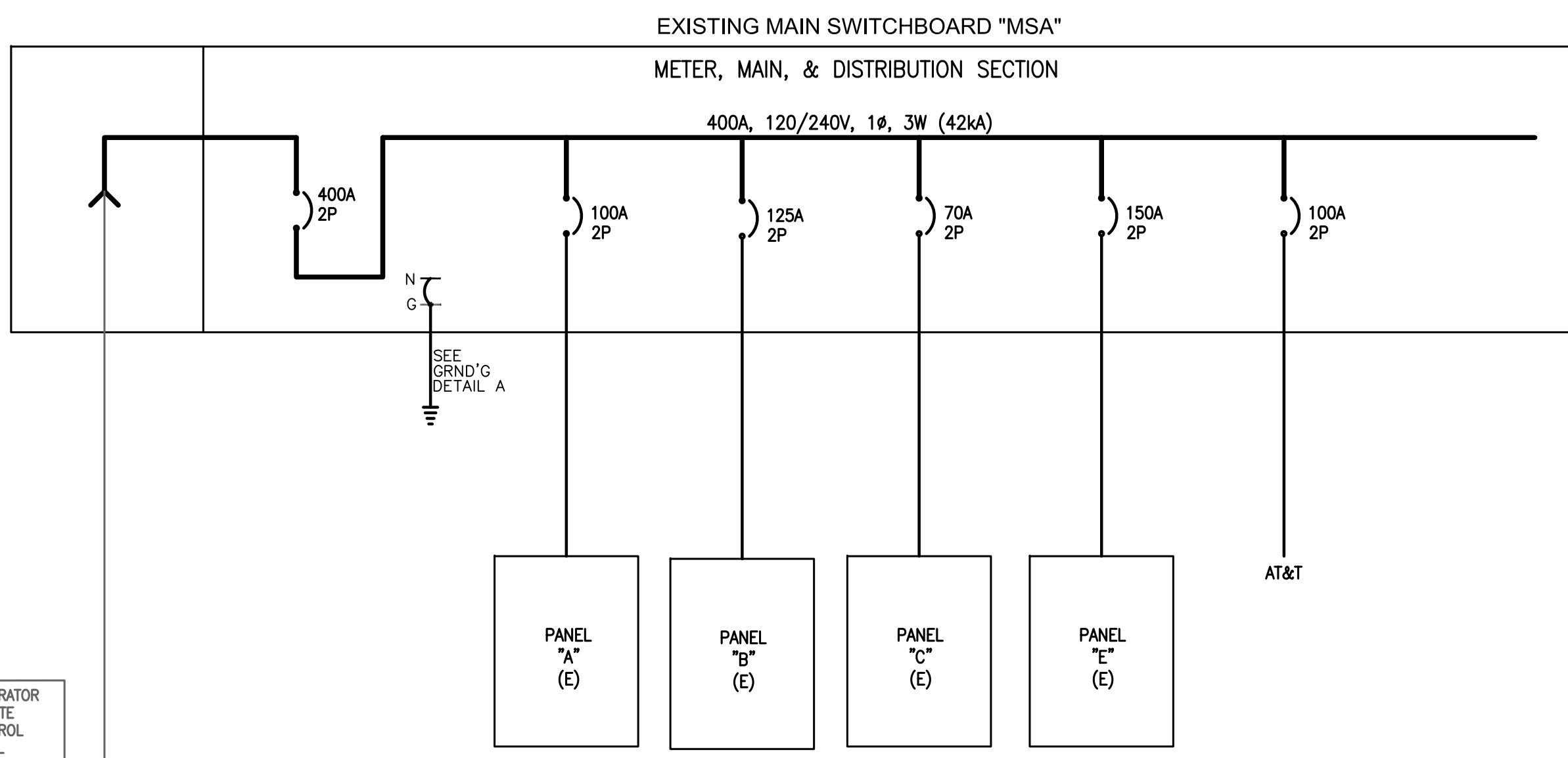
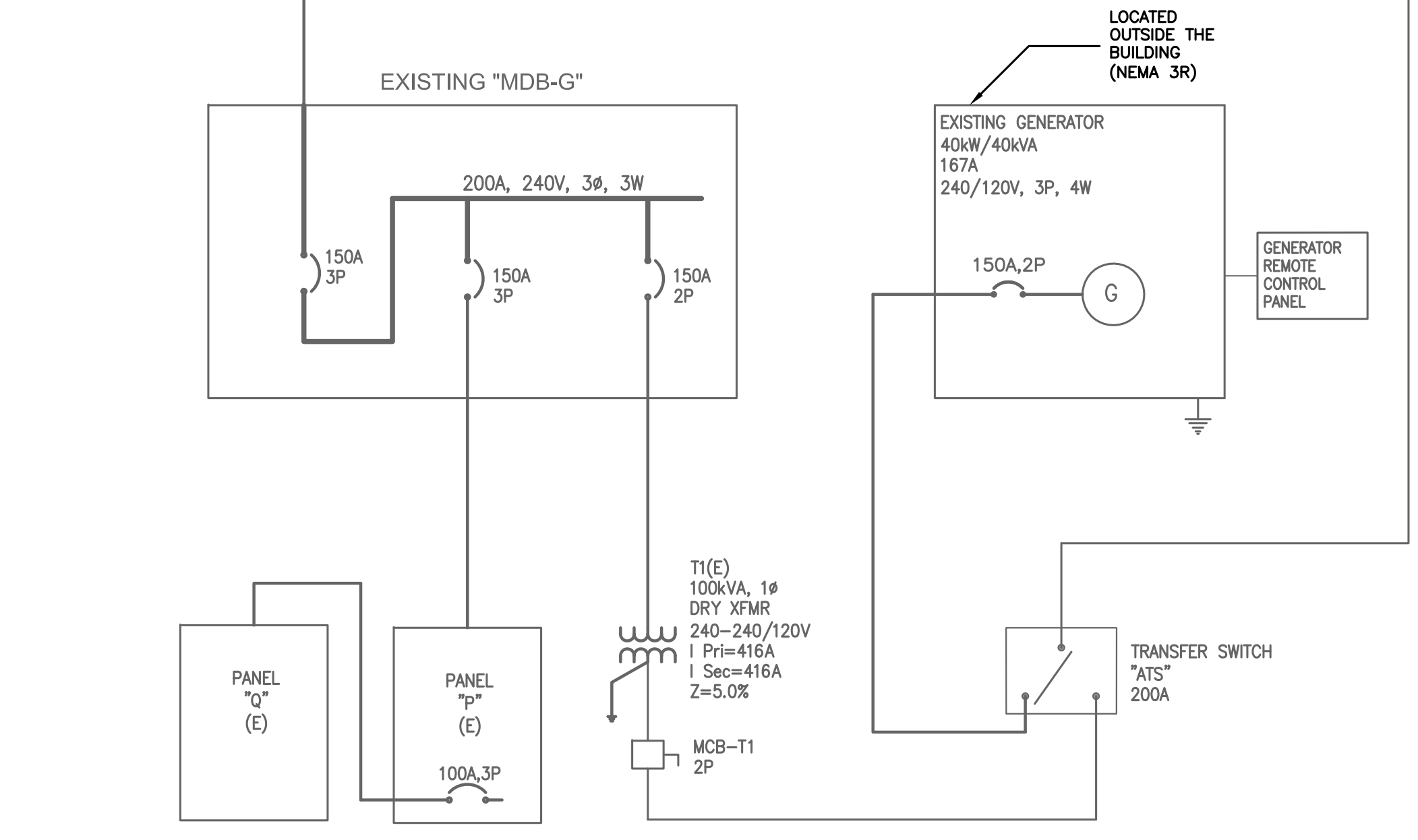


