

7/24/16 8:45 AM

ADDENDUM # 2
Grass Valley School District
District Support Services Building
Gilmore Way, Grass Valley CA

Clarifications:

1. Regarding temporary electrical service during construction, the successful contractor can reasonably rely on the availability of 100 amps of temporary power from the existing switchboard at the northwest corner of the existing District Office building at the south edge of the site. The contractor will need to provide over-current protection and make the connection as a part of their scope of work.

If, in the Contractor's judgment, this is not a sufficient amount of power during construction, the balance must be supplied either by the contractor's temporary power generators and/or additional temporary power from PG & E, applied for and arranged by the Contractor with PG & E.

2. Additional suspended ceiling details have been added to the set, see sheet D3 details D12 and A6.

Additions:

1. Electrical conduit and related connections have been added at to allow for future photovoltaic infrastructure, see sheet E0.1, grid coordinates F7, and sheet E3.1, grid coordinates H5.
2. Two occupant load signs have been added, one at each exterior door.
3. Special Inspection will be required to test the compaction of the fill below the relocated shipping container.
4. Additional emergency lighting fixtures have been added, see sheet E2.1.
5. Additional electrical receptacles have been added, see sheet E0.2 and E3.1.
6. A request for a Bid Alternate has been added to the scope, see attached "Alternates Form" and revised "Required Bidding Forms" list.
7. Reference is made to sheet C3.2, detail A90A, upper right corner. Contractor shall furnish and install at each of the two driveway entrances to the parking lot the

sign listed as R100B (“unauthorized vehicles..” etc)

8. Reference is made to sheet C0.1, “Overall Site Plan”. At the existing accessible parking stall and ramp at the east end of the existing parking lot, Contractor shall install new conforming signage on the existing pole and restripe the stall per the accessible stall striping and sign details already included in the bid drawings.

Additionally, a pre-fabricated mat of detectable warning material shall be installed on the existing ramp.

Revisions:

1. Reduce the height of the countertop in the kitchenette and the conference room to 34”, rather than the 3’-0” shown on sheet D2, detail J12.
2. The location and orientation of the new building, shipping container, septic tank, and the route of utilities into and out of the building has been modified, see revised sheet C2.1 attached.
3. The existing oak tree at the center of the site will be retained and protected as shown on revised sheet C2.1 attached, in lieu of its removal as shown on the drawings first distributed for bid.
4. Reference is made to sheet S-100. The beam centered between grid lines 2 and 3 is a 6 x 10, rather than the 6 x 12 listed on the plans.
5. Reference is made to A4. The paper towel dispenser, toilet paper dispenser, and soap dispenser will be furnished by the Owner, and installed by the general contractor, rather than furnished and installed by the General Contractor.

The combination towel dispenser and waste receptacle Bobrick B-3974 is revised to the Bobrick B-3644 recessed waste receptacle.

DOCUMENT 004323 - ALTERNATES FORM

1.1 BID INFORMATION

- A. Bidder: _____.
- B. Project Name: Grass Valley School District DSS Building
- C. Project Location: Gilmore Way, Grass Valley CA
- D. Owner: Grass Valley School District.

1.2 BID FORM SUPPLEMENT

- A. This form is required to be attached to the Bid Form.

1.3 DESCRIPTION

- A. The undersigned Bidder proposes the amount below be added to or deducted from the Base Bid if particular alternates are accepted by Owner. Amounts listed for each alternate include costs of related coordination, modification, or adjustment.
- B. If the alternate does not affect the Contract Sum, the Bidder shall indicate "NO CHANGE."
- C. If the alternate does not affect the Work of this Contract, the Bidder shall indicate "NOT APPLICABLE."
- D. The Bidder shall be responsible for determining from the Contract Documents the affects of each alternate on the Contract Time and the Contract Sum.

1.4 SCHEDULE OF ALTERNATES

- A. Alternate No. 1: Omission of 2 hour Rated Wall between the "Training Room" (Room 117) and the remainder of the building, including, but not limited to, added layers of gypsum board beyond those required to provide the interior finish, fire damper, penetration sealant, fire rated door, fire rated attic access door:
 - 1. ADD ___ DEDUCT ___ NO CHANGE ___ NOT APPLICABLE ___.
 - 2. _____ Dollars (\$_____).
 - 3. ADD ___ DEDUCT ___ _____ calendar days to adjust the Contract Time for this alternate.

1.5 SUBMISSION OF BID SUPPLEMENT

- A. Respectfully submitted this _____ day of _____, 20_____.
- B. Submitted By: _____(Insert name of bidding firm or corporation).
- C. Authorized Signature: _____(Handwritten signature).
- D. Signed By: _____(Type or print name).
- E. Title: _____(Owner/Partner/President/Vice President).

END OF DOCUMENT 004323

REQUIRED BIDDING FORMS

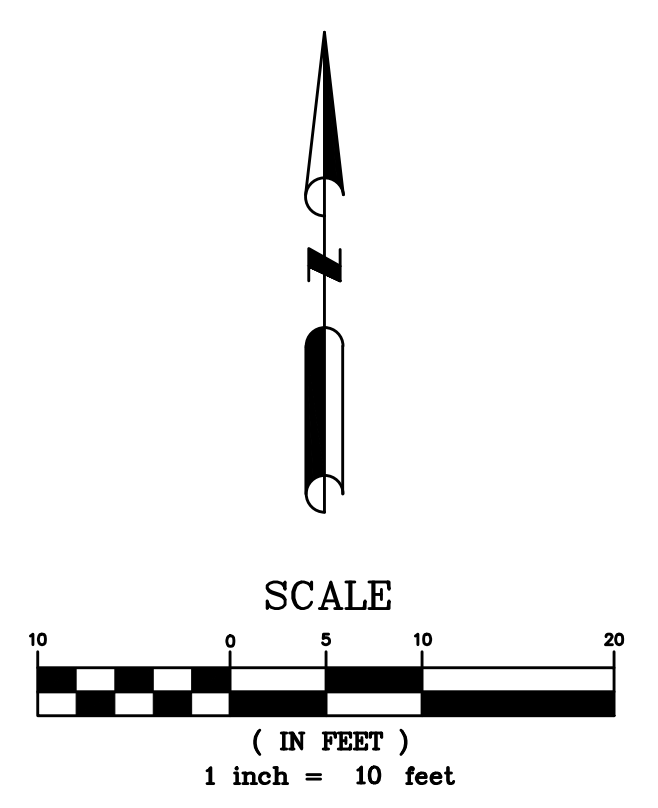
The Required Bidding Forms are set forth on the following pages and include:

1. Bid Label
2. Bid Proposal
3. Certification Regarding Bid Security
4. Bid Bond
5. Non-Collusion Declaration
6. Certification Regarding Site Visit
7. Subcontractor Listing
8. Certification Regarding Contractor Registration
9. Certification Regarding Contract Documents
10. Certification Regarding Bidder References
11. Unit Prices Form
12. **Alternates Form**



LEGEND

- PROPERTY LINE
- EXISTING ASPHALT
- NEW ASPHALT
- TOPOGRAPHIC CONTOUR LINES
- EXISTING TREE
- REMOVE EXISTING TREE
- SLOPES (2:1 MAX)
- FINISH GRADE
- STORM DRAIN HDPE (6" TYP.)
- PROPOSED DRAINAGE SWALE
- ORANGE CONSTRUCTION FENCING (NOT SHOWN)
(SEE TREE MITIGATION DETAIL 1/C3.5)
- FIBER ROLLS OR SILT FENCING
(PER DETAILS ON C3.1)



GRADING/DRAINAGE NOTES:

