

GENERAL NOTES

- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND THE EXACT NATURE AND EXTENT OF THE WORK TO BE PERFORMED. ELECTRICAL CONTRACTOR IS TO TAKE INTO CONSIDERATION SPECIAL OR UNUSUAL FEATURES PECULIAR TO THIS JOB. ALL WORK SHALL BE PER NEC 2011 AND CEC 2013.
- CONTACT UTILITY COMPANIES AND PROVIDE ALL SERVICES, WORK, INSTALLATION AND COORDINATION REQUIRED FOR THEIR USE. PAY ANY CHARGES MADE BY THEM.
- DO ALL WORK PER GOVERNING CODE REQUIREMENTS AND SUBMIT EVIDENCE OF APPROVAL.
- OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS, INSPECTION FEES, ETC.
- COORDINATE WORK WITH ALL OTHER TRADES AND AS REQUIRED FOR FUTURE INCREMENTS OF CONSTRUCTIONS.
- THE ELECTRICAL CONTRACTOR SHALL EXERCISE ALL CONTRACT PLANS IN ORDER TO LOCATE WORK IN COORDINATION WITH THE CONSTRUCTION OF SUCH ITEMS AS CABINETS, BEAMS, FURRING, DOORS, DUCTS, PIPES AND CEILING.
- EXACT LOCATION AND DIMENSIONS OF ALL EQUIPMENT SHALL BE VERIFIED IN FIELD PRIOR TO ORDERING AND INSTALLATION.
- REFER TO MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL/PLUMBING EQUIPMENT RESPECTIVELY.
- REFER TO MECHANICAL CONTROL WIRING DIAGRAMS FOR ITEMS AND DEVICES TO BE FURNISHED, INSTALLED AND/OR CONNECTED BY ELECTRICAL CONTRACTOR FOR COMPLETE AND OPERABLE "HVAC" SYSTEM.
- REFER TO PLUMBING DRAWINGS FOR ITEMS AND DEVICES TO BE FURNISHED, INSTALLED AND/OR CONNECTED BY ELECTRICAL CONTRACTOR.
- INSTALL APPROVED GROUNDING BUSHING AT EACH TERMINATION OF RIGID CONDUIT.
- ALL WIRE SHALL BE NEW, COPPER, THWN OR THHN. ALL CONDUCTORS TO BE RATED AT 75 DEGREES CELSIUS U.O.N.
- PERMANENTLY AND VISIBLY LABEL ALL COVER PLATES WITH CIRCUIT AND VOLTAGE CONTAINED.
- CONDUIT RUNS ARE SHOWN FOR CIRCUITING PURPOSES ONLY AND MAY BE VARIED IF APPROVED IN WRITING.
- PROVIDE A MINIMUM OF 12" SEPARATION BETWEEN POWER AND TELEPHONE CONDUITS WHERE THEY ARE INSTALLED IN THE SAME TRENCH OR CROSS.
- CONDUITS SHALL BE CLEAN OF WATER DEBRIS AND OTHER FOREIGN MATERIAL PRIOR TO PULLING CABLES.
- ALL CONDUITS FOR FUTURE USE SHALL HAVE PULL ROPE LEFT IN PLACE.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT PHASING OF THE BRANCH CIRCUITS OF THE ELECTRICAL PANELS.
- ALL WORK SHALL COMPLY WITH 2013 CALIFORNIA ELECTRICAL CODE.
- ALL ELECTRICAL EQUIPMENT OUTDOORS SHALL BE WEATHERPROOF.
- IT IS THE INTENT OF THESE DRAWINGS THAT THIS BE A COMPLETE ELECTRICAL JOB. ANY DISCREPANCIES OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING THIS JOB IN ORDER TO BE CONSIDERED FOR A CHANGE ORDER.
- ALL CIRCUIT BREAKERS IN PANELS SHALL BE RATED TO WITHSTAND THE AVAILABLE FAULT CURRENT.
- ELECTRICAL CONTRACTOR TO VERIFY IN FIELD THE MOST FEASIBLE WAY OF ROUTING AND COMBINING HOME RUNS AND PERFORM ACCORDINGLY.
- ALL ELECTRICAL OUTLETS LOCATED ON THE KITCHEN COUNTER AND BATH SHOULD BE EQUIPPED WITH GROUND FAULT INTERRUPTIVE DEVICE U.O.N.
- ALL COLORS AND FINISHES OF ELECTRICAL EQUIPMENT AND LIGHTING FIXTURES TO BE VERIFIED WITH OWNER AND/OR ARCHITECT PRIOR TO ORDERING.
- ELECTRICAL CONTRACTOR TO SIZE ALL J-BOXES AS PER TABLE 314-16a. ALL J-BOXES TO BE SQUARE 4" x 2" - 1/8" MINIMUM. ALL J-BOXES TO BE READILY ACCESSIBLE.
- ALL PANELBOARDS, SWITCHBOARDS, ETC. SHALL BE RATED AT 75 DEGREES CELSIUS.
- THE MAXIMUM LENGTH OF SOLAR EXPOSED CONDUITS SHALL NOT EXCEED 4 FEET.
- REFER TO ARCHITECTURAL OR SPACE PLANNING DRAWINGS FOR EXACT LOCATION OF LIGHTING FIXTURES, OUTLETS, FURNITURE AND OTHER EQUIPMENT. IN CASE OF ANY DISCREPANCY BETWEEN THE ARCHITECTURAL OR ELECTRICAL DRAWINGS, THE FORMER TAKES PRECEDENCE. ELECTRICAL CONTRACTOR TO INFORM THE ENGINEER IMMEDIATELY.
- FUSES SPECIFIED FOR MOTORS AND AIR CONDITIONING EQUIPMENT 600A AND UNDER SHALL BE TIME DELAY DUAL ELEMENT TYPE FRN-R (250V) AND FR5-R (600V) CLASS "L" U.O.N. ALL FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDER.
- ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF SAN BERNARDINO RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT.
- UNLESS INFORMED OTHERWISE IN WRITING, THIS PROJECT HAS BEEN DETERMINED TO REQUIRE THE LOCAL CITY AUTHORITIES PLAN CHECK APPROVAL AND VALID PERMIT IN ACCORDANCE WITH THE LAW. ALL DESIGN WORK INDICATED ON PLANS AND SPECIFICATIONS IS SUBJECT TO REVIEW AND CHANGES BY SAID PLAN CHECK AUTHORITIES. THE OWNER AND THE ENGINEER CAN NOT BE RESPONSIBLE FOR ANY EXTRA WORK REQUIRED BY PLAN CHECK AND/OR ANY OTHER AGENCIES ADDITIONAL REQUIREMENTS.
- DO NOT ORDER ANY EQUIPMENT OR PERFORM ANY WORK OVER \$500 IN TOTAL VALUE ON THE JOB UNTIL THE COMPLETION OF THE PLAN CHECK APPROVAL PROCESS AND OBTAINING OF ALL REQUIRED PERMITS. INSTALLATION OF ANY EQUIPMENT WITHOUT VALID PERMITS, WHEN REQUIRED, IS A VIOLATION OF THE CODE.
- UNDER THE STATE OF CALIFORNIA CONTRACTORS STATE LICENSE BOARD REGULATIONS, ALL CONTRACTORS ARE REQUIRED TO ADHERE TO THE LOCAL CODES AND LAWS WITHOUT EXCEPTION.
- ELECTRICAL CONTRACTOR TO OBTAIN ARCHITECTURAL/OWNER APPROVAL OF ALL LIGHTING FIXTURES SPECIFIED FOR THE PROJECT PRIOR TO ORDERING.
- ELECTRICAL CONTRACTOR IS TO PROVIDE 42" CLEARANCE IN FRONT OF ANY ELECTRICAL EQUIPMENT RATED ABOVE 250 V (277/480 V SYSTEM), AND 36" CLEARANCE IN FRONT OF ANY ELECTRICAL EQUIPMENT RATED BELOW 250 V (120/208 V AND 120/240 V SYSTEMS). ELECTRICAL CONTRACTOR IS TO PROVIDE 30" IN WIDTH IN FRONT OF ALL ELECTRICAL EQUIPMENT AS REQUIRED BU CODE FOR PROPER MAINTENANCE.

- ELECTRICAL CONTRACTOR IS TO COMPLY WITH THE LATEST HANDICAPPED REQUIREMENTS RELATED TO THE HEIGHT OF THE OUTLETS, SWITCHES AND OTHER EQUIPMENT (NOT TO EXCEED 48").
- ALL WIRING SHALL BE IN METALLIC CONDUIT.
- ALL EQUIPMENT CIRCUITS SHALL BE PROVIDED WITH GREEN INSULATED GROUND WIRE, SIZED PER NEC TABLE 250-122.
- NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE SPACE ABOVE THE ELECTRICAL EQUIPMENT.