NOTE:  
1. ELECTRICAL CONTRACTOR TO VERIFY THE EXISTING SINGLE LINE DIAGRAM



EXISTING SINGLE LINE DIAGRAM  
SCALE: NONE



ROOM MOUNTING FLOOR FED FROM ATS NOTE		VOLTS 240/120V 2P 3W BUS AMPS 400 NEUTRAL 100%		AIC 42,000 MAIN BKR MLO LUGS STANDARD	
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION		LOAD KVA	
1	100/2	PANEL A	14.13	12.33	FEEDER RACEWAY AND CONDUCTORS 1" C, 2#3, #3N, #8G 1-1/4" C, 2#1, #1N, #6G 1" C, 2#4, #4N, #8G 1-1/2" C, 2#1/0, #1/0N, #6G
2	125/2	PANEL B	12.56	12.49	
3	70/2	PANEL C	4.57	4.35	
4	150/2	PANEL E	14.43	16.02	
5	100/2	AT&T	0.00	0.00	
6	-/2	SPACE	0.00	0.00	
TOTAL CONNECTED KVA BY PHASE				45.69	45.19
		CONN KVA	CALC KVA	CONN KVA	CALC KVA
LIGHTING		13.52	16.91 (125%)	3.90	4.88 (125%)
LARGEST MOTOR		6.40	1.60 (25%)	0.70	0.00 (0%)
OTHER MOTORS		19.72	19.72 (100%)	6.40	6.40 (100%)
RECEPTACLES		46.64	28.32 (50%>10)	0.00	0.00 (100%)
KITCHEN EQUIP		0.00	0.00 (N/A)	0.00	0.00 (N/A)
				0.00	0.00 (125%)
				0.00	0.00 (N/A)
				0.00	0.00 (125%)
				90.88	77.82
				BALANCED AMPS	324.23

CALLOUT	SYMBOL	VOLTS	FEATURES	NOTE 1
COFFEE MACHINE		120V 1P 2W	GND	
DUPLEX		120V 1P 2W	GND	
DUPLEX-USB		120V 1P 2W	GND	DUPLEX RECEPTACLE W/ USB CHARGER
GFCI		120V 1P 2W	GFCI, GND	
HEATER		120V 1P 2W	GND	MODEL PER MECHNAICAL ENGINEER
REFRIGERATOR		120V 1P 2W	GND	
XFMR-LV-40		120V 1P 2W	GND	LV TRANSFORMER BY LUMINI MODEL NO. PSV-40-24V-U2DIM-D
XFMR-LV-60		120V 1P 2W	GND	LV TRANSFORMER BY LUMINI MODEL NO. PSV-60-24V-U2DIM-D