- G1 CONSTRUCT CONCRETE SIDEWALK (DETAIL 6/C3.5)
- G2 CONSTRUCT TYPE A1-6" CURB (DETAIL A87A/C3.2)
- G3 CONSTRUCT ACCESSIBLE PARKING WITH STRIPING AND SIGNAGE (SEE DETAIL A90A/C3.2)
- G4 CONSTRUCT CURB RAMP WITH DETECTIBLE WARNING (DETAIL A88A/C3.2)
- G5 CONSTRUCT ASPHALT PAVEMENT SECTION (DETAIL 7/C3.5)
- G6 JOIN EXISTING ASPHALT (DETAIL SHEET 3/C3.5)
- G7 CONNECT ROOF DRAIN TO AREA DRAIN PIPING OR NEAREST AREA DRAIN
- G8 COMPLY WITH CBC REQUIREMENTS AND GRADING DETAIL 5/C3.5 FOR GRADING ADJACENT TO BUILDING. (TYPICAL)
- G9 INSTALL V-DITCH (DETAIL 9/C3.5) (ROCK LINE V-DITCH IF SLOPE EXCEEDS 5%)
- G10 INSTALL 8" SQUARE AREA DRAIN (DETAIL 10/C3.5) WITH 6" AREA DRAIN PIPE, SLOPE=0.010 MIN. AND =0.080 MAX.
- G11 GRADE FILL SLOPES AT 2:1 MAX. AND CUT SLOPES AT 2:1 MAX. (DETAIL 2, 4/C3.5)
- G12 INSTALL CONSTRUCTION FENCE AND TREE PROTECTION (DETAIL 1/C3.5)
- G13 INSTALL FIBER ROLL BARRIER (DETAIL T56/C3.1) OR SILT FENCE (DETAIL 1/C3.1)
- G14 PLACE 6" AGGREGATE BASE, COMPACT TO 95%
- G15 ARBORIST RECOMMENDATIONS FOR 65" BLACK OAK TREE PROTECTION
 THE PROTECTION OF THE SOIL WILL BE ACCOMPLISHED BY INSTALLING A 6" CHAIN LINK FENCE AROUND THE PERIMETER OF THE TREE TO THE DISTANCE FROM THE TRUNK THAT IS AS AT LEAST THE EXTENT OF THE DRIP LINE AS POSSIBLE UNDER THE ENTIRE TREE, AND THE CLOSEST ENCROACHMENT NEEDED TO COMPLETE THE CONSTRUCTION. THE SOIL INSIDE THE FENCED AREA SHOULD NOT BE COMPACTED BY EQUIPMENT, OR FEET IN WET WEATHER. IF ANY CONSTRUCTION IS NEEDED TO BE PERFORMED WITHIN THE FENCED AREA, PRECAUTIONS SHALL BE USED TO MINIMIZE THE SOIL COMPACTION AND DAMAGE TO ROOTS CLOSER TO THE TREE THAN THE EDGE OF THE TRENCH. PROTECTION MEASURES INCLUDE PLACING SIX INCHES OF MULCH OVER THE SOIL WITHIN THE FENCED AREA, AND IF ANY VEHICLES NEED TO DRIVE WITHIN THE FENCED AREA, STEEL PLATED BE PLACED OVER THE MULCH. IF ANY ROOTS IN THE TRENCH ARE TO BE REMOVED, THEY WILL FIRST BE CUT ON THE EDGE OF THE TRENCH CLOSEST TO THE TREE BEFORE THEY ARE REMOVED, SO THEY ARE NOT TORN CLOSER TO THE TREE TRUNK THAN THE EDGE OR WALL OF THE TRENCH.
 IF SIGNIFICANT ROOTS ARE FOUND DURING FUTURE SITE EXCAVATION, A QUALIFIED ARBORIST SHOULD BE CONTACTED TO INSPECT THE ROOTS, AND DETERMINE IF THEY CAN BE CUT OR MITIGATED IN SOME WAY TO ALLOW THE CONSTRUCTION TO PROCEED AS PLANNED.

DESIGNED: BKM	DATE	NO. REVISIONS	DATE	NO. REVISIONS	DATE
DRAWN: BKM					
PROJ. NO: 16106					
DWG: GV SCHOOL design1					
DATE: 3-28-16					

GRASS VALLEY SCHOOL DISTRICT

GRASS VALLEY

GRADING AND DRAINAGE PLAN

CALIFORNIA

SIERRA LAND SOLUTIONS, INC.

360 CROWN POINT CIRCLE, STE. 260
GRASS VALLEY, CA 95945
(530) 272-3757

DATE SIGNED: 05/19/2016

C2.1

SHORT CIRCUIT CALCULATION

L = Length of circuit
 C = "C" Value per conductor size
 %Z = Transformer impedance
 E_L = Voltage (Primary of transformer)
 n = number of conductors per phase
 KVA = rating of transformer

Fault # 1 METER/MAIN

I_{SCA} = 45000 AMPS (known value per utility company)

1 Factor
 $f = \frac{1.73 \times L \times I_{SCA}}{C \times n \times E_L} = \frac{1.73 \times 60 \times 45000}{12844 \times 1 \times 208} = 1.7484$

2 Multiplier
 $M = \frac{1}{1 + f} = 0.3638$

3 Motor Short Circuit Contribution I_{FLA} = 100
 I_M = I_{FLA} X 4 = 400 AMPS

4 Short Circuit Available Current
 I_{SCA} Sym RMS = I_{SCA} X M = 16373 AMPS
TOTAL I_{SCA} Sym RMS = 16773 AMPS at Fault # 1 METER/MAIN
 (with motor contribution if applicable)

Fault # 2 PANEL

I_{SCA} Sym RMS = 16773 AMPS

1 Factor
 $f = \frac{1.73 \times L \times I_{SCA}}{C \times n \times E_L} = \frac{1.73 \times 40 \times 16773}{12844 \times 1 \times 208} = 0.4345$

2 Multiplier
 $M = \frac{1}{1 + f} = 0.6971$

3 Motor Short Circuit Contribution I_{FLA} = 100
 I_M = I_{FLA} X 4 = 400 AMPS

4 Short Circuit Available Current
 I_{SCA} Sym RMS = I_{SCA} X M = 11693 AMPS
TOTAL I_{SCA} Sym RMS = 12093 AMPS at Fault # 2 PANEL
 (with motor contribution if applicable)

TELECOMMUNICATIONS SYMBOLS

NOTE: RACEWAY ONLY OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" CONDUIT AND PULLSTRING TO ACCESSIBLE CEILING SPACE.

◀ TELEPHONE/DATA OUTLET. SEE NOTE ABOVE.

☎ TELEPHONE TERMINAL BOARD AND GROUND; SIZE PER PLAN. PAINT BOARD TO MATCH WALL. PROVIDE A SINGLE RECEPTACLE ON DEDICATED CIRCUIT AT 6"-0" AFF LOCATED AT LEFT SIDE OF BOARD.

WIRING DEVICE SYMBOLS

⊕ 20A, 125V, DUPLEX RECEPTACLE OUTLET. ALPHABET INDICATES SPECIAL MOUNTING HEIGHT PER LIST:
 a - +84" AFF
 b - ABOVE COUNTER BACKSPASH
 c - CEILING MOUNTED

⊕ 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET
 GECI TYPE; 20A,125V, DUPLEX RECEPTACLE; +18" A.F.F. TO CENTERLINE. USE WEATHER-PROOF COVER FOR WET LOCATION INSTALLATIONS.

⊕ WP 20A,125V, DUPLEX RECEPTACLE GFCI WITH WEATHER PROOF COVER

⊕ SPECIAL PURPOSE RECEPTACLE OUTLET; RATING AS SHOWN; +18" A.F.F. TO CENTERLINE

S3 3-WAY SWITCH.

⊕ a, b, c OCCUPANCY LIGHT CONTROL SWITCH; WALL AND CEILING MOUNTED

UPPER CASE LETTER INDICATES SENSOR TYPE PER OCCUPANCY SENSOR SCHEDULE.

LOWER CASE LETTER INDICATES SWITCH CIRCUIT FOR FIXTURE

S_{LV} LOW-VOLTAGE MOMENTARY CONTACT SWITCH

S_D DIMMER SWITCH

⊕ DAYLIGHT SENSOR, CEILING MOUNTED

DLM DIGITAL LIGHTING MANAGEMENT. SEE DIAGRAM.

LIGHTING SYMBOLS

☐ RECESSED LIGHTING FIXTURE AND OUTLET BOX. TYPE AND SIZE PER FIXTURE SCHEDULE.

☐ RECESSED DOWN-LIGHT FIXTURE AND OUTLET BOX

☐ WALL MOUNTED LIGHTING FIXTURE AND OUTLET BOX

— STRIP LIGHT FIXTURE; LENGTH PER FIXTURE SCHEDULE. CUSTOM LENGTHS PER PLAN.

☐ SURFACE LIGHTING FIXTURE AND OUTLET BOX. TYPE AND SIZE PER FIXTURE SCHEDULE.

— LINEAR LIGHT; SURFACE OR PENDANT MOUNTED PER PLAN. LENGTH PER FIXTURE SCHEDULE. CUSTOM LENGTHS PER PLAN. LAMP TYPE PER FIXTURE SCHEDULE.

☑ EMERGENCY BATTERY UNIT WITH OR WITHOUT EXIT SIGN

→ EXIT SIGN; WALL MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS

→ EXIT SIGN; CEILING MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS

CONDUIT SYMBOLS

— CONDUIT INSTALLED CONCEALED ABOVE CEILINGS OR IN WALLS IN FINISHED AREAS OR EXPOSED IN UNFINISHED AREAS

--- CONDUIT INSTALLED BELOW FINISHED FLOOR OR BELOW GRADE

↶ INDICATES CONDUIT TURNING UP

↷ INDICATES CONDUIT TURNING DOWN

— CONDUIT STUBBED OUT AND CAPPED

— CONDUIT HOMERUN; ROUTE TO PANELBOARD, CABINET, OR TERMINAL BOARD INDICATED, AND TERMINATE CONDUCTORS TO CIRCUIT OVER CURRENT PROTECTIVE DEVICE

DESIGNATION SYMBOLS

XXXX FEEDER DESIGNATION TAG

① SHEET NOTE TAG

A 220 FIXTURE DESIGNATION
 UPPER CASE LETTER INDICATES FIXTURE TYPE.
 LOWER CASE LETTER INDICATES SWITCH FOR FIXTURE NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN).

