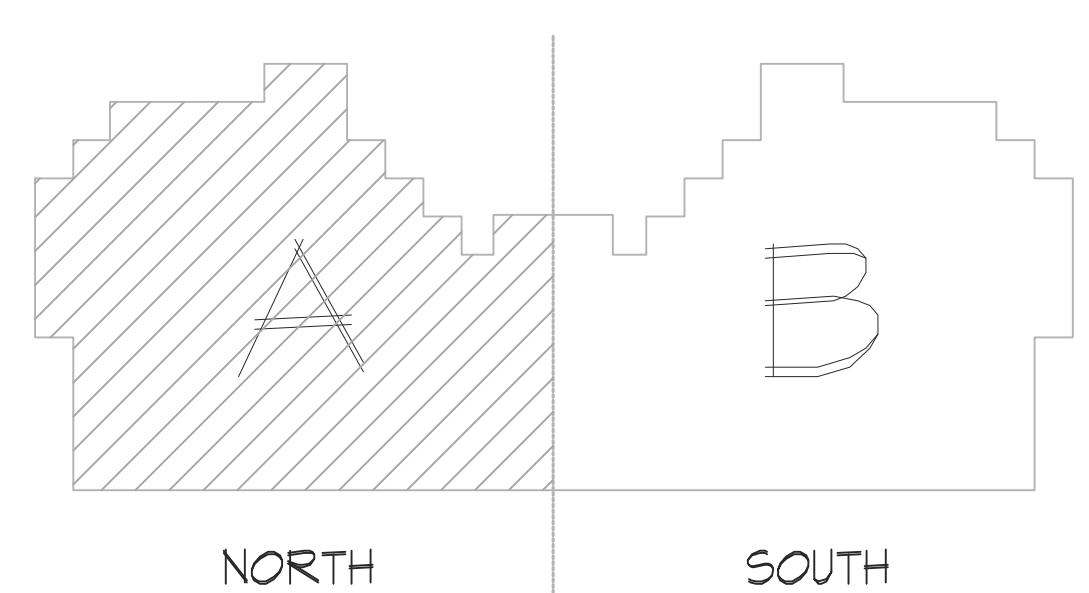
## ENLIGHTED SYSTEM LEGEND AND NOTES:

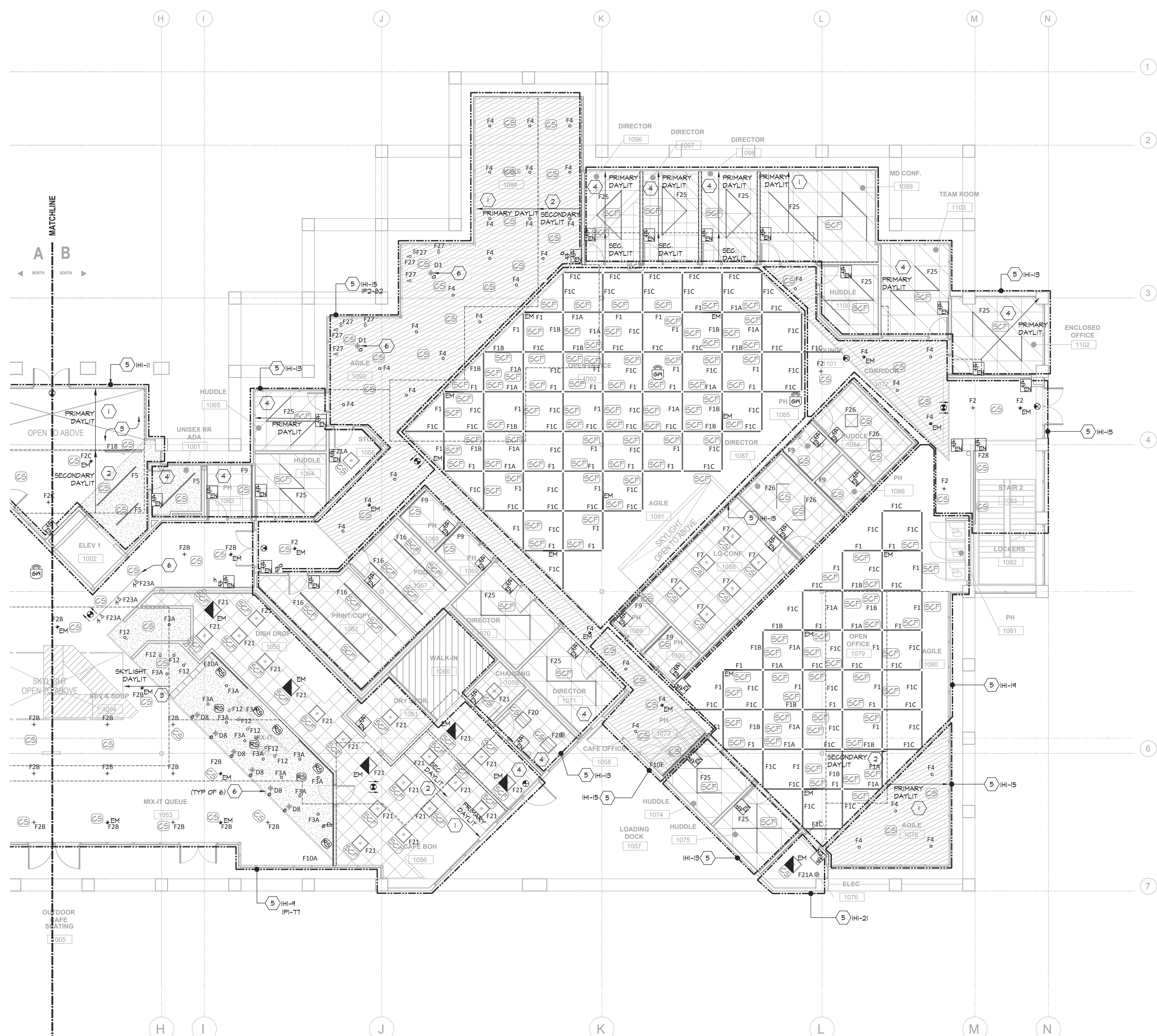
- SM = ENLIGHTED GATEWAY  
 EN = ENLIGHTED WIRELESS ROOM CONTROL  
 EC = ENLIGHTED SENSOR/CONTROL UNIT (FIELD INSTALLED)  
 EF = ENLIGHTED SENSOR/CONTROL UNIT (FACTORY INSTALLED)  
 ER = ENLIGHTED RUGGEDIZED SENSOR (FIELD INSTALLED)
- ALL LIGHTING SHALL BE CONTROLLED BY ENLIGHTED SYSTEM. EACH FIXTURE OR GROUP OF FIXTURES SHALL BE EQUIPPED WITH OCCUPANCY SENSOR TO MEET SHUTOFF CONTROL (TITLE 24 SECTION 190.1(C)). EACH AUTOMATIC DAYLIGHTING AREA SHALL BE EQUIPPED WITH AUTOMATIC DAYLIGHT HANDELER THAT MEETS THE DAYLIGHT AREAS CONTROL (TITLE 24 SECTION 190.1(D)). ALL ENCLOSED AREAS AND OPEN OFFICE SPACES SHALL BE EQUIPPED WITH MANUAL MULTI-SWITCHING/DIMMING DEVICES PER TITLE 24 SECTION 190.1(A)(B).
  - ONE ENLIGHTED SENSOR SHALL BE INSTALLED FOR EVERY LIGHTING FIXTURE EXCEPT FOR CONTINUOUS LINER FIXTURES WHERE IT WILL BE ONE SENSOR FOR EVERY 8 FEET OF FIXTURE LENGTH.
  - ENLIGHTED SENSOR INCLUDES OCCUPANCY SENSOR, PHOTO-SENSOR, AND INTEGRATED WITH EACH LIGHTING FIXTURES, OR PART OF SENSOR SHOWN ON 'ENLIGHTED SYSTEM' DRAWINGS.
  - ENLIGHTED GATEWAYS SHALL CONTROL BETWEEN 200 TO 250 ENLIGHTED SENSORS. THE SENSORS SHALL BE PROGRAMMED TO BE CONNECTED TO THE NEAREST GATEWAY. THE TOTAL NUMBER OF ENLIGHTED SENSORS SHOULD BE DIVIDED EQUALLY AMONGST THE ENLIGHTED GATEWAYS.
  - ENLIGHTED WIRELESS SWITCHES SHALL CONTROL LIGHTING FIXTURES WITHIN THE VIGILANCE OF THE WIRELESS SWITCH. FOR OPEN OFFICE AREAS, THE ENLIGHTED WIRELESS SWITCHES SHALL CONTROL ALL LIGHTING THAT NEEDS CONTROL FROM MULTIPLE LOCATIONS.
  - ENLIGHTED ROOM CONTROL IS A WALL MOUNTED WIRELESS SWITCH THAT CAN BE PROGRAMMED. VERIFY/CONFIRM SCENES WITH OWNER DURING COMMISSIONING.
  - EMERGENCY FIXTURE SHALL BE WIRED TO BE SWITCHED AND SHALL NOT BE USED AS A NIGHT LIGHT.

## EMERGENCY LIGHTING NOTES:

- ALL EM LIGHTS SHALL BE CONNECTED TO ROOM LIGHTING CIRCUITY AND CONTROLS. UPON LOSS OF POWER, ALL EM LIGHTS SHALL ILLUMINATE BYPASS CONTROL AND BE POWERED BY EM LIGHTING INVERTER. PROVIDE INVERTER CONNECTION TO LIGHTS VIA ENLIGHTED EMERGENCY CONTROL UNIT.
- ALL EM LIGHTING IN THIS SPACE SHALL CONNECT TO INVERTER CIRCUIT #1.

## KEY PLAN





LIGHTING FLOOR PLAN - LEVEL 1 SOUTH

E3.1B) Scale F: 1/8" = 1'-0"

SCALE: 1/8 = 1-0

# **GENERAL NOTES**

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2016 CALIFORNIA ELECTRICAL CODE.
  2. ALL CONDUITS CONCEALED IN CEILING AND / OR WALLS, UON.
  3. ALL BRANCH LIGHTING CIRCUITS SHALL BE PROVIDED WITH NEW CONDUIT AND CONDUCTORS. DERATE CONDUCTORS IN RACEWAYS IN ACCORDANCE WITH NEC.
  4. ALL EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CONNECTED TO NON-SWITCHED LIGHTING CIRCUIT SERVING THE ROOM.
  5. THE CONTROLS AND SWITCHES SHALL NOT BE MORE THAN 48" ABOVE FINISHED FLOOR FROM TOP OF BOX.
  6. COORDINATE ALL SWITCH LOCATIONS WITH TENANT.
  7. PROVIDE INDEPENDENT CONDUIT SYSTEM FOR EMERGENCY CIRCUITRY.

