ELECTRICAL NOTES

- CONTRACTOR SHALL PERFORM A BURN TEST. LIGHT FIXTURES MUST BURN CONTINUOUSLY PER MANUFACTURER RECOMMENDATION, MINIMUM 48 HOURS. TEST MUST BE REPEATED FOR 1. EARLY BURNOUTS.
- 2. PROVIDE A LABEL ON EACH ELECTRICAL EQUIPMENTS AND DEVICES DENOTING PANEL AND CIRCUIT NUMBER.
- 3 NO CHANGES TO THIS DESIGN SHALL BE MADE WITHOUT THE PRIOR WRITTEN APPROVAL OF DESIGN ENGINEER.
- 4. COORDINATE ALL WORK WITH OTHER TRADES, PRIOR TO EXCAVATION AND INSTALLATION OF UNDERGROUND SYSTEM.
- 5. ALL WIRES SHALL BE COPPER WITH "THWN-2" INSULATION, 600V RATING, 90° FOR UNDERGROUND, UNDER FLOOR, OR WET LOCATION. USE "THHN", 600V, 90° RATING FOR DRY LOCATIONS. UL LISTED
- 6. ALL INSTALLATIONS OF ALL ELECTRICAL WORK SHALL BE COMPLETE AND IN OPERATING COMDITIONS, AND SHALL COMPLY WITH LATEST ELECTRICAL CODE BASED 2014 NEC/2016 CALIFORNIA ELECTRICAL CODE, AND LOCAL AUTHORITIES HAVING JURISDICTION.
- 7. EQUIPTMENT GROUNDING SHALL BE INSTALLED IN EACH CONDUIT AND SHALL COMPLY WITH THE ELECTRICAL CODE.
- 8. ELECTRICAL EQUIPMENT AND DEVICES INSTALLED OUTDOORS SHALL BE ENCLOSED IN WEATHERPROOF, NEMA 3R ENCLOSURES.
- 9 ELECTRICAL EQUIPMENT SHORT CIRCUIT BRACING RATING SHALL BE GREATER OR EQUAL TO MAXIMUM LET THRU CURRENT
- 10 CIRCUIT BREAKERS SHALL BE "SWD" TYPE. SOME C/B SHALL BE WITH PROVISION OF LOCKING CAPABILITY AT OFF POSITION, WHERE REQUIRED PER CODE.
- 11. ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BE NEWLY FURNISHED BY CONTRACTOR, AND SHALL BE U.L. LISTED OR APPROVED BY LA COUNTY THIRD PARTY TESTING FACILITY.
- 12. CONDUIT RUNS SHOULD SUIT FIELD CONDITIONS.
- 13. ALL MATERIAL SHALL BE NEW AND WARRANTED FOR ONE YEAR AFTER ACCEPTANCE OF PROJECT BY OWNER.
- 14. DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING THE WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO BEST SUIT THE JOB DIMENSIONS OR CONDITIONS, AND SHALL BE INCLUDED AS PART OF THIS WORK. INSTALLATIONS OF EQUIPMENT PER MANUFACTURER RECOMMENDATION
- 15. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE STARTING ANY WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE
- 16. ALL DIMENSIONS SHALL HAVE PREFERENCE OVER SCALE. ANY DISCREPANCIES IN DRAWINGS WITH JOB CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING WORK.
- 17. USE RIGID METALLIC CONDUIT WHEN SUBJECT TO MECHANICAL DAMAGES. USE PVC SCHEDULE 40 FOR UNDERGROUND INSTALLATION, AND SCHEDULE 80 PVC FOR UNDERGROUND BENDS. USE ELECTRICAL METALLIC TUBING INCLUSIVE IN ALL DRY LOCATIONS, OR MC CABLE PER CODE. USE FLEXIBLE CONDUIT FOR SHORT MOTOR RUNS OR CONNECTION OF LIGHT FIXTURES WITH MAXIMUM OF 6 FEET
- 18 EXIT SIGN WITH LETTERS HAVING A PRINCIPAL STROKE OF NOT LESS THAN 3/4" WIDE AND A MINIMUM OF 6" HIGH, SHALL BE LOCATED AT DOORS MARKED "EXIT" ON PLANS. EXIT SIGNS SHALL BE INTERNALLY ILLUMINATED AT ALL TIME, WITH BUILT-IN BATTERY PACK OF MINIMUN 90 MINUTES POWER DURATION IN CASE OF POWER FAILURE. INSTALL IN ACCORDANCE WITH CODES. EXIT SIGNS SHALL BE UL LISTED.
- 19. UPON COMPLETION OF THE WORK, CONDUCT AN OPERATING TEST. DEMONSTRATE THAT ALL EQUIPMENTS ARE OPERATING IN A SATISFACTORY MANNER IN ACCORDANCE WITH THE DRAWINGS, AND IN PRESENCE OF THE OWNER.
- 20 EMERGENCY LIGHTING SYSTEM SHALL PROVIDE INTIAL AVERAGE VALUE OF MINIMUM 1 FOOT CANDLE, AND A MINIMUM 0.1 FOOTCANDLES AT ALL EMERGENCY EGRESS PATH FLOOR INCLUDING STAIRS, CORRIDORS,..AND OTHER LOCATIONS REQUIRED BY THE CODES. AT END OF 90 MINUTES EMERGENCY LIGHTING OPERATION, AVERAGE FOOT CANDLE SHALL NOT BE LESS THAN 0.6 FOOT CANDLE OR LESS THAN MINIMUM 0.06 FOOT CANDLE AT EGRESS PATH FLOOR LEVEL.
- 21 ALL ELECTRICAL WORK AND MATERIALS SHALL BE GUARANTEED BY THIS CONTRACTOR FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.

ABBREVIATIONS

A	_	AMPERE	MB	-	MAIN BREAKER
AFF	-	ABOVE FINISHED FLOOR	M.L.O.	-	MAIN LUGS ONLY
A.I.C.	-	AMPS INTERRUPTING CURRENT	NEMA	-	NATIONAL ELECTRICAL
ANSI	-	AMERICAN NATIONAL STANDARDS INSTITUTE			
CL	-	CENTERLINE	N/L	-	NIGHT LIGHT
С	-	CONDUIT	N.T.S.	-	NOT TO SCALE
C/B	-	CIRCUIT BREAKER	PA	-	PUBLIC ADDRESS
СКТ	_	CIRCUIT	PB	-	PULL BOX
СТ	_	COUNTER TOP	PG&E	-	PACIFIC GAS AND ELECTRIC
DSB	-	DISTRIBUTION SWITCH BOARD	PVC	-	POLYVINYL CHLORIDE
E	-	ELECTRICAL	RGS	-	RIGID GALVANIZED STEEL
E.M.T.	-	ELECTRIC METALLIC TUBING	SW	-	SWITCH
EUSERC	_	ELECTRIC UTILITY SERVICE EQUIPMENTS	SWD	-	SWITCHING DUTY
		REQUIREMENTS	Т	-	TELEPHONE
EX	-	EXISTING	ТҮР	-	TYPICAL
FA	-	FIRE ALARM	U.L.	_	UNDERWRITERS LABORATORIES
FACP	-	FIRE ALARM CONTROL PANEL	U.O.N.	_	UNLESS OTHERWISE NOTED
FIXT.	-	FIXTURE	w/	_	WITH
FLUO.	-	FLUORESCENT	•	_	UNDER FLOOR
GND	-	GROUND	U/F	-	
G.F.I.	-	GROUND FAULT INTERRUPTER	U/G	-	UNDERGROUND
JB	_	JUNCTION BOX	W.P.	-	WEATHERPROOF
			XFMR		TRANSFORMER

ELECTRICAL SHEET INDEX

E-1.0: GENERAL NOTES, LEGEND AND FIXTURE SCHEDULE E-1.1: ELECTRICAL SITE PLAN E-2.0: FIRST FLOOR LIGHTING PLAN E-2.1: SECOND FLOOR LIGHTING PLAN E-3.0: ELECTRICAL UNIT FIRST FLOOR PLAN E-3.1: ELECTRICAL UNIT SECOND FLOOR PLAN E-3.2: ELECTRICAL MANAGER UNIT PLAN E-3.3: ELECTRICAL RECREATION UNIT PLAN E-4.0: ELECTRICAL DETAILS E-5.0: PANEL SCHEDULES E-6.0: ONE LINE DIAGRAM E-7.0: OUTDOOR TITLE 24 CALCULATION E-7.1: OUTDOOR TITLE 24 CALCULATION

CONTRACTOR SHALL BE RESPONSIBLE TO FIELD CHECK ALL EXISTING CONDITIONS, AND INCLUDE IN THEIR BID ALL WORK THAT NEED TO BE REMOVED TO ALLOW INSTALLATION SHOWN ON THIS PROJECT. ALL MATERIALS SHALL BE NEW