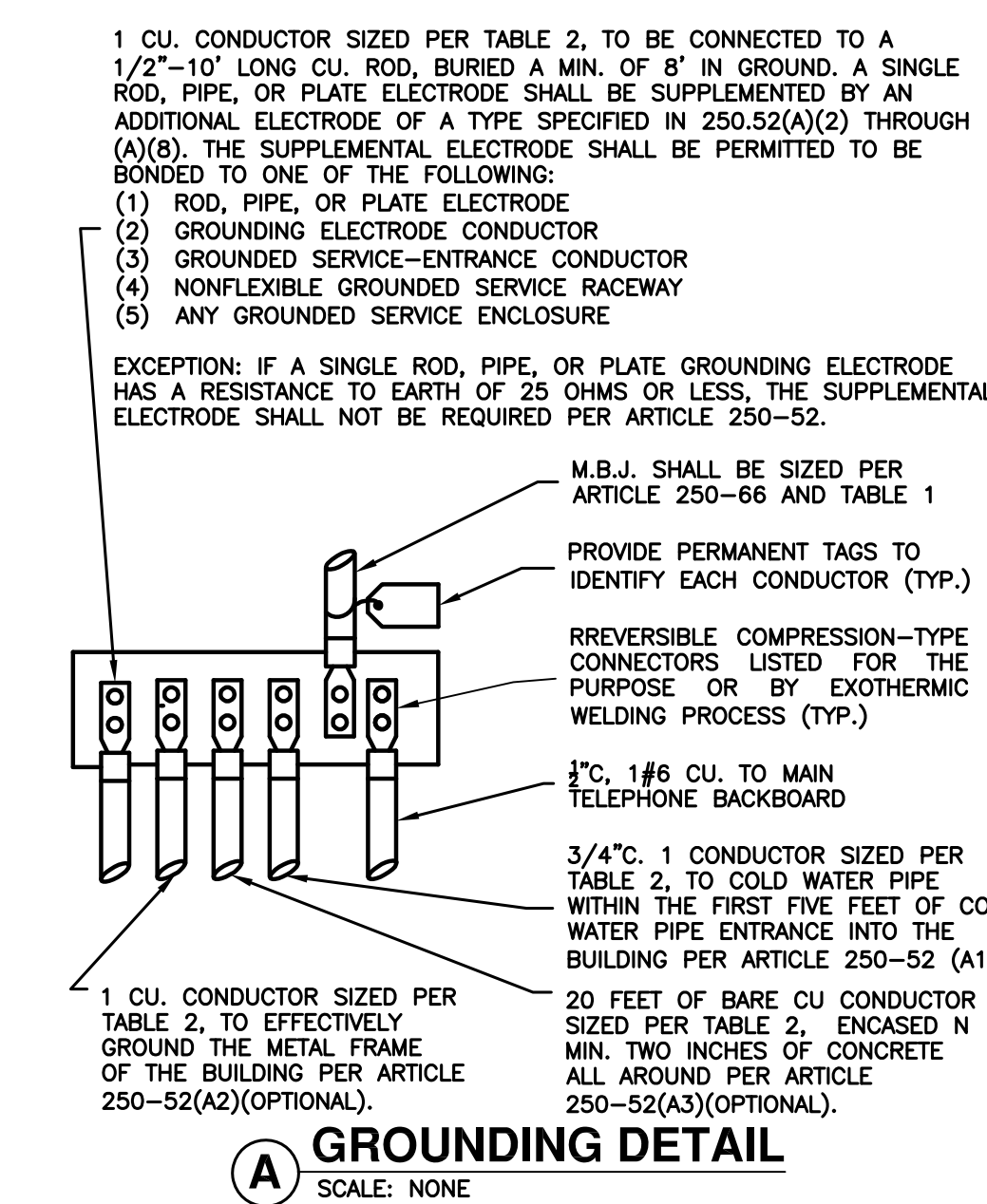
CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	INPUT WATTS	VOLTS
K-EXIT		(1) 1W LED	ILLUMINATED EXIT SIGN W/ 90 MIN. BATTERY BACKUP	ELECTRONIC	CEILING	EXISTING	2	120V 1P 2W
LT-1		(1) 39W LED	2X4 LED LIGHT FIXTURE	DIMMING	CEILING	EXISTING	39	120V 1P 2W
LT-2		(1) 12.2W LED	6" RECESSED LIGHT FIXTURE W/ WET TRIM	DIMMING	RECESSED	COOPER LIGHTING HALO SLD6068-35-WH-JB	12.2	120V 1P 2W
LT-3		(1) 5W LED	VANITY LIGHT FIXTURE	DIMMING	WALL	LIGHTOLGY TWIGGY 24V T1 LENSE RECTANGLE VANITY. MODEL EDG408588	5	120V 1P 2W
LT-4		(1) 3W LED	UNDER CABINET TAPE LIGHT FIXTURE	DIMMING	SURFACE	LUMINI LL36 (3WT/FT) MOUNTING CHANNEL: SLIM LINE 15	3	120V 1P 2W
LT-6		(1) 26W CFL	WALL MOUNTED LIGHT FIXTURE	ELECTRONIC	WALL	EXISTING	28	120V 1P 2W