S_o LETTER INDICATES FIXTURES CONTROL (WHERE SHOWN)

⊕ 22 NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)

⊕ AC 1 EQUIPMENT TAG

POWER SYMBOLS

⊕ MOTOR OUTLET

⊕ FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE

⊕ NON-FUSED DISCONNECT SWITCH XX/XX = AMP SWITCH/POLES

PB PULL BOX

T TRANSFORMER

— SURFACE MOUNTED PANEL OR TERMINAL CABINET

— FLUSH MOUNTED PANEL OR TERMINAL CABINET

⊕ JUNCTION BOX; WALL MOUNTED, CEILING MOUNTED

S_M MOTOR RATED TOGGLE SWITCH. MATCH VOLTAGE WITH EQUIPMENT ON PLANS.

⊕ 225 3 STATIONARY - CIRCUIT BREAKER; RATING AS SHOWN ON PLANS; AMPS/POLES

GENERAL NOTES

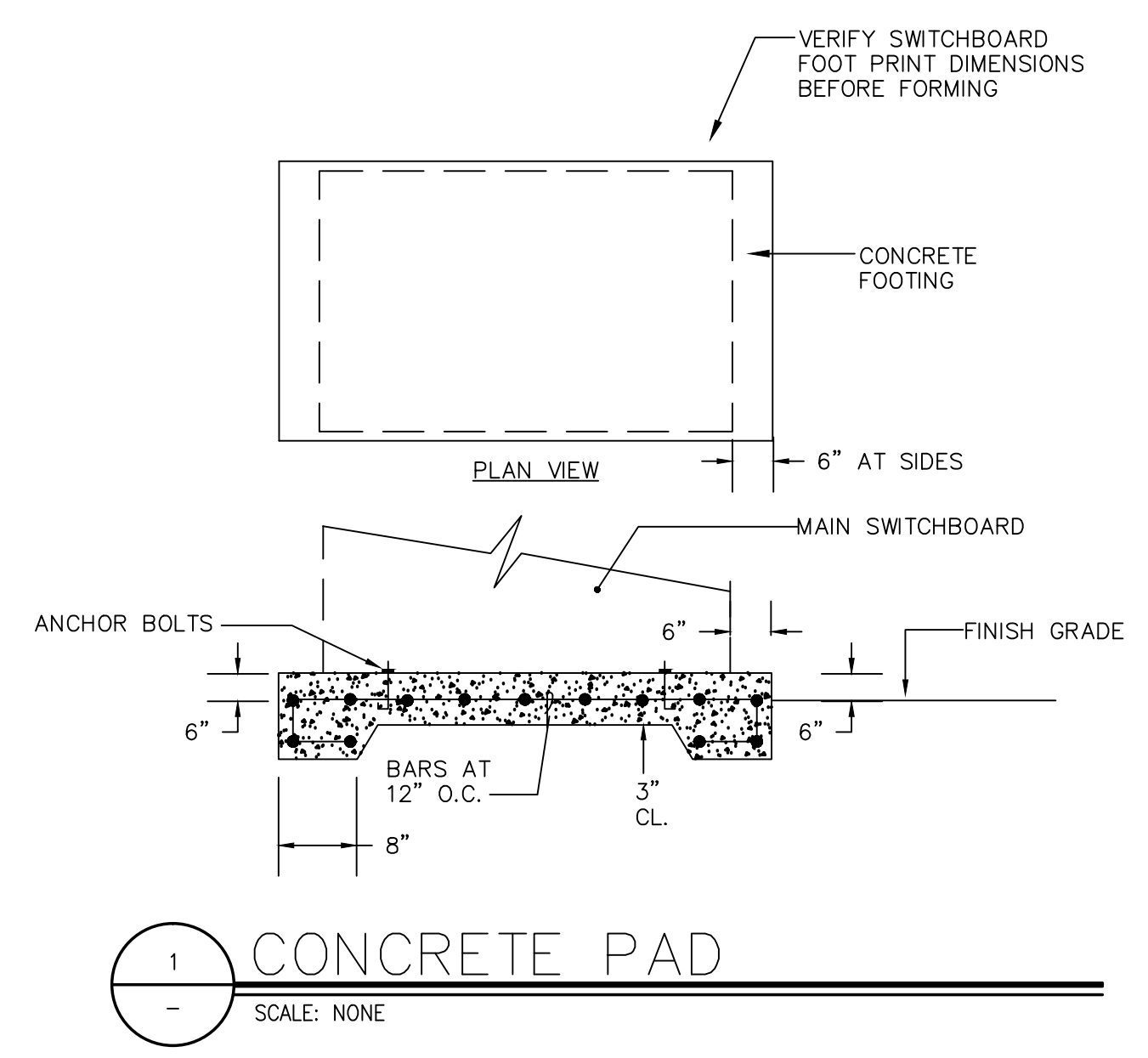
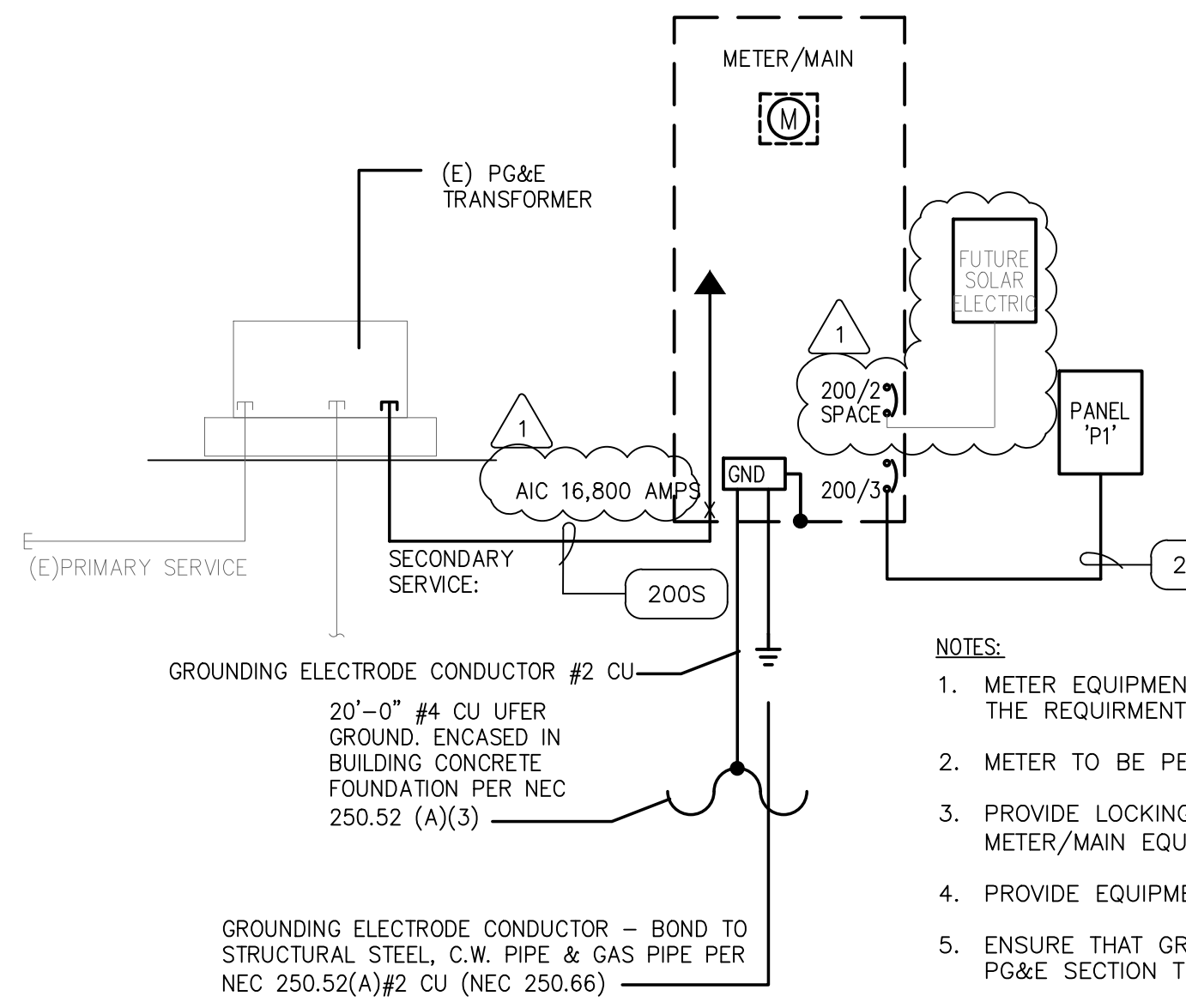
- CONTRACTOR IS RESPONSIBLE FOR READING AND INCLUDING ALL INFORMATION PROVIDED IN THE WRITTEN NOTES THROUGHOUT THE DRAWINGS. SYSTEM REQUIREMENTS MAY NOT BE PICTORIAL.
- FURNISH ALL LABOR, MATERIALS, EQUIPMENT & SERVICES NECESSARY TO CONSTRUCT AND INSTALL COMPLETE & OPERATIONAL ELECTRICAL SYSTEMS INDICATED ON THE DRAWINGS & IN THE SPECIFICATIONS.
- PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL NEW AND EXISTING ELECTRICAL PANELS WHERE MODIFICATIONS WERE MADE.
- PROVIDE MELAMINE PLASTIC ENGRAVED LABELS FOR PANELS, MAIN SWITCHBOARD DISCONNECTS, AND ALL MAJOR ELECTRICAL EQUIPMENT.
- ALL NEW CONDUITS, WITHIN FINISHED SPACES, SHALL BE CONCEALED, UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL DEVICES INDICATED ON THESE SHEETS ARE NEW UNLESS OTHERWISE NOTED AND ARE TO BE INSTALLED PER CBC117B.6.
- DO NOT INSTALL RECEPTACLES OR TELEPHONE OUTLETS BACK-TO-BACK IN DEMISING WALLS.
- FURNISH AND INSTALL FIRE-RATED BACK BOXES IN FIRE RATED WALLS AND CEILINGS WHERE ELECTRICAL EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, TELEPHONE OUTLETS, ETC. ARE INSTALLED RECESSED. SEPARATE ELECTRICAL BOXES BACK TO BACK IN FIRE-RESISTIVE WALLS BY A MINIMUM OF 24" HORIZONTALLY AND BOX AREA NOT TO EXCEED 16 IN. SQ. PROVIDE STEEL BOXES (OR OTHER LISTED BOXES) PER 2013 CALIFORNIA BUILDING CODE 712.3.2.
- VERIFY AND COORDINATE SERVICE REQUIREMENTS WITH: ELECTRIC: PG&E 1-877-743-7782 (NORTHERN CA)
- COORDINATION OF ELECTRIC SERVICE AND TELEPHONE SERVICE IS INCOMPLETE AND IS STILL REQUIRED FOR THIS JOB. LOCATION OF TRANSFORMERS, PULLBOXES, UNDERGROUND SERVICE CONDUITS MUST BE COORDINATED AND VERIFIED WITH RESPECTIVE UTILITY COMPANIES.
- PROVIDE ALL SYSTEMS, EQUIPMENT, DEVICES, MATERIALS, FEEDERS, WIRING, CONDUITS AS SPECIFIED, WHETHER SHOWN OR NOT SHOWN ON FLOOR PLANS.
- PROVIDE #12 CONDUCTORS FOR ALL WIRING FOR CIRCUITS WHERE NOT SHOWN ON DRAWINGS. NUMBER AS REQUIRED IN CONDUIT SIZED PER NEC.
- INSTALL AND CONNECT A CODE SIZE INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDER CONDUITS. THESE EQUIPMENT GROUND WIRES MAY NOT BE SHOWN ON THE PLANS. INCREASE CONDUIT SIZE WHERE REQUIRED.
- ELECTRICAL PANELBOARDS SHALL HAVE DOOR-IN-DOOR FRONT COVERS.
- LOCATION AND DEPTH OF ALL UNDERGROUND CONDUITS SHALL BE COORDINATED WITH THE WASTE LINES, RAIN WATER LEADER LINES, SPRINKLER LINES, WATER LINES AND BUILDING FOOTINGS PRIOR TO ROUGH IN.
- FEEDERS ROUTED EXPOSED AT CEILING OR WALL SHALL BE APPROVED PRIOR TO ROUGH-IN.
- VERIFY CONTROL REQUIREMENTS FOR ROOF EXHAUST FANS, AIR CONDITIONING UNITS, AND FANS WITH CONTRACTOR PRIOR TO ROUGH-IN.
- WATER FLOW SWITCH AND VALVES CONTROLLING THE WATER SUPPLY (INCLUDING THE OS&V VALVES AT THE BACK FLOW PREVENTER AND SITE PIV'S) FOR THE AUTOMATIC FIRE SPRINKLER SYSTEMS SHALL BE ELECTRONICALLY MONITORED BY AN APPROVED FIRE ALARM MONITORING SYSTEM. PROVIDE 3/4" C.O. STUB OUT TO TELEPHONE TERMINAL BACKBOARD.
- CONTRACTOR TO PROVIDE ALL REQUIRED ACCEPTANCE TESTING. 2013. ACCEPTANCE TESTING REQUIRED PER 2013 CALIFORNIA ENERGY CODE. A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN IS REQUIRED TO PERFORM THE TESTS SET FORTH IN THE FOLLOWING ACCEPTANCE TEST FORMS:
 - RCA-LTI-02-A-LIGHTING CONTROLS
 - NRCA-LTI-03-A - AUTOMATIC DAYLIGHTING
 - NRCA-LTI-02-A-OUTDOOR MOTION SENSOR AND LIGHTING SHUT-OFF CONTROLS.