E	LECTRICAL SYMBOLS:		LI(GHT FIXTURE SC	HE	DULE		
	INDICATES HOME RUN WITH 1/2"C, WITH (3) #12 WIRES (1HOT, 1 NEUTRAL AND 1 GROUND), U.O.N.	SYMBOL	TYPE	DESCRIPTION	NO. OF LAMPS	WATTS/ FIXTURE	VOLT	MOUNTING
ø	1/2" CONDUIT, W/ (3)#12 WIRES, - (1HOT, 1 NEUTRAL AND 1 GROUND), U.O.N. PHASE (ELECTRICAL)	AE	LED	ADA WALL MOUNT, "BROWNLEE" CAT# 1390-AB-B12LED-WA-30K-BBI-TBC, WITH 12W LED BAR, 8"Wx13"Hx4"D, UL LISTED FOR DAMP LOCATION, INTEGRAL BATTERY BACK UP AND FIXTURE REMAIN 4"D ADA, 3000K, ANTIQUE BRONZE WITH TOP AND BOTTOM COVER, 1422 LUMENS	1	12	120	WALL
F	CIRCUIT BREAKER FIXTURE DESIGNATION, SEE FIXTURE SCHEDULE (THIS DESIGNATION TO INDICATE TYPICAL WITHIN SHEET) NUMBER OF LAMPS PER FIXTURE	В	LED	ARCHITECTURE SCONCE WITH LENS "LITHONIA" CAT#WST-LED-P2-30K- SR3-MVOLT-PIR -DDBXD W/ (1) 25W LED LAMP, 0-10VDC DIMMABLE LED DRIVER, BUILT-IN MOTION SENSOR THAT SETS NO MOTION TO 3VDC (37% LIGHT), AND 100% FULL MOTION, UL LISTED FOR WET	1	25	120	BLDG WALL
CIRCUIT NUMBER	UPPER CASE INDICATES FIXTURE TYPE. SEE FIXTURE SCHEDULE LIGHTING FIXTURE LOWER CASE INDICATES SWITCH LEG THAT CONTROL FIXTURES INDICATES EMERGENCY WITH	BE	LED	LOCATION, DARK BRONZE, FORWARD THROW, 8.5"Hx17"Wx10.3"D, 20 Ibs. 3237 LUMENS SAME TYPE LIKE "B" EXCEPT "LITHONIA" CAT#WST-LED-P2-30K- SR3-MVOLT-PIR -DDBXD-E7WC W/	1	25	120	BLDG WALL
<u>\$</u> a	BATTERY POWER PACK FOR FLUORESCENT FIXTURES 120V SINGLE POLE TOGGLE SWITCH,+44" AFF PER ADA REQUIREMENTS SUBSCRIPTS INDICATE THE FOLLOWING: a – LIGHTS CONTROLLED WP – WEATHERPROOF 3 – 3 WAY	* C	LED	BUILT-IN EMEREGNCY LED DRIVER, 7W 32"Lx18"Wx4.4"D SURFACE OVAL FIXTURE WITH INTEGRAL LED LAMPS. BRUSHED NICKEL "PROGRESS LIGHTING" CAT NO P7251-0930K9, UL LISTED FOR DAMP LOCATION, 3000K, 90 CRI, 2649 LUMENS, T24 APPROVED, AND IS INCLUDED IN T24 DATA BASE	1	39	120	SURFACE
	tm — 2 HOURS ROTARY TIMER D — DIMMER a,3 — INDICATES CKT NO 3 oc — MANUAL—ON OCCUPANT SENSOR k — KEY SWITCH JUNCTION BOX WITH	D	LED	10"x4'x4"D LED VOLUMETRIC "LITHONIA" CAT#STL4-40L-EZ1-LP835, WITH PRISMATIC LENS, 3500K, 3834 LUMENS, AND 0-10VDC DIMMING, UL LISTED FOR DAMP LOCATIONS, LPW 109	1	35	120	SURFACE
() 6∕s ⊖	SIZE OF 4 11/16"x2 1/8" SQUARE 6" SQUARE BOX NEW DUPLEX RECEPTACLE, 125V, 20A, 3W WITH CROUND +18" AFE TO	DE	LED	10"x4'x4"D LED VOLUMETRIC "LITHONIA" CAT#STL4-40L-EZ1- LP835-EL14L, WITH PRISMATIC LENS, 3500K, 3834 LUMENS, AND 0-10VDC DIMMING, UL LISTED FOR DAMP LOCATIONS, LPW 109, AND BUILT-IN EMERGENCY DRIVER OF 1400 LUMENS	1	35	120	SURFACE
F	3W, WITH GROUND, +18" AFF TO BOTTOM OF OUTLET, U.O.N. "LEVITON". F : INDICATES FLOOR CARPET MONUMENT FL: INDICATES FLOOR MOUNT CL: INDICATES CEILING MOUNT NEW GFI DUPLEX RECEPTACLE, 125V, 20A, 3W, WITH GROUND, +18" AFF U.O.N.	E	LED	DIE-CAST ALUMINUM EXIT SIGN, LED TYPE, UNIVERSAL MOUNTING, WITH EMERGENCY CIRCUIT, "LITHONIA" CAT# LESW10R2G120/277ELN, SINGLE OR DOUBLE FACE, WITH MIN. 90 MINUTES BATTERY PACK, SEE ARCHITECTURE FOR EXACT FACE TYPE	2	5	120	UNIVERSAL/ SEE ARCH FOR ARROW DIRECTIONS
	"LEVITON". WP: INDICATES WEATHERPROOF NEW DUPLEX RECEPTACLE, 125V, 20A, 3W, WITH GROUND, +18" AFF U.O.N. "LEVITON". UPPER PORTION CONTROLLED BY SWITCH ——LONG LINE HOT CONDUCTOR —— NEW 1/2" C WITH #12 WIRES U.O.N.	F	LED	6" RECESSED LED SAPPHIRE SERIES DOWNLIGHT, "NORA LIGHTING" CAT NCH63020LE1 WITH LED REFLECTOR CAT NO NC-631-L20-35-W-WSF, 3500K AND SPECULAR CLEAR REFLECTOR TRIM MODEL NO, 0-10VDC DIMMING, 1685 LUMENS, UL LISTED	1	25	120	RECESSED/ GYPSUM BOARD
G	SHORT LINE NEUTRAL CONDUCTOR. SHORT LINE W/ "G" INDICATES GROUND WIRE FIXTURE DESIGNATION, SEE FIXTURE TABLE	FE	LED	FOR DAMP LOCATION SAME AS "F", EXCEPT WITH EMERGENCY LED DRIVER "NORA LIGHTING" CAT NO NCH63020LE1EM, 565 LUMEN EMERGENCY LED DRIVER	1	25	120	RECESSED/ GYPSUM BOARD
	PANELBOARD DISTRIBUTION SWITCHBOARD THERMOSTAT PER MECH PLANS.	* G	LED	25.5" WIDE VANITY FIXTURE WITH INTEGRAL LED LAMPS. BRUSHED NICKEL "KICHLER LIGHTING" CAT NO 11149NILED, UL LISTED FOR DAMP LOCATION, 3000K, 90 CRI, 1440 LUMENS, T24 APPROVED, AND IS INCLUDED IN T24 DATA BASE	1	20	120	WALL
(1,3,5)	PARENTHESES AROUND CIRCUIT INDICATES 2 OR 3 POLES.	* Н	LED	6" SURFACE LED DOWNLIGHT, MOUNTED IN 4" JUNCTION BOX, 7.79" ROUND BY 0.8" DEEP, "HALO" CAT SLD612-80-30-WH-UNV-JB WITH WHITE TRIM MODEL NO SLD6TRMWH, TITLE 24 CERTIFIED, 80 CRI, 3000K, AND 0-10VD DIMMING, 1215 LUMENS,	1	14.8	120	CEILING
	EXHAUST FAN PER MECHANICAL PLANS CEILING OCCUPANCY SENSOR PER PLANS	1	LED	UL LISTED FOR DAMP LOCATION POLE MOUNTED FIXTURE, "LITHONIA" D SERIES SIZE 0 CAT# DSXOLED-20C-530-30K-T5W-MVOLT- DDBXD, DARK BRONZE, TYPE V WIDE, UL LISTED FOR WET LOCATION,	1	35	120	POLE MOUNT
▲ 5 T F G 	EXIT SIGN PER PLAN 	SHOP E <u>APPLICABLE</u> – ALL LU – ALL RE . SHAL . THE WHEF MINU WITH . LUMII AND – ALL FL	CEC 20 MINAIRES CESSED L BE RAT HOUSING E LEAKAO TE WHEN ASTM E2 IAIRE SHA CEILING, UORESCEN	3000°K, 4344 LUMENS. FIXTURE IS FULLY CUT -OFF WITH NO UPLIGHT URES WITHIN UNITS SHALL BE TITLE 2 SUBMITTALS SHALL INCLUDE A COPY 16 LOW/HIGH RISE RESIDENTIAL TITLE 2 SHALL QUALIFY AS HIGH EFFICACY LUN ED/FLUORESCENT FIXTURES INTO INSUL ED FOR INSULATION CONTACT (IC RATEL OF LUMINAIRE SHALL BE CERTIFIED AS SE THROUGH LUMINAIRE WILL NOT EXCE EXPOSED TO 75 PASCALS PRESSURE D 83 STANDARDS ALL HAVE SEALED GASKET OR CAULKING TO PREVENT AIRFLOW INTO CEILING ITS OF 13W LAMP AND HIGHER SHALL	OF THE 24 LIGHTI 4INAIRES ATED CEI D). AIRTIGHT ED 2.0 C DIFFERENC BETWEE HAVE ELE	FIXTURE T NG REQUIR LINGS: CONSTRUC CUBIC FEET E WHEN TE N THE HOU ECTRONIC E	TIDE 24 EMENTS PER ESTED JSING	
P W - N A T T - T	RJ11 FEMALE CONNECTION JACK WITH PHASE PLATE, FLUSHED WITH WALL, WITH (2) PAIRS WIRES PUNCHED DOWN - - - NEW TV/CABLE JACK MOUNTED AT 18" AFF, UON. INSTALL (2) TV CABLE, BACK TO MEDIA BOX IN GARAGE TERMINATE TV CABLE CONDUIT AT (2) TV CABLE JACK PER CABLE REQUIREMENTS -	INS ALI FLU 1E-1.0	FALLED.	S NORMAL AND EMERGENCY BALLASTS NO FIELD BALLAST INSTALLIGTIONEMETRINE S SHALL BE SUPPLIED WITH APPROPRIA ORESCENT LED: T FIXTURE SCHEDULE : NONE	SO WEDDE			

DATA BASE. FORMATION

BASIS & Consulting 2130 FOURTH ST SAN RAFAEL, CA 94901 PHONE (415) 457-6035 FAX (415) 457-6036 P.O.BOX 150539 SAN RAFAEL, CA 94915 CHARLES PICK, ARCHITECT Consultants: MECHANICAL, ELECTRICAL & PLUMB CONSULTING ENGINEERS 2601 Main Street. Suite 730 Irvine, CA 92612 T: 949.553.0170 **F**: 949.553.0171 www.amegroup.net AME NO. : 18012 Stamp: OROFL!

DRAWING REVISION LOG

SUBMITTAL	12/12/17
PC SUBMITTAL	05/07/18

PROJECT NAME:

DESERT HAVEN **RE-DEVELOPMENT**

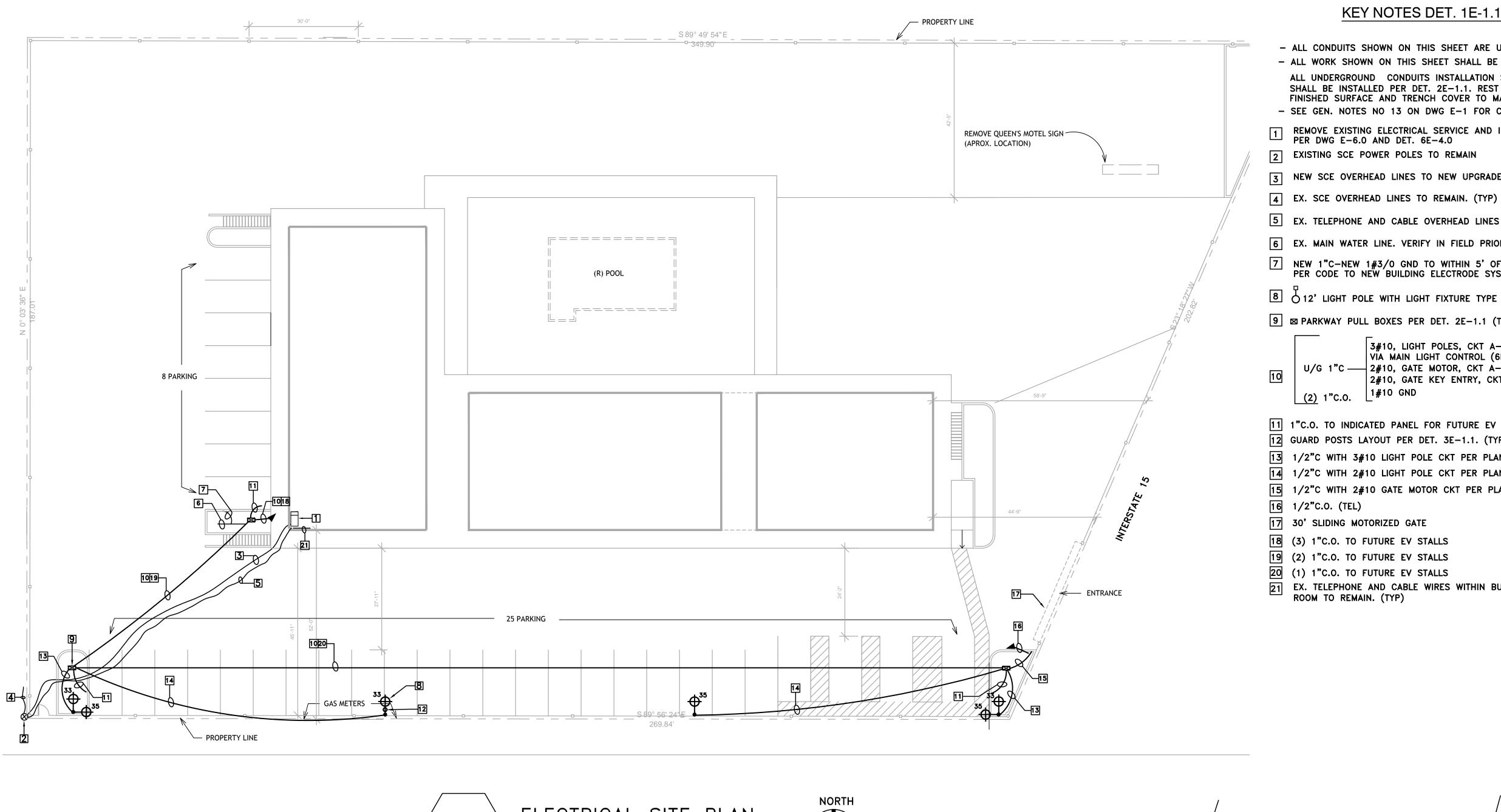
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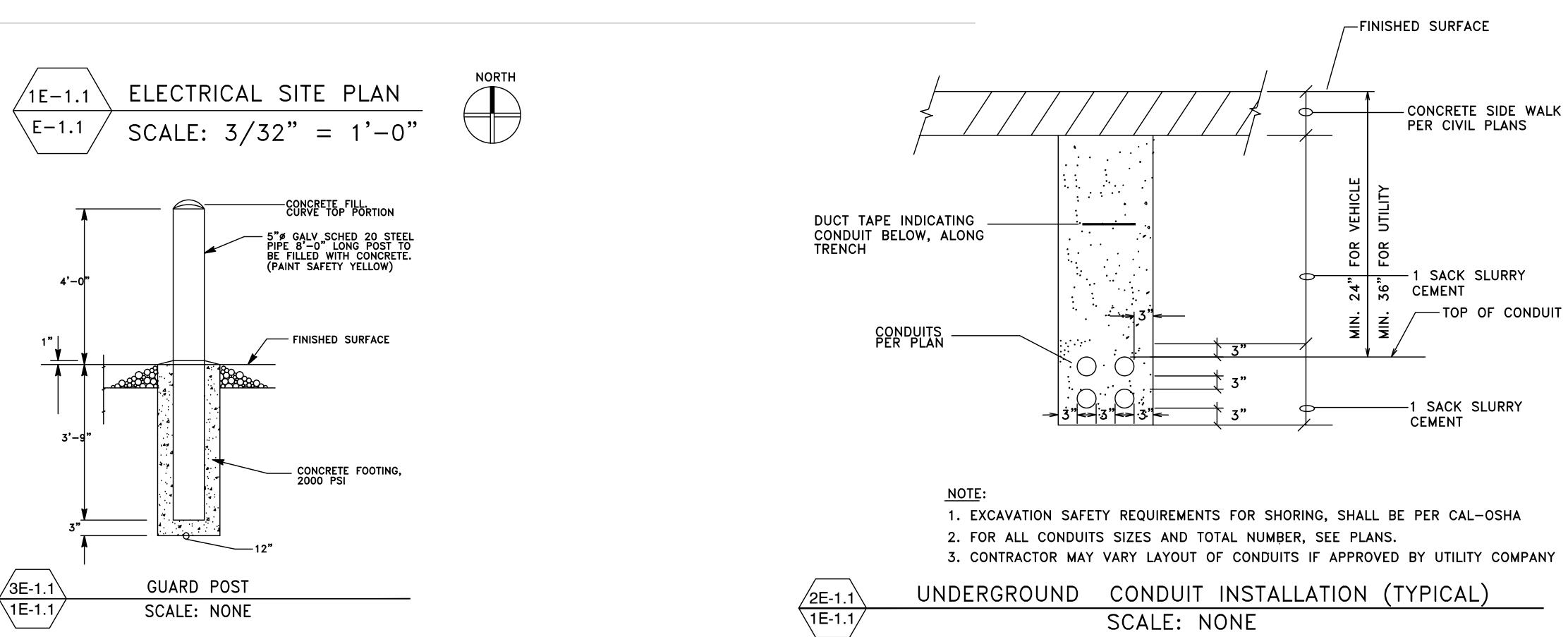
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SHEET TITLE:

GENERAL NOTES, LEGEND AND FIXTURE SCHEDULE

E-1.0





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KEY NOTES DET. 1E-1.1:

- ALL CONDUITS SHOWN ON THIS SHEET ARE UNDERGROUND, AND SCHEDULE 40 PVC - ALL WORK SHOWN ON THIS SHEET SHALL BE DONE BY CONTRACTOR U.O.N. ALL UNDERGROUND CONDUITS INSTALLATION SUBJECT TO VEHICULAR TRAFFIC SHALL BE INSTALLED PER DET. 2E-1.1. REST TO BE INSTALLED AT 6" BELOW FINISHED SURFACE AND TRENCH COVER TO MATCH CIVIL - SEE GEN. NOTES NO 13 ON DWG E-1 FOR CONDUIT ONLY. CAP 3" AFF

IREMOVE EXISTING ELECTRICAL SERVICE AND INSTALL NEW ELECTRICAL SERVICE
PER DWG E-6.0 AND DET. 6E-4.0

3 NEW SCE OVERHEAD LINES TO NEW UPGRADED SERVICE

5 EX. TELEPHONE AND CABLE OVERHEAD LINES TO REMAIN. (TYP)

6 EX. MAIN WATER LINE. VERIFY IN FIELD PRIOR TO START CONSTRUCTION

7 NEW 1"C-NEW 1#3/0 GND TO WITHIN 5' OF MAIN WATER LINE BUILDING ENTRY PER CODE TO NEW BUILDING ELECTRODE SYSTEM SHOWN ON E-6.0

8 \checkmark 12' LIGHT POLE WITH LIGHT FIXTURE TYPE I (E-1.0) PER DET. 2E-4.0. (TYP)

9 ⊠ PARKWAY PULL BOXES PER DET. 2E-1.1 (TYP)

3#10, LIGHT POLES, CKT A-33,35 VIA MAIN LIGHT CONTROL (6E-4.1) U/G 1"C — 2#10, GATE MOTOR, CKT A-(39,41) 2#10, GATE KEY ENTRY, CKT A-37 1#10 GND

11 1"C.O. TO INDICATED PANEL FOR FUTURE EV CHARGER. STUB UP AND CAP 12 GUARD POSTS LAYOUT PER DET. 3E-1.1. (TYP) 13 1/2"C WITH 3#10 LIGHT POLE CKT PER PLAN 14 1/2"C WITH 2#10 LIGHT POLE CKT PER PLAN 15 1/2"C WITH 2#10 GATE MOTOR CKT PER PLAN

21 EX. TELEPHONE AND CABLE WIRES WITHIN BUILDING TO SECOND FLOOR TEL COM

E-1.1

ELECTRICAL SITE PLAN

SHEET TITLE:

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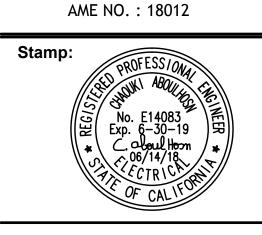
PROJECT LOCATION:

DESERT HAVEN RE-DEVELOPMENT

PROJECT NAME:

_					
	SUBMITTAL	12/12/17			
	PC SUBMITTAL	05/07/18			

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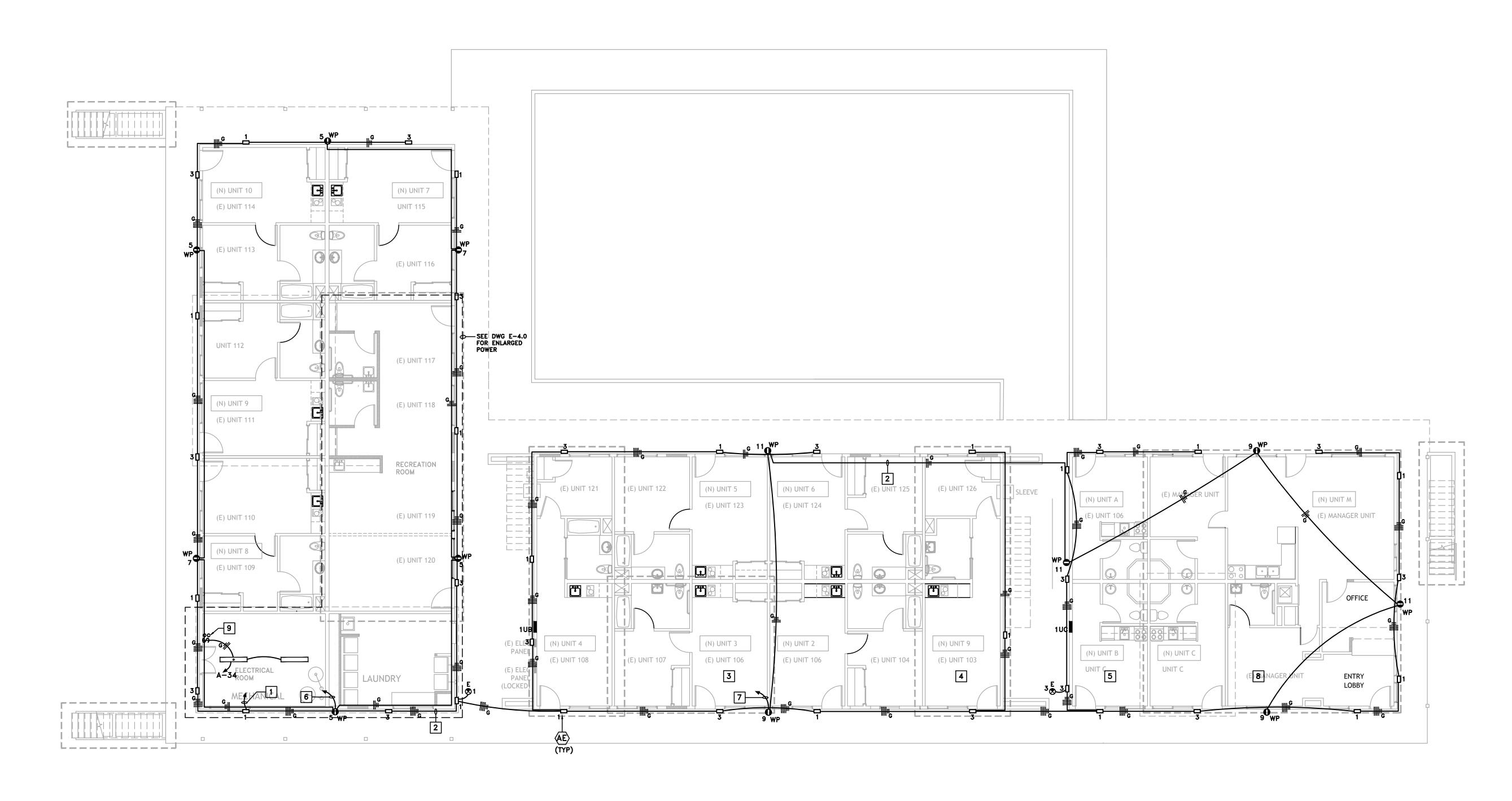
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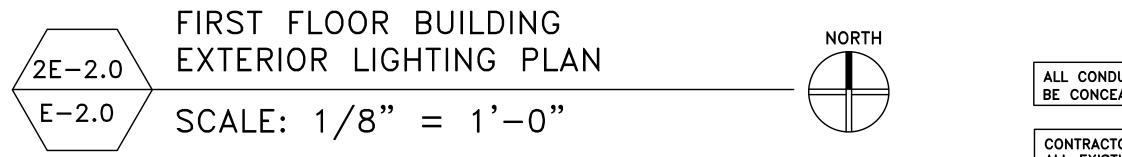
P.O.BOX 150539

CHARLES PICK, ARCHITECT

Consultants:

SAN RAFAEL, CA 94915





KEY NOTES:

- 1 3/4"C WITH 5#10 AND 1#10 GND, CKTS NO A-1,3 VIA MAIN LIGHT CONTROL (E-4.0). WIRES INCLUDE TWO UNSWITCHED HOT WIRES FOR EMEREGNCY LED DRIVERS
- 2 3/4"C WITH NO 10 WIRES TO AVOID EXCESSIVE VOLTAGE DROP. (TYP)
- 3 SEE DWG E-3.0 FOR SIDE BY SIDE ACCESSIBLE UNIT ELECTRICAL PLAN
- 4 SEE DWG E-3.0 FOR IN LINE ACCESSIBLE UNIT ELECTRICAL PLAN
- 5 SEE DWG E-3.0 FOR EFFICIENT UNIT ELECTRICAL PLAN
- 6 3/4 "C with 3#10 and 1#10 GND, CKTS NO A-5,7 TO OUTLETS
- 7 3/4 "C with 3#10 and 1#10 gnd, CKTS NO A-9,11 to outlets
- 8 SEE DWG E-3.2 FOR UNIT MANAGER ELECTRICAL PLAN
- 9 SINGLE SWITCH VACANCY SENSOR, MANUAL ON/AUTO OFF, "LUTRON" CAT NO MS-VPS2 RATED FOR 240W, AND 15-20' LINE OF SIGHT COVERAGE. (TYP)

ALL CONDUITS AND WIRE	S SHALL
BE CONCEALLED. (TYP)	

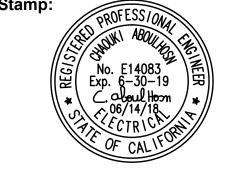
CONTRACTOR SHALL BE RESPONSIBLE TO FIELD CHECK ALL EXISTING CONDITIONS, AND INCLUDE IN THEIR BID ALL WORK THAT NEED TO BE REMOVED TO ALLOW INSTALLATION SHOWN ON THIS PROJECT. ALL MATERIALS SHALL BE NEW