TITLE 24

STATE OF CALIFORNIA
INDOOR LIGHTING
CALIFORNIA ENERGY COMMISSION

CEC-NRCC-LTI-01-E (Revised 08/14)
CERTIFICATE OF COMPLIANCE
Indoor Lighting
Project Name: OPTION FOR YOUTH Date Prepared: 11/04/2015

NRCC-LTI-01-E
(Page 1 of 5)

Climate Zone:	Conditioned Floor Area:	4,235
9	Unconditioned Floor Area:	

General Information

Building Type:	<input checked="" type="checkbox"/> Nonresidential	<input type="checkbox"/> High-Rise Residential	<input type="checkbox"/> Hotel/Motel
<input type="checkbox"/> Schools	<input type="checkbox"/> Relocatable Public Schools	<input type="checkbox"/> Conditioned Spaces	<input type="checkbox"/> Unconditioned Spaces
Phase of Construction:	<input type="checkbox"/> New Construction	<input type="checkbox"/> Addition	<input checked="" type="checkbox"/> Alteration
Method of Compliance:	<input type="checkbox"/> Complete Building	<input checked="" type="checkbox"/> Area Category	<input type="checkbox"/> Tailored

LIGHTING COMPLIANCE DOCUMENTS (select yes for each document included)

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

YES	NO	FORM	TITLE
YES		NRCC-LIT-01-E	Certificate of Compliance. All Pages required on plans for all submittals.
YES		NRCC-LIT-02-E	Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals.
YES		NRCC-LIT-03-E	Indoor Lighting Power Allowance
	NO	NRCC-LIT-04-E	Tailored Method Worksheets
	NO	NRCC-LIT-05-E	Line Voltage Track Lighting Worksheets

Summary of Allowed Lighting Power

Conditioned and Unconditioned space Lighting must not be combined for compliance		Indoor Lighting Power for Unconditioned Spaces	
Indoor Lighting Power for Conditioned Spaces		Indoor Lighting Power for Unconditioned Spaces	
	Watts		Watts
1.	Installed Lighting NRCC-LTI-01-E, page 4 3,584	Installed Lighting NRCC-LTI-01-E, page 4	
2.	PORTABLE ONLY FOR OFFICES NRCC-LTI-01-E, page 3 0		
3.	Minus Lighting Control Credits NRCC-LTI-02-E, page 2 0	Minus Lighting Control Credits NRCC-LTI-02-E, page 2	
4.	Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3) 3,584	Adjusted Installed Lighting Power (row 1 minus row 3)	

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING
CALIFORNIA ENERGY COMMISSION

CEC-NRCC-LTI-01-E (Revised 08/14)
CERTIFICATE OF COMPLIANCE
Indoor Lighting
Project Name: OPTION FOR YOUTH Date Prepared: 11/04/2015

NRCC-LTI-01-E
(Page 2 of 5)

5.	Complies ONLY if Installed ≤ Allowed	Complies ONLY if Installed ≤ Allowed
6.	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 5,384	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1

Declaration of Required Installation Certificates - Declare by selecting yes for all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
YES		NRCI-LTI-01-E - Must be submitted for all buildings	<input type="checkbox"/> Field Inspector
YES		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.	<input type="checkbox"/> Field Inspector
	NO	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.	<input type="checkbox"/> Field Inspector
	NO	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.	<input type="checkbox"/> Field Inspector
	NO	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	<input type="checkbox"/> Field Inspector
	NO	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	<input type="checkbox"/> Field Inspector

Declaration of Required Certificates of Acceptance - Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

YES	NO	Form/Title	
YES		NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	<input type="checkbox"/> Field Inspector
	NO	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	<input type="checkbox"/> Field Inspector
	NO	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	<input type="checkbox"/> Field Inspector

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

SYMBOLS

- OUTLETS**
- ⊕ DUPLEX RECEPTACLE (120 VOLT)
 - ⊕ RECEPTACLE (220 VOLT) RATING AS SHOWN ON DRAWING
 - ⊕ WEATHERPROOF RECEPTACLE
 - ⊕ GROUND FAULT RECEPTACLE PROVIDE W.P. FOR OUTDOOR INSTALLATION
 - ⊕ DUPLEX RECEPTACLE CONNECTED TO ARC FAULT PROTECTED CIRCUIT
 - ⊕ DOUBLE DUPLEX RECEPTACLE
 - ⊕ FLUSH FLOOR RECEPTACLE, DUPLEX
 - ▼ TELEPHONE OUTLET, RUN 3/4"C.O. UP TO ABOVE ACCESSIBLE CEILING.
 - ▽ COMPUTER OUTLET, RUN 3/4"C.O. UP TO ABOVE ACCESSIBLE CEILING.
 - ⊕ CEILING JUNCTION BOX
 - ⊕ JUNCTION BOX FOR FUTURE USE
 - ⊕ WALL JUNCTION BOX
 - v.k. VOLUME KNOB
- CIRCUITRY and RACEWAYS**
- CIRCUIT UP
 - CIRCUIT DOWN
 - 2 — 12CU 1/2"C U.O.N.
 - 3 — 12CU 1/2"C U.O.N.
 - 4 — 12CU 1/2"C U.O.N.
 - 5 — 12CU 1/2"C U.O.N.
 - 6 — 12CU 1/2"C U.O.N.
 - 7 — 12CU 1/2"C U.O.N.
 - 8 — 12CU 1/2"C U.O.N.
 - 9 — 12CU 1/2"C U.O.N.
 - #10 2 — 10CU 1/2"C U.O.N.
 - #10 3 — 10CU 1/2"C U.O.N.
 - #10 4 — 10CU 1/2"C U.O.N.
 - #10
 - "RUN CONTINUES" INDICATION
 - 1,3
 - TELEPHONE CONDUIT
 - POWER CONDUIT
 - CONDUIT INSTALLED UNDERFLOOR
- SWITCHES**
- \$ MANUAL MOTOR STARTER (HP RATED) WITH OL'S
 - \$ SINGLE-POLE SWITCH
 - \$ SINGLE-POLE SWITCH W/PILOT LIGHT
 - \$ THREE-WAY SWITCH
 - \$ FOUR-WAY SWITCH
 - \$ WEATHERPROOF SWITCH
 - \$ LOWER CASE SUBSCRIPT LETTER INDICATES FIXTURE CONTROLLED
 - \$ INCANDESCENT DIMMER SWITCH
- MECHANICAL**
- ⊕ CEILING EXHAUST FAN (1/X HP U.O.N.)
 - ⊕ PUSHBUTTON
- CONTROL**
- ⊕ THERMOSTAT (line voltage U.O.N. furnished by M/C U.O.N.)
- DESIGNATIONS**
- # DETAIL NOTE
 - A INDICATES FIXTURE TYPE
 - 72 INDICATES FIXTURE WATTAGE
- SERVICE and EQUIPMENT**
- ⊕ TRANSFORMER, DRY (KVA shown)
 - PANELBOARD
 - TELEPHONE TERMINAL BOARD
 - ⊕ GROUND CONNECTION PER N.E.C.
- ABBREVIATIONS**
- UON UNLESS OTHERWISE NOTED
 - VL VERIFY LOCATION
 - WP WEATHERPROOF

SCOPE OF WORK

THE SCOPE OF WORK IS TO REMODEL FIRST FLOOR OF THE EXISTING TWO STORY BUILDING AND PROVIDE LIGHTING AND POWER, INCLUDING TITLE-24, LIGHTING ENERGY REQUIREMENTS.



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909.944.8409 FAX.
www.AmorArch.com

CLIENT



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PASADENA, CA 91107
PHONE: (626) 921-8260
www.mvanallen@lupineproperties.com

CONSULTANT

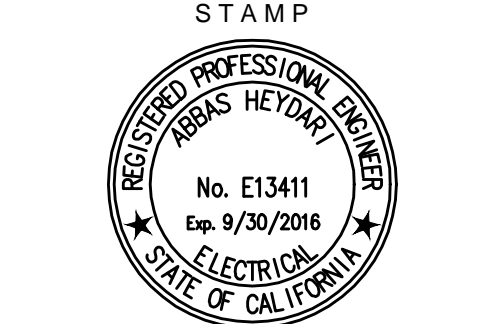


PROJECT LOCATION
1148 E. HIGHLAND AVENUE
SAN BERNARDINO, CA 92404

SHEET TITLE

GENERAL NOTES, SYMBOL LISTS
AND TITLE 24 FORMS

STAMP



REVISIONS

△	CITY SUBMITTAL: 11.12.15
△	P.C. SUBMITTAL: 01.14.16
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DATE: 10.28.15
PROJECT NUMBER: A1384

SHEET NUMBER
E1.1

Plotted: 1/18/2016 10:28:38 PM (abbas) File: e1-1-16.dwg

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 07/14)

INDOOR LIGHTING CERTIFICATE OF INSTALLATION
NRCI-LTI-01-E (Page 1 of 2)

Project Name: OPTION FOR YOUTH
Project Address: 1148 E. HIGHLAND AVENUE
City: SAN BERNARDINO, CA
Enforcement Agency:
Permit Number:
Zip Code: 92404

GENERAL INFORMATION

DATE OF BUILDING PERMIT: _____ PERMIT # _____

BUILDING TYPE: Nonresidential High-Rise Res (Common Area) Hotel/Motel (Common Area)

PHASE OF CONSTRUCTION: New Construction Addition Alteration Unconditioned

SCOPE OF RESPONSIBILITY
Enter the date of approval by enforcement agency of the Certificate of Compliance that provides the specifications for the energy efficiency measures for the scope of responsibility for this Installation Certificate. Date: _____

In the table below identify all applicable construction documents that specify the requirements for the scope of responsibility reported by this Installation Certificate (continued).