- SINGLE LINE DIAGRAM NOTES:
- ALL WORK SHALL BE PERFORMED PER 2013 CALIFORNIA ELECTRICAL CODE.
  - ALL ELECTRICAL EQUIPMENT AND SWITCHBOARDS SHALL BE FULLY RATED.
  - ALL ELECTRICAL EQUIPMENT AND SWITCHBOARDS SHALL BE SERIES RATED.
  - PROVIDE A CAUTIONARY LABEL TO THE SERIES RATED DEVICE COVER STATING "CAUTION-SERIES COMBINATION SYSTEM RATED - IDENTIFIED REPLACEMENT COMPONENTS REQUIRED".
  - ALL ELECTRICAL EQUIPMENT, SWITCHBOARDS, ETC. TO WITHSTAND AVAILABLE FAULT CURRENT. VERIFY WITH SERVING UTILITY COMPANY.
  - ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF BEVERLY HILLS RECOGNIZED ELECTRICAL TESTING LABORATORY OR UL.
  - PROVIDE SEISMIC BRACING FOR ALL SERVICE EQUIPMENT, SWITCHBOARDS AND OTHER FLOOR STANDING EQUIPMENT BY INSTALLING APPROVED ANCHORS TO THE BUILDING STRUCTURE FROM EACH EQUIPMENT ENCLOSURE.
  - FURNISH ELECTRICAL EQUIPMENT OF THE SAME TYPE OR CLASS FROM ONE MANUFACTURER.
  - EQUIP ALL DISTRIBUTION FUSIBLE SWITCHES WITH REJECTION TYPE FUSE CLIPS FOR USE WITH CURRENT LIMITING, U.L. CLASS "R" FUSES.
  - PROVIDE FUSES FROM ONE MANUFACTURER OF THE FOLLOWING TYPES:  
A. "RK-1" - U.L. CLASS "RK-1" CURRENT LIMITING FUSES, "BUSSMANN" LOW-PEAK TYPE LPN-RK\_SP.  
B. "RKS" - U.L. CLASS "RKS" CURRENT LIMITING, DUAL ELEMENT FUSES, "BUSSMANN" LOW-PEAK TYPE LPN-RK\_SP.
  - ALL CONDUCTORS SHALL BE COPPER WITH TYPE "THWN/THHN" INSULATION RATED FOR 600 VOLTS.
  - FEEDER LENGTHS NOTED ON DRAWINGS ARE FOR VOLTAGE DROP AND SHORT CIRCUIT CALCULATIONS ONLY AND ARE NOT TO BE USED FOR ESTIMATE OR MATERIAL TAKE-OFF.
  - NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE.
  - ALL TERMINALS/LUGS SHALL BE DUAL RATED 60/75 C.
  - THE ELECTRICAL ROOM DOOR SHALL OPEN OUTWARD AND SHALL BE EQUIPPED WITH PANIC HARDWARE.
  - THE GROUNDING CONDUCTOR SHALL BE CONNECTED TO WATER PIPE (GROUNDING ELECTRODE) WITHIN 5' FROM THE POINT OF ENTRANCE INTO THE BUILDING.
  - PROVIDE SEISMIC ANCHORING AND BRACING FOR MAIN SWITCHBOARD AND ALL STANDING SECTIONS.
  - ELEVATOR CIRCUIT BREAKER SHALL BE EQUIPPED W/ SHUNT TRIP (SIEMENS C/D TYPE FXD6 OR EQ.)
  - INSTALL 1" CONDUIT FROM THE MAIN SWITCHBOARD TO THE ROOF AND TERMINATE IN A 12"X12" NEW 3R BOX FOR FUTURE SOLAR. THE CONDUIT FOR THE FUTURE ELECTRICAL SOLAR SYSTEM SHALL BE LABELED AS PER LOS ANGELES FIRE DEPARTMENT REQUIREMENTS.
  - CIRCUIT BREAKERS USED AS SWITCHES IN 120 AND 277 VOLT FLUORESCENT LIGHTING CIRCUITS SHALL BE LISTED AND MARKED AS "SWD" OR "HID".
  - PROVIDE A LABEL STATING "EV CAPABLE" IS A CONSPICUOUS PLACE AT THE SERVICE PANEL OR SUBPANEL AND NEXT TO THE RACEWAY TERMINATION POINT.
  - CONDUCTORS OF A MULTI-WIRE BRANCH CIRCUIT SHALL CONSPICUOUSLY ORIGINATE FROM THE SAME PANELBOARD. THE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES (210.4, 240.15(B)(1))

SERVICE SIZE	M.B.J. SIZE
0-1000 A	# 3/0
1200 A	# 4/0
1600 A	250 MCM
2000 A	300 MCM
2500 A	500 MCM
3000 A	500 MCM
4000 A	600 MCM

Service Size	G.E.C. Size
0-200 A	#4
201-400 A	#1/0
Over 401 A	#3/0



- ELECTRICAL DEMOLITION NOTES
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND THE EXACT NATURE OF THE WORK TO BE DONE, AND TAKE INTO ACCOUNT ANY SPECIAL OR UNUSUAL FEATURES PECULIAR TO THIS JOB.
  - THE ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BID.
  - ALL EXISTING ELECTRICAL DEVICES (LIGHTING FIXTURES, LIGHT SWITCHES, EXIT LIGHTS, SPEAKERS, RECEPTACLE OUTLETS, TELEPHONE AND/OR DATA OUTLETS, ETC.) SHALL BE DISCONNECTED AND REMOVED U.O.N.
  - THE ELECTRICAL CONTRACTOR SHALL INSPECT AND CHECK THE ACTUAL SCOPE OF WORK TO BE DEMOLISHED.
  - FOR COMPLETE DEMOLITION PLAN SEE ARCHITECTURAL DRAWINGS.
  - ALL EXISTING ELECTRICAL EQUIPMENT, INCLUDING CONDUIT, WIRING, BOXES, ECT. THAT SERVE UNDISTURBED AREAS BUT PASS THROUGH REMODELED AREAS AND ARE IN CONFLICT WITH NEW WORK SHALL BE REPLACED OR RELOCATED AT NO EXTRA COST.
  - AREAS TO BE REMODELED. DISCONNECT AND REMOVE ALL UNUSED CONDUIT AND WIRE BACK TO NEAREST REMAINING OUTLET OR PANELBOARD. WHERE REQUIRED, RECONNECT WIRING TO RE-ESTABLISH ALL CIRCUITRY AS BEFORE. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED LABOR AND MATERIAL TO MAINTAIN CIRCUITRY FOR REMAINING DEVICES.
  - ALL FLOOR STUBBED-OUT CONDUITS AND WIRES: DISCONNECT CONDUIT AND WIRE AT BOTH ENDS AND REMOVE WIRE. CUT CONDUIT TO BELOW SLAB, CAP BOTH ENDS AND ABANDON. WHERE REQUIRED, RECONNECT WIRING (PROVIDE NEW BOXES, CONDUIT, WIRE, ETC.) TO RE-ESTABLISH ALL CIRCUITRY AS BEFORE.
  - PRIOR TO DISCONNECTING ANY CABLES (POWER FEEDERS, PAGING SYSTEM, TELEPHONE, FIRE ALARM, ETC.) FOR RE-ROUTING OR INTERCEPTING EXISTING CABLES, ELECTRICAL CONTRACTOR SHALL OBTAIN OWNER'S AND ARCHITECT'S WRITTEN APPROVAL.