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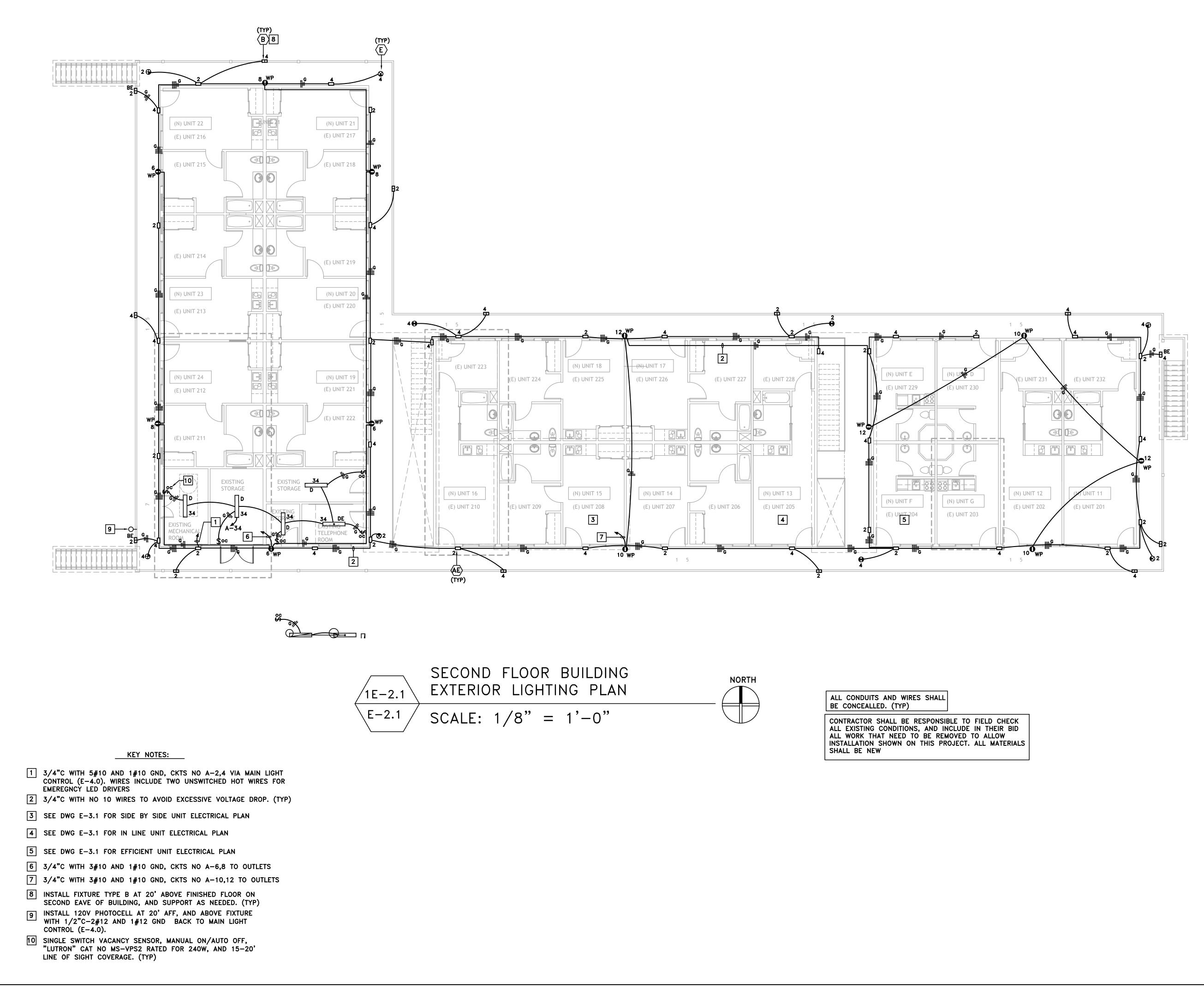
PROJECT LOCATION:

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SHEET TITLE:

BUILDING FIRST FLOOR EXTERIOR LIGHTING PLAN

E-2.0

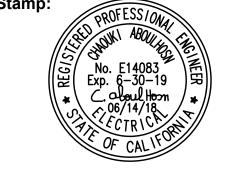




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PROJECT NAME:

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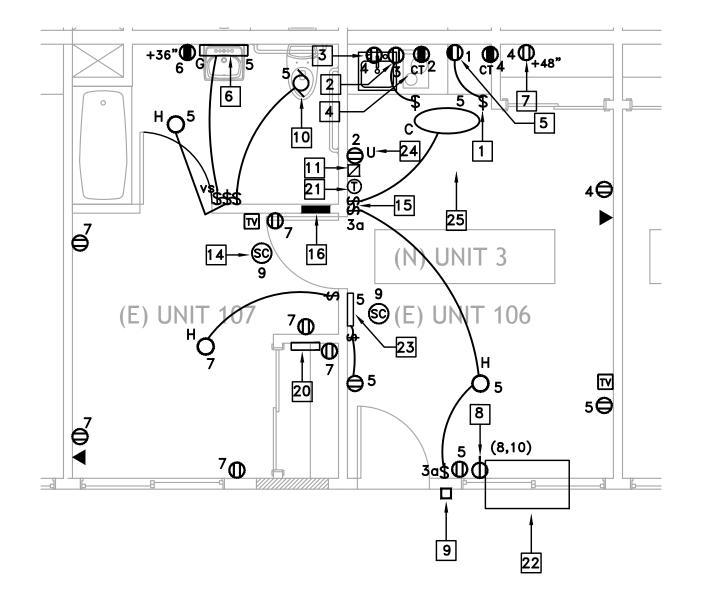
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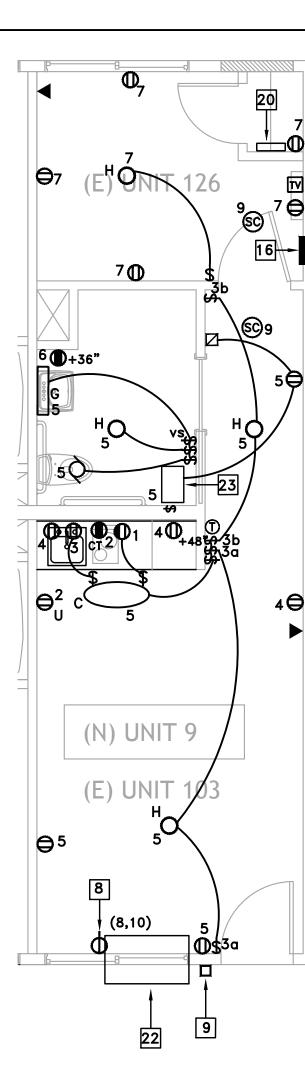
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SHEET TITLE:

BUILDING SECOND FLOOR EXTERIOR LIGHTING PLAN

E-2.1





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40

1E-3.0	FIRST FLOOR SIDE-BY-SIDE ACCESSIBLE UNIT ELECTRICAL	PLAN
E-3.0	SCALE: $1/4$ " = 1'-0"	

2E-3.0	FIRST FLOOR IN LINE ACCESSIBLE UNIT ELECTRICAL PLAN
E-3.0	SCALE: $1/4" = 1'-0"$

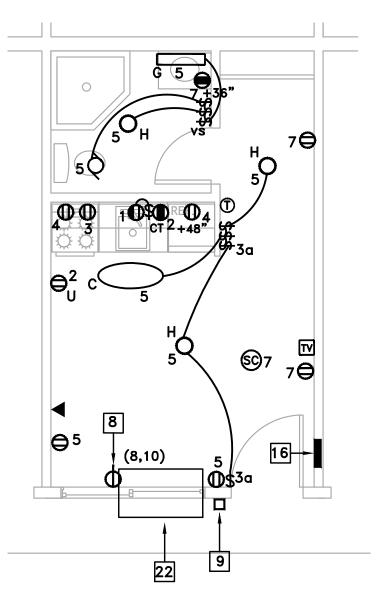
Accessible	Unit load calc	ulation		
General		Unit	Watts/unit	Total watts
Unit sf		442	3	1326
small appli	ance circuits	2	1500	3000
Sub-total				4326
Demand fa	actor per NEC o	code sectio	n 220.82	
First 3000	VA at 100%			3000
Remainder	load at 35%	1326	x 0.35	464
sub-total				3464
Appliance	load	Unit	Watts/unit	Total watts
garbage di	isposal	1	900	900
Miscellane	ous fans	1	400	400
sub-total				130
plus 100%	AC load			
A/C		1	2752	2752
sub-total				2752
Total unit v	vattage			7516
Total Amps	-			36

	VOLTS 120/240V			17	7		UN	NIT F	PANE	L						MOUNT <u>RECESSED</u>
	PHASE <u>1</u> WIRES 3		14.2	ــــــ ۶")E –	^		T					_		MAIN M.L.O.
	WIRES 3		24 0							; R/	ATIN	١G			Į	BUS RATING <u>125A</u>
Ì	REMARKS	LOAD	WATTS	ပ	ပ	S	S		IOTE 2	R	ပ္ပ	ပ္ပ	ю	LOAD	WATTS	REMARKS
		ØA	øB	5	R	X	₹			- M	Ï	ä		ØA	øB	
	GARBAGE DISPOSAL	900					_		<u>ا</u> م					1500		KITCHEN CIRCUIT
ļ	BUILT-IN FAN		300			_	_	3~		20		$ \rightarrow$	_		1500	KITCHEN CIRCUIT
ļ	GENERAL POWER/LIGHTING	847				_	_		ا ^ י					180		BATHROOM OUTLET
	GENERAL POWER/LIGHTING		848			_	_		<u></u> †∱'			$ \rightarrow$	$ \rightarrow$		1376	1 TON PTEK
	ELECTRIC SMOKE DETECTOR	200				!·	_		┟╲╖				1	1376		
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	KEY NOT
1	FOR ADA UNITS, SEE ELECTRIC OVEN, SHA INSTALLED NEAR RANG
2	OUTLET FOR KITCHEN ABOVE GAS COOKTOP
3	OUTLET FOR GAS OVER
4 5 6 7 8 9	GFI OUTLETS FOR COU ABOUT +8" ABOVE CO OUTLET FOR GARBAGE LED BATHROOM VANITY LINE OF VANITY. (TYP) OUTLET FOR REFRIGER WALL MOUNT OUTLET, PTEK POWER CORD, N PUSH BUTTON FOR DO EXHAUST FAN TIED TO MECHANICAL DRAWINGS
11	DOOR CHIMES WITH TR EXTERIOR PUSH BUTTO TO NEARBY OUTLET.
12	INSTALL LISTED ARCH- REQUIRED PER CEC C SMOKE DETECTORS, E ROOMS, PARLORS, LIB CLOSETS, HALLWAYS,
13	INSTALL WIRES TO PE
14	HARD WIRED 120V EL CARBON MONOXIDE AL WITHIN SAME UNIT, P KN-COPE-I, PART NO 2 ON UNITS' NOTES I DETECTOR/CO ACTIVA SMOKE/COMBO MINIMU BLADE, AND MNIMUM BATHTUP WHERE APPL CLEARLY DISTINGUISH
15 16 17	ALL SWITCHES SHALL PANELBOARD FOR COR NAME PLATE OF PANE NUMBER. SEE ARCHITE
18	PUSH BUTTON FOR DO
19	ELECTRICAL OUTLET BO BE SEPARATED HORIZO BOXES SHALL BE SEAL MINIMUM OF 2" THIC
20	MEDIA BOX, 14"Wx24" TELEPHONE/ CATV SYS - TERMINATE THE UN UTILITY ROOM, INTO SHALL BE RUN FRO INSTALLATION. NO I (WHITE) IN APPROP

- WAY SPLITTER, THEN FEED EACH VILLA UNIT CABLE TV.
- 21 THERMOSTAT PER MECHANICAL PLANS

ALL ALL INS	E> W TAL	ACT (IST ORK LAT BE	ING TH ON
FOR CIRC MAY OUT	רוטכ נט	ГВ SE	REA NO
THE BUS TYP SIZE	sin E l	G A OAD	ND CE
		ARC TY	



FIRST FLOOR EFFICIENCY UNIT ELECTRICAL PLAN ∕3E−3.0 [\] SCALE: 1/4" = 1'-0"\E−3.0

|--|

ALL SWITCHES CONTROLLING LED LIGHT

**: REQUIRES AFCI BREAKERS PROTECTION PER KEY 12

TES FOR ALL UNITS

ARCH. PLANS, THE HOOD EXHAUST FAN ABOVE ALL BE CONTROLLED BY A DEDICATED SWITCH GE, AND AT HEIGHT AND LOCATION PER ADA EXHAUST FAN. INSTALL WITHIN A CABINET

EN INSTALLED ABOUT 12" AFF PER MANUFACTURER

OUNTER TOP. "CT" INDICATES COUNTER TOP. INSTALL COUNTER HORIZONTALLY. SEE ARCHITECTURE DISPOSAL AND CONTROLLED BY SWITCH TY FIXTURES, ALIGN FIXTURE TO CENTER

RATOR

240V, 15A/2P WITH GROUND TO MATCH NEMA 6-15R, 250V RATED. (TYP) DOOR CHIMES LOWER LEVEL

O LIGHT FIXTURE, AND CONNECTED PER

RANSFORMER. INSTALL ALL NEEDED WIRES BETWEEN ON AND CHIMES. CONNECT CHIMES' TRANSFORMER

I-FAULT CIRCUIT INTERRUPTERS FOR ALL CIRCUITS AS CODE 210.12, FOR OUTLETS SUCH AS RECEPTACLES, LIGHTS, ETC.. IN DWELLING UNITS, FAMILY ROOMS, DINING ROOMS, LIVING BRARIES, DENS, BEDROOM, SUNROOMS, RECREATION ROOMS, LAUNDRY, KITCHEN OR SIMILAR ROOMS,

ERFORM 3 WAY SWITCHES CONTROL. (TYP.)

LECTRICALLY CONNECTED COMBINATION SMOKE DETECTOR AND ALARM. ELECTRICALLY CONNECT ALL SMOKE/CO COMBO TOGETHER PER CODE. (TYP). TYPE OF SMOKE/CO ALARM IS KIDDE MODEL NO IO 21007624 WITH BATTERY BACK UP PER CODE. (TYP) SEE NOTE FOR APPLICABLE ADA REQUIREMENTS. IF ONE COMBO SMOKE ATES, ALL DETECTORS WITHIN UNIT ACTIVATES INSTALL AUM 3' AWAY FROM AC DIFFUSER, MINIMUM 3' FROM EDGE OF FAN 3' FROM OPENING OR DOOR OF BATHROOM WITH SHOWER OR PLICABLE. DEVICE SHALL BE AUDIBLE AND VOICE ACTIVATED THAT SMOKE FROM CARBON MONOXIDE.