Document Title or Description	Applicable Sheets or Pages, Tables, Schedules, etc.	Date Approved by the Enforcement Agency

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance July 2014

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 06/14)

INDOOR LIGHTING POWER ALLOWANCE CERTIFICATE OF COMPLIANCE
NRCCT-LTI-03-E (Page 1 of 4)

Project Name: OPTION FOR YOUTH
Date Prepared: 11/04/2015

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

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

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

	(a)	(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		5,384
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E		
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1		
<input type="checkbox"/> Check here if building contains both conditioned and unconditioned areas.		

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

A	B	C	D
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER (ft²)	COMPLETE BLDG. AREA	ALLOWED WATTS
Total Area:			
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)			

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (C-2 plus C-3)

Section	Watts
Total from section C-2	5,384
Total from section C-3	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	5,384

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 06/14)

INDOOR LIGHTING POWER ALLOWANCE CERTIFICATE OF COMPLIANCE
NRCCT-LTI-03-E (Page 2 of 4)

Project Name: OPTION FOR YOUTH
Date Prepared: 11/04/2015

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

C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
 Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B	C	D
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER (ft²)	AREA (ft²)	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C	X	=	
MAIN LOBBY 100	LOBBY			
WAITING AREA AT LOBBY 100	WAITING	1.1	400	440
CLASS ROOM 112	CLASS ROOM	1.2	343	411
CLASS ROOM 113	CLASS ROOM	1.2	342	410
CLASS ROOM 114	CLASS ROOM	1.2	342	410
OPEN AREA 111	MULTIPURPOSE ROOM	1.4	1609	2252
LAB ROOM 102	LAB	1.4	262	366
BREAK ROOM 103	LOUNGE	1.1	253	278
STAFF REST ROOM 106	CONFERENCE	0.6	85	51
HALLWAY 107	CORRIDOR/ HALLWAY	0.6	112	67
IT ROOM 108	IT ROOM	0.7	38	26
TOTALS			4,235	5,384

Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance form) **5,384** WATTS

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING
CEC-NRCC-LTI-01-E (Revised 07/14)

INDOOR LIGHTING CERTIFICATE OF INSTALLATION
NRCI-LTI-01-E (Page 2 of 2)

Project Name: OPTION FOR YOUTH
Project Address: 1148 E. HIGHLAND AVE.
City: SAN BERNARDINO, CA
Enforcement Agency:
Permit Number:
Zip Code: 92404

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Installation documentation is accurate and complete.

Documentation Author Name: _____
Documentation Author Company Name: _____
Address: _____
City/State/Zip: _____
Date Signed: _____
CEA/HERS Certification Identification (if applicable): _____
Phone: _____

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Installation is true and correct.
- I am eligible under Division 3 of the Business and Professions Code in the applicable classification to accept responsibility for the system design, construction, or installation of features, materials, components, or manufactured devices for the scope of work identified on this Certificate of Installation and attest to the declarations in this statement (responsible builder/installer), otherwise I am an authorized representative of the responsible builder/installer.
- The constructed or installed features, materials, components or manufactured devices (the installation) identified on this Certificate of Installation conforms to all applicable codes and regulations, and the installation conforms to the requirements given on the plans and specifications approved by the enforcement agency.
- I reviewed a copy of the Certificate of Compliance approved by the enforcement agency that identifies the specific requirements for the scope of construction or installation identified on this Certificate of Installation, and I have ensured that the requirements that apply to the construction or installation have been met.
- I will ensure that a completed signed copy of this Certificate of Installation shall be posted, or 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 Installation is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Builder/Installer Name: _____
Responsible Builder/Installer Signature: _____
Company Name: (Installing Subcontractor or General Contractor or Builder/Owner) _____
Position With Company (Title): _____
Address: _____
City/State/Zip: _____
Phone: _____
Date Signed: _____

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance July 2014

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 06/14)

INDOOR LIGHTING POWER ALLOWANCE CERTIFICATE OF COMPLIANCE
NRCCT-LTI-03-E (Page 3 of 4)

Project Name: OPTION FOR YOUTH
Date Prepared: 11/04/2015

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

C-3 AREA CATEGORY METHOD Additional Lighting Wattage Allowance (from Table 140.6-C Footnotes)

A	B	C ²	D	E	F	G
Primary Function	Sq Ft or linear ft ¹	Additional Watts Allowed	Wattage Allowance (B x C)	Description(s) and Quantity of Special Luminaire Types in each Primary Function Area	Total Design Watts ³	ALLOWED WATTS Smaller of D or F
N/A				N/A		
TOTALS - Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES - Section C-1						

1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot.
2. Additional watts are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing Studio lighting.
3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards.

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
CEC-NRCC-LTI-03-E (Revised 06/14)

INDOOR LIGHTING POWER ALLOWANCE CERTIFICATE OF COMPLIANCE
NRCCT-LTI-03-E (Page 2 of 4)

Project Name: OPTION FOR YOUTH
Date Prepared: 11/04/2015

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

C-2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE

Do not include portable lighting for offices. Portable lighting for offices shall be documented only in section B of NRCC-LTI-01-E.
 Separately list lighting for each primary function area as defined in §100.1 of the Standards.

A		B	C	D
AREA CATEGORY (From §140.6 Table 140.6-C)		WATTS PER (ft²)	AREA (ft²)	ALLOWED WATTS
Location in Building	Primary Function Area per Table 140.6-C	X	=	
TOTALS				

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

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance June 2014

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Architectural Corporation

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CLIENT



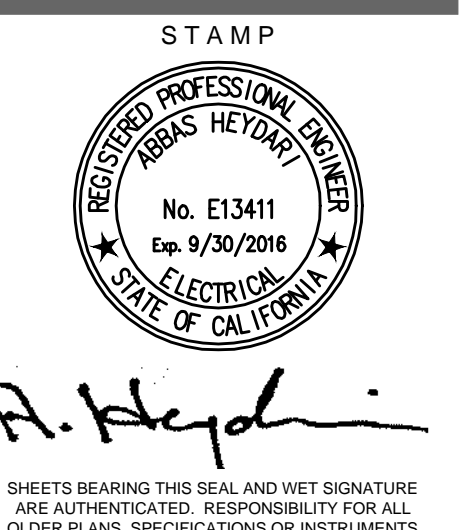
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CONSULTANT

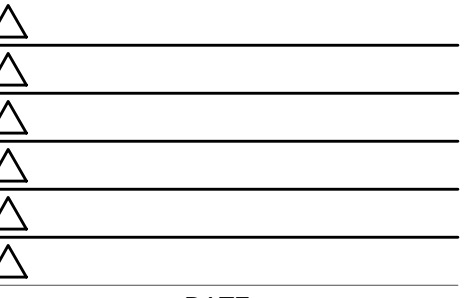
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OPTIONS FOR YOUTH
1148 E. HIGHLAND AVENUE
SAN BERNARDINO, CA 92404

PROJECT LOCATION
SHEET TITLE



REVISIONS
CITY SUBMITTAL: 11.12.15
P.C. SUBMITTAL: 01.14.16



DATE
10.28.15
PROJECT NUMBER
A1384

SHEET NUMBER
E1.3

Plotted: 1/16/2016 5:25 AM (dabas) File: e-1-a.dwg

Compliance Manual, Chapter 8, Table 8.2: Typical Power Factors for Voltage Drop Calculations

Load Type	Default Power Factor at 120 volts	Default Power Factor at 277 volts	Clarifying Notes
Fluorescent lighting	0.95	0.95	
Compact fluorescent lighting	0.9 (hardwired) 0.5 (GU-24)	0.9 (hardwired) 0.3 (GU-24)	NPF magnetic ballasts use GU-24 values
LED lighting	0.7	0.5	May be higher if specifications call for high power factor drivers
Incandescent lighting	1.0	1.0	
HID lighting	0.9	0.9	May be lower if NPF ballasts are specified
HVAC packages	0.85	0.9	
Other motors <5 HP	0.8	0.8	
Other motors >5 HP	0.85	0.85	
Kitchen equipment	0.9	N/A	
Receptacles	0.6	N/A	For dedicated receptacles, may be rated according to the load
Electric heating including hot water	1.0	1.0	
Other	0.85	0.85	

- D. Circuit Controls for 120-Volt Receptacles**
- Controlled 120 volt receptacles shall be provided, as required by Section 130.5(d) of the Standards.
 - In open office areas, controlled circuit receptacles are not required if, at time of final permit, workstations are installed, and each workstation is equipped with an occupant sensing control that is permanently mounted in each workstation, and which controls a hardwired, nonresidential-rated power strip. Plug-in strips and other plug-in devices that incorporate an occupant sensor shall not be used for this exception.
 - Receptacles that are only for the following purposes are exempt:
 - Receptacles specifically for refrigerators and water dispensers in kitchenettes.
 - Receptacles located a minimum of six feet above the floor that are specifically for clocks.
 - Receptacles for network copiers, fax machines, A/V and data equipment other than personal computers in copy rooms.