FEEDER SCHEDULE

Key: A = Aluminum
 C = Conduit only
 S = Service secondary
 X = Separately derived system

NOTE: NOT ALL FEEDERS SHOWN ARE USED ON THIS PROJECT.

200S	4 #3/0 CU IN 2" C.
200SA	4 - 250 kcmil AL IN 2" C.
2004	4 #3/0 CU, 1 #6 CU GND., IN 2" C.
2004A	4 - 250 kcmil AL, 1 #6 CU GND., IN 2-1/2" C.



DESIGNED BUILDING LOAD CALCULATION

DESCRIPTION	W/SQ. FT.	x	SQ. FT.	=	LOAD
OFFICE			2890	=	
OFFICE			2,890.0	=	8,670.0 VA
LIGHTING	3.0	x	2,890.0	=	VA
PARKING LOT LTG			2,890.0	=	8,670.0 VA
RECEPTACLES	3.0	x	2,890.0	=	8,670.0 VA
MISC	2.0	x	2,890.0	=	5,780.0 VA
OTHER:				=	
SHOW WINDOWS L.F.		x	200.0	=	VA
H.V.A.C. (ACTUAL)	45.0	x	360.0	=	16,200.0 VA
FOOD SERVICE	12.0	x	200.0	=	2,400.0 VA
25% LCL	5000.0			=	1,250.0 VA
25% LARGEST MOTOR	4500.0			=	1,125.0 VA
TOTAL				=	44,095.0 VA
			360	=	122.5 AMPS

RE-SUBMITTAL SET
 DATE: 07-21-16

Spectral Engineering
 Electrical Consulting Engineers

CONTACT: MEG L. HOBBS, PE, LEED AP
 EMAIL: meg.hobbs@SPECTRALENGINEERING.COM
 PHONE: 916-599-2439



Revisions

1	PLAN CHECK #1
	DATED 06/29/16

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DISTRICT SUPPORT SERVICES BLDG for GRASS VALLEY SCHOOL DISTRICT
 GILMORE WAY, GRASS VALLEY, APN29-030-02