REV.	DATE	BY	DESCRIPTION
02-06-17	VA		CARD READERS ADDED
06-06-17	VA		S/D UPDATED & TRAILERS ADDED

**ABRARI ASSOCIATES**  
ELECTRICAL ENGINEERS

1713 STANDARD AVE.  
GLENDALE, CA 91201  
W 818.956.1900  
MAIL@ABRARI.COM

**07.06.17 BID SET**

**CITY OF BEVERLY HILLS  
FIRE STATION # 2- TENANT IMPROVEMENT  
1100 COLDWATER CANYON DRIVE,  
BEVERLY HILLS, CA 90210**

REGISTERED PROFESSIONAL ENGINEER  
H. R. ABRARI  
NO. 13294  
EXP. 3-30-18  
ELECTRICAL  
STATE OF CALIFORNIA

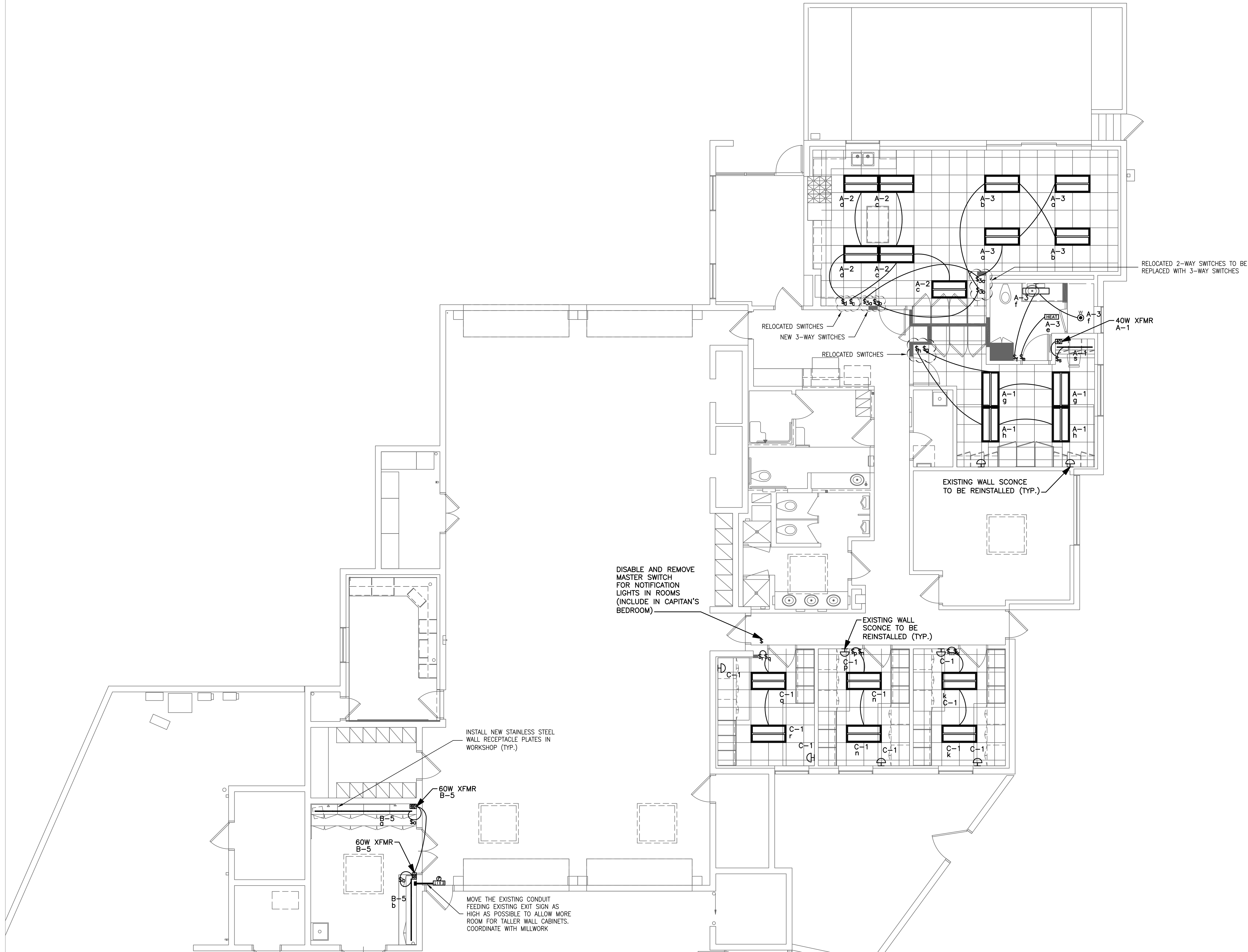
*Henry R. Abrari*

**SHEET TITLE**  
**SINGLE LINE DIAGRAM & LOAD CALCS.**


PROJECT NO.: 16-  
SCALE: AS SHOWN  
DATE: 07-14-16  
BY: VA  
CHECKED: HRA  
DRAWING NO. **E-2.0**