	Field Inspector	
	Pass	Fail
1. At least one controlled receptacle is installed within 6 feet of each uncontrolled receptacle, or split-wired duplex receptacles are installed, that have one controlled and one uncontrolled receptacle. This applies in all of the following spaces: <ul style="list-style-type: none"> • Private offices, open office areas • Receptions and lobbies • Conference rooms • Kitchenettes in office spaces • Copy room 	<input type="checkbox"/>	<input type="checkbox"/>
2. Electric circuits serving controlled receptacles are equipped with automatic shut-OFF controls following the requirements prescribed in Section 130.1(c)1 through 5 (in many cases this will mean that the receptacles are connected to the same automatic shut-OFF system as the general lighting of the space).	<input type="checkbox"/>	<input type="checkbox"/>
3. Controlled receptacles shall have a permanent marking to differentiate them from uncontrolled receptacles.	<input type="checkbox"/>	<input type="checkbox"/>
4. For open office areas, controlled circuits shall be provided and marked to support installation and configuration of office furniture with receptacles that comply with Section 130.1(a)130.5(d) 1, 2, and 3.	<input type="checkbox"/>	<input type="checkbox"/>
5. For hotel and motel guest rooms at least one-half of the 120-volt receptacles in each guest room are controlled receptacles that comply with Section 130.5(d)1, 2, and 3 (see numbers 1,2 and 3 above). Electric circuits serving controlled receptacles have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacated, power is switched off.	<input type="checkbox"/>	<input type="checkbox"/>
6. Plug-in strips and other plug-in devices that incorporate an occupant sensor are not used to comply with any of these requirements.	<input type="checkbox"/>	<input type="checkbox"/>

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: ABBAS HEYDARI Documentation Author Signature: A. Heydari

Company: NATIONAL ENGINEERING & CONSULTING, INC. Signature Date: 11/10/2015

Address: 27 ORCHARD, SUITE 200 CEA/HERS Certification Identification (if applicable): E13411

City/State/Zip: LAKE FOREST, CA 92630 Phone: 949-716-9990

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: ABBAS HEYDARI Responsible Designer Signature: A. Heydari

Company: NATIONAL ENGINEERING & CONSULTING, INC. Date Signed: 11/10/2015

Address: 27 ORCHARD, SUITE 200 License: E13411

City/State/Zip: LAKE FOREST, CA 92630 Phone: 949-716-9990

LIGHTING CONTROLS SYMBOL LIST

Symbol	Qty	Part Number	Description
	1	LEVTON GREENMAX	LEVTON GREENMAX 16-RELAY LIGHTING CONTROL PANEL
	3	LEVTON MZ22-102	MINIZ CONTROLLER, DIMMING MODEL, DUAL ROOM, 2 RELAY 120V-277V
	7	LEVTON PCND	PCND (SEE CUTSHEET FOR MOUNTING INFO) PHOTOCELL
	1	LEVTON PCOUT	PCOUT (SEE CUTSHEET FOR MOUNTING INFO) PHOTOCELL
	14	LEVTON OSC20-MOW	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR
	8	LEVTON ROGSW-4CW	GREENMAX DIGITAL DECORA SWITCH, 4 BUTTON, 1 GANG
	6	LEVTON RLVSW-4LW	IRC/MINIZ 4-BUTTON DIMMER SWITCH
	6	LEVTON OS15-IDW	OS15-IDW WALL SWITCH SENSOR PIR ONLY SINGLE RELAY
	5	LEVTON OPP20-0D1	20AMP STANDARD POWER PACK WITH MECHNICAL LATCHING RELAY

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SHEET TITLE
 TITLE 24 FORMS

STAMP

REGISTERED PROFESSIONAL ENGINEER
 ABBAS HEYDARI
 No. E13411
 Exp. 9/30/2016
 ELECTRICIAN
 STATE OF CALIFORNIA

A. Heydari

REVISIONS

△	CITY SUBMITTAL: 11.12.15
△	P.C. SUBMITTAL: 01.14.16
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PROJECT NUMBER
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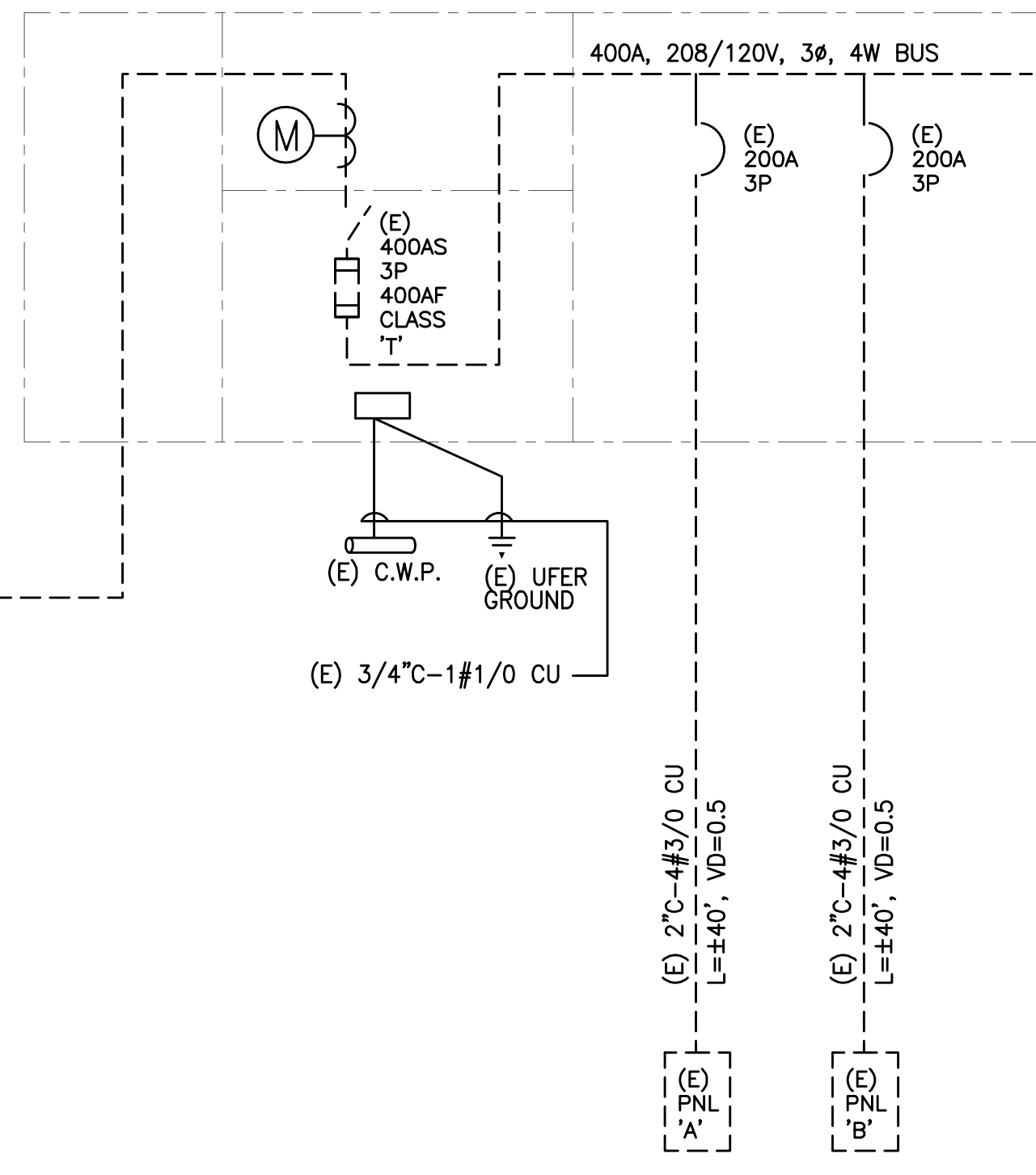
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E1.5

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GENERAL NOTES:

1. ALL DEVICES SHOWN ON SINGLE LINE DIAGRAM WITH DASHED LINE ARE EXISTING.

SINGLE LINE DIAGRAM

MOUNTING: SURFACE		ELECT. RM.		VOLTS 120/208		MAIN BUS 200 AMP		MLO 10 KAIC	
LOCATION:				PHASE 3		BUS		MLO	
				WIRE 4		A.I.C.		10 KAIC	
NO	LOCATION	A	B	C	LOCATION	A	B	C	NO
1	(E) 2ND FLOOR OFFICE	1080			(E) RFRIG.				1
1	(E) 2ND FLOOR OFFICE	900			(E) DISPOSAL				1
1	(E) FOYER		1050		(E) LOUNGE				1
1	(E) FRONT SOFIT	1050			(E) COMPUTER				1
2	SPARE				(E) CONV. OUTLETS				1
1	(E) SOFFIT		1050		(E) CONV. OUTLETS				1
2	SPARE				(E) COMPUTER				1
2	(N) LIGHTING		913		(E) CONV. OUTLETS				1
2	SPARE				(E) SIGN				1
2	(N) LIGHTING	1407			(E) COMPUTERS				1
2	(N) LIGHTING		640		(E) COMPUTERS				1
2	(N) LIGHTING			876	(E) COMPUTERS				1
2	SPARE				(E) CONV. OUTLETS				1
1	(E) SOFFIT SIGN LTG.		1200		(E) CONV. OUTLETS				1
1	(E) PKG. LOT		1200		(E) SIGN				1
1	(E) PKG. LOT	600			(E) CONV. OUTLETS				1
1	(E) PKG. LOT		600		(E) COMPUTERS				1
1	(E) CAR SENSOR			600	(E) CAR SENSOR				1
1	(E) IRRIGATION CONT.	200			(E) CONV. OUTLETS				1
1	(E) MTTB		180		(E) COMPUTER				1
1	SPACE				SPACE				1
TOTAL VA=		31926 W/LCL= 35368		AMPS= 98		TOTAL LCL= 13766 X .25 = 3442			
HIGH PHASE VA=		11533 W/LCL= 12771		HIGH PHASE AMPS= 106		HIGH PHASE LCL= 4953 X .25 = 1238			

MOUNTING: SURFACE		ELECT. RM.		VOLTS 120/208		MAIN BUS 200 AMP		MLO 10 KAIC	
LOCATION:				PHASE 3		BUS		MLO	
				WIRE 4		A.I.C.		10 KAIC	
NO	LOCATION	A	B	C	LOCATION	A	B	C	NO
1	(E) AC-4	2680			(E) AC-5				1
1	-		2680		(E) DISPOSAL				1
1	(E) AC-4	2680	2680		(E) LOUNGE				1
1	-				(E) COMPUTER				1
1	(E) AC-4	2680			(E) CONV. OUTLETS				1
1	-		2680		(E) CONV. OUTLETS				1
1	-			2680	(E) COMPUTER				1
1	(E) TIME CLOCK	200			(E) ROOF RECEPT.				1
1	(E) WATER HTR.	1500			(E) ROOF RECEPT.				1
1	SPARE				(E) OUTDOOR RECEPT.				1
1	(E) SIGN	1200			(N) SGI CLASS RM. 112	3.4			3.4
1	SPARE				(N) SGI CLASS RM. 113	3.4			3.4
1	(E) 1/4 HP GATE		600		(N) SGI CLASS RM. 114	3.4			3.4
3.4	(N) SGI LAB/CLASS	900			SPACE				
3.4	(N) SGI LAB/CLASS		900		SPACE				
3.4	(N) SGI LAB/CLASS			900	SPACE				
3	(N) WATER HEATER	750			SPACE				
3	SPACE		750		SPACE				
3	SPACE				SPACE				
3	SPACE				SPACE				
TOTAL VA=		49124 W/LCL= 52187		AMPS= 145		TOTAL LCL= 12252 X .25 = 3063			
HIGH PHASE VA=		17138 W/LCL= 18059		HIGH PHASE AMPS= 150		HIGH PHASE LCL= 3684 X .25 = 921			

PANELS NOTES:

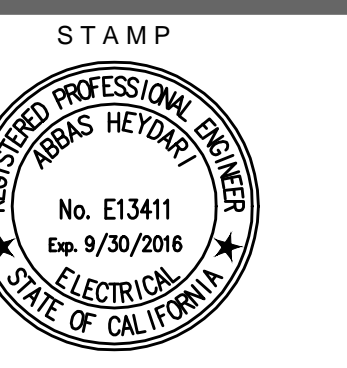
1. EXISTING CIRCUIT WITH EXISTING CIRCUIT BREAKER TO REMAIN.
2. MODIFIED LOAD WITH EXISTING CIRCUIT BREAKER.
3. NEW LOAD WITH NEW CIRCUIT BREAKER. NEW CIRCUIT BREAKER SHALL MATCH THE EXISTING.
4. PROVIDE HANDLE TIE FOR BRANCH CIRCUIT BREAKERS SERVING EACH MULTIWIRED BRANCH CIRCUIT THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS PER CEC ARTICLE 210.4B.

PROJECT LOCATION
1148 E. HIGHLAND AVENUE
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SHEET TITLE
SINGLE LINE DIAGRAM, PANELS AND
FIXTURE SCHEDULES

PROJECT LOCATION

SHEET TITLE



A. Hegal

REGISTRATION NO. E13411
EXPIRES 9/30/2016
STATE OF CALIFORNIA

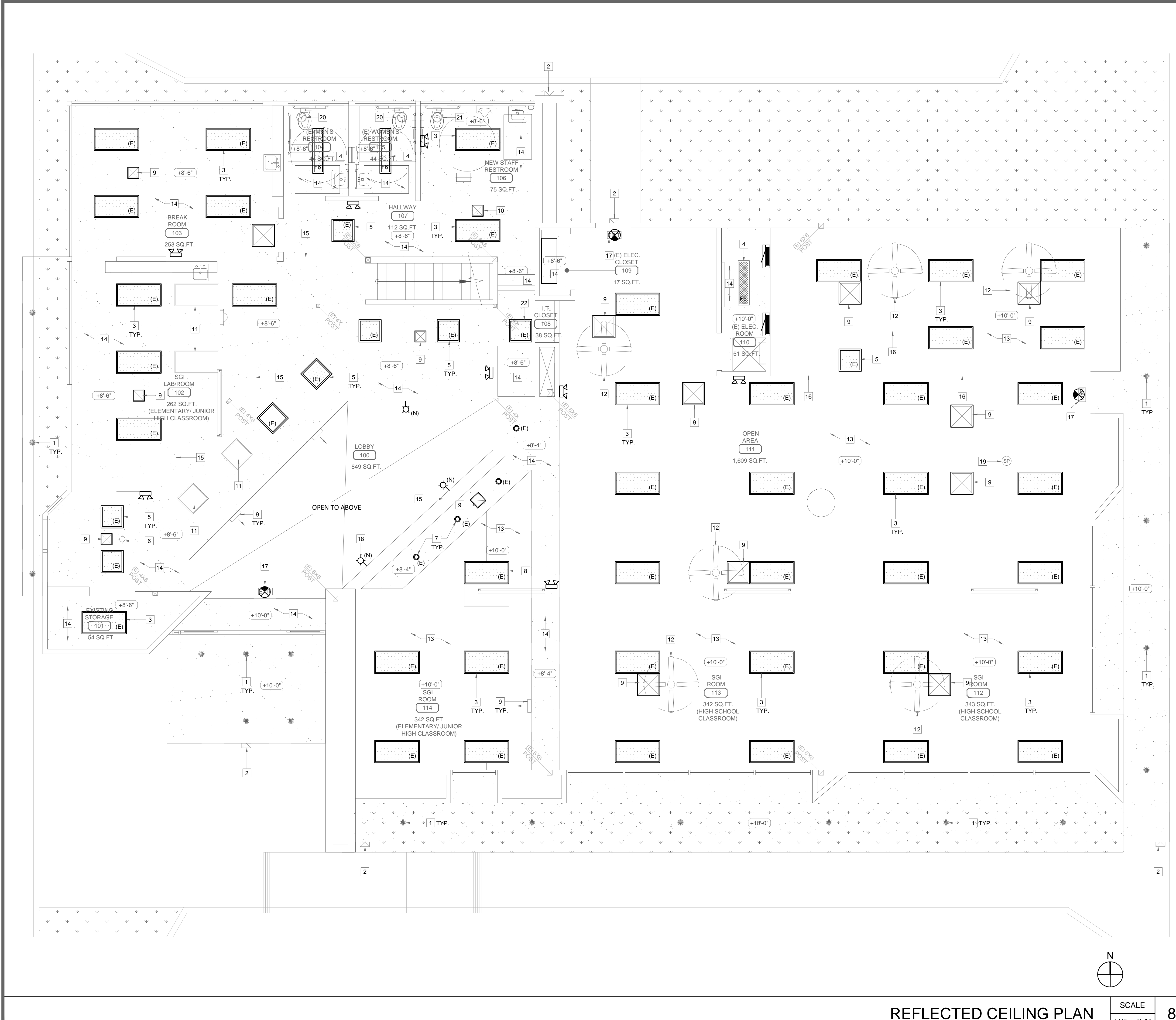
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E1.6