date: 3/14/16
 scale: 15-397

LEGEND, GENERAL NOTES, & ONE-LINE DIAGRAM

E0.1

(N) PANEL 'P1'				Bus Rating (Amps): 200					*SEE NOTES BELOW FOR FURTHER INFORMATION AND PANEL OR CIRCUIT REQUIREMENTS.			
Main: MLO				Volts: 208/120V					Phase: 3			
Enclosure SURFACE				Wires: 4								
AIC 14,000												
Ckt	Description	Load Type	Load (KVA)	OC Device	Phase	Amps	Poles	Load (KVA)	Type	Description	Ckt	
1	FUTURE SOLAR ELECTRIC	-	0.00	-	A	20	1	1.08	2	RECEPTACLES - TRAINING/DATA	2	
3	"	-	0.00	-	B	20	1	1.08	2	RECEPTACLES - TRAINING/DATA	4	
5	RECEPTACLE - MICROWAVE	-	1.20	20	1	C	20	1	0.72	2	RECEPTACLES - TRAINING	6
7	RECEPTACLE - COFFEE	-	1.50	20	1	A	20	1	1.20	2	PROJECTOR - TRAINING	8
9	RECEPTACLE - KITCHENETTE	-	0.18	20	1	B	30	1	0.18	2	RECEIPT - DEDICATED - STORAGE	10
11	RECEPTACLE - DISPOSAL	-	1.00	20	1	C	20	1	0.18	2	RECEIPT - EXTERIOR	12
13	RECEPTACLE - IT (DEDICATED)	-	2.00	30	1	A	20	1	1.08	2	RECEPTACLES - OFFICE, ATTIC	14
15	RECEPTACLE - IT (DEDICATED)	-	2.00	30	1	B	20	1	0.90	2	RECEPTACLES - OFFICE/LOBBY	16
17	RECEPTACLE - IT STORAGE	-	0.72	20	1	C	20	1	0.72	2	RECEIPT - OFFICES (CONTROLLED)	18
19	RECEPTACLE - TELCOM BOARD	-	0.36	20	1	A	20	1	1.00	2	PROJECTOR - LOBBY	20
21	RECEPTACLE - DRINKING FOUNTAIN	-	0.50	20	1	B	20	1	0.72	2	RECEPTACLES - OFFICE	22
23	RECEPT - REFRIGERATOR	-	0.90	20	1	C	20	1	0.90	2	RECEPTACLES - OFFICE	24
25	LIGHTING - TRAINING/OFFICES	1	0.60	20	1	A	20	1	0.72	2	RECEIPT - OFFICES (CONTROLLED)	26
27	LIGHTING - CORRIDOR/EM LGT	-	0.78	20	1	B	20	1	0.36	2	PROJECTOR - CONF. RM.	28
29	LIGHTING - CONF. RM/OFFICES	1	1.10	20	1	C	20	1	0.18	2	RECEPTACLE - CONF. RM.	30
31	SPARE	-	0.00	20	1	A	20	1	0.90	2	RECEPTACLE - OFFICES	32
33	EXHAUST FAN(S) 1 & 2	3	0.20	20	1	B	20	1	1.00	2	PROJECTOR - DIR OF TECH	34
35	WATER HEATER WH-1	-	1.65	20	1	C	20	1	0.36	2	RECEIPT - OFFICE/CONF (CONTROLLED)	36
37	RECEIPT - MEN'S/WOMEN'S	-	0.18	20	1	A	PFB	-	0.00	-	SPACE	38
39	RECEIPT - MEN'S/WOMEN'S	-	0.18	20	1	B	PFB	-	0.00	-	SPACE	40
41	RECEPTACLES - ROOF ATTIC	-	0.36	20	1	C	PFB	-	0.00	-	SPACE	42
43	SPARE	-	0.00	20	1	A	PFB	-	0.00	-	SPACE	44
45	SPARE	-	0.00	20	1	B	PFB	-	0.00	-	SPACE	46
47	SPARE	-	0.00	20	1	C	PFB	-	0.00	-	SPACE	48
49	SPACE	-	0.00	PFB	-	A	PFB	-	0.00	-	SPACE	50
51	SPACE	-	0.00	PFB	-	B	PFB	-	0.00	-	SPACE	52
53	SPACE	-	0.00	PFB	-	C	PFB	-	0.00	-	SPACE	54
55	SPACE	-	0.00	PFB	-	A	PFB	-	0.00	-	SPACE	56
57	SPACE	-	0.00	PFB	-	B	PFB	-	0.00	-	SPACE	58
59	SPACE	-	0.00	PFB	-	C	PFB	-	0.00	-	SPACE	60
61	SPACE	-	0.00	PFB	-	A	PFB	-	0.00	-	SPACE	62
63	SPACE	-	0.00	PFB	-	B	PFB	-	0.00	-	SPACE	64
65	SPACE	-	0.00	PFB	-	C	PFB	-	0.00	-	SPACE	66
67	SPACE	-	0.00	PFB	-	A	PFB	-	0.00	-	SPACE	68
69	SPACE	-	0.00	PFB	-	B	PFB	-	0.00	-	SPACE	70
71	HP-3/FC-3	3	1.90	20	2	C	PFB	-	0.00	-	SPACE	72
73	"	3	1.90	-	-	A	PFB	-	0.00	-	SPACE	74
75	HP-2	3	3.64	50	2	B	PFB	-	0.00	-	SPACE	76
77	"	3	3.64	-	-	C	PFB	-	0.00	-	SPACE	78
79	FC-2	3	0.65	15	1	A	PFB	-	0.00	-	SPACE	80
81	HP-1	3	2.71	30	2	B	PFB	-	0.00	-	SPACE	82
83	"	3	2.71	-	-	C	PFB	-	0.00	-	SPACE	84

LOAD PER PHASE
A = 13.17 B = 14.43 C = 18.24

LOAD TYPE (NUMBER)
P.Rm.L: Lighting Receps Motors L. Mot. Kitch Elevator Equip. Total

LOAD TYPE (DESCRIPTION)
TOTAL CONNECTED LOAD (KVA)
DEMAND MULTIPLIER
TOTAL DESIGN LOAD
TOTAL AMPS

NOTES:
1 VIA LIGHTING CONTROL SYSTEM (SEE DEVICE SCHEDULE FOR WATTSTOPPER LMRC-213)
2 VIA PLUG LOAD CONTROLLER (WATTSTOPPER LMPL-201)
3 SEE MECHANICAL PLANS FOR CONTROL WIRING REQUIREMENTS

RELAY#	ZONE	CIRCUIT	DESCRIPTION	NEMA RATING	CONTROL	NOTES
1	1	P1-25	LIGHTING - TRAINING (a)	1	TC ON/OFF, vs OVERRIDE ON, DIM	TC ON 6AM/TC OFF 7PM
2	1	P1-25	LIGHTING - TRAINING (b)	1	TC ON/OFF, vs OVERRIDE ON, DIM	TC ON 6AM/TC OFF 7PM
3	1	P1-25	LIGHTING - TRAINING (c)	1	TC ON/OFF, vs OVERRIDE ON, DIM	TC ON 6AM/TC OFF 7PM

ABBREVIATIONS:
TC TIMECLOCK LVS LOW VOLTAGE SWITCH STATION
PC PHOTOCELL OS OCCUPANCY SENSOR

CONTROL ZONE - OVER-RIDE SWITCHES (LABEL PER LIST BELOW)
ZONE 1: LV1 TRAINING (a,b,c) (LMSW-101)

RELAY#	ZONE	CIRCUIT	DESCRIPTION	NEMA RATING	CONTROL	NOTES
1	2	P1-29	LIGHTING - CONF. RM.	1	TC ON/OFF, vs OVERRIDE ON, DIM	TC ON 6AM/TC OFF 7PM
2	2	P1-29	LIGHTING - CONF. RM.	1	TC ON/OFF, vs OVERRIDE ON, DIM	TC ON 6AM/TC OFF 7PM
3	2	P1-29	LIGHTING - OFFICES	1	TC ON/OFF, vs OVERRIDE ON, DIM	TC ON 6AM/TC OFF 7PM

ABBREVIATIONS:
TC TIMECLOCK LVS LOW VOLTAGE SWITCH STATION
PC PHOTOCELL OS OCCUPANCY SENSOR

CONTROL ZONE - OVER-RIDE SWITCHES (LABEL PER LIST BELOW)
ZONE 2: LV2 CONF. RM./OFFICES (LMSW-101)

PL	ZONE	CIRCUIT	DESCRIPTION	NEMA RATING	CONTROL	NOTES
1	3	P1-18	RECEPT - OFFICES (CONTROLLED)	1	TC ON/OFF, vs OVERRIDE ON	TC ON 6AM/TC OFF 7PM
2	3	P1-26	RECEPT - OFFICES (CONTROLLED)	1	TC ON/OFF, vs OVERRIDE ON	TC ON 6AM/TC OFF 7PM
3	3	P1-38	RECEPT - OFFICE/CONF (CONTROLLED)	1	TC ON/OFF, vs OVERRIDE ON	TC ON 6AM/TC OFF 7PM

ABBREVIATIONS:
TC TIMECLOCK LVS LOW VOLTAGE SWITCH STATION
PC PHOTOCELL OS OCCUPANCY SENSOR

CONTROL ZONE - OVER-RIDE SWITCHES (LABEL PER LIST BELOW)
ZONE 3: LV3 RECEPTACLES - CONTROLLED (LMSW-103)