BE INSTALLED IN SAME GANG BOX AS REQUIRED RRESPONDING UNIT FRONT, FLUSH MOUNT. EL SHALL BE THE SAME AS OF THE UNIT ECTURE PLANS FOR UNIT NUMBER

DOOR CHIMES UPPER LEVEL

BOXES IN OPPOSITE FACES OF SEPERATION WALLS SHALL ONTALLY BY 24" AND NOTE THAT BACK AND SIDES OF ALED WITH 1/8" RESILIENT SEALANT AND BACKED BY A CK MINERAL FIBER INSULATION

"L DIGITAL NETWORKING SOLUTIONS (DNS), WHICH HOUSES YSTEM.

NIT INCOMING TELEPHONE WIRING FROM MAIN BUILDING O DNS TELEPHONE PORT. ALL UNITS TELEPHONE WIRING ROM TELEPHONE JACK DIRECTLY TO DNS IN PARALLEL LOOPING IS ALLOWED. TERMINATE VILLA UNIT CAT 5e (WHITE) IN APPROPRIATE PORTS AND PUNCHED DOWN. - TERMINATE THE UNIT INCOMING RG6 CABLE WIRING FROM MAIN BUILDING UTILITY ROOM, INTO DNS CABLE PORT OF MINIMUM 4

22 PTEK WITH 2.4KW HEATER ELEMENT, 240V, 15A CORD, FLA OF 2752W

23 TAF PER MECHANICAL PLANS, 120V, WITH 120V SWITCH AS A DISCONNECTING MEANS 24 U: INDICATES OUTLET WITH USB CONNECTIONS. (TYP)

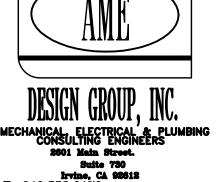
> SHALL BE RESPONSIBLE TO FIELD CHECK CONDITIONS, AND INCLUDE IN THEIR BID HAT NEED TO BE REMOVED TO ALLOW SHOWN ON THIS PROJECT. ALL MATERIALS VITHIN UNITS, AND FOR ALL CAKERS RATED 15A, CONTRACTOR 14 GAGE WIRES, AND USE TED FOR 15A ALL WIRES SHALL INCLUDE GROUND WIRE PER CODE D PANELBOARD WITH 125A 24 CIRCUITS ARE "SQUARE D" ENTER WITH LUGS RATED WIRE ALL "SQUARE D" PANELBOARDS' LUGS ARE RATED FOR 75° WIRES TECTURE PLANS FOR QUANTITY OF THIS PER THIS DESIGN SHEET. CONTRACTOR SHALL USE ROMEX FOR UNITS' INTERNAL WIRING PER CODE



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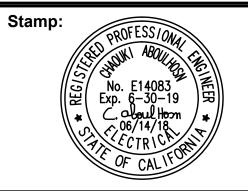
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AME NO. : 18012



DRAWING REVISION LOG

SUBMITTAL	12/12/17
PC SUBMITTAL	05/07/18

PROJECT NAME:

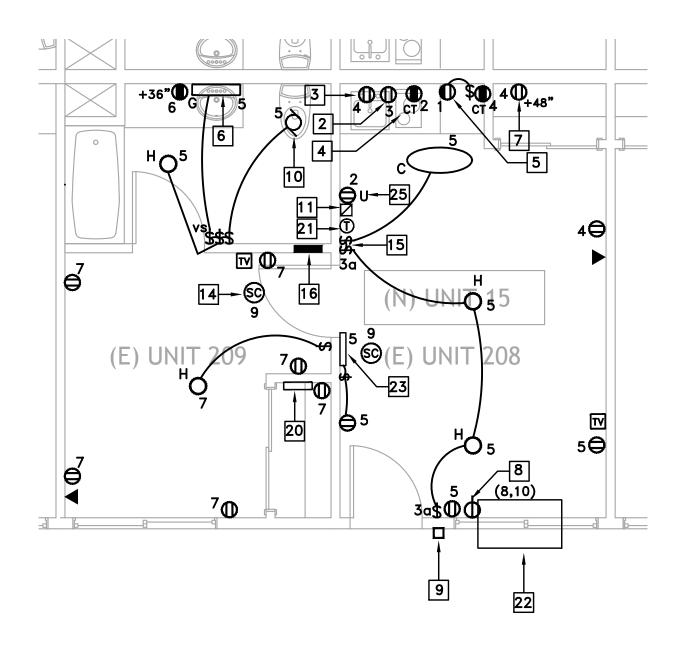
DESERT HAVEN **RE-DEVELOPMENT**

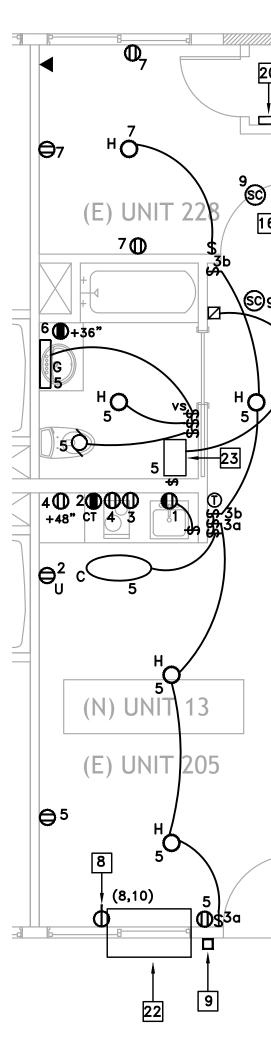
PROJECT LOCATION:

16959 STODDARD RD. VICTORVILLE, CA 92395

SHEET TITLE:

ELECTRICAL UNITS FIRST FLOOR PLAN





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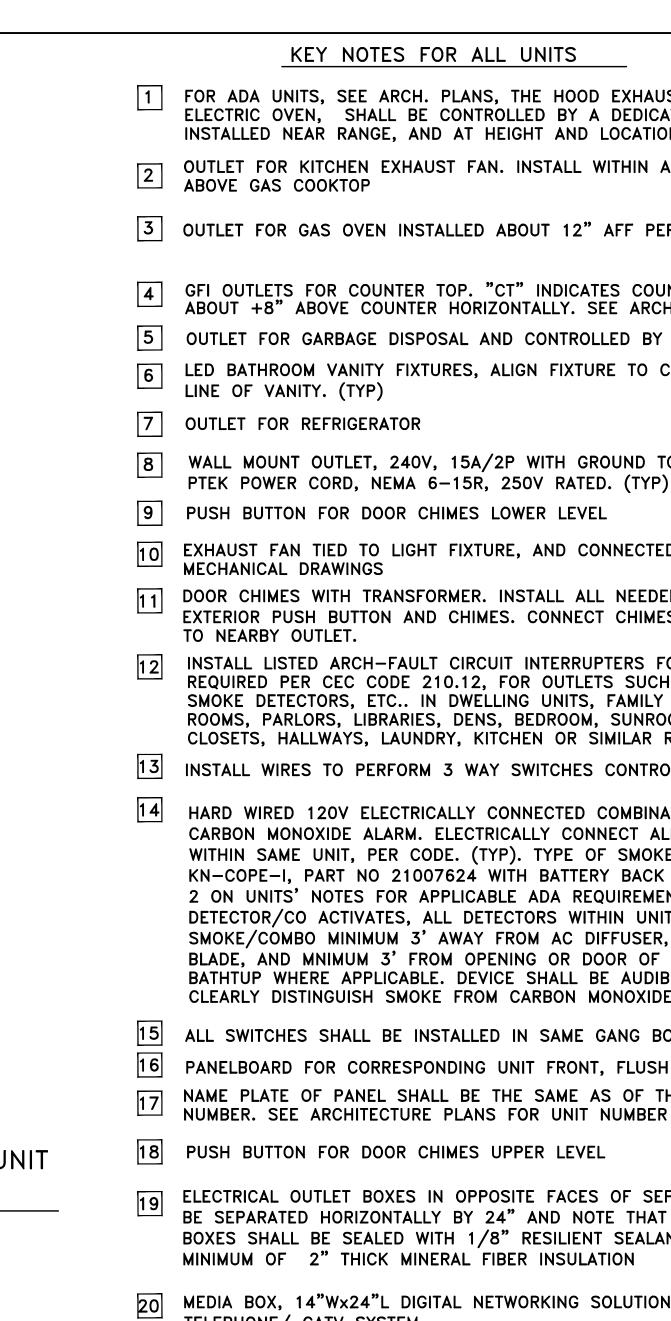
<u>(</u>\$)9

SECOND FLOOR SIDE-BY-SIDE NON ACCESSIBLE UNIT ELECTRICAL PLAN ∕1E−3.1 SCALE: 1/4" = 1'-0"\E−3.1

2E-3.1	SECOND FLOOR IN LINE NON ACCESSIBLE UNIT ELECTRICAL
E-3.1	SCALE: $1/4$ " = 1'-0"

APPLICABLE TO SIDE BY S	IDE AND IN	LINE ACCES	SIBLE UNITS
Accessible Unit load cal	culation		
General	Unit	Watts/unit	Total watts
Unit sf	442	3	1320
small appliance circuits	2	1500	3000
Sub-total			4326
Demand factor per NEC	code sectio	n 220.82	
First 3000 VA at 100%			3000
Remainder load at 35%	1326	x 0.35	464
sub-total			3464
Appliance load	Unit	Watts/unit	Total watts
garbage disposal	1	900	900
Miscellaneous fans	1	400	400
sub-total			1300
plus 100% AC load			
A/C	1	2752	2752
sub-total			2752
Total unit wattage			7516
Total Amps			36

ſ	VOLTS 120/240V			17	7			лт									MOUNT RECESSED	
I	PHASE 1				<u>'</u>	_			F#	AINE					_		MAIN M.L.O.	_
	WIRES 3		14.2 24 (RA	TIN	IG			I	BUS RATING 125A	_
	REMARKS	LOAD	WATTS	ပ	ပ္ပ	S	S S	CLL	NO	TE 2	AMPS	ပ္တု	ပ္ပ	اد	LOAD	WATTS	REMARKS	
ŀ		ØA	øB	坘	R							Ξ	2		ØA	øB		
	GARBAGE DISPOSAL	900					15	1-^	۴I		² 20				1500		KITCHEN CIRCUIT	
	BUILT-IN FAN		300					3 -~			· 20			\downarrow		1500	KITCHEN CIRCUIT	
	GENERAL POWER/LIGHTING	847									20				180		BATHROOM OUTLET	
	GENERAL POWER/LIGHTING		848								15			\square		1376	1 TON PTEK	
	ELECTRIC SMOKE DETECTOR	200									°15				1376			
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- TELEPHONE/ CATV SYSTEM.

- 23
- 24 THERMOSTAT PER MECHANICAL PLANS
- 25
 - CONTRACTOR ALL EXISTING ALL WORK 1 INSTALLATION SHALL BE NE THE SPECIFIE BUSSING AND TYPE LOAD C SIZE OF #4-2
 - SEE ARCHIT UNIT TYPE
 - UNITS' INTERN

ELECTRICAL PLAN

SECOND FLOOR EFFICIENCY UNIT ELECTRICAL PLAN /3E-3.1 SCALE: 1/4" = 1'-0"E-3.1

G 5

1090 CT 2+48"

(8,10)

22

TV

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5Q

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1'-0"

ALL 125V, 15 AND 20A RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER RESISTANT PER CEC ARTICLE 406-11

**: REQUIRES AFCI BREAKERS PROTECTION PER KEY 12

KEY NOTES FOR ALL UNITS

FOR ADA UNITS, SEE ARCH. PLANS, THE HOOD EXHAUST FAN ABOVE ELECTRIC OVEN, SHALL BE CONTROLLED BY A DEDICATED SWITCH INSTALLED NEAR RANGE, AND AT HEIGHT AND LOCATION PER ADA 2 OUTLET FOR KITCHEN EXHAUST FAN. INSTALL WITHIN A CABINET ABOVE GAS COOKTOP

3 OUTLET FOR GAS OVEN INSTALLED ABOUT 12" AFF PER MANUFACTURER

GFI OUTLETS FOR COUNTER TOP. "CT" INDICATES COUNTER TOP. INSTALL ABOUT +8" ABOVE COUNTER HORIZONTALLY. SEE ARCHITECTURE OUTLET FOR GARBAGE DISPOSAL AND CONTROLLED BY SWITCH LED BATHROOM VANITY FIXTURES, ALIGN FIXTURE TO CENTER

WALL MOUNT OUTLET, 240V, 15A/2P WITH GROUND TO MATCH PTEK POWER CORD, NEMA 6-15R, 250V RATED. (TYP)

EXHAUST FAN TIED TO LIGHT FIXTURE, AND CONNECTED PER

DOOR CHIMES WITH TRANSFORMER. INSTALL ALL NEEDED WIRES BETWEEN EXTERIOR PUSH BUTTON AND CHIMES. CONNECT CHIMES' TRANSFORMER

INSTALL LISTED ARCH-FAULT CIRCUIT INTERRUPTERS FOR ALL CIRCUITS AS REQUIRED PER CEC CODE 210.12, FOR OUTLETS SUCH AS RECEPTACLES, LIGHTS, SMOKE DETECTORS, ETC.. IN DWELLING UNITS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOM, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, LAUNDRY, KITCHEN OR SIMILAR ROOMS,

13 INSTALL WIRES TO PERFORM 3 WAY SWITCHES CONTROL. (TYP.)

HARD WIRED 120V ELECTRICALLY CONNECTED COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE ALARM. ELECTRICALLY CONNECT ALL SMOKE/CO COMBO TOGETHER WITHIN SAME UNIT, PER CODE. (TYP). TYPE OF SMOKE/CO ALARM IS KIDDE MODEL NO KN-COPE-I, PART NO 21007624 WITH BATTERY BACK UP PER CODE. (TYP) SEE NOTE 2 ON UNITS' NOTES FOR APPLICABLE ADA REQUIREMENTS. IF ONE COMBO SMOKE DETECTOR/CO ACTIVATES, ALL DETECTORS WITHIN UNIT ACTIVATES INSTALL SMOKE/COMBO MINIMUM 3' AWAY FROM AC DIFFUSER, MINIMUM 3' FROM EDGE OF FAN BLADE, AND MNIMUM 3' FROM OPENING OR DOOR OF BATHROOM WITH SHOWER OR BATHTUP WHERE APPLICABLE. DEVICE SHALL BE AUDIBLE AND VOICE ACTIVATED THAT CLEARLY DISTINGUISH SMOKE FROM CARBON MONOXIDE.