LEGEND

- 2x4 RECESSED MOUNTED FLUORESCENT LIGHT FIXT.
(E)= EXISTING, REPLACE WITH NEW RECESSED 2'x4' LED
- 1x4 SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE
REPLACE WITH NEW SURFACE 4' LED
- 1x4 RECESSED MOUNTED FLUORESCENT LIGHT FIXT.
REPLACE WITH NEW RECESSED 4' LED
- 2x2 RECESSED MOUNTED FLUORESCENT LIGHT FIXT.
(E)= EXISTING TO BE REPLACED BY NEW 2'x4' LED
- (E) EXISTING RECESSED DOWNLIGHT TO BE REPLACED WITH NEW RECESSED LED
- (E) EXISTING EXTERIOR RECESSED DOWNLIGHT TO REMAIN
- ⊠ SUPPLY AIR DIFFUSER TO REMAIN
- ⊞ RETURN AIR DIFFUSER TO REMAIN
- ⊠ EXHAUST FAN
- EXIT ILLUMINATED EXIT SIGN
- (N) WALL MOUNTED LIGHT FIXTURE
- (E) SURFACE MOUNTED LIGHT FIXTURE
- (SP) SPEAKER

KEYNOTES

- 1 (E) EXTERIOR RECESSED DOWNLIGHTS TO REMAIN.
- 2 (E) EXTERIOR WALLPACK LIGHT FIXTURE TO REMAIN.
- 3 (E) 2x4 RECESSED FLUOR. LIGHT FIXTURE TO BE REPLACED.
- 4 (E) 1x4 LIGHT FIXTURE TO BE REPLACED.
- 5 (E) 2x2 LIGHT FIXTURE TO BE REPLACED.
- 6 (E) SURFACE MOUNTED LIGHT FIXTURE TO BE DEMO. PATCH CLG.
- 7 (E) RECESSED DOWNLIGHT FIXTURE TO BE REPLACED WITH NEW. REFER TO NEW REFLECTED CEILING PLAN.
- 8 NEW 2'x4' LIGHT FIXTURE.
- 9 (E) SUPPLY DIFFUSER TO REMAIN. SEE MECHANICAL DRAWINGS.
- 10 RELOCATED SUPPLY DIFFUSER. SEE MECHANICAL DRAWINGS.
- 11 (E) LIGHT FIXTURE TO BE DEMO. PATCH AND PAINT CEILING.
- 12 (E) CEILING FANS TO BE DEMO. PATCH CEILING AS REQUIRED. VERIFY CIRCUIT, DISCONNECT AND REMOVE CONNECTION.
- 13 (E) T-BAR AND CEILING PANELS TO REMAIN. REPLACE ANY DAMAGED T-BAR AND CEILING PANELS.
- 14 (E) GYP. BOARD CEILING TO REMAIN. GC TO PATCH AREAS WHERE LIGHT FIXTURES ARE REMOVED AND AS NECESSARY. PAINT CEILING THROUGHOUT.
- 15 GC TO PATCH AND PAINT CEILING WHERE WALLS HAVE BEEN REMOVED.
- 16 (E) CEILING HEADER TO REMAIN. GC TO PATCH AND PAINT AS REQUIRED.
- 17 (N) WALL MOUNTED EXIT LIGHT. REFER TO SHEET E2.2 FOR CONNECTION.
- 18 (N) WALL MOUNTED LIGHT FIXTURE. REFER TO SHEET E2.2 FOR CONNECTION.
- 19 (E) SPEAKER TO REMAIN.
- 20 (E) EXHAUST FAN TO BE REPLACED. DISCONNECT THE DEMOLISHED EXHAUST FAN AND RECONNECT TO NEW EXHAUST FAN.
- 21 (N) EXHAUST FAN PER MECHANICAL DRAWINGS.
- 22 (N) 2'x2' RECESSED MOUNTED LIGHT FIXTURE.

GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EXISTING CIRCUITS, MAINTAIN AND PROTECT ALL FEEDERS, IF UTILIZED FOR CONNECTION TO THE NEW OR REPLACED DEVICES.
2. REFER TO ARCHITECTURAL FINISH SCHEDULE FOR ADDITIONAL CEILING MATERIAL AND FINISH REQUIREMENTS.
3. CENTER EXIT SIGNS ON THE CORRESPONDING DOORS WHERE APPLICABLE.
4. COORDINATE LOCATION OF HVAC GRILLES AND DIFFUSERS WITH MECHANICAL CONTRACTOR.
5. PROVIDE ACCESS PANELS FOR DEVICES WITHIN GYP. BOARD CEILINGS AS REQUIRED PER CBC 1209.1. INSTALL ELECTRICAL DEVICES IN THE ACCESSIBLE CEILING WHERE POSSIBLE.
6. ALL EXTERIOR LIGHTING SHALL REMAIN WITH EXISTING LIGHTING CONTROL. CLEAN AND RELAMP ALL EXISTING LIGHT FIXTURES, IF APPLICABLE.

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SHEET TITLE

ELECTRICAL DEMO PLAN

STAMP

REGISTERED PROFESSIONAL ENGINEER
PABLO HEYDARI
No. E13411
Exp. 9/30/2016
ELECTRICAL
STATE OF CALIFORNIA

A. Heydari

REVISIONS

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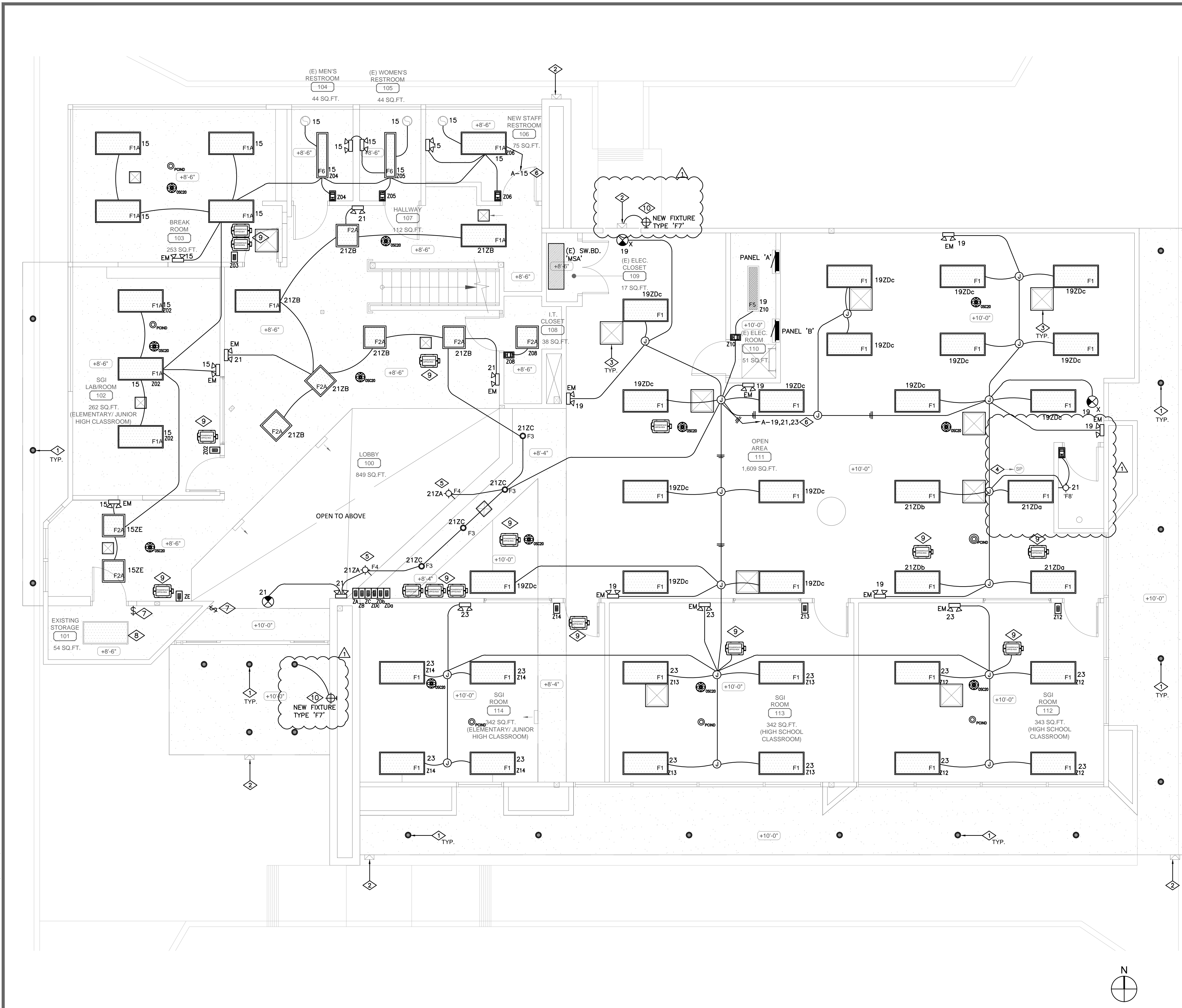
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PROJECT NUMBER
A1384