LIGHTING FIXTURE SCHEDULE

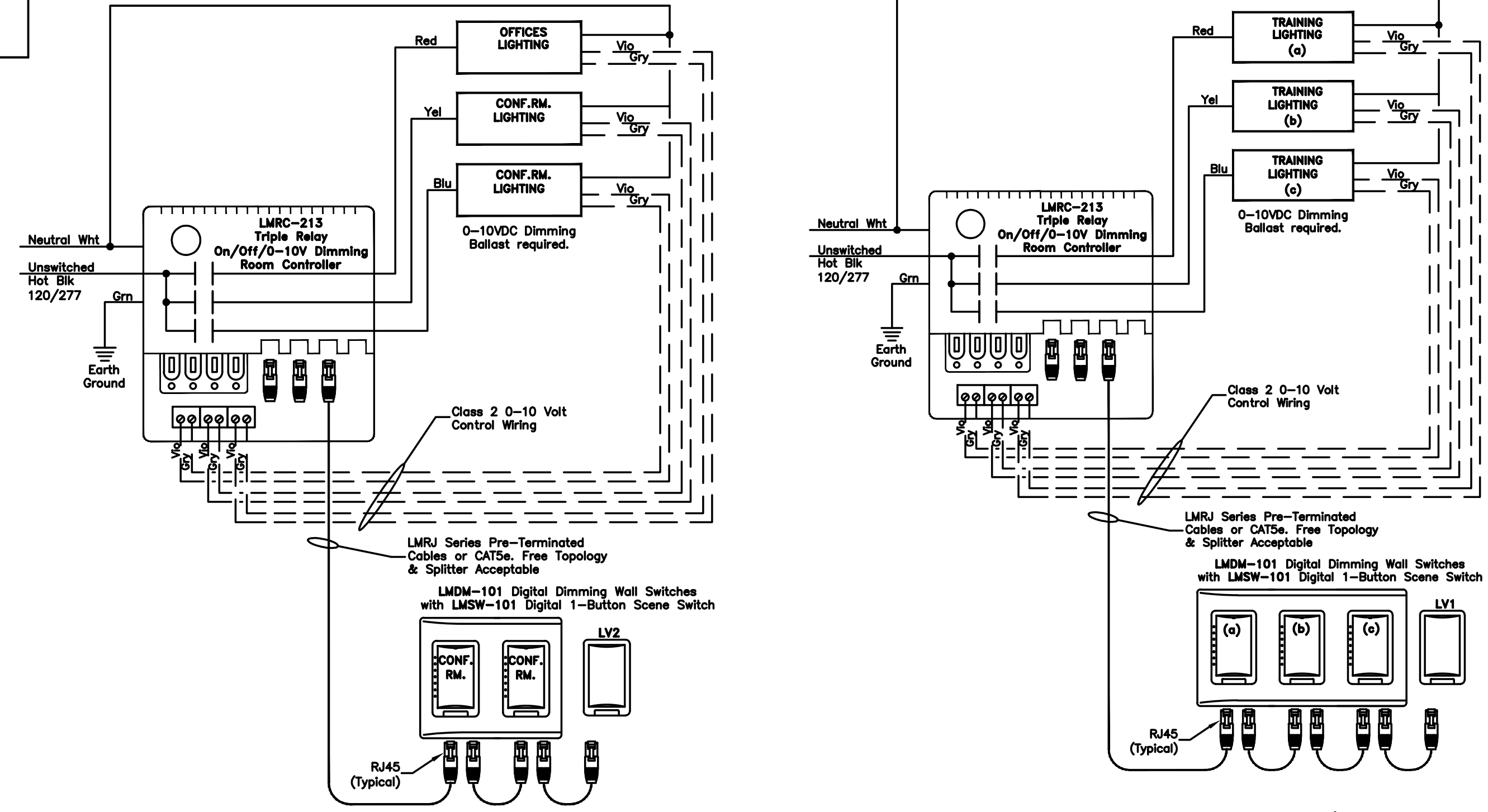
TYPE	DESCRIPTION	MANUFACTURE	CATALOG #	LAMP TYPE	No.	WATTS	TYPE	MOUNTING	NOTES
A1	LED 2X4' LAY-IN, OPAL DIFFUSER, 0-10V DIMMING, INTEGRAL OCCUPANCY SENSOR, 4900 LUMENS, 80 CRI.	PHILIPS/DAY-BRITE	ZDL-G-49L-835-4-D-UNV-DIM-OCC	3500K	1	55	0-10V LED DRIVER	RECESSED	CONFERENCE, OFFICES
A1A	SAME AS 'A1' EXCEPT WITH INTEGRAL DAYLIGHT SENSOR	-	-	-	-	-	-	-	DAYLIT AREAS
A2	LED 2X2' LAY-IN, OPAL DIFFUSER, INTEGRAL OCCUPANCY SENSOR, 3900 LUMENS, 80 CRI.	PHILIPS/DAY-BRITE	ZDL-G-44L-835-2-D-UNV-OCC	3500K	1	46	LED DRIVER	RECESSED	SMALL SPACES
F1A	SAME AS 'F1' EXCEPT WITH 90-MINUTE EMERGENCY BATTERY	-	SVPG-168L-600-WWW-SM-5-120-IMRI-MGY	-	-	-	-	-	EMERGENCY EGRESS, EXTERIOR LANDINGS
F2	LED STRIP LIGHT	WILLIAMS	75-2-LEDPH15-835-120	3500K	1	12	LED DRIVER	RECESSED	STORAGE
F3	4' SURFACE MOUNTED LIGHT, LED, 3900 LUMENS, 85 CRI	DAY-BRITE	LF4-FR39-35U-LAG	3500K	1	40	LED DRIVER	SURFACE	BATHROOMS
F4	LED UNDER-CABINET LIGHT	HERA	EL/LED/34 WITH EL2H/WB AND CONNECTING CABLE	3000K	1	12	LED DRIVER	SURFACE	KITCHENETTES
X	EXIT SIGN, GREEN LETTERING	EMERGI-LITE OR EQUAL	PRESTIGE SERIES TA-PE-FACE PER PLANS-GM	LED	-	-	-	PER PLANS	EGRESS PATHWAYS
EM	EMERGENCY EGRESS LIGHT	EMERGI-LITE OR EQUAL	EC-2 SERIES, WHITE	LED	-	-	-	PER PLANS	EGRESS PATHWAYS
EX	EMERGENCY LIGHT/EXIT SIGN COMBO	EMERGI-LITE OR EQUAL	PREMIER SERIES COMBO, WHITE	LED	-	-	-	PER PLANS	EGRESS PATHWAYS

NOTES:
A. ALL LED FIXTURES TO BE PROVIDED WITH NO LESS THAN A 5-YEAR WARRANTY
B. LAMPS TO HAVE 83+ CRI UNLESS OTHERWISE NOTED.
C. SPECIFIED MANUFACTURERS ARE APPROVED TO SUBMIT BID. INCLUSION DOES NOT RELIEVE MANUFACTURER FROM SUPPLYING PRODUCT AS DESCRIBED.
D. PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND BALLAST INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.
E. PROVIDE COMMISSIONING OF THE LIGHTING AND LIGHTING CONTROLS IN ACCORDANCE WITH CALIFORNIA TITLE 24 LIGHTING COMMISSIONING REQUIREMENTS.

LIGHTING CONTROLS AND DIGITAL LIGHTING MANAGEMENT DEVICE SCHEDULE

TYPE	MODEL	MANUFACTURE	Type	VOLTAGE	CONTROLLER	MOUNTING	LOCATIONS	SETTINGS
A	LMPW-100	Wattstopper	PIR	LOW VOLTAGE	LIM	WALL	SM. SPACES	Manual-ON, Time delay - 30 minutes
LV	LMSW-101	Wattstopper - DIGITAL SWITCH	1-BUTTON	LOW VOLTAGE	DLM	WALL	ZONES PER SCHEDULE	OVER-RIDE SWITCH
DLM	LMRC-212	Wattstopper - DIGITAL LIGHTING MANAGEMENT	-	LINE VOLTAGE	-	WALL	DIMMABLE SPACES	Program 'ON' 1 hours before opening, 'OFF' 1 hours after closing.
D	LMDM-101	Wattstopper - DIMMER	-	LOW VOLTAGE	DLM	WALL	-	SEE DIAGRAM
PL	LMPL-201	Wattstopper - PLUG LOAD CONTROLLER	-	LOW VOLTAGE	-	WALL	-	ONE UNIT PER CIRCUIT

A. Sensor may be the same product with different settings for each space. See SETTINGS column for specifics.
B. CONTRACTOR TO VERIFY FINISH/COLOR WITH OWNER OR OWNER REPRESENTATIVE PRIOR TO ORDERING.



LIGHTING CONTROL DIAGRAM - DLM2
SCALE: NONE

DEVICES ARE PRESET FOR PLUG n' GO OPERATION. ADJUSTMENT IS OPTIONAL. Sequence of Operation: In this configuration the LMRC-213 defaults to multi-level automatic-on/automatic-off operation. Load (a) on the LMRC-213 turns on automatically, while Load (b) & (c) defaults to manual-on control; all relays turn off automatically.

LMRC-213 Relay
0-10V Dimming Wiring Diagram

LIGHTING CONTROL DIAGRAM - DLM1
SCALE: NONE

DEVICES ARE PRESET FOR PLUG n' GO OPERATION. ADJUSTMENT IS OPTIONAL. Sequence of Operation: In this configuration the LMRC-213 defaults to multi-level automatic-on/automatic-off operation. Load (a) on the LMRC-213 turns on automatically, while Load (b) & (c) defaults to manual-on control; all relays turn off automatically.