# SHEET NOTES

- 1 PRIMARY DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY PRIMARY DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
  - 2 SECONDARY DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY SECONDARY DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
  - 3 LIGHTING IN PRIMARY DAYLIT ZONE IN LOBBY AREA SUSPENDED FROM SECOND FLOOR CEILING. SEE SECOND FLOOR LIGHTING PLAN FOR FIXTURE LOCATIONS AND CONTROLS.
  - 4 OVERALL LIGHTING LOAD IN PRIMARY DAYLIT AREA IS LESS THAN 120W. AUTOMATIC DAYLIGHTING CONTROLS NOT REQUIRED PER CEC SECTION 130.1(D)2 EXCEPTION #1.
  - 5 HOMERUN TO PANEL 'IHI' AND PANEL 'IPI' AS NOTED.  
ALL 277V LIGHTING SHALL CONNECT TO PANEL 'IHI'. ALL 120V LIGHTING SHALL CONNECT TO PANEL 'IPI'.
  - 6 120V FIXTURE TYPE NOTED SHALL CONNECT TO PNL 'IPI'

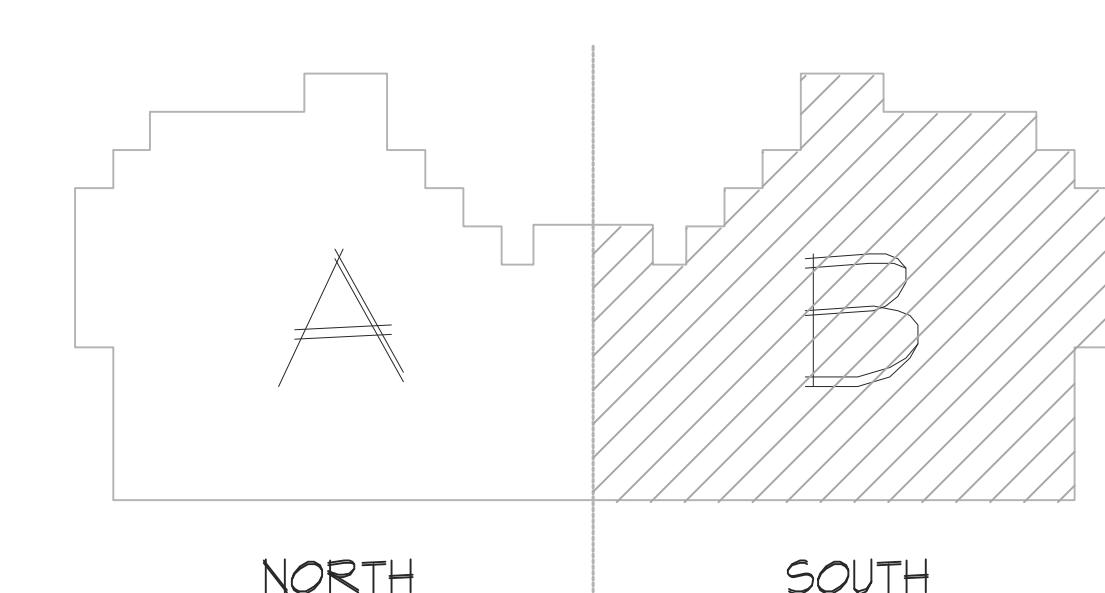
# **ENLIGHTED SYSTEM LEGEND AND NOTES:**

-  = ENLIGHTED GATEWAY
  -  = ENLIGHTED WIRELESS ROOM CONTROL
  -  = ENLIGHTED SENSOR/CONTROL UNIT (FIELD INSTALLED)
  -  = ENLIGHTED SENSOR/CONTROL UNIT (FACTORY INSTALLED)
  -  = ENLIGHTED RUGGEDIZED SENSOR (FIELD INSTALLED)
  - 1) ALL LIGHTING SHALL BE CONTROL BY ENLIGHTED SYSTEM. EACH FIXTURE OR GROUP OF FIXTURES SHALL BE EQUIPPED WITH OCCUPANCY SENSOR TO MEET SHUTOFF CONTROL (TITLE 24 SECTION 130.1(C)). EACH FIXTURE WITHIN DAYLIGHT AREA SHALL BE EQUIPPED WITH AUTOMATIC DAYLIGHT HARVESTING TO MEET DAYLIGHT AREAS CONTROL (TITLE 24 SECTION 130.1(D)). ALL ENCLOSED AREAS AND OPEN OFFICE SPACES SHALL BE EQUIPPED WITH MANUAL MULTI SWITCHING/DIMMING DEVICES PER TITLE 24 SECTION 130.1(A)(B).
  - 2) ONE ENLIGHTED SENSOR SHALL BE INSTALLED FOR EVERY LIGHTING FIXTURE EXCEPT FOR CONTINUOUS LINER FIXTURES WHERE IT WILL BE ONE SENSOR FOR EVERY 8 FEET OF FIXTURE LENGTH.
  - 3) ENLIGHTED SENSOR INCLUDES OCCUPANCY SENSOR, PHOTO-SENSOR, AND INTEGRATED WITH EACH LIGHTING FIXTURES, OR PART OF SENSOR SHOWN ON "ENLIGHTED SYSTEM" DRAWINGS.
  - 4) ENLIGHTED GATEWAYS SHALL CONTROL BETWEEN 200 TO 250 ENLIGHTED SENSORS. THE SENSORS SHALL BE PROGRAMMED TO BE CONNECTED TO THE NEAREST GATEWAY. THE TOTAL NUMBER OF ENLIGHTED SENSORS SHOULD BE DIVIDED EQUALLY AMONGST THE ENLIGHTED GATEWAYS.
  - 5) ENLIGHTED WIRELESS SWITCHES SHALL CONTROL LIGHTING FIXTURES WITHIN THE VICINITY OF THE WIRELESS SWITCH. FOR OPEN OFFICE AREAS, THE ENLIGHTED WIRELESS SWITCHES SHALL CONTROL ALL LIGHTING THAT NEEDS CONTROL FROM MULTIPLE LOCATIONS.
  - 6) ENLIGHTED ROOM CONTROL IS A WALL MOUNTED WIRELESS SWITCH THAT CAN BE PROGRAMMED. VERIFY/CONFIRM SCENES WITH OWNER DURING COMMISSIONING.
  - 7) EMERGENCY FIXTURE SHALL BE WIRED TO BE SWITCHED AND SHALL NOT BE USED AS A NIGHT LIGHT.

# **EMERGENCY LIGHTING NOTES:**

- I. ALL EM LIGHTS SHALL BE CONNECTED TO ROOM LIGHTING CIRCUITRY AND CONTROLS. UPON LOSS OF POWER, ALL EM LIGHTS SHALL ILLUMINATE, BYPASS CONTROL AND BE POWERED BY EM LIGHTING INVERTER. PROVIDE INVERTER CONNECTION TO LIGHTS VIA ENLIGHTED EMERGENCY CONTROL UNIT.
  2. ALL EM LIGHTING IN THIS SPACE SHALL CONNECT TO INVERTER

# KEY PLAN



# Google 1098 Alta

Project Address

---

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Mountain View, CA 94043

Project Number

18070.0

Architect

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<b>Issuances</b>		
No.	Revision Description	Date

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Preliminary Document

Sheet N

# LIGHTING FLOOR PL

## - LEVEL 1 SOUTH

Sheet N

E3.1B

# Google 1098 Alta

## Project Address

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## Project Number

18070.00

## Architect

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## Consultant

## Consultant Project Number

## Issuances

No. | Revision Description | Date

ISSUE FOR PERMIT | 6/10/2019



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## Preliminary Documents

## Sheet Name

LIGHTING FLOOR PLAN - LEVEL 2 NORTH

## Sheet Number

E3.2A

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## GENERAL NOTES

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2016 CALIFORNIA ELECTRICAL CODE.
- ALL CONDUITS CONCEALED IN CEILING AND / OR WALLS, ION.
- ALL BRANCH LIGHTING CIRCUITS SHALL BE PROVIDED WITH NEW CONDUIT AND CONDUCTORS. DERATE CONDUCTORS IN RACEWAYS IN ACCORDANCE WITH NEC.
- ALL EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CONNECTED TO NON-SWITCHED LIGHTING CIRCUIT SERVING THE ROOM.
- THE CONTROLS AND SWITCHES SHALL NOT BE MORE THAN 48" ABOVE FINISHED FLOOR FROM TOP OF BOX.
- COORDINATE ALL SWITCH LOCATIONS WITH TENANT.
- PROVIDE INDEPENDENT CONDUIT SYSTEM FOR EMERGENCY CIRCUITRY.

## SHEET NOTES

- (1) PRIMARY DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY PRIMARY DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
- (2) SECONDARY DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY SECONDARY DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
- (3) SKYLIT DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY SKYLIT DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
- (4) OVERALL LIGHTING LOAD IN PRIMARY DAYLIT AREA IS LESS THAN 120W AUTOMATIC DAYLIGHTING CONTROLS NOT REQUIRED PER CEC SECTION 10.2(D) EXCEPTION #1.
- (5) HOOKUP TO PANEL 1H1 AND PANEL 1P1 AS NOTED. ALL 277V LIGHTING SHALL CONNECT TO PANEL 1H1. ALL 120V LIGHTING SHALL CONNECT TO PANEL 1P1.
- (6) 120V FIXTURE TYPE NOTED SHALL CONNECT TO PNL 1P1.