SHEET NUMBER

E2.1

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KEYNOTES

- 1 (E) EXTERIOR RECESSED DOWN LIGHTS. MAINTAIN CIRCUIT AND EXISTING CONTROL TO REMAIN.
- 2 (E) EXTERIOR WALLPACK LIGHT FIXTURE TO REMAIN. MAINTAIN CIRCUIT AND EXISTING CONTROL CONNECTION.
- 3 (E) SUPPLY DIFFUSER TO REMAIN. REFER TO MECHANICAL DRAWINGS.
- 4 (E) SPEAKER TO REMAIN.
- 5 VERIFY EXACT LOCATION, PROVIDE AND INSTALL LIGHT FIXTURE LED DRIVER IN AN ACCESSIBLE CEILING WHERE APPLICABLE.
- 6 VERIFY EXISTING HOMERUN LOCATION, MAINTAIN CIRCUIT, PROVIDE NEW CONDUIT, WIRES AND CONNECT TO THE NEW LIGHTING AS SHOWN. PROVIDE UNCONTROLLED CONNECTION TO EXIT SIGNS AND EMERGENCY LIGHTS.
- 7 EXISTING SWITCH AND CONNECTION TO THE LIGHTING FIXTURES ABOVE TO REMAIN. MAINTAIN CIRCUITS, CLEAN AND RELAMP LIGHT FIXTURES AS REQUIRED.
- 8 EXISTING LIGHT FIXTURE ABOVE WITH EXISTING CIRCUIT CONNECTION TO REMAIN.
- 9 PROVIDE AND INSTALL LIGHTING CONTROL DEVICES FOR EACH ZONE IN AN ACCESSIBLE WIRING CEILING AND CONNECT PER MANUFACTURER WIRING DIAGRAM. REFER TO SHEET E2.2a FOR WIRING DIAGRAMS. TYPICAL.
- 10 CONTRACTOR SHALL VERIFY EXISTING CIRCUIT CONNECTED TO THE EXTERIOR EXISTING LIGHT FIXTURES. PROVIDE CONDUIT AND WIRES AND CONNECT THE NEW EMERGENCY LIGHT FIXTURE TO EXISTING CIRCUIT. PROVIDE NEW WIRE AND CONNECT FIXTURE TO UNCONTROLLED CIRCUIT AS REQUIRED.

GENERAL NOTES

- 1. ALL EXISTING CIRCUITS SHOWN ON DRAWINGS ARE BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CIRCUIT CONNECTION, MAINTAIN CIRCUIT HOMERUNS AND UTILIZE AS REQUIRED.
- 2. VERIFY EXISTING FIXTURES, REPLACE WITH NEW FIXTURES AS REQUIRED. CONTRACTOR SHALL VISIT THE SITE AND GET FAMILIAR WITH THE EXISTING LIGHTING INSTALLATION PRIOR TO BID. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL REQUIREMENTS.
- 3. CONTRACTOR SHALL PROVIDE NEW LEVITON LIGHTING CONTROL DEVICES AND INSTALL PER MANUFACTURER WIRING DIAGRAM AS REQUIRED. REFER TO LIGHTING CONTROL WIRING DIAGRAMS ON SHEET E1.5.
- 4. ALL EXISTING EXTERIOR AND PARKING LIGHTING CIRCUITS, INCLUDING EXISTING LIGHTING CONTROL SYSTEMS SHALL REMAIN.
- 5. PROVIDE UNCONTROLLED POWER CONNECTION TO ALL EXIT SIGNS AND EMERGENCY LIGHT FIXTURES.

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SHEET TITLE
 REFLECTED CEILING PLAN

STAMP

REGISTERED PROFESSIONAL ENGINEER
 ARBAS HEYDARI
 No. E13411
 Exp. 9/30/2016
 ELECTRICAL
 STATE OF CALIFORNIA

A. Heydari

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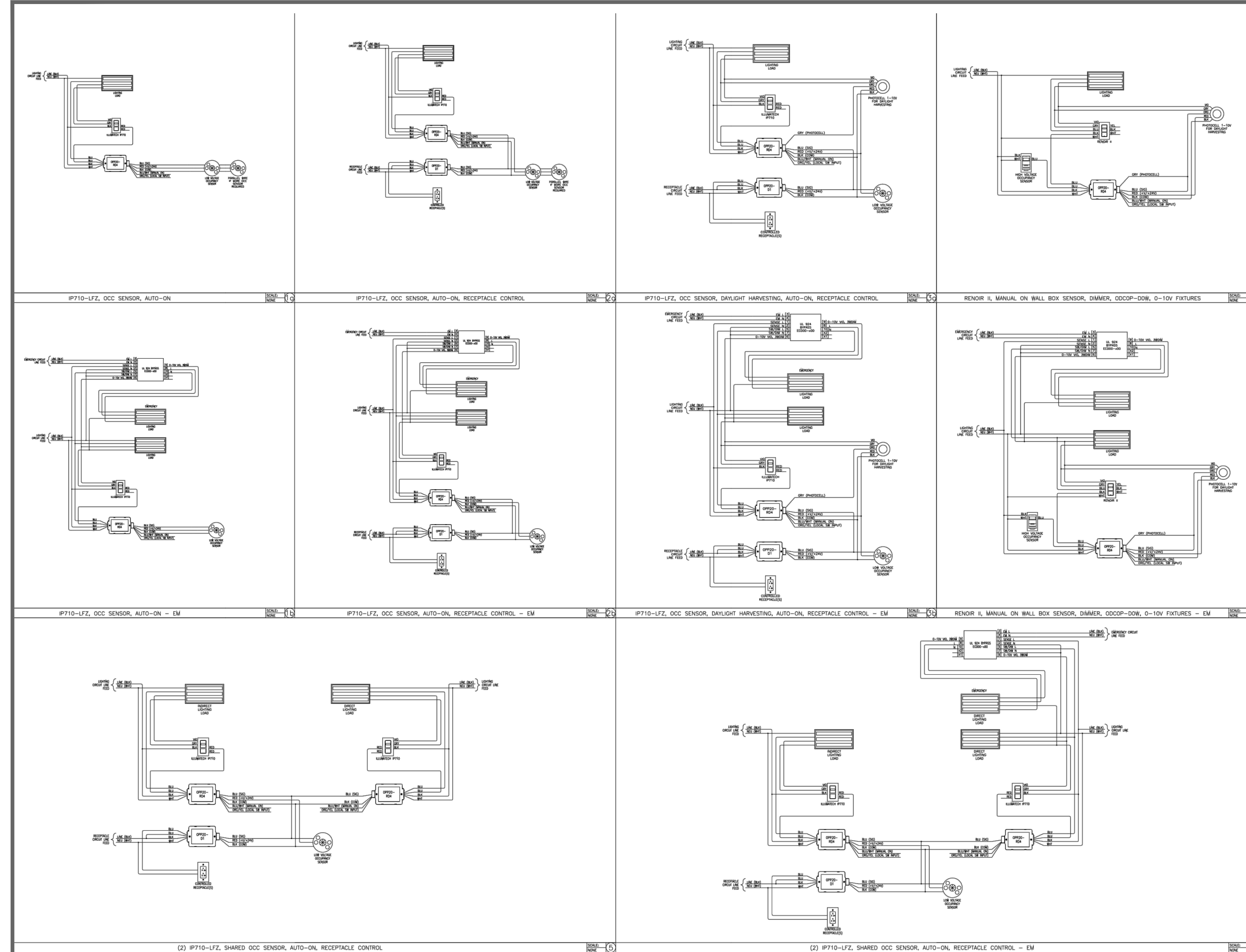
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 A1384

SHEET NUMBER

E2.2

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NOTES: (UNLESS OTHERWISE SPECIFIED)

- REFER TO INSTALLATION INSTRUCTIONS FOR DEVICE SPECIFIC TERMINATIONS.
- USE FIELD PROVIDED/FACTORY SUPPLIED.
- USE FIELD PROVIDED/FACTORY SUPPLIED.
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- USE FIELD PROVIDED/FACTORY SUPPLIED.

ABBREVIATIONS:

- LV LOW VOLTAGE
- HV HIGH VOLTAGE SWITCH (GATEWAY)
- LVW LOW VOLTAGE SWITCH (GATEWAY)
- EVW EV LOW VOLTAGE SWITCH (GATEWAY)
- LWT LOW VOLTAGE SWITCH (GATEWAY)
- LVS LOW VOLTAGE SWITCH (GATEWAY)
- MW-2 MEDIUM VOLTAGE SWITCH

SYMBOLS:

- NO CONNECTION
- CONNECTION
- DEVICES SHOWN IN MANUAL

GENERAL NOTES:

- FOR ALL-VOLTS CONTROL, LATEST LIGHTING LEVEL TAKES PRECEDENCE.
- POWERFULLY OF PROVED LIGHTING.
- POWERFULLY OF PROVED LIGHTING.
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- POWERFULLY OF PROVED LIGHTING.