ALL SWITCHES SHALL BE INSTALLED IN SAME GANG BOX AS REQUIRED PANELBOARD FOR CORRESPONDING UNIT FRONT, FLUSH MOUNT. NAME PLATE OF PANEL SHALL BE THE SAME AS OF THE UNIT

19 ELECTRICAL OUTLET BOXES IN OPPOSITE FACES OF SEPERATION WALLS SHALL BE SEPARATED HORIZONTALLY BY 24" AND NOTE THAT BACK AND SIDES OF BOXES SHALL BE SEALED WITH 1/8" RESILIENT SEALANT AND BACKED BY A MINIMUM OF 2" THICK MINERAL FIBER INSULATION

MEDIA BOX, 14"Wx24"L DIGITAL NETWORKING SOLUTIONS (DNS), WHICH HOUSES

- TERMINATE THE UNIT INCOMING TELEPHONE WIRING FROM MAIN BUILDING UTILITY ROOM, INTO DNS TELEPHONE PORT. ALL UNITS TELEPHONE WIRING SHALL BE RUN FROM TELEPHONE JACK DIRECTLY TO DNS IN PARALLEL INSTALLATION. NO LOOPING IS ALLOWED. TERMINATE VILLA UNIT CAT 5e (WHITE) IN APPROPRIATE PORTS AND PUNCHED DOWN. - TERMINATE THE UNIT INCOMING RG6 CABLE WIRING FROM MAIN BUILDING UTILITY ROOM. INTO DNS CABLE PORT OF MINIMUM 4

WAY SPLITTER, THEN FEED EACH VILLA UNIT CABLE TV.

21 INSTALL 3 WAY WIRING BETWEEN FIRST AND SECOND FLOOR

22 PTEK WITH 2.4KW HEATER ELEMENT, 240V, 15A CORD, FLA OF 2752W

TAF PER MECHANICAL PLANS, 120V, WITH 120V SWITCH AS A DISCONNECTING MEANS

U: INDICATES OUTLET WITH USB CONNECTIONS. (TYP)

R SHALL BE RESPONSIBLE TO FIELD G CONDITIONS, AND INCLUDE IN THE THAT NEED TO BE REMOVED TO ALLC N SHOWN ON THIS PROJECT. ALL MA EW	IR BID DW
D PANELBOARD WITH 125A	FOR ONLY WITHIN UNITS, AND FOR ALL
24 CIRCUITS ARE "SQUARE D"	CIRCUIT BREAKERS RATED 15A, CONTRACTOR
CENTER WITH LUGS RATED WIRE	MAY USE NO 14 GAGE WIRES, AND USE
-2/0	OUTLETS RATED FOR 15A
TECTURE PLANS FOR QUANTITY OF TH	HIS ALL WIRES SHALL INCLUDE GROUND
PER THIS DESIGN SHEET.	WIRE PER CODE
SHALL USE ROMEX FOR	ALL "SQUARE D" PANELBOARDS' LUGS
NAL WIRING PER CODE	ARE RATED FOR 75° WIRES



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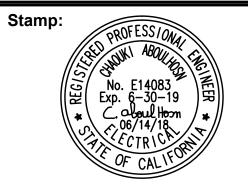
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AME NO. : 18012



DRAWING REVISION LOG

SUBMITTAL	12/12/17
PC SUBMITTAL	05/07/18

PROJECT NAME:

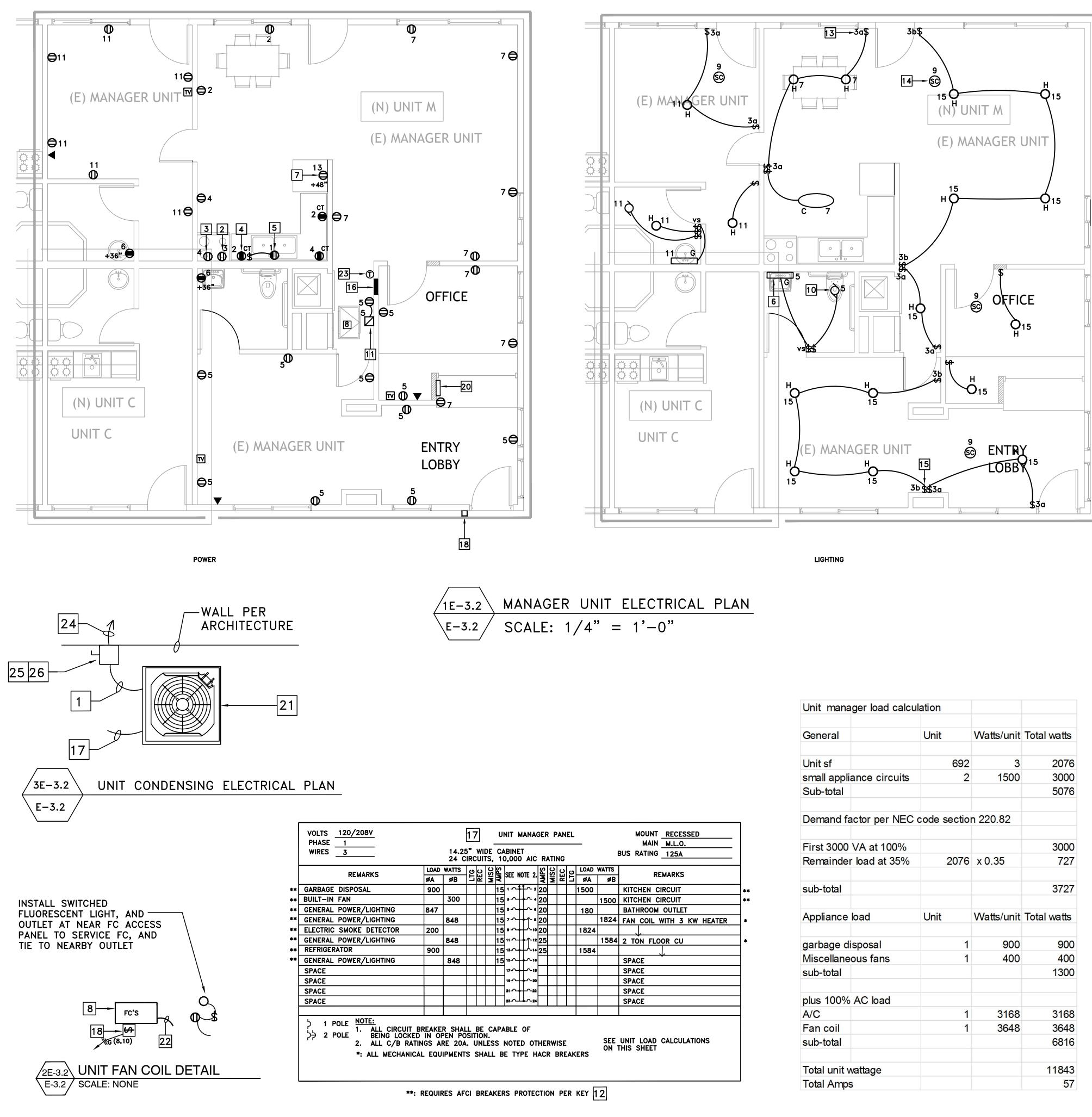
DESERT HAVEN RE-DEVELOPMENT

PROJECT LOCATION:

16959 STODDARD RD. VICTORVILLE, CA 92395

SHEET TITLE:

ELECTRICAL UNITS SECOND FLOOR PLAN



KEY NOTES FOR ALL UNITS

Unit manager load cale	culation		
General	Unit	Watts/unit	Total watts
Unit sf	692	3	207
small appliance circuits	2	1500	300
Sub-total			507
Demand factor per NE	C code sectio	n 220.82	
First 3000 VA at 100%			300
Remainder load at 35%	2076	x 0.35	72
sub-total			372
Appliance load	Unit	Watts/unit	Total watts
garbage disposal	1	900	90
Miscellaneous fans	1	400	40
sub-total			130
plus 100% AC load			
A/C	1	3168	316
Fan coil	1	3648	364
sub-total			681
Total unit wattage			1184
Total Amps			5

2	OUTLET FOR KITCHEN EXHAUST FAN. I ABOVE GAS COOKTOP
3	OUTLET FOR GAS OVEN INSTALLED ABO
4	GFI OUTLETS FOR COUNTER TOP. "CT" ABOUT +8" ABOVE COUNTER HORIZON
5	OUTLET FOR GARBAGE DISPOSAL AND
6	LED BATHROOM VANITY FIXTURES, ALIG LINE OF VANITY. (TYP)
7	OUTLET FOR REFRIGERATOR
8	FAN COIL UNIT IN ATTIC PER MECHANI
9	PUSH BUTTON FOR DOOR CHIMES LOW
10	EXHAUST FAN TIED TO LIGHT FIXTURE, MECHANICAL DRAWINGS
11	DOOR CHIMES WITH TRANSFORMER. INS EXTERIOR PUSH BUTTON AND CHIMES. TO NEARBY OUTLET.
12	INSTALL LISTED ARCH—FAULT CIRCUIT REQUIRED PER CEC CODE 210.12, FOI SMOKE DETECTORS, ETC IN DWELLING ROOMS, PARLORS, LIBRARIES, DENS, B CLOSETS, HALLWAYS, LAUNDRY, KITCH
13	INSTALL WIRES TO PERFORM 3 WAY S
14	HARD WIRED 120V ELECTRICALLY CONN CARBON MONOXIDE ALARM. ELECTRICAL WITHIN SAME UNIT, PER CODE. (TYP). KN-COPE-I, PART NO 21007624 WITH 2 ON UNITS' NOTES FOR APPLICABLE DETECTOR/CO ACTIVATES, ALL DETECTO SMOKE/COMBO MINIMUM 3' AWAY FROM OF FAN BLADE WHERE APPLICABLE. DE THAT CLEARLY DISTINGUISH SMOKE FROM
15	ALL SWITCHES SHALL BE INSTALLED IN
16	
17	NAME PLATE OF PANEL SHALL BE THE NUMBER. SEE ARCHITECTURE PLANS FO
18	240V, 1HP RATED MOTOR SWITCH, INS A DISCONNECTING MEANS FOR FC. SW
19	ELECTRICAL OUTLET BOXES IN OPPOSIT BE SEPARATED HORIZONTALLY BY 24" BOXES SHALL BE SEALED WITH 1/8" MINIMUM OF 2" THICK MINERAL FIBER
20	MEDIA BOX, 14"Wx24"L DIGITAL NETWO TELEPHONE/ CATV SYSTEM.
	 TERMINATE THE UNIT INCOMING TEL UTILITY ROOM, INTO DNS TELEPHON SHALL BE RUN FROM TELEPHONE J INSTALLATION. NO LOOPING IS ALLO (WHITE) IN APPROPRIATE PORTS AN TERMINATE THE UNIT INCOMING RG6 BUILDING UTILITY ROOM, INTO DNS WAY SPLITTER, THEN FEED EACH VI
21	OUTDOOR GROUND FLOOR A/C CONDEN INSTALL PER DET. 3E-3.2
22	1/2"C WITH A/C CONTROL WIRES BET
23	THERMOSTAT PER MECHANICAL PLANS
24	3/4"C WITH 2#8 AND 1#10 GND, CK
25	DISCONNECTS ARE WALL MOUNT AT TH SO CLEARANCES CODE REQUIREMENTS
26	NEMA 3R OUTDOOR, 60A NON FUSED 2P RATED FOR 10,000 AIC.
	V, 15 AND 20A RECEPTACLES IN DWELLING E TAMPER RESISTANT PER CEC ARTICLE 406-