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REFERENCED BY THIS DRAWING ARE OWNED BY ABRARI AND ASSOCIATES AND WERE CREATED AND DEVELOPED FOR USE AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN AUTHORIZATION OF ABRARI AND ASSOCIATES INC.





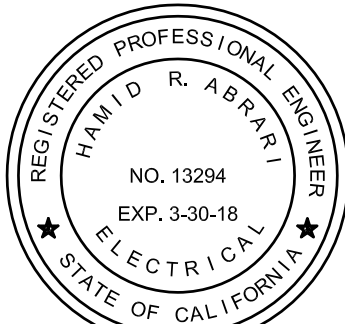
REV.	DATE	BY	DESCRIPTION
1	02-06-17	VA	CARD READERS ADDED
2	06-06-17	VA	SLD UPDATED & TRAILERS ADDED

  
**ABRARI**  
 ASSOCIATES  
 ELECTRICAL ENGINEERS

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 W 818.956.1900  
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07.06.17 BID SET

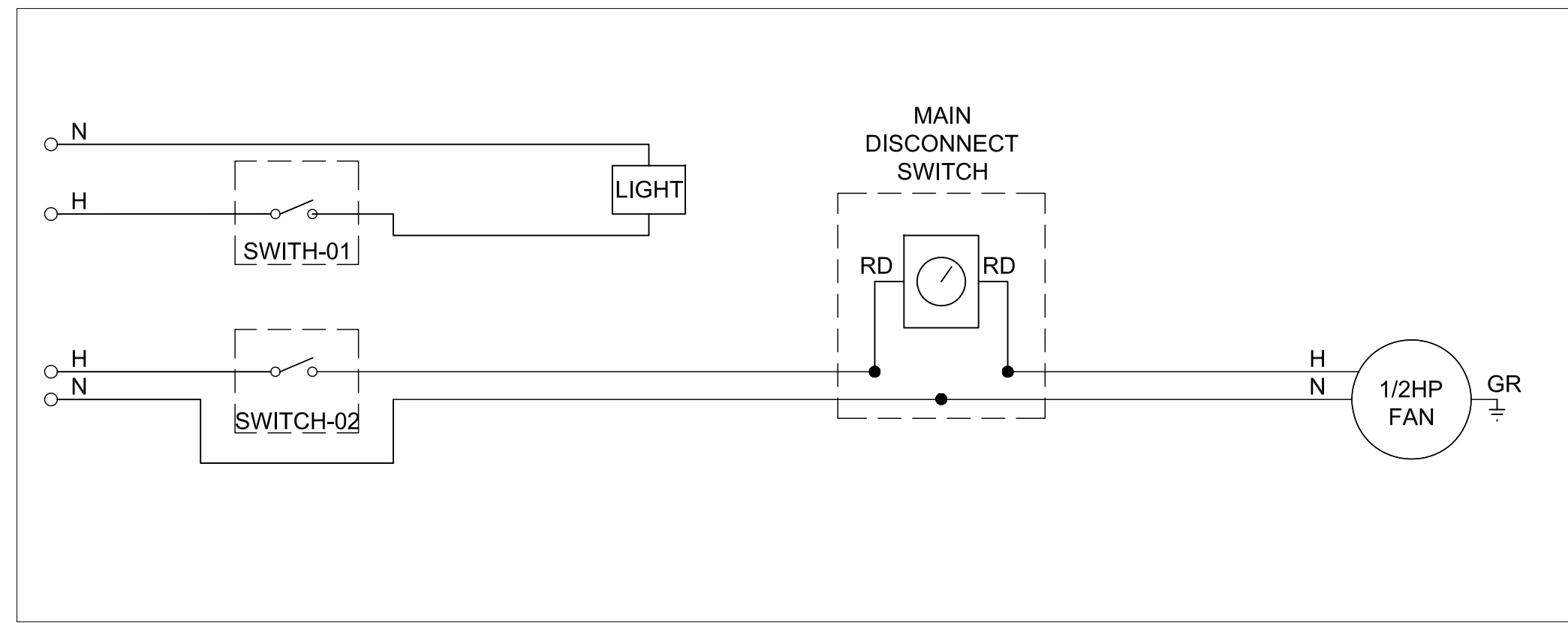
**PROJECT**  
 CITY OF BEVERLY HILLS  
 FIRE STATION # 2- TENANT IMPROVEMENT  
 1100 COLDWATER CANYON DRIVE,  
 BEVERLY HILLS, CA 90210

  
 REGISTERED PROFESSIONAL ENGINEER  
 HENRY R. ALAN  
 NO. 13294  
 EXP. 3-30-18  
 ELECTRICAL  
 STATE OF CALIFORNIA  
*Henry R. Alan*