LIGHTING CONTROLS SYMBOL LIST			
	LEVITON IP710-LFZ	ILLUMATECH DIMMER SWITCH; LED DIMMER 0-10V POWER SUPPLY	
	LEVITON ODCOP-DOW	THE LEVITON ODCOP-DOW IS AN INTERIOR LOW VOLTAGE PHOTOCELL CAPABLE OF CONTINUALLY DIMMING BETWEEN 1-10VDC BASED ON THE AMOUNT OF NATURAL LIGHT CONTRIBUTION	
	LEVITON OSC20-MOW	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR	
	LEVITON OPP20-0D1	20AMP STANDARD POWER PACK WITH MECHANICAL LATCHING RELAY (PLUG LOAD CONTROL)	
	LEVITON OPP20-0D2	TITLE 24 POWER RACK WITH 24VDC, AUTO-ON, MANUAL-ON, LOCAL SWITCH	
	LEVITON OD15-TDW	ODS15-TDW WALL SWITCH SENSOR PIR ONLY, SINGLE RELAY	

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SHEET TITLE
LIGHTING CONTROL WIRING DIAGRAMS

STAMP

REGISTERED PROFESSIONAL ENGINEER
ABRAB HEYDARI
No. E13411
Exp. 9/30/2016
ELECTRICAL
STATE OF CALIFORNIA

A. Heydari

SHEETS BEARING THIS SEAL AND WET SIGNATURE ARE AUTHENTICATED. RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS OR INSTRUMENTS ARE DISCLAIMED.

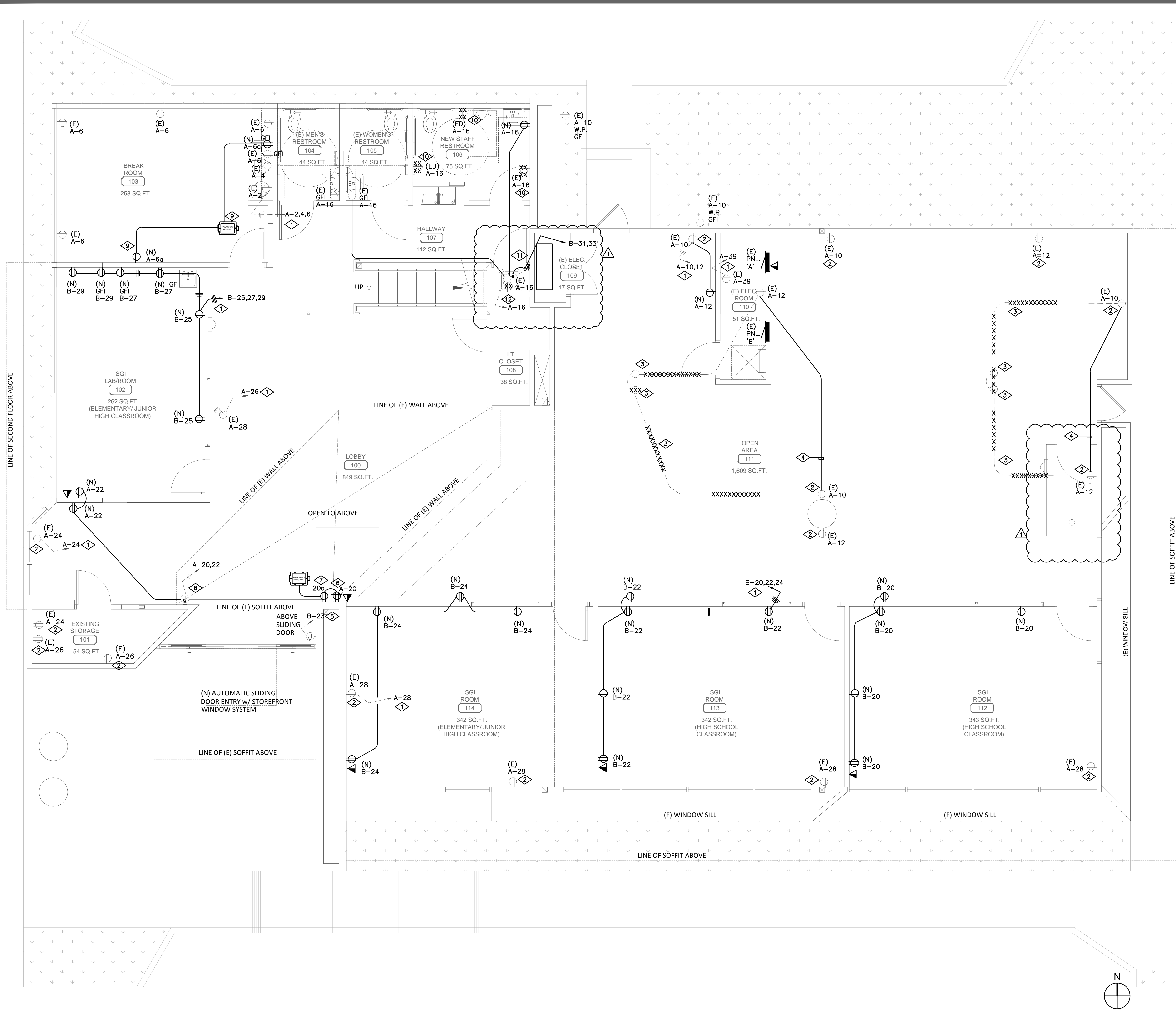
REVISIONS

1	CITY SUBMITTAL: 11.12.15
2	P.C. SUBMITTAL: 01.14.16
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DATE: 10.28.15
PROJECT NUMBER: A1384

SHEET NUMBER
E2.2a

Plotted: 1/18/2016 12:41 PM (abbas). File: e2.3_electrical power plan.dwg



KEYNOTES

- 1 VERIFY EXISTING CIRCUIT NUMBER AND MAINTAIN HOMERUN CONNECTION AS REQUIRED.
- 2 EXISTING RECEPTACLES TO REMAIN. VERIFY EXISTING CIRCUIT AND MAINTAIN CONNECTION AS REQUIRED. REPLACE ALL EXISTING RECEPTACLES WITH TAMPER PROOF RECEPTACLE AS REQUIRED.
- 3 VERIFY EXISTING HOMERUN ROUTING AND CONNECTION TO THE EXISTING RECEPTACLES ON EXISTING WALL SUBJECT TO DEMOLITION, DISCONNECT AND REMOVE THE RECEPTACLES AND HOMERUN.
- 4 PROVIDE NEW CONDUIT AND WIRE. EXTEND AND RECONNECT THE EXISTING RECEPTACLE TO EXISTING CIRCUIT AS REQUIRED.
- 5 EXISTING CIRCUIT TO REMAIN.
- 6 UTILIZE EXISTING CIRCUIT CONNECTED TO THE DEMOLISHED DEVICES, INTERCEPT FEEDER, PROVIDE NEW CONDUIT AND WIRES AND CONNECT TO THE NEW RECEPTACLES AS REQUIRED.
- 7 REFER TO LIGHTING CONTROL WIRING DIAGRAM AND PROVIDE CONNECTION VIA POWER PACK OPP20-0D1 CONTROLLED BY OCCUPANCY SENSOR.
- 8 VERIFY EXISTING HOMERUN CONNECTED TO THE DEMOLISHED DEVICES, UTILIZE CIRCUIT HOMERUN, INTERCEPT AT CEILING SPACE AND EXTEND TO NEW DEVICES AS SHOWN.
- 9 PROVIDE NEW GFCI RECEPTACLE AT THE COUNTER AND CONNECT TO THE EXISTING CIRCUIT VIA CONTROL RELAY AS SHOWN. REFER TO LIGHTING CONTROL WIRING DIAGRAM FOR CONNECTION OF CONTROL RELAY TO OCCUPANCY SENSOR.
- 10 (E) DENOTES EXISTING TO BE DEMOLISHED. VERIFY CIRCUIT CONNECTION TO EXISTING DEVICE. DISCONNECT AND REMOVE THE DEVICE. MAINTAIN CIRCUIT AND CONNECT TO THE NEW DEVICES AS SHOWN.
- 11 COORDINATE WITH PLUMBING CONTRACTOR, PROVIDE 20A, 2P MANUAL SWITCH AND CONNECTION TO NEW WATER HEATER AS REQUIRED.
- 12 VERIFY EXISTING CIRCUIT HOMERUN CONNECTED TO EXISTING RECEPTACLE, UTILIZE CIRCUIT, DISCONNECT AND REMOVE RECEPTACLE, PROVIDE NEW J-BOX AT CEILING WITH CONDUIT AND WIRES AS REQUIRED AND RE-ROUTE FEEDERS AND RECONNECT TO THE DOWN-STREAM DEVICES.

GENERAL NOTES

- 1. ALL EXISTING CIRCUITS SHOWN ON DRAWINGS ARE BASED ON AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY EXISTING CIRCUIT CONNECTION, MAINTAIN CIRCUIT HOMERUN.



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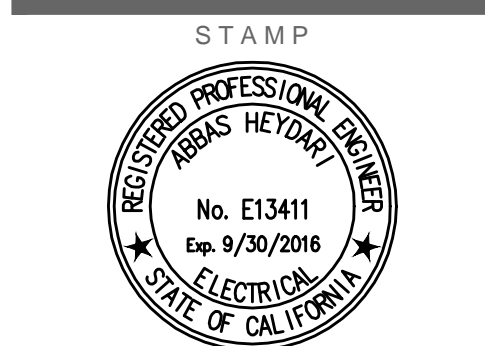


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 SHEET TITLE
 ELECTRICAL POWER PLAN



A. Hegdal

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ELECTRICAL POWER PLAN

SCALE
 1/4" = 1'-0"

8