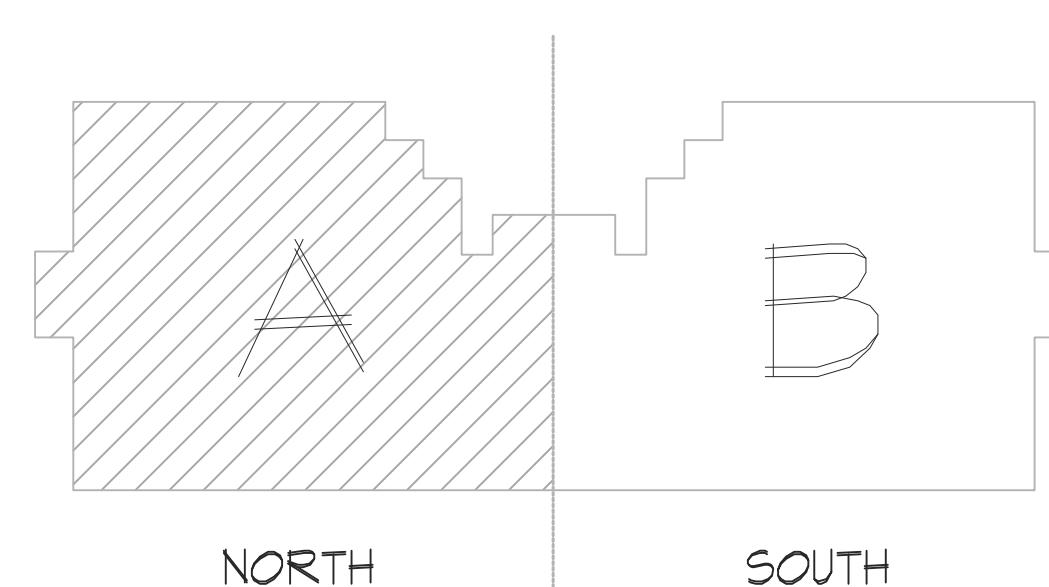
## ENLIGHTED SYSTEM LEGEND AND NOTES:

- GW = ENLIGHTED GATEWAY  
EW = ENLIGHTED WIRELESS ROOM CONTROL  
ES = ENLIGHTED SENSOR/CONTROL UNIT (FIELD INSTALLED)  
ECF = ENLIGHTED SENSOR/CONTROL UNIT (FACTORY INSTALLED)  
RS = ENLIGHTED RUGGEDIZED SENSOR (FIELD INSTALLED)
- ALL LIGHTING SHALL BE CONTROL BY ENLIGHTED SYSTEM. EACH FIXTURE OR GROUP OF FIXTURES SHALL BE EQUIPPED WITH OCCUPANCY SENSOR TO MEET SHUTOFF CONTROL (TITLE 24 SECTION 10.2(G)). EACH FIXTURE WITHIN DAYLIGHT AREA SHALL BE EQUIPPED WITH AUTOMATIC DAYLIGHT HARVESTING TO MEET DAYLIGHT AREAS CONTROL (TITLE 24 SECTION 10.2(D)). ALL ENLIGHTED AREA AND OPEN OFFICE SPACES SHALL BE EQUIPPED WITH MANUAL MULTI-SWITCHING/DIMMING DEVICES PER TITLE 24 SECTION 10.2(A)(B).
  - ONE ENLIGHTED SENSOR SHALL BE INSTALLED FOR EVERY LIGHTING FIXTURE EXCEPT FOR CONTINUOUS LINEAR FIXTURES WHERE IT WILL BE ONE SENSOR FOR EVERY 8 FEET OF FIXTURE LENGTH.
  - ENLIGHTED SENSOR INCLUDES OCCUPANCY SENSOR, PHOTO-SENSOR, AND INTEGRATION WITH EACH LIGHTING FIXTURE OR PART OF SENSOR SHOWN ON "ENLIGHTED SYSTEM" DRAWINGS.
  - ENLIGHTED GATEWAYS SHALL CONTROL BETWEEN 200 TO 250 ENLIGHTED SENSORS. THE SENSORS SHALL BE PROGRAMMED TO BE CONNECTED TO THE NEAREST GATEWAY. THE TOTAL NUMBER OF ENLIGHTED SENSORS SHOULD BE DIVIDED EQUALLY AMONGST THE ENLIGHTED GATEWAYS.
  - ENLIGHTED WIRELESS SWITCHES SHALL CONTROL LIGHTING FIXTURES WITHIN THE VICINITY OF THE WIRELESS SWITCH. FOR OPEN OFFICE AREAS, THE ENLIGHTED WIRELESS SWITCHES SHALL CONTROL ALL LIGHTING THAT NEEDS CONTROL FROM MULTIPLE LOCATIONS.
  - ENLIGHTED ROOM CONTROL IS A WALL MOUNTED WIRELESS SWITCH THAT CAN BE PROGRAMMED TO VERIFY/CONFIRM SCENES WITH OWNER DURING COMMISSIONING.
  - EMERGENCY FIXTURE SHALL BE WIRED TO BE SWITCHED AND SHALL NOT BE USED AS A NIGHT LIGHT.

## EMERGENCY LIGHTING NOTES:

- ALL EM LIGHTS SHALL BE CONNECTED TO ROOM LIGHTING CIRCUITRY AND CONTROLS. UPON LOSS OF POWER, ALL EM LIGHTS SHALL ILLUMINATE, BYPASS CONTROL AND BE POWERED BY EM LIGHTING INVERTER. PROVIDED INVERTER CONNECTION TO LIGHTS VIA ENLIGHTED EMERGENCY CONTROL UNIT.
- ALL EM LIGHTING IN THIS SPACE SHALL CONNECT TO INVERTER CIRCUIT #2.