ALL SWITCHES CONTROLLIN FIXTURES, SHALL BE DIMMI WHEN VACANCY SENSOR I LESS THAN 70sf CLOSET

FOR ONLY WITHIN UNITS, CIRCUIT BREAKERS RATED MAY USE NO 14 GAGE WIR OUTLETS RATED FOR 15A

THE SPECIFIED PANELBOARD BUSSING AND 24 CIRCUITS A TYPE LOAD CENTER WITH LUG SIZE OF #4-2/0

MOUNT <u>RECESSED</u>								
		MAIN M.L.O.						
	ĺ	BUS RATING <u>125A</u>						
)	WATTS	REMARKS						
	øB	REMARKS						
)		KITCHEN CIRCUIT	**					
	1500	KITCHEN CIRCUIT	**					
)		BATHROOM OUTLET						
	1824	FAN COIL WITH 3 KW HEATER	*					
4								
	1584	2 TON FLOOR CU	*					
4								
		SPACE						
		SPACE						
		SPACE						
		SPACE						
		SPACE						
			_					

1 WP SEALTITE FLEX 3/4"C WITH 2#8 AND 1#10 GND, TO A/C ELECTRICAL CONNECTIONS TCHEN EXHAUST FAN. INSTALL WITHIN A CABINET

AS OVEN INSTALLED ABOUT 12" AFF PER MANUFACTURER

OR COUNTER TOP. "CT" INDICATES COUNTER TOP. INSTALL BOVE COUNTER HORIZONTALLY. SEE ARCHITECTURE ARBAGE DISPOSAL AND CONTROLLED BY SWITCH

VANITY FIXTURES, ALIGN FIXTURE TO CENTER Y. (TYP)

IN ATTIC PER MECHANICAL DRAWINGS, AND DET. 2E-3.1

FOR DOOR CHIMES LOWER LEVEL

TIED TO LIGHT FIXTURE, AND CONNECTED PER

WITH TRANSFORMER. INSTALL ALL NEEDED WIRES BETWEEN BUTTON AND CHIMES. CONNECT CHIMES' TRANSFORMER TLET.

ARCH-FAULT CIRCUIT INTERRUPTERS FOR ALL CIRCUITS AS CEC CODE 210.12, FOR OUTLETS SUCH AS RECEPTACLES, LIGHTS, ORS, ETC.. IN DWELLING UNITS, FAMILY ROOMS, DINING ROOMS, LIVING RS, LIBRARIES, DENS, BEDROOM, SUNROOMS, RECREATION ROOMS, WAYS, LAUNDRY, KITCHEN OR SIMILAR ROOMS,

TO PERFORM 3 WAY SWITCHES CONTROL. (TYP.)

20V ELECTRICALLY CONNECTED COMBINATION SMOKE DETECTOR AND (IDE ALARM. ELECTRICALLY CONNECT ALL SMOKE/CO COMBO TOGETHER INIT, PER CODE. (TYP). TYPE OF SMOKE/CO ALARM IS KIDDE MODEL NO ART NO 21007624 WITH BATTERY BACK UP PER CODE. (TYP) SEE NOTE IOTES FOR APPLICABLE ADA REQUIREMENTS. IF ONE COMBO SMOKE ACTIVATES, ALL DETECTORS WITHIN UNIT ACTIVATES INSTALL MINIMUM 3' AWAY FROM AC DIFFUSER, AND MINIMUM 3' FROM EDGE WHERE APPLICABLE. DEVICE SHALL BE AUDIBLE AND VOICE ACTIVATED DISTINGUISH SMOKE FROM CARBON MONOXIDE.

SHALL BE INSTALLED IN SAME GANG BOX AS REQUIRED

OR CORRESPONDING UNIT FRONT, FLUSH MOUNT.

PANEL SHALL BE THE SAME AS OF THE UNIT **ARCHITECTURE PLANS FOR UNIT NUMBER**

TED MOTOR SWITCH, INSTALL CLOSE TO DOOR TO SERVE AS NG MEANS FOR FC. SWITCH TO BE LOCKABLE

TLET BOXES IN OPPOSITE FACES OF SEPERATION WALLS SHALL HORIZONTALLY BY 24" AND NOTE THAT BACK AND SIDES OF BE SEALED WITH 1/8" RESILIENT SEALANT AND BACKED BY A " THICK MINERAL FIBER INSULATION

"Wx24"L DIGITAL NETWORKING SOLUTIONS (DNS), WHICH HOUSES ATV SYSTEM.

THE UNIT INCOMING TELEPHONE WIRING FROM MAIN BUILDING M, INTO DNS TELEPHONE PORT. ALL UNITS TELEPHONE WIRING UN FROM TELEPHONE JACK DIRECTLY TO DNS IN PARALLEL N. NO LOOPING IS ALLOWED. TERMINATE VILLA UNIT CAT 5e APPROPRIATE PORTS AND PUNCHED DOWN. HE UNIT INCOMING RG6 CABLE WIRING FROM MAIN

ILITY ROOM, INTO DNS CABLE PORT OF MINIMUM 4 R, THEN FEED EACH VILLA UNIT CABLE TV. ND FLOOR A/C CONDENSING UNIT FOR EACH UNIT. ET. 3E-3.2

C CONTROL WIRES BETWEEN FC UNITS AND COMPRESSORS' UNIT

#8 AND 1#10 GND, CKTS NO (12,14). (TYP)

ARE WALL MOUNT AT THE NEARBY WALL. DESIGNED NON FUSE S CODE REQUIREMENTS ARE NOT APPLICABLE. DOOR, 60A NON FUSED DISCONNECT SWITCH, 240V, 10,000 AIC.

CEPTACLES IN DWELLING UNITS NT PER CEC ARTICLE 406-11

NG LED LIGHT ER TYPE, EXCEPT S SPECIFIED OR	SEE ARCHITECTURE PLANS FOR QUANTITY OF TH UNIT TYPE PER THIS DESIGN SHEET.	IIS
AND FOR ALL 15A, CONTRACTOR RES, AND USE	CONTRACTOR SHALL USE ROMEX FOR UNITS' INTERNAL WIRING PER CODE	
KES, AND USE	ALL WIRES SHALL INCLUDE GROUND WIRE PER CODE	
WITH 125A		
RE "SQUARE D" GS RATED WIRE	ALL "SQUARE D" PANELBOARDS' LUGS ARE RATED FOR 75' WIRES	

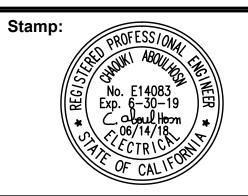


2130 FOURTH ST SAN RAFAEL, CA 94901 PHONE (415) 457-6035 FAX (415) 457-6036

P.O.BOX 150539 SAN RAFAEL, CA 94915

CHARLES PICK, ARCHITECT **Consultants:**





DRAWING REVISION LOG

SUBMITTAL	12/12/17
PC SUBMITTAL	05/07/18

PROJECT NAME:

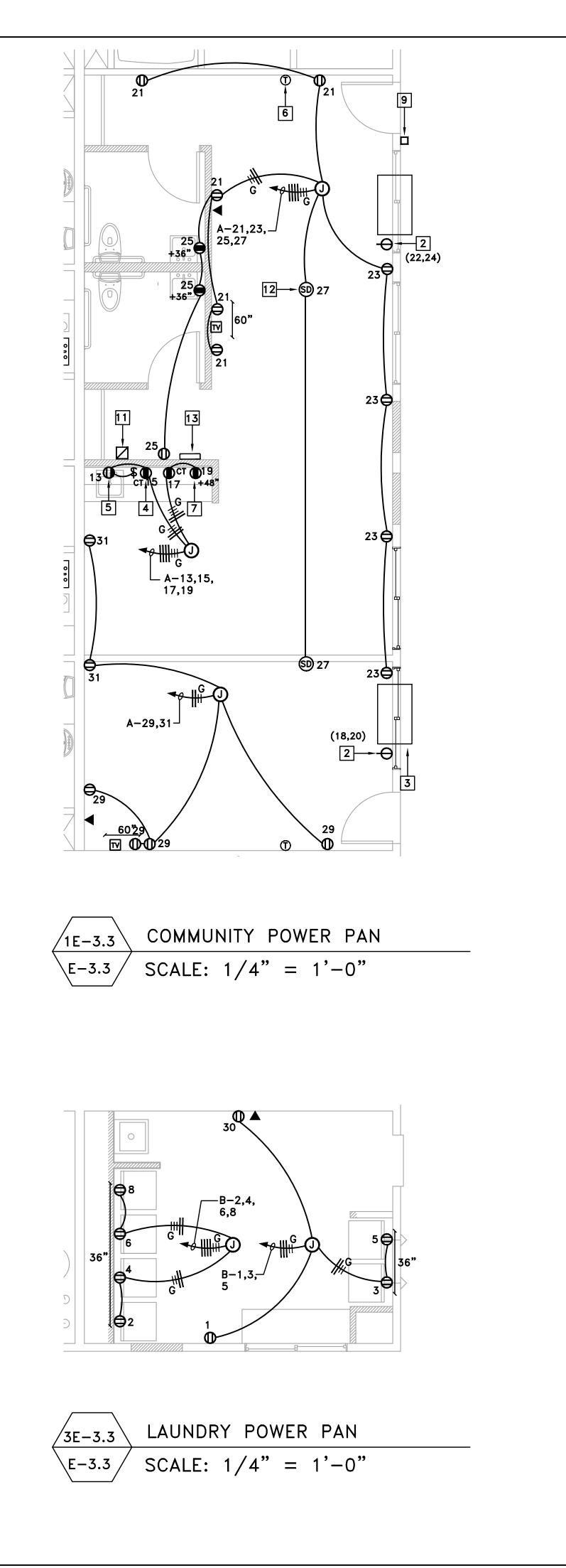
DESERT HAVEN RE-DEVELOPMENT

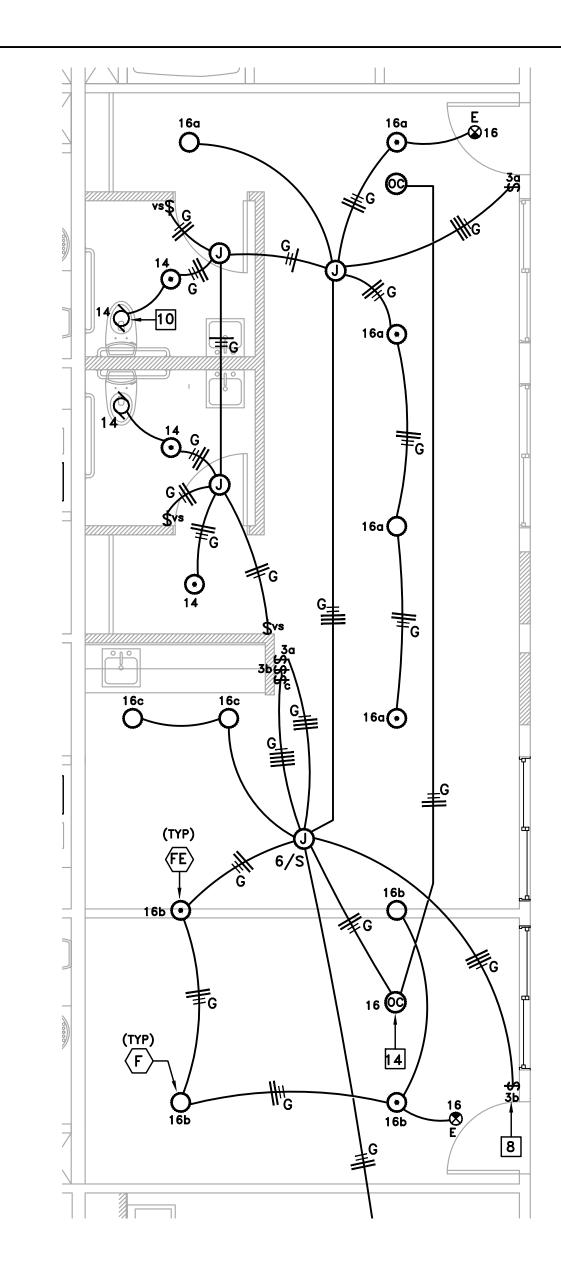
PROJECT LOCATION:

16959 STODDARD RD. VICTORVILLE, CA 92395

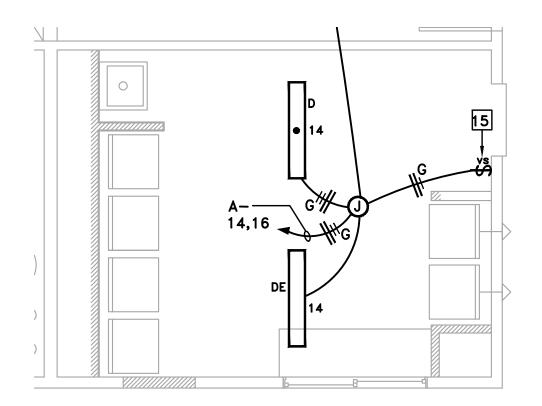
SHEET TITLE:

ELECTRICAL MANAGER UNIT PLAN



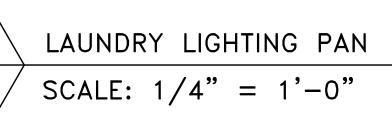








	СОММИІ	NITY L	IGH	TING	PAN	
/	SCALE:	1/4"	=	1'-0	,,	



LOCATION: GROUND	PANEL									
CHECK IF UPGRADEI	CHECK IF UPGRADED TYPE: SURFACE									
DESCRIPTION	W	ATTS (V)	(A) NO. OF OUTLE				BKR.			
DESCRIPTION	ΦA	ΦB	ФС	LTG	REC	MISC	AMP	Р		
LAUNDRY	1500				1		20	1		
LAUNDRY		1500			1		20	1		
LAUNDRY			600		2		20	1		
SPACE										
SPACE										
SPACE										
FURUE EV CHARGER	3328									
FURUE EV CHARGER		3328								
FURUE EV CHARGER			3328							
FURUE EV CHARGER	3328									
FURUE EV CHARGER		3328								
FURUE EV CHARGER			3328							
	8156	8156	7256							
SUBTOTAL PHASE A =			11156	WATTS						
SUBTOTAL PHASE B =			9656	WATTS						
SUBTOTAL PHASE C =			8756	WATTS						
LC LOAD x 25% =		WATTS								
TOTAL CONNECTED W	ATTS =		29568							
MAXIMAM WATTS =			29568			100.010				
FEEDER AMPS =			82	120/2	208V-34	0-4W				

K	ΕY

- 1 2 3 4 5 6 THERMOSTAT PER MECHANICAL PLANS 7 OUTLET FOR REFRIGERATOR 8 9
- 10 11 TO NEARBY OUTLET.
- 13 TELEPHONE/ CATV SYSTEM.
- 14 15

NOTES FOR ALL UNITS

GAS WASHING MACHINE. (TYP)

WALL MOUNT OUTLET, 208V, 15A/2P WITH GROUND TO MATCH PTEK POWER CORD, NEMA 6-15R, 250V RATED. (TYP) PTEK WITH 2.4KW HEATER ELEMENT, 208V, 15A CORD, FLA OF 2752W

GFI OUTLETS FOR COUNTER TOP. "CT" INDICATES COUNTER TOP. INSTALL ABOUT +8" ABOVE COUNTER HORIZONTALLY. SEE ARCHITECTURE OUTLET FOR GARBAGE DISPOSAL AND CONTROLLED BY SWITCH

INSTALL WIRES TO PERFORM 3 WAY SWITCHES CONTROL. (TYP.)

PUSH BUTTON FOR DOOR CHIMES LOWER LEVEL

EXHAUST FAN TIED TO LIGHT FIXTURE, AND CONNECTED PER MECHANICAL DRAWINGS

DOOR CHIMES WITH TRANSFORMER. INSTALL ALL NEEDED WIRES BETWEEN EXTERIOR PUSH BUTTON AND CHIMES. CONNECT CHIMES' TRANSFORMER

12 HARD WIRED 120V ELECTRICALLY CONNECTED COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE ALARM. ELECTRICALLY CONNECT ALL SMOKE/CO COMBO TOGETHER WITHIN SAME UNIT, PER CODE. (TYP). TYPE OF SMOKE/CO ALARM IS KIDDE MODEL NO KN-COPE-I, PART NO 21007624 WITH BATTERY BACK UP PER CODE. (TYP) SEE NOTE 2 ON UNITS' NOTES FOR APPLICABLE ADA REQUIREMENTS. IF ONE COMBO SMOKE DETECTOR/CO ACTIVATES, ALL DETECTORS WITHIN UNIT ACTIVATES INSTALL SMOKE/COMBO MINIMUM 3' AWAY FROM AC DIFFUSER, AND MINIMUM 3' FROM EDGE OF FAN BLADE WHERE APPLICABLE. DEVICE SHALL BE AUDIBLE AND VOICE ACTIVATED THAT CLEARLY DISTINGUISH SMOKE FROM CARBON MONOXIDE.

MEDIA BOX, 14"Wx24"L DIGITAL NETWORKING SOLUTIONS (DNS), WHICH HOUSES

- TERMINATE THE UNIT INCOMING TELEPHONE WIRING FROM MAIN BUILDING UTILITY ROOM, INTO DNS TELEPHONE PORT. ALL UNITS TELEPHONE WIRING SHALL BE RUN FROM TELEPHONE JACK DIRECTLY TO DNS IN PARALLEL INSTALLATION. NO LOOPING IS ALLOWED. TERMINATE VILLA UNIT CAT 5e (WHITE) IN APPROPRIATE PORTS AND PUNCHED DOWN. - TERMINATE THE UNIT INCOMING RG6 CABLE WIRING FROM MAIN BUILDING UTILITY ROOM, INTO DNS CABLE PORT OF MINIMUM 4

WAY SPLITTER, THEN FEED EACH VILLA UNIT CABLE TV. WIRED OCCUPANCY SENSOR, LUTRON #LOS-CDT-1000-WH, WITH POWER PACK (TYP)

SINGLE SWITCH VACANCY SENSOR, MANUAL ON/AUTO OFF, "LUTRON" CAT NO MS-VPS2 RATED FOR 240W, AND 15-20' LINE OF SIGHT COVERAGE. (TYP)

L SCHEDULE - "B"						CON		l	BUS:	1 00A	MAIN: L.O.	
GE: 120/208V-3Ф-4W					NEW	~	EXIST	ING 🗆	SE	RIES RA	TED CIRC. BKRS.	
	CIR.	NO.	B	KR.	NO. C	F OUT	LETS	W A	ATTS (N	/xA)	DESCRIPTION	
	#	#	P	AMP	MISC	REC	LTG	ΦA	ΦB	ΦC	DESCRIPTION	
	1	2	1	20		1		<mark>1500</mark>			LAUNDRY	
	3	4	1	20		1			1500		LAUNDRY	
	5	6	1	20		1				1500	LAUNDRY	
	7	8	1	20		1		1500			LAUNDRY	
	9	10									SPACE	
	11	12									SPACE	
	13	14									SPACE	
	15	16									SPACE	
	17	18									SPACE	
	19	20									SPACE	
	21	22									SPACE	
	23	24									SPACE	
								3000	1500	1500	CONNECTED WATTS	

BASIS & Consulting

2130 FOURTH ST SAN RAFAEL, CA 94901 PHONE (415) 457-6035 FAX (415) 457-6036

P.O.BOX 150539 SAN RAFAEL, CA 94915

CHARLES PICK, ARCHITECT Consultants:



Stamp:

DRAWING REVISION LOG

SUBMITTAL	12/12/17
PC SUBMITTAL	05/07/18

PROJECT NAME:

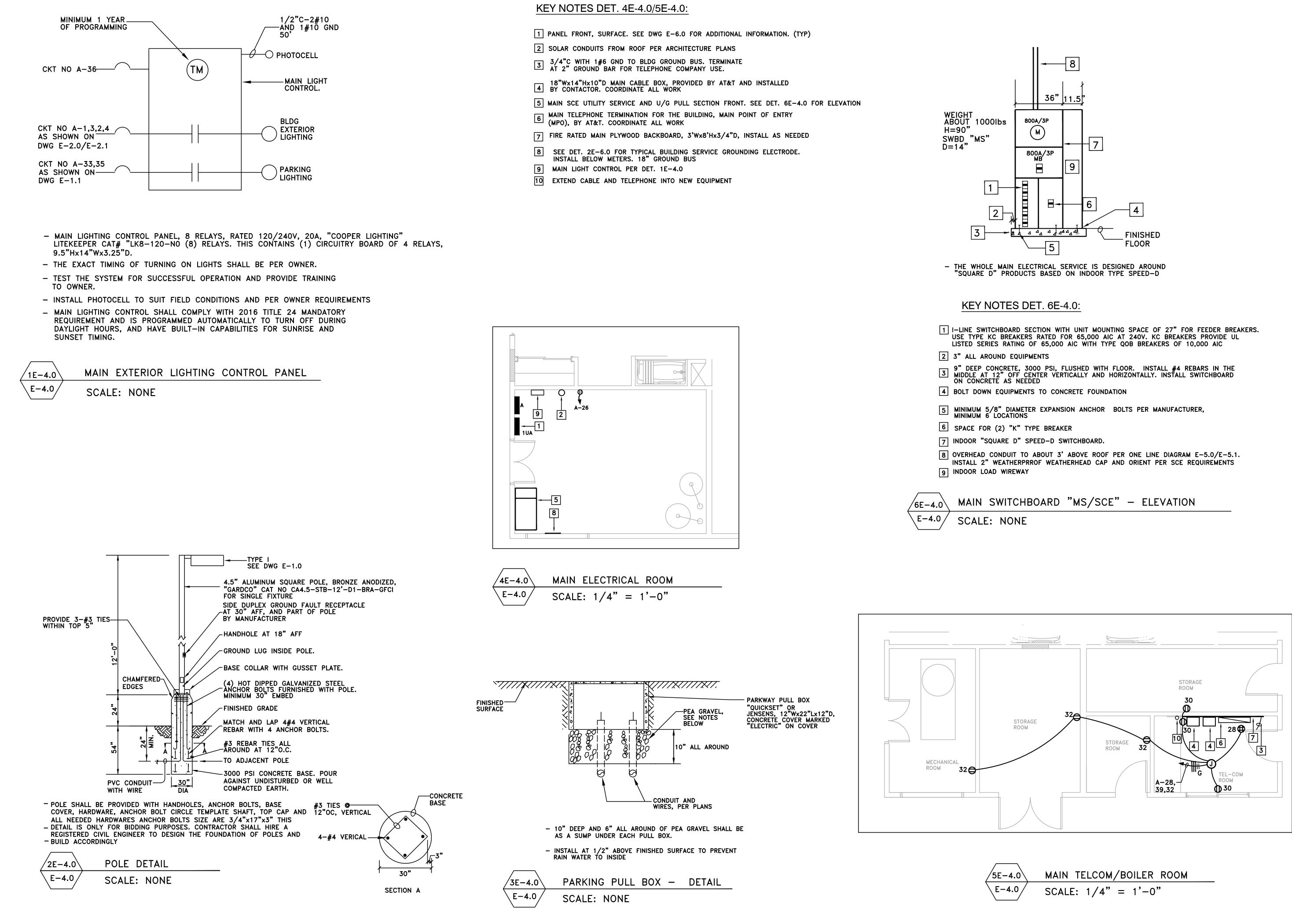
DESERT HAVEN **RE-DEVELOPMENT**

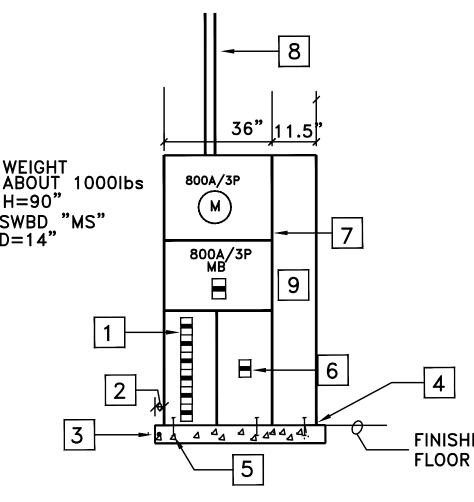
PROJECT LOCATION:

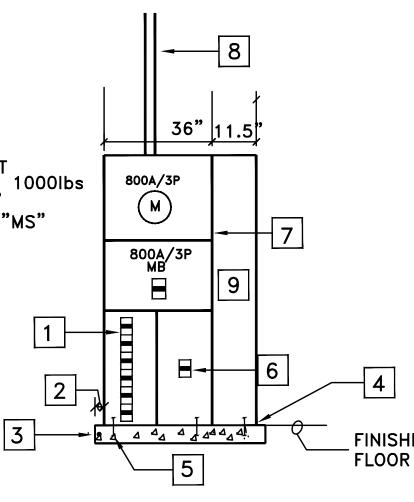
16959 STODDARD RD. VICTORVILLE, CA