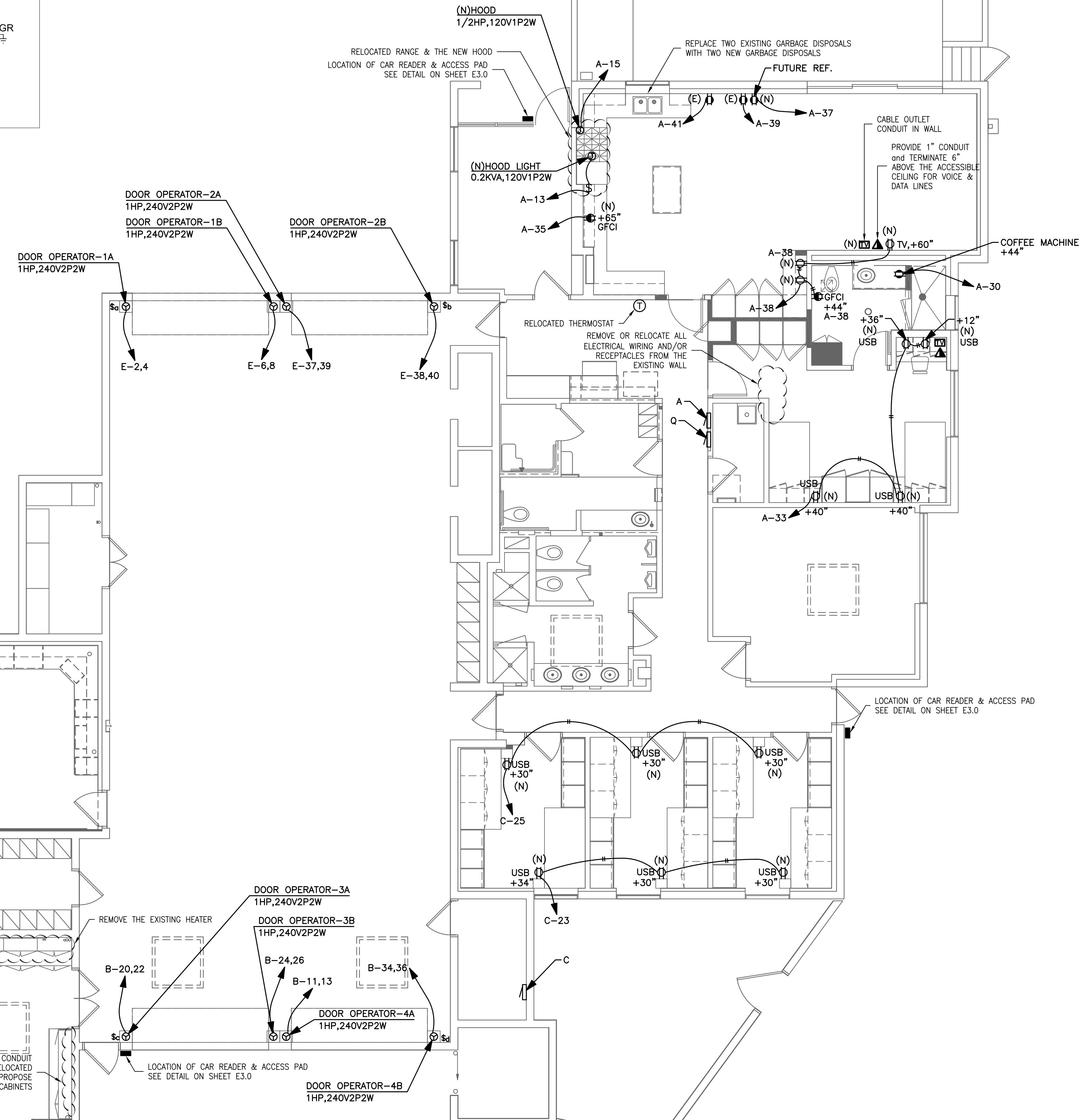
**SHEET TITLE**  
 LIGHTING PLAN

PROJECT NO.: 16-  
 SCALE: 3/16"=1'-0"  
 DATE: 07-14-16  
 BY: VA  
 CHECKED: HRA  
 DRAWING NO.  
**E-4.0**

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**1 HOOD WIRING DIAGRAM**  
SCALE: NONE



**MATCH LINE B**  
**SEE SHEET E-5.1**

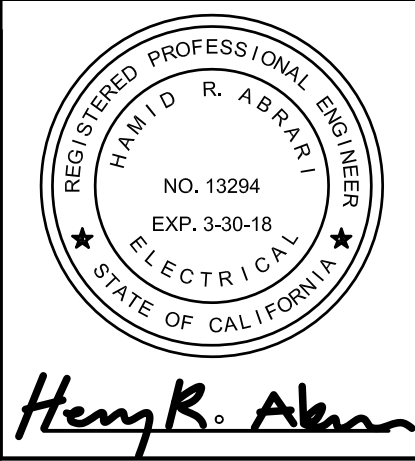
REV.	DATE	BY	DESCRIPTION
1	02-06-17	VA	CARD READERS ADDED
2	06-06-17	VA	SLD UPDATED & TRAILERS ADDED
3			
4			
5			
6			
7			
8			
9			
10			

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ELECTRICAL ENGINEERS

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**07.06.17 BID SET**

**CITY OF BEVERLY HILLS**  
**FIRE STATION # 2- TENANT IMPROVEMENT**  
**1100 COLDWATER CANYON DRIVE,**  
**BEVERLY HILLS, CA 90210**