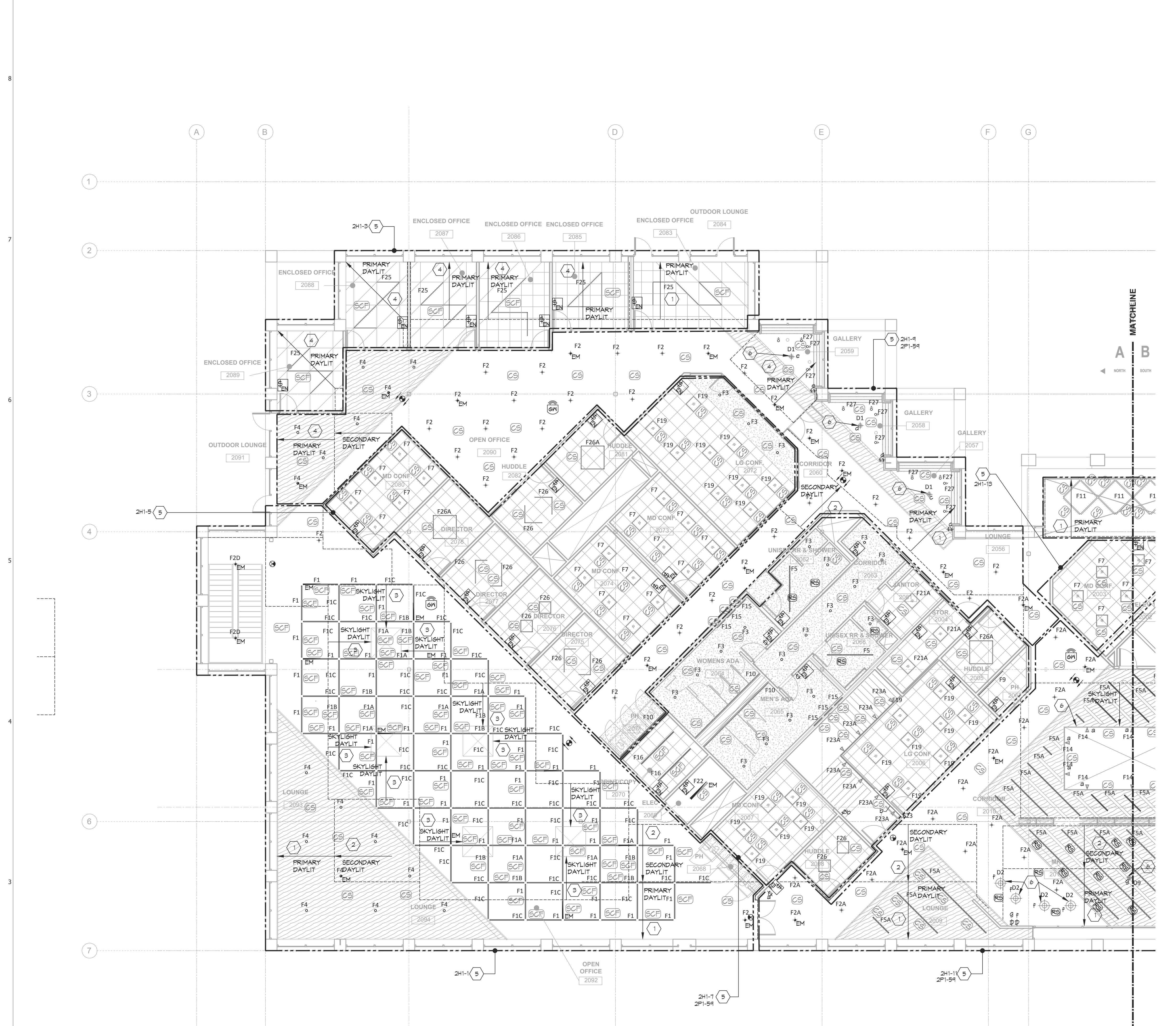
## KEY PLAN

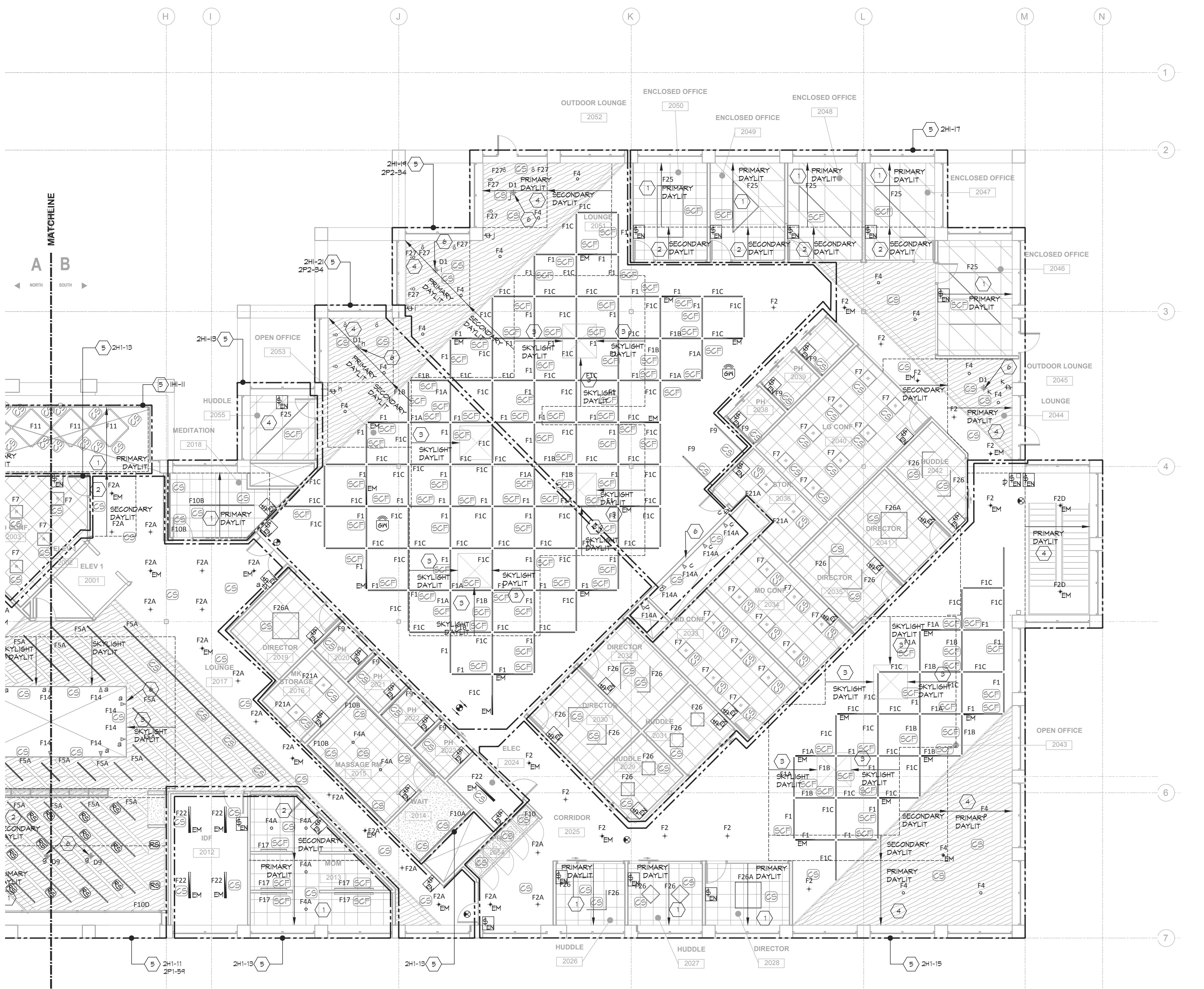


## LIGHTING FLOOR PLAN - LEVEL 2 NORTH

1  
E3.2A

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





# **GENERAL NOTES**

1. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2016 CALIFORNIA ELECTRICAL CODE.
  2. ALL CONDUITS CONCEALED IN CEILING AND / OR WALLS, UON.
  3. ALL BRANCH LIGHTING CIRCUITS SHALL BE PROVIDED WITH NEW CONDUIT AND CONDUCTORS. DERATE CONDUCTORS IN RACEWAYS IN ACCORDANCE WITH NEC.
  4. ALL EXIT SIGNS AND EMERGENCY LIGHTS SHALL BE CONNECTED TO NON-SWITCHED LIGHTING CIRCUIT SERVING THE ROOM.
  5. THE CONTROLS AND SWITCHES SHALL NOT BE MORE THAN 48" ABOVE FINISHED FLOOR FROM TOP OF BOX.
  6. COORDINATE ALL SWITCH LOCATIONS WITH TENANT.
  7. PROVIDE INDEPENDENT CONDUIT SYSTEM FOR EMERGENCY CIRCUITRY.

# SHEET NOTES

- 1 PRIMARY DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY PRIMARY DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
  - 2 SECONDARY DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY SECONDARY DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
  - 3 SKYLIT DAYLIT ZONE - LIGHTING INSTALLED IN THIS ZONE/AREA SHALL BE CONNECTED TO AND CONTROLLED BY SKYLIT DAYLIT ZONE AUTOMATIC DAYLIGHTING CONTROL.
  - 4 OVERALL LIGHTING LOAD IN PRIMARY DAYLIT AREA IS LESS THAN 120W. AUTOMATIC DAYLIGHTING CONTROLS NOT REQUIRED PER CEC SECTION 130.1(D)2 EXCEPTION #1.
  - 5 HOMERUN TO PANEL 'IHI' AND PANEL 'IPI' AS NOTED.  
ALL 277V LIGHTING SHALL CONNECT TO PANEL 'IHI'. ALL 120V LIGHTING SHALL CONNECT TO PANEL 'IPI'.
  - 6 120V FIXTURE TYPE NOTED SHALL CONNECT TO PNL 'IPI'

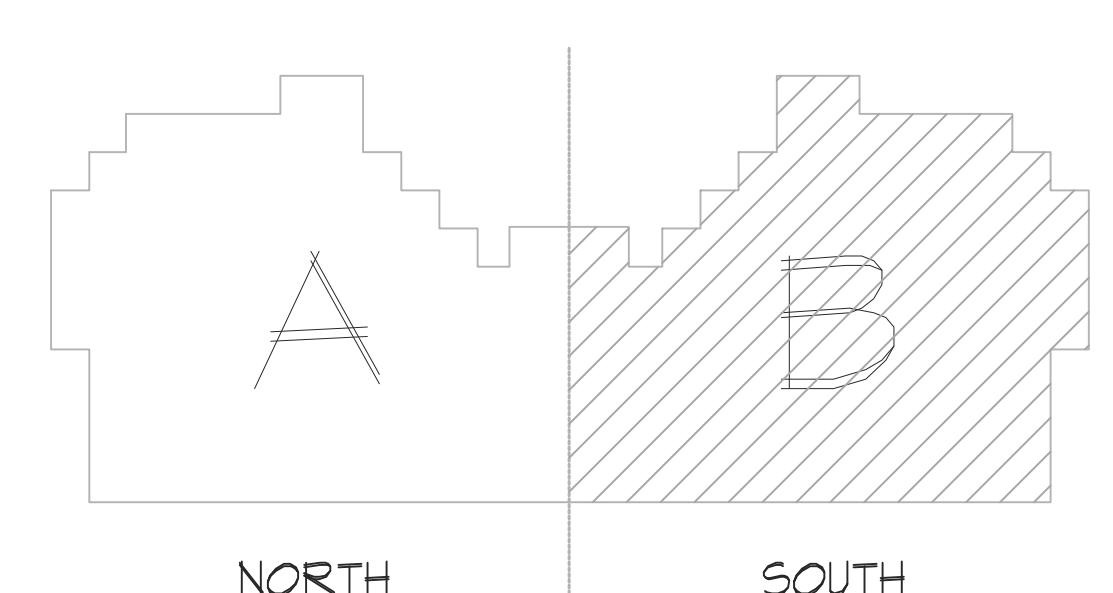
# **ENLIGHTED SYSTEM LEGEND AND NOTES:**

-  = ENLIGHTED GATEWAY
  -  = ENLIGHTED WIRELESS ROOM CONTROL
  -  = ENLIGHTED SENSOR/CONTROL UNIT (FIELD INSTALLED)
  -  = ENLIGHTED SENSOR/CONTROL UNIT (FACTORY INSTALLED)
  -  = ENLIGHTED RUGGEDIZED SENSOR (FIELD INSTALLED)
  - 1) ALL LIGHTING SHALL BE CONTROL BY ENLIGHTED SYSTEM. EACH FIXTURE OR GROUP OF FIXTURES SHALL BE EQUIPPED WITH OCCUPANCY SENSOR TO MEET SHUTOFF CONTROL (TITLE 24 SECTION 130.1(C)). EACH FIXTURE WITHIN DAYLIGHT AREA SHALL BE EQUIPPED WITH AUTOMATIC DAYLIGHT HARVESTING TO MEET DAYLIGHT AREAS CONTROL (TITLE 24 SECTION 130.1(D)). ALL ENCLOSED AREAS AND OPEN OFFICE SPACES SHALL BE EQUIPPED WITH MANUAL MULTI SWITCHING/DIMMING DEVICES PER TITLE 24 SECTION 130.1(A)(B).
  - 2) ONE ENLIGHTED SENSOR SHALL BE INSTALLED FOR EVERY LIGHTING FIXTURE EXCEPT FOR CONTINUOUS LINER FIXTURES WHERE IT WILL BE ONE SENSOR FOR EVERY 8 FEET OF FIXTURE LENGTH.
  - 3) ENLIGHTED SENSOR INCLUDES OCCUPANCY SENSOR, PHOTO-SENSOR, AND INTEGRATED WITH EACH LIGHTING FIXTURES, OR PART OF SENSOR SHOWN ON "ENLIGHTED SYSTEM" DRAWINGS.
  - 4) ENLIGHTED GATEWAYS SHALL CONTROL BETWEEN 200 TO 250 ENLIGHTED SENSORS. THE SENSORS SHALL BE PROGRAMMED TO BE CONNECTED TO THE NEAREST GATEWAY. THE TOTAL NUMBER OF ENLIGHTED SENSORS SHOULD BE DIVIDED EQUALLY AMONGST THE ENLIGHTED GATEWAYS.
  - 5) ENLIGHTED WIRELESS SWITCHES SHALL CONTROL LIGHTING FIXTURES WITHIN THE VICINITY OF THE WIRELESS SWITCH. FOR OPEN OFFICE AREAS, THE ENLIGHTED WIRELESS SWITCHES SHALL CONTROL ALL LIGHTING THAT NEEDS CONTROL FROM MULTIPLE LOCATIONS.
  - 6) ENLIGHTED ROOM CONTROL IS A WALL MOUNTED WIRELESS SWITCH THAT CAN BE PROGRAMMED. VERIFY/CONFIRM SCENES WITH OWNER DURING COMMISSIONING.
  - 7) EMERGENCY FIXTURE SHALL BE WIRED TO BE SWITCHED AND SHALL NOT BE USED AS A NIGHT LIGHT.

# **EMERGENCY LIGHTING NOTES.**

1. ALL EM LIGHTS SHALL BE CONNECTED TO ROOM LIGHTING CIRCUITRY AND CONTROLS. UPON LOSS OF POWER, ALL EM LIGHTS SHALL ILLUMINATE, BYPASS CONTROL AND BE POWERED BY EM LIGHTING INVERTER. PROVIDE INVERTER CONNECTION TO LIGHTS VIA ENLIGHTED EMERGENCY CONTROL UNIT.
  2. ALL EM LIGHTING IN THIS SPACE SHALL CONNECT TO INVERTER

## KEY PLAN



LIGHITNG FLOOR PLAN - LEVEL 2 SOUTH

E3.2B / SCALE 1/8" = 1' 0"

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

# Google 1098 Alta

## Project Address

1098 Alta Ave,  
Mountain View, CA 94043

## Project Number

18070.00

## Architect

# VALERIO DEWALT TRAIN

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Issuances		
No.	Revision Description	Date

Electrical Design Build  
License: C10 500228  
Exp. 08/31/20

## Preliminary Documents

**Sheet Name**

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**LIGHTING FLOOR PLAN**  
**- LEVEL 2 SOUTH**

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# E3.2B

## GENERAL NOTES

I. ALL ELECTRICAL WORK SHALL COMPLY WITH 2016 CALIFORNIA ELECTRICAL CODE.

## SHEET NOTES

I #2/0 COPPER GROUND TO BUILDING STEEL, GROUND GRID AND COLD WATER PIPE @ AREA SERVED.