LMRC-213 Relay
0-10V Dimming Wiring Diagram



Revisions

1 PLAN CHECK #1
DATED 06/29/16

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DISTRICT SUPPORT SERVICES BLDG
for
GRASS VALLEY SCHOOL DISTRICT
GILMORE WAY, GRASS VALLEY, APN29-030-02

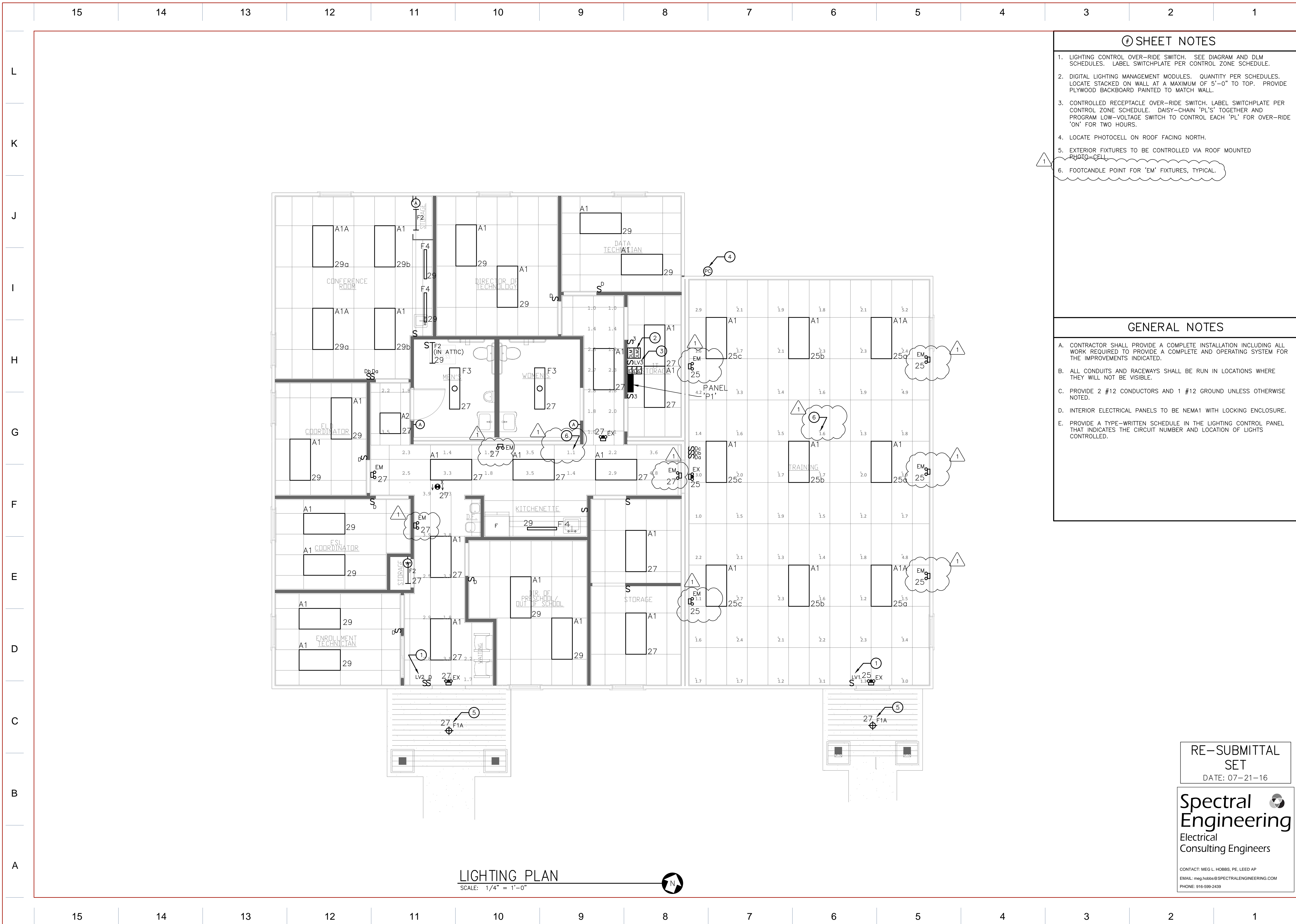
RE-SUBMITTAL SET
DATE: 07-21-16

Spectral Engineering
Electrical Consulting Engineers

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EMAIL: mhg.hobbs@SPECTRALENGINEERING.COM
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SCHEDULES & DIAGRAMS

E0.2

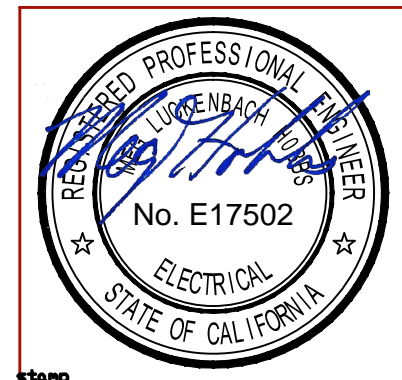


SHEET NOTES

- LIGHTING CONTROL OVER-RIDE SWITCH. SEE DIAGRAM AND DLM SCHEDULES. LABEL SWITCHPLATE PER CONTROL ZONE SCHEDULE.
- DIGITAL LIGHTING MANAGEMENT MODULES. QUANTITY PER SCHEDULES. LOCATE STACKED ON WALL AT A MAXIMUM OF 5'-0" TO TOP. PROVIDE PLYWOOD BACKBOARD PAINTED TO MATCH WALL.
- CONTROLLED RECEPTACLE OVER-RIDE SWITCH. LABEL SWITCHPLATE PER CONTROL ZONE SCHEDULE. DAISY-CHAIN 'PL'S' TOGETHER AND PROGRAM LOW-VOLTAGE SWITCH TO CONTROL EACH 'PL' FOR OVER-RIDE 'ON' FOR TWO HOURS.
- LOCATE PHOTOCELL ON ROOF FACING NORTH.
- EXTERIOR FIXTURES TO BE CONTROLLED VIA ROOF MOUNTED PHOTO-CELL.
- FOOTCANDLE POINT FOR 'EM' FIXTURES, TYPICAL.

GENERAL NOTES

- CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION INCLUDING ALL WORK REQUIRED TO PROVIDE A COMPLETE AND OPERATING SYSTEM FOR THE IMPROVEMENTS INDICATED.
- ALL CONDUITS AND RACEWAYS SHALL BE RUN IN LOCATIONS WHERE THEY WILL NOT BE VISIBLE.
- PROVIDE 2 #12 CONDUCTORS AND 1 #12 GROUND UNLESS OTHERWISE NOTED.
- INTERIOR ELECTRICAL PANELS TO BE NEMA1 WITH LOCKING ENCLOSURE.
- PROVIDE A TYPE-WRITTEN SCHEDULE IN THE LIGHTING CONTROL PANEL THAT INDICATES THE CIRCUIT NUMBER AND LOCATION OF LIGHTS CONTROLLED.



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DISTRICT SUPPORT SERVICES BLDG
 for
 GRASS VALLEY SCHOOL DISTRICT
 GILMORE WAY, GRASS VALLEY, APN29-030-02