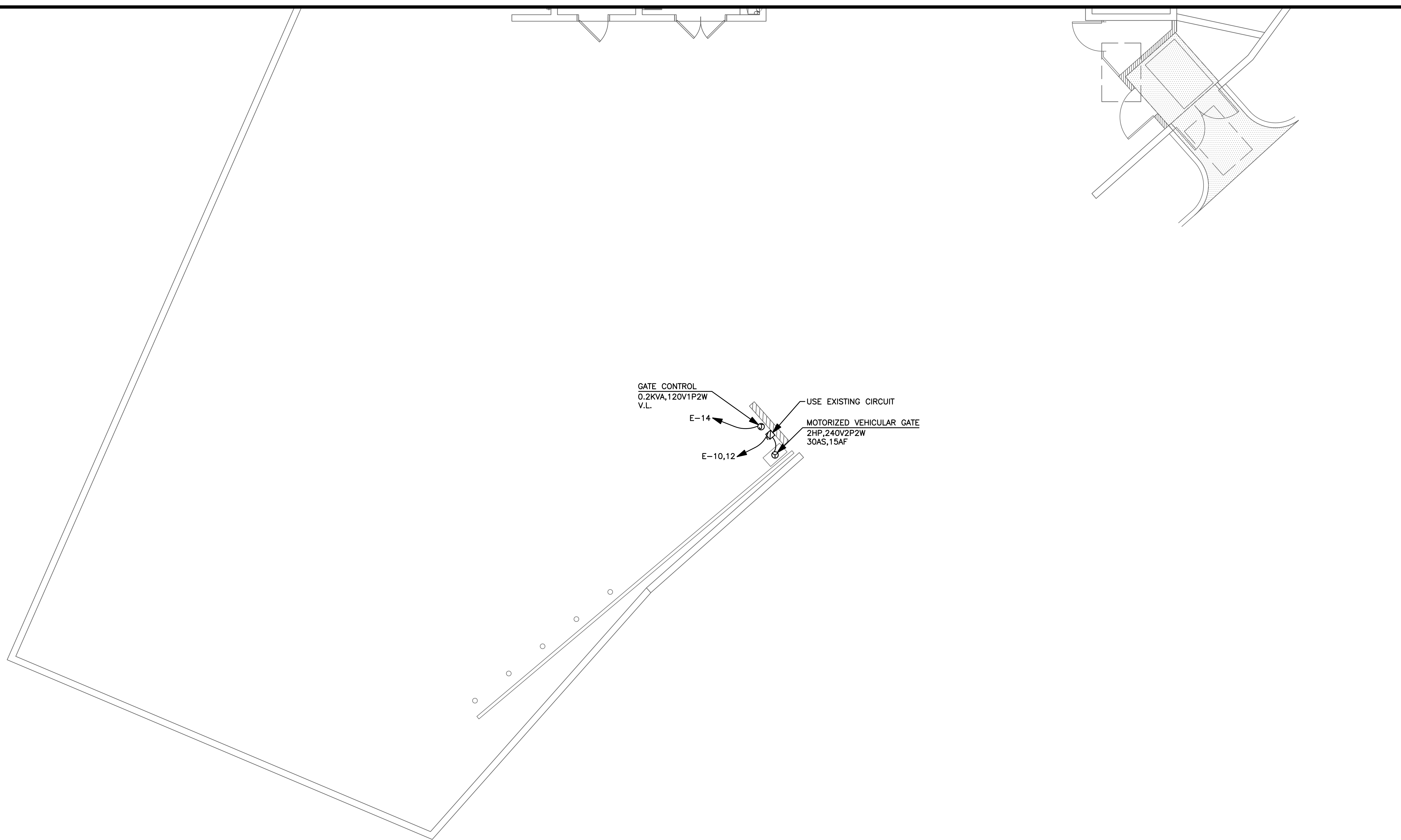
**SHEET TITLE**

**POWER PLAN**

PROJECT NO.: 16-  
SCALE: 3/16"=1'-0"  
DATE: 07-14-16  
BY: VA  
CHECKED: HRA  
DRAWING NO.  
**E-5.0**

ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF THE IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN AUTHORIZATION OF ABRARI AND ASSOCIATES, INC.

MATCH LINE B  
SEE SHEET E-5.0



**GATE NOTE:**

**GATE CONTROLLER SHALL BE CONNECTED PER SHOP DRAWINGS OF GATE MANUFACTURER. CONTRACTOR SHALL REVIEW THIS DRAWINGS AND SUPPLY ALL WIRING EQUIPMENT AS REQUIRED AND SHALL INSTALL AND CONNECT ALL WIRING AND EQUIPMENT INCLUDING THOSE SUPPLIED BY GATE MANUFACTURER FOR A COMPLETE AND OPERATIVE SYSTEM**

REV.	DATE	BY	DESCRIPTION
1	02-06-17	VA	CARD READERS ADDED
2	06-06-17	VA	SLD UPDATED & TRAILERS ADDED

**ABRARI ASSOCIATES**  
ELECTRICAL ENGINEERS

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GLENDALE, CA 91201  
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**07.06.17 BID SET**

**PROJECT**  
CITY OF BEVERLY HILLS  
FIRE STATION # 2- TENANT IMPROVEMENT  
1100 COLDWATER CANYON DRIVE,  
BEVERLY HILLS, CA 90210

*Henry R. Alkan*

**SHEET TITLE**  
ALTERNATE #2  
POWER  
PLAN

PROJECT NO.: 16-  
SCALE: 3/16"=1'-0"  
DATE: 07-14-16  
BY: VA  
CHECKED: HRA  
DRAWING NO.  
**E-5.1**

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