## FEEDER SCHEDULE

3-PHASE 3W			3-PHASE 4W		
AMPERAGE	SYMBOL	CONDUIT/CONDUCTOR	AMPERAGE	SYMBOL	CONDUIT/CONDUCTOR
40	[40]	1°C. - (3) #8 + #10 CU GND	20	[20]	1°C. - (4) #10 + #10 CU GND
50	[50]	1°C. - (3) #4 + #8 CU GND	100	[100]	1-1°C. - (4) #2 + #8 CU GND
70	[70]	1-1°C. - (3) #2 + #8 CU GND	200	[200]	2°C. - (4) #3/0 + #6 CU GND
100	[100]	1-1°C. - (3) #1/0 + #6 CU GND	200	[200]	2°C. - (3) #3/0 + #6 CU GND
125	[125]	1-1°C. - (3) #1/0 + #6 CU GND	400	[400]	(2) 3°C. - (4) #350KCMIL + #1 CU GND
225	[225]	2°C. - (3) #4/0 + #4 CU GND	600	[600]	(2) 2°C. - (3) #4/0 + #4 CU GND
450	[450]	(2) 2°C. - (3) #4/0 + #4 CU GND	1000	[1000]	(2) 2°C. - (3) #500KCMIL + #3/0 CU GND
500	[500]	(2) 2°C. - (3) #500KCMIL + #3/0 CU GND			

## 1098 Alta SYSTEM LOAD CALCULATIONS

(E) MAIN SWITCHBOARD "MSB-1" - 480Y/277V, 1000A/3P MCB (FOR 1ST FLOOR)		
DESCRIPTION	LOAD TYPE(KVA)	Demand
Lighting @125%	Largest Motor @125% + Remaining Motor @100% + EV load @ 125%	(KVA)
(E) AC-1	301.2	301.2
(N) PNL "1H1"	26.6	26.6
(N) XMR T-1DP1/DIST. PNL "1DP1"	1.2	154.4
(N) EVI XMR PANEL EVI @ 125%	200.2	180.6
TOTAL DEMAND KVA	754.6	
TOTAL DEMAND AMPS @ 480V	408.0	

(E) MAIN SWITCHBOARD "MSB-2" - 480Y/277V, 1000A/3P MCB (FOR 2ND FLOOR)		
DESCRIPTION	LOAD TYPE(KVA)	Demand
Lighting @125%	Largest Motor @125% + Remaining Motor @100% + EV load @ 125%	(KVA)
(E) ELEVATOR	32.5	32.5
(N) PANEL "2H1"	23.8	18.3
(N) PANEL "2HM1"	0.0	18.0
(N) XMR T-2DP1/DIST. PNL "2DP1"	45.0	18.2
(E) AC-2	137.5	137.5
TOTAL DEMAND KVA	610.0	
TOTAL DEMAND AMPS @ 480V	795.5	

DIST PNL "2DP1" - 208/120V, 600A/3P, 208/120V,		
DESCRIPTION	LOAD TYPE(KVA)	Demand
Lighting @125%	Largest Motor @125% + Remaining Motor @100% + EV load @ 125%	(KVA)
DISHWASHER MACHINE	25.0	25.0
BLOWER DRYER	15.4	19.4
PANEL "2P1"	0.0	30.7
PANEL "2P2"	0.0	30.7
PANEL "2P3"	1.2	4.7
PANEL "2H1"	0.0	24.3
PANEL "2IDF"	0.0	16.6
TOTAL DEMAND KVA	160.6	
TOTAL DEMAND AMPS @ 208V	446.1	

## Google 1098 Alta

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1807.00

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### Consultant

### Consultant Project Number

### Issuances

No.	Revision Description	Date
	ISSUE FOR PERMIT	6/10/2019



elcor  
electric

LIC#0200269  
3310 Bassett Street, Santa Clara, CA 95054  
1 408.956.1320 F 408.956.1324  
ACCE: E190061.00

Electrical Design Build  
License: C10 500228  
Exp. 08/31/20

### Preliminary Documents

### Sheet Name

SINGLE LINE  
DIAGRAM

### Sheet Number

E4.1

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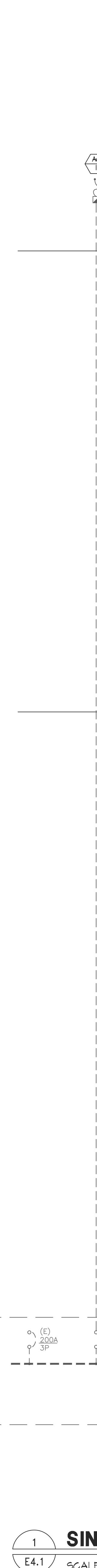
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Project Team Architect's Stamp

WILLIAM TURNER

DANA STIERNBERG

ANDREW PAUL

IAN CURTIS

Consultant

RR & SHOWER 2006, RR 2065, 2064

RECEPETS - HUDDLE 2006

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A	B	C	D	E	F	G	H	I	J	K	L	M	
PANEL NAME: IM1	VOLTAGE: 208/120V	PHASE: 3	WIRE: 4	TYPE: NEVA 1	Mounting: SURFACE	FED FROM: 1DP1	MAIN C/B: BUSMING: 200 AMP MIN A/C: 18,500	SUB-FEED C/B: SUB-FEED C/B: NO	FEED THRU LUGS: NO			PED FROM: 1DP1	
CIRCUIT DESCRIPTION	LOAD TYPE (kVA)	CB	CKT #	PH	CKT #	CB	LOAD TYPE (kVA)	CB	CKT #	PH	CKT #	CB	LOAD TYPE (kVA)
TF1-1 - ELEC 1076	LTG REC MTR NCL	20A/1P	1	A	2	20A/1P	20A/1P	1	A	2	20A/1P	20A/1P	SPARE
WH1-1 - UNISEX RR ADA 1001			3.50	20A/1P	3	B	4	20A/1P					SPARE
COOLER EVAPORATOR COIL - WALK IN COOLER			0.35	20A/1P	5	C	6	20A/1P					SPARE
SPARE			20A/1P	7	A	8	20A/1P						SPARE
SPARE			20A/1P	9	B	10	20A/1P						SPARE
SPARE			20A/1P	11	C	12	20A/1P						SPARE
SPARE			20A/1P	13	A	14	20A/1P						SPARE
SPARE			20A/1P	15	B	16	20A/1P						SPARE
SPARE			20A/1P	17	C	18	20A/1P						SPARE
SPARE			20A/1P	19	A	20	20A/1P						SPARE
SPARE			20A/1P	21	B	22	20A/1P						SPARE
SPARE			20A/1P	23	C	24	20A/1P						SPARE
SPARE			20A/1P	25	A	26	20A/1P						SPARE
SPARE			20A/1P	27	B	28	20A/1P						SPARE
SPARE			20A/1P	29	C	30	20A/1P						SPARE
SPARE			20A/1P	31	A	32	20A/1P						SPARE
SPARE			20A/1P	33	B	34	20A/1P						SPARE
SPARE			20A/1P	35	C	36	20A/1P						SPARE
SPARE			20A/1P	37	A	38	20A/1P						SPARE
SPARE			20A/1P	39	B	40	20A/1P						SPARE
SPARE			20A/1P	41	C	42	20A/1P						SPARE
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	Yes/No	FULL RATED A/C Y	KVA PHASE A (CONNECTED) 1.0	KVA PHASE B (CONNECTED) 3.5	KVA PHASE C (CONNECTED) 0					
(LTG) LIGHTING X 125%	0	1.25	0.0										
(REC) RECEPTS PER 220.44	0	1.00	0.0										
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0										
(MTR) LARGEST MOTOR X 125%	0.7	1.25	0.0										
+ REMAINING MOTORS x 100%	0	1.00	0.0										
(INCL) NON CONTINUOUS LOAD x 100%	3.5	1.00	0.5										
0 0 1.0 3.5	0 0 0 0												
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	Yes/No	FULL RATED A/C Y	KVA PHASE A (CONNECTED) 1.0	KVA PHASE B (CONNECTED) 3.5	KVA PHASE C (CONNECTED) 0					
(LTG) LIGHTING X 125%	0	1.25	0.0										
(REC) RECEPTS PER 220.44	0	1.00	0.0										
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0										
(MTR) LARGEST MOTOR X 125%	0.7	1.25	0.0										
+ REMAINING MOTORS x 100%	0	1.00	0.0										
(INCL) NON CONTINUOUS LOAD x 100%	3.5	1.00	0.5										
0 0 1.0 3.5	0 0 0 0												
PANEL NAME: (N) 2DF	VOLTAGE: 208/120V	PHASE: 3	WIRE: 4	TYPE: NEVA 1	Mounting: SURFACE	FED FROM: 2DF1	MAIN C/B: BUSMING: 100 AMP MIN A/C: 10,000	SUB-FEED C/B: SUB-FEED C/B: NO	FEED THRU LUGS: NO			PED FROM: 1DP1	
CIRCUIT DESCRIPTION	LOAD TYPE (kVA)	CB	CKT #	PH	CKT #	CB	LOAD TYPE (kVA)	CB	CKT #	PH	CKT #	CB	LOAD TYPE (kVA)
WIREMOLD LB-20 DF RM 2012	LTG REC MTR NCL	20A	1	A	2	20A	20A/1P	1	A	2	20A/1P	20A/1P	SPARE
+	+	+	0.52	2P	3	B	4	2P	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	20A	5	C	6	20A	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	2P	7	A	8	2P	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	20A	9	B	10	20A	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	2P	11	C	12	2P	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	20A	13	A	14	20A	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	2P	15	B	16	2P	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	20A	17	C	18	20A	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	2P	19	A	20	2P	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	20A	21	B	22	20A	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	2P	23	C	24	2P	0.52	+	+	0.52	WIREMOLD LB-20 DF RM 2012
WIREMOLD LB-20 DF RM 2012			0.52	20A	25	A	26	20A	0.52	+	+	0.52	SPARE
WIREMOLD LB-20 DF RM 2012			0.52	2P	27	B	28	20A	0.52	+	+	0.52	SPARE
WIREMOLD LB-20 DF RM 2012			0.52	20A	29	C	30	20A	0.52	+	+	0.52	SPARE
WIREMOLD LB-20 DF RM 2012			0.52	2P	31	A	32	20A	0.52	+	+	0.52	SPARE
WIREMOLD LB-20 DF RM 2012			0.52	20A	33	B	34	20A	0.52	+	+	0.52	SPARE
WIREMOLD LB-20 DF RM 2012			0.52	2P	35	C	36	20A	0.52	+	+	0.52	SPARE
WIREMOLD LB-20 DF RM 2012			0.52	20A	37	A	38	20A	0.52	+	+	0.52	SPARE
WIREMOLD LB-20 DF RM 2012			0.52	2P	39	B	40	20A	0.52	+	+	0.52	SPARE
SPARE			20A/1P	41	C	42	20A/1P						SPARE
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	Yes/No	FULL RATED A/C Y	KVA PHASE A (CONNECTED) 5.7	KVA PHASE B (CONNECTED) 5.7	KVA PHASE C (CONNECTED) 5.2					
(LTG) LIGHTING X 125%	0	1.25	0.0										
(REC) RECEPTS PER 220.44	0	1.00	0.0										
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0										
(MTR) LARGEST MOTOR X 125%	0	1.25	0.0										
+ REMAINING MOTORS x 100%	0	1.00	0.0										
(INCL) NON CONTINUOUS LOAD x 100%	16.6	1.00	15.8										
0 0 0 10.4	0 0 0 6.2												
LOAD SUMMARY	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA	Yes/No	FULL RATED A/C Y	KVA PHASE A (CONNECTED) 5.7	KVA PHASE B (CONNECTED) 5.7	KVA PHASE C (CONNECTED) 5.2					
(LTG) LIGHTING X 125%	0	1.25	0.0										
(REC) RECEPTS PER 220.44	0	1.00	0.0										
10KVA x 100% + REMAINDER x 50%	0	0.50	0.0										
(MTR) LARGEST MOTOR X 125%	0	1.25	0.0										