DATE: 3/14/16

SCALE: 15-397

LIGHTING PLAN

E2.1

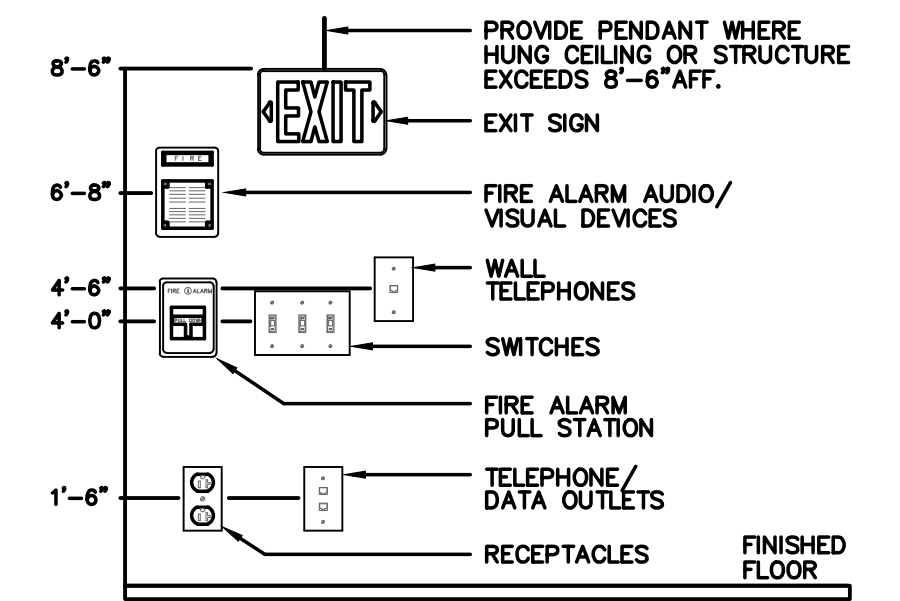
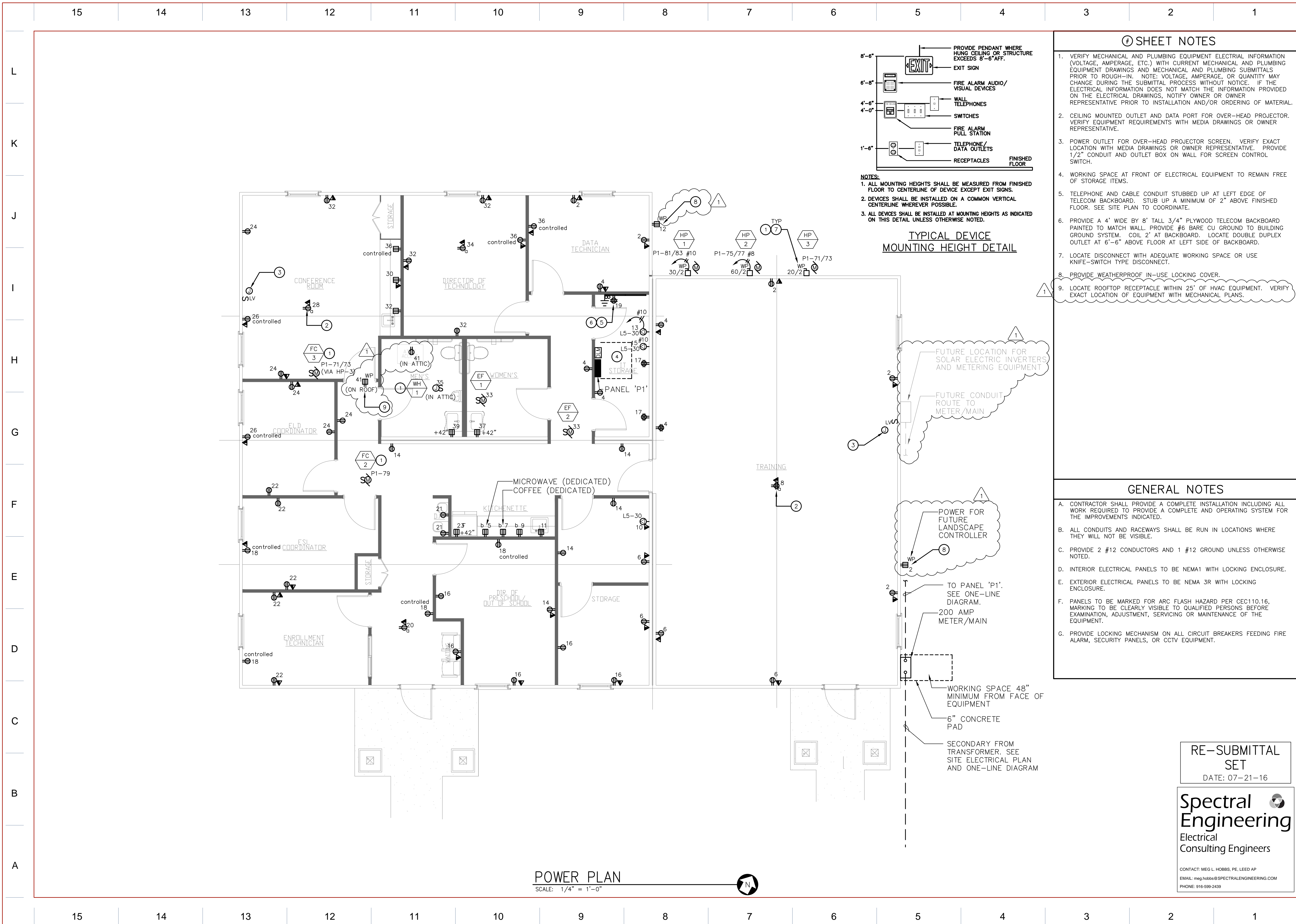
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 DATE: 07-21-16

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





- NOTES:**
1. ALL MOUNTING HEIGHTS SHALL BE MEASURED FROM FINISHED FLOOR TO CENTERLINE OF DEVICE EXCEPT EXIT SIGNS.
 2. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL CENTERLINE WHEREVER POSSIBLE.
 3. ALL DEVICES SHALL BE INSTALLED AT MOUNTING HEIGHTS AS INDICATED ON THIS DETAIL UNLESS OTHERWISE NOTED.

TYPICAL DEVICE MOUNTING HEIGHT DETAIL

SHEET NOTES

1. VERIFY MECHANICAL AND PLUMBING EQUIPMENT ELECTRICAL INFORMATION (VOLTAGE, AMPERAGE, ETC.) WITH CURRENT MECHANICAL AND PLUMBING EQUIPMENT DRAWINGS AND MECHANICAL AND PLUMBING SUBMITTALS PRIOR TO ROUGH-IN. NOTE: VOLTAGE, AMPERAGE, OR QUANTITY MAY CHANGE DURING THE SUBMITTAL PROCESS WITHOUT NOTICE. IF THE ELECTRICAL INFORMATION DOES NOT MATCH THE INFORMATION PROVIDED ON THE ELECTRICAL DRAWINGS, NOTIFY OWNER OR OWNER REPRESENTATIVE PRIOR TO INSTALLATION AND/OR ORDERING OF MATERIAL.
2. CEILING MOUNTED OUTLET AND DATA PORT FOR OVER-HEAD PROJECTOR. VERIFY EQUIPMENT REQUIREMENTS WITH MEDIA DRAWINGS OR OWNER REPRESENTATIVE.
3. POWER OUTLET FOR OVER-HEAD PROJECTOR SCREEN. VERIFY EXACT LOCATION WITH MEDIA DRAWINGS OR OWNER REPRESENTATIVE. PROVIDE 1/2" CONDUIT AND OUTLET BOX ON WALL FOR SCREEN CONTROL SWITCH.
4. WORKING SPACE AT FRONT OF ELECTRICAL EQUIPMENT TO REMAIN FREE OF STORAGE ITEMS.
5. TELEPHONE AND CABLE CONDUIT STUBBED UP AT LEFT EDGE OF TELECOM BACKBOARD. STUB UP A MINIMUM OF 2" ABOVE FINISHED FLOOR. SEE SITE PLAN TO COORDINATE.
6. PROVIDE A 4" WIDE BY 8" TALL 3/4" PLYWOOD TELECOM BACKBOARD PAINTED TO MATCH WALL. PROVIDE #6 BARE CU GROUND TO BUILDING GROUND SYSTEM. COIL 2" AT BACKBOARD. LOCATE DOUBLE DUPLEX OUTLET AT 6"-6" ABOVE FLOOR AT LEFT SIDE OF BACKBOARD.
7. LOCATE DISCONNECT WITH ADEQUATE WORKING SPACE OR USE KNIFE-SWITCH TYPE DISCONNECT.
8. PROVIDE WEATHERPROOF IN-USE LOCKING COVER.
9. LOCATE ROOFTOP RECEPTACLE WITHIN 25' OF HVAC EQUIPMENT. VERIFY EXACT LOCATION OF EQUIPMENT WITH MECHANICAL PLANS.

GENERAL NOTES

- A. CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION INCLUDING ALL WORK REQUIRED TO PROVIDE A COMPLETE AND OPERATING SYSTEM FOR THE IMPROVEMENTS INDICATED.
- B. ALL CONDUITS AND RACEWAYS SHALL BE RUN IN LOCATIONS WHERE THEY WILL NOT BE VISIBLE.
- C. PROVIDE 2 #12 CONDUCTORS AND 1 #12 GROUND UNLESS OTHERWISE NOTED.
- D. INTERIOR ELECTRICAL PANELS TO BE NEMA 1 WITH LOCKING ENCLOSURE.
- E. EXTERIOR ELECTRICAL PANELS TO BE NEMA 3R WITH LOCKING ENCLOSURE.
- F. PANELS TO BE MARKED FOR ARC FLASH HAZARD PER CEC110.16. MARKING TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT.
- G. PROVIDE LOCKING MECHANISM ON ALL CIRCUIT BREAKERS FEEDING FIRE ALARM, SECURITY PANELS, OR CCTV EQUIPMENT.

FUTURE LOCATION FOR SOLAR ELECTRIC INVERTERS AND METERING EQUIPMENT

FUTURE CONDUIT ROUTE TO METER/MAIN

POWER FOR FUTURE LANDSCAPE CONTROLLER

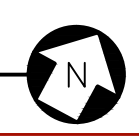
TO PANEL 'P1'. SEE ONE-LINE DIAGRAM.
200 AMP METER/MAIN

WORKING SPACE 48" MINIMUM FROM FACE OF EQUIPMENT

6" CONCRETE PAD

SECONDARY FROM TRANSFORMER. SEE SITE ELECTRICAL PLAN AND ONE-LINE DIAGRAM

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



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POWER PLAN

E3.1

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