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Consultant Project Number

Issuances  
No. | Revision Description | Date  
ISSUE FOR PERMIT | 6/10/2019



Electrical Design Build  
License: C10 500228  
Exp. 08/31/20

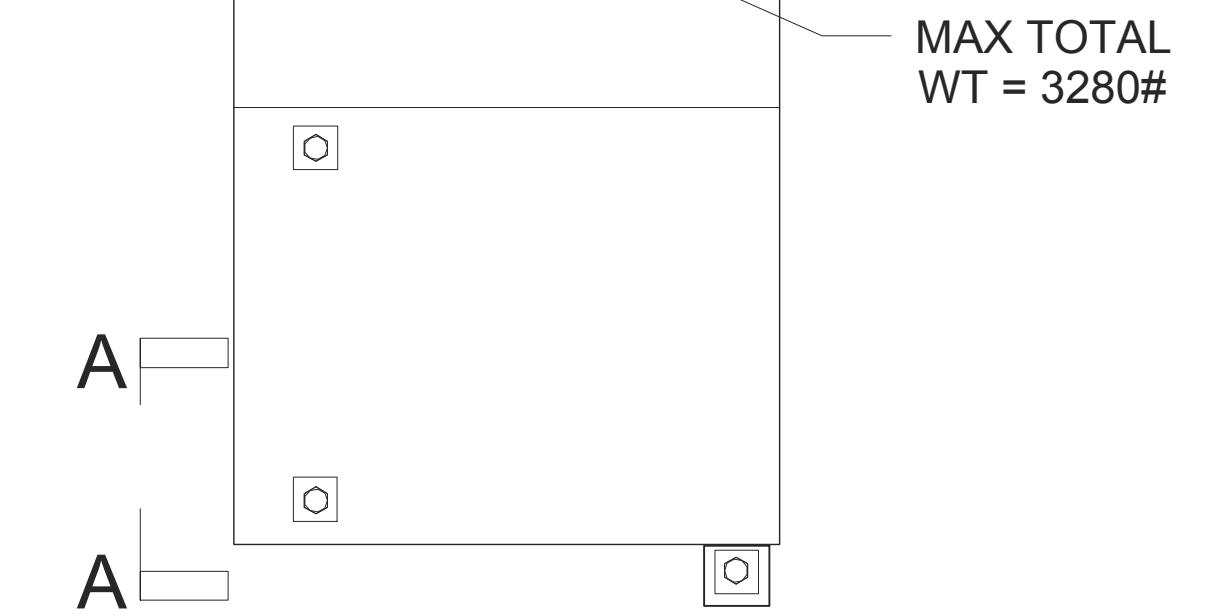
Preliminary Documents

Sheet Name  
**ELECTRICAL DETAILS**

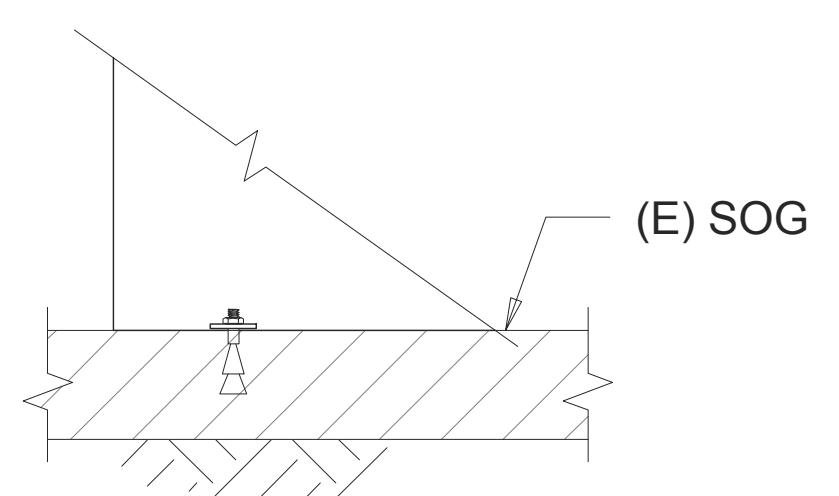
Sheet Number

# E5.1

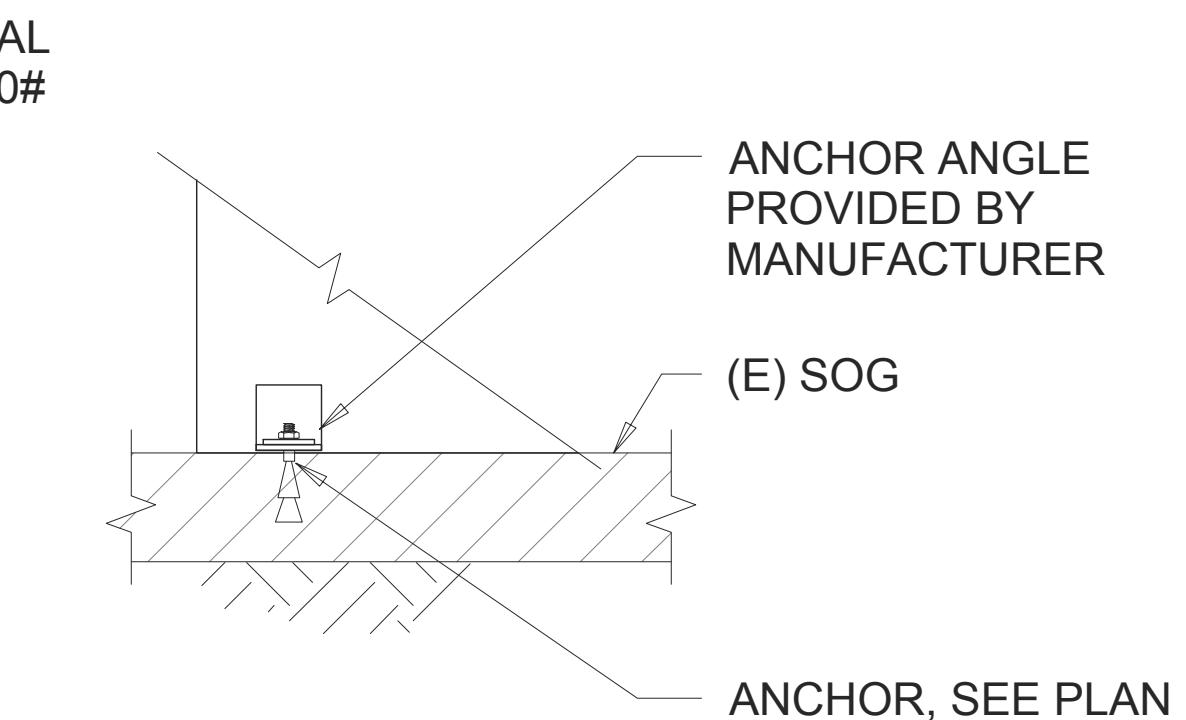
1/2" DIA. HILTI KB-TZ W/  
2" EMBED W/ STD  
WASHER AT MFR  
PROVIDED HOLES  
(6 TOTAL)



**PLAN**



**SECTION A-A**

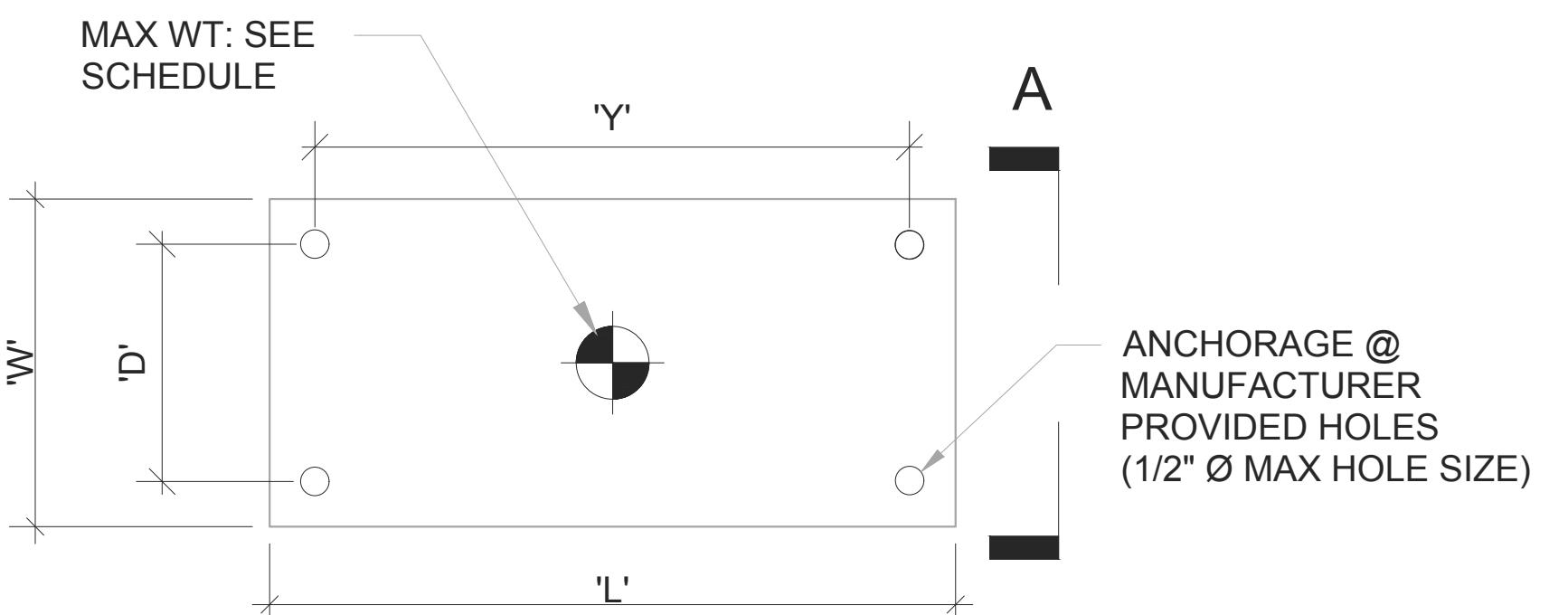
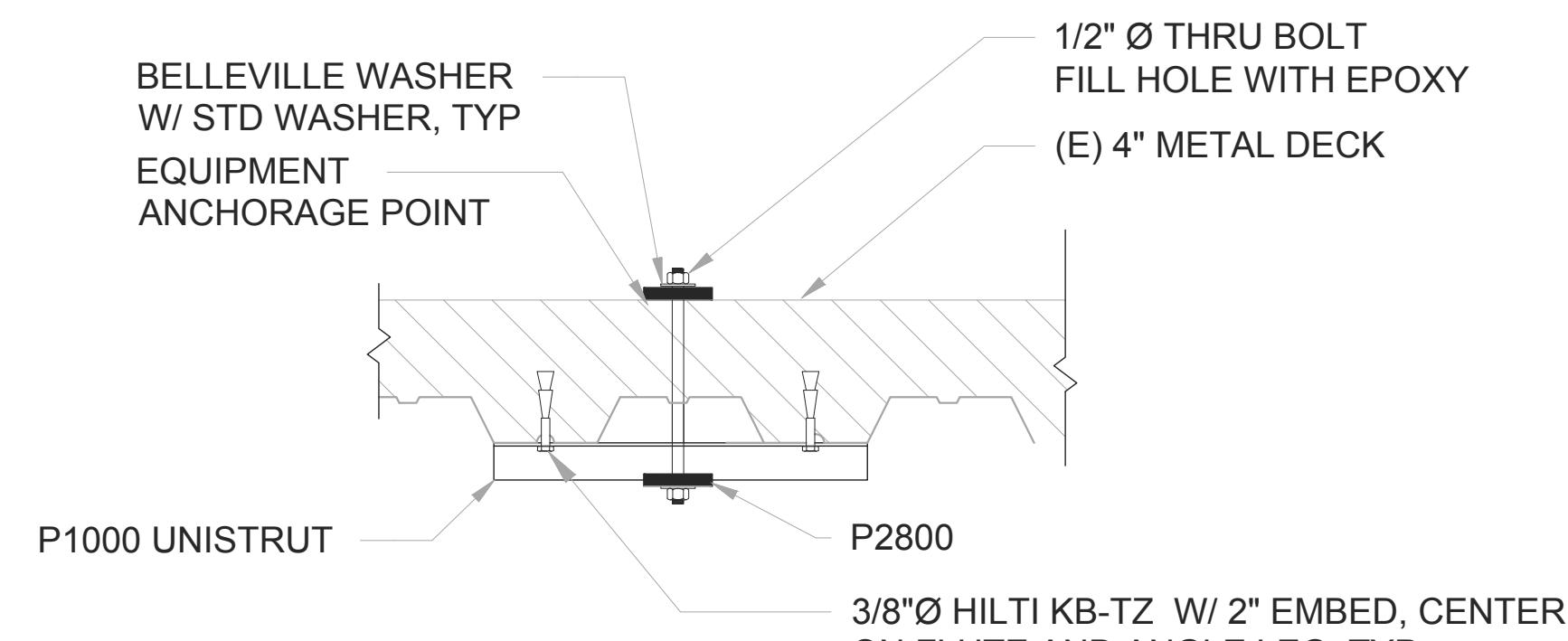


**SECTION B-B**

- NOTES:  
1. SCAN (E) SLAB FOR REINFORCING PRIOR TO DRILLING FOR ANCHORS.  
(E) REINFORCING TO REMAIN UNDAMAGED.  
2. MANUFACTURER TO VERIFY OR PROVIDE CONNECTIONS BETWEEN  
INVERTER CABINETS.  
3. REFER TO STRUCTURAL GENERAL NOTES FOR TESTING OF ANCHORS.

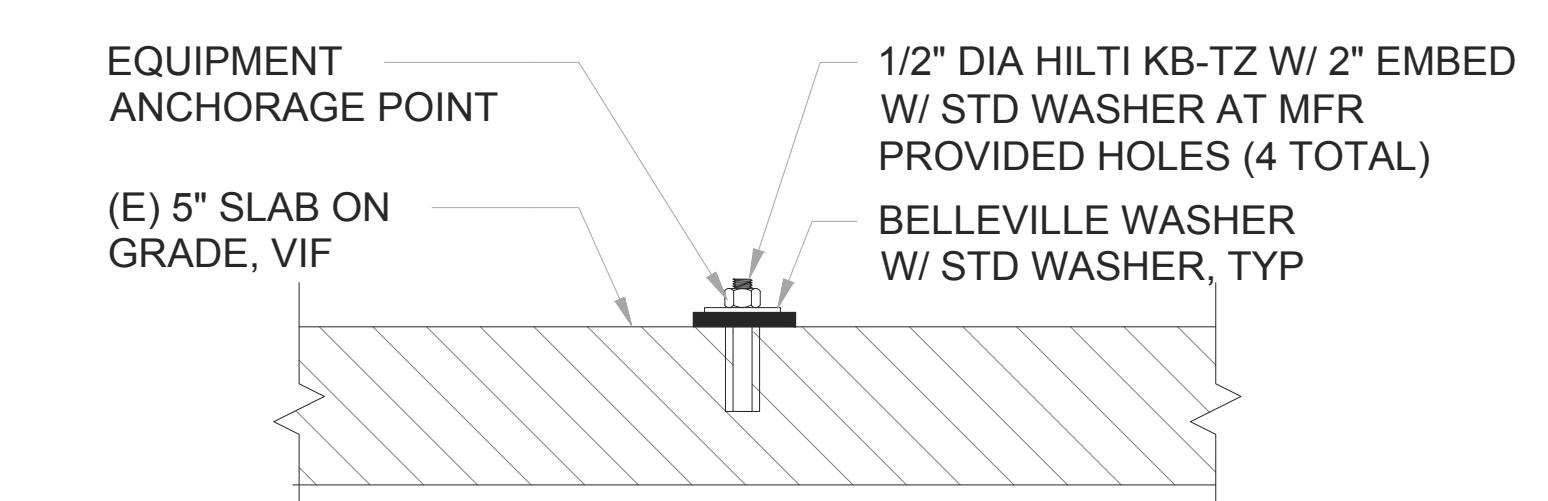
## INVERTER ANCHORAGE DETAIL

E5.1 SCALE: NONE



**SECTION A-A @ ELEVATED FLOORS**

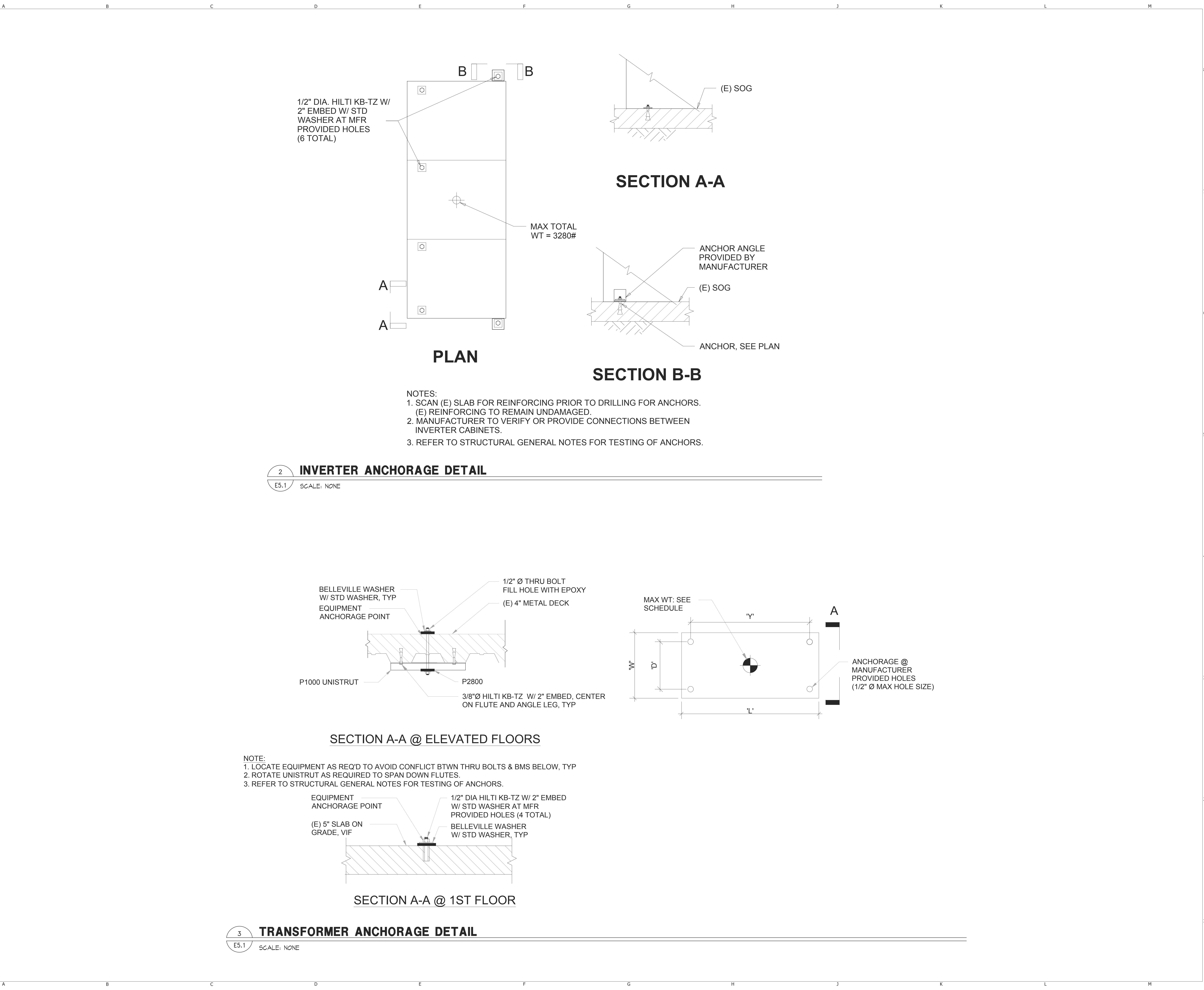
- NOTE:  
1. LOCATE EQUIPMENT AS REQ'D TO AVOID CONFLICT BTWN THRU BOLTS & BMS BELOW, TYP.  
2. ROTATE UNISTRUT AS REQUIRED TO SPAN DOWN FLUTES.  
3. REFER TO STRUCTURAL GENERAL NOTES FOR TESTING OF ANCHORS.



**SECTION A-A @ 1ST FLOOR**

## TRANSFORMER ANCHORAGE DETAIL

E5.1 SCALE: NONE



## NRCC-LTI-E:

STATE OF CALIFORNIA

## Indoor Lighting

NRCC-LTI-E (Created 3/18)

CERTIFICATE OF COMPLIANCE

This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: 1098 Alta Interior

Report Page:

Page 1 of 9

Project Address: 1098 Alta Ave

Date Prepared:

6/6/2019

CALIFORNIA ENERGY COMMISSION

NRCC-LTI-E

This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.

Project Name: 1098 Alta Interior

Report Page:

Page 1 of 9

Project Address: 1098 Alta Ave

Date Prepared:

6/6/2019

<b>A. GENERAL INFORMATION</b>			
01 Project Location (city)	Mountain View	04 Total Conditioned Floor Area (ft <sup>2</sup> )	37,330
02 Climate Zone	4	05 Total Unconditioned Floor Area (ft <sup>2</sup> )	0
03 Occupancy Types Within Project (select all that apply):	Retail Warehouse Hotel/Motel School	06 # of Stories (Habitable Above Grade)	1
<input checked="" type="checkbox"/> Office <input type="checkbox"/> Retail <input type="checkbox"/> Warehouse <input type="checkbox"/> Hotel/Motel <input type="checkbox"/> School <input checked="" type="checkbox"/> Support Areas	<input type="checkbox"/> Garage <input type="checkbox"/> High-Rise Residential <input type="checkbox"/> Relocatable <input checked="" type="checkbox"/> Other (write in):		

<b>B. PROJECT SCOPE</b>				
Table Instructions: include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".				
<b>Scope of Work</b>		<b>Conditioned Spaces</b>	<b>Unconditioned Spaces</b>	
01 My Project Consists of (check all that apply):	02 Calculation Method	03 Area Category	04 Calculation Method	05 Area Category
<input checked="" type="checkbox"/> New Lighting System	37,330			0
<input type="checkbox"/> Altered Lighting System	Add Parking Garage-Complete Bldg Method		Remove Parking Garage	
	Add Altered Lighting System		Remove Last Altered System	
	Total Area of Work (ft <sup>2</sup> )	37,330		0

<b>C. COMPLIANCE RESULTS</b>			
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D for guidance.			
Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(j).1.			
01 Allowed Lighting Power per §140.6(b) (Watts)	02 Actual Lighting Power per §140.6(a) (Watts)	03 Compliance Results	
Complete Building Category	Area Footnotes	Tailored Credits	
\$140.6(c)1	\$140.6(c)2	(+) \$140.6(c)3	
Total	Portable Lighting (Watts)	PAF Control Credits (Watts)	
Designed (Watts)	\$140.6(e)2	\$140.6(e)3	
	(-)	(-)	
		05 Must be ≥ 09	
		Includes Adjustments	
		\$140.6	
(See Table I) (See Table K)	(See Table L)	(See Table F) (See Table R)	
Conditioned:	30,275.9	= 30,275.9 ≥ 27,453.8	= 27,453.8 COMPLIES
Unconditioned:			Controls Compliance (See Table H for Details)
			COMPLIES
			Rated Power Reduction Compliance (See Table S for Details)
			Not Applicable

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards>

March 2018

<b>STATE OF CALIFORNIA</b>	
<b>Indoor Lighting</b>	
NRCC-LTI-E (Created 3/18)	
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F6A	F6A - 5" SUSPENDED DIRECT/INDIRECT	6.8	Mfr. Spec <sup>1</sup>	12	81.6
F9	F9 - 2.5" WALL MOUNTED LINEAR 3.2	3.3	Mfr. Spec <sup>1</sup>	146	481.8
Total Designed Watts CONDITIONED SPACES: 27,453.8					
Reset Add Row Remove Last					

\*NOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

<b>G. TRACK LIGHTING</b>				
Table Instructions: Complete this table for track lighting fixtures indicated on Table F. Luminaire classification and power should be per §130.0(c)7 & 8.				
01	02	03	04	05
Name or Item Tag	Complete Track Description	The Track and Busway <sup>2</sup>	Calculation Method per §130.0(c)7b	Track Wattage
F23	F23 - 11' TRACK	0	i VA Rating of Branch Circuit ii Luminaires vs Default 45 W/ft	iii Current Limiter <sup>3</sup> iv Overcurrent Protection Panel <sup>4</sup>
		Number of track heads on track	x Watts per track head	= Total Watts OR Linear ft of track x Default W/LF = Total Watts
01	02	03	04	05
Name or Item Tag	Complete Track Description	The Track and Busway <sup>2</sup>	Calculation Method per §130.0(c)7b	Track Wattage
F23	F23 - 25' TRACK	0	i VA Rating of Branch Circuit ii Luminaires vs Default 45 W/ft	iii Current Limiter <sup>3</sup> iv Overcurrent Protection Panel <sup>4</sup>
		Number of track heads on track	x Watts per track head	= Total Watts OR Linear ft of track x Default W/LF = Total Watts
8	15	120	25	45 1,125

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards>

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<b>N. ADDITIONAL LIGHTING ALLOWANCE: TAILEDOR WALL DISPLAY</b>	
This Section Does Not Apply	
<b>O. ADDITIONAL LIGHTING ALLOWANCE: TAILEDOR FLOOR AND TASK LIGHTING</b>	
This Section Does Not Apply	
<b>P. ADDITIONAL LIGHTING ALLOWANCE: TAILEDOR ORNAMENTAL/SPECIAL EFFECTS</b>	
This Section Does Not Apply	
<b>Q. ADDITIONAL LIGHTING ALLOWANCE: TAILEDOR VERY VALUABLE MERCHANDISE</b>	
This Section Does Not Apply	
<b>R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF)</b>	
This Section Does Not Apply	
<b>S. RATED POWER REDUCTION COMPLIANCE BY SPACE</b>	
This Section Does Not Apply	

<b>U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION</b>			
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 <a href="http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCC">http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRCC</a> .			
YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCI-LTI-01-E - Must be submitted for all buildings	Pass Fail
<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.	Pass Fail
<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.	Pass Fail
<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.	Pass Fail
<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.	Pass Fail
<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.	Pass Fail

<b>U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE</b>			
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 (ATTCP). For more information visit: <a href="http://www.energy.ca.gov/title24/xtcp/providers.html">http://www.energy.ca.gov/title24/xtcp/providers.html</a>			
YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Pass Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	Pass Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Pass Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	Pass Fail

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2016standards>

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This table is auto-filled with unreadable comments because of selections made or data entered in tables throughout the form.

Track Lighting has been included in this project, details are provided in Table G.

**E. ADDITIONAL REMARKS**

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

**F. INDOOR LIGHTING FIXTURE SCHEDULE**

Table Instructions: Include all permanent designed lighting and all portable lighting in offices.

01	02	03	04	05	06	07	08	09
Name or Item Tag	Complete Luminaire Description	Specialized Luminaire Types	Track	Portable	Watts per luminaire <sup>1</sup>	How Wattage is determined	total number	Exempt per \$140.6(a) <sup>3</sup>
D1	F14 - 5" ACCENT LIGHT				31	Mfr. Spec <sup>1</sup>	10	
F15	F15 - ILLUMINATED MIRROR				38	Mfr. Spec <sup>1</sup>	12	456
F16	F16 - 2" LINEAR 4.6W/FT				4.6	Mfr. Spec <sup>1</sup>	52	389.2
F18	F18 - SLSP LINEAR WALL WASH 4.9W				4.9	Mfr. Spec <sup>1</sup>	30	29.4
F19	F19 - 2X2				43.2	Mfr. Spec <sup>1</sup>	2	60
F1A	F1A - 2" SUSPENDED LINEAR, DIRECT,				15	Mfr. Spec <sup>1</sup>	47	705
F1B	F1B - 2" SUSPENDED LINEAR, DIRECT,				16	Mfr. Spec <sup>1</sup>	74	1,184
F2	F2 - F2 - 6" SUSPENDED PENDANT				28.5	Mfr. Spec <sup>1</sup>	2	57
F20	F20 - 2X2				35	Mfr. Spec <sup>1</sup>	21	735
F21	F21 - F2 - 2X2				18	Mfr. Spec <sup>1</sup>	4	73
F22	F22 - SLSP LINEAR DWNLT 4.6W/FT				4.6	Mfr. Spec <sup>1</sup>	24	110.4
F23	F23 - 11' TRACK				1,125	Mfr. Spec <sup>1</sup>	1	1,125
F23	F23 - 25' TRACK				1,125	Mfr. Spec <sup>1</sup>	1	1,125
F25	F25 - PENDANT MOUNT CONTINUOUS				5.8	Mfr. Spec <sup>1</sup>	382	2,215.6
F26	F26 - CABLE SUSPENDED LINEAR PEN				10	Mfr. Spec <sup>1</sup>	112	1,120
F26A	F26A - CABLE SUSPENDED LINEAR PE				8	Mfr. Spec <sup>1</sup>	96	768
F28	F28 - WALL MOUNTED 2" LINEAR				7.1	Mfr. Spec <sup>1</sup>	24	170.4
F2A	F2A - 6" SUSPENDED PENDANT				24	Mfr. Spec <sup>1</sup>	41	984
F2B	F2B - 6" SUSPENDED PENDANT				33	Mfr. Spec <sup>1</sup>	45	1,485
F2C	F2C - 6" DOWNLIGHT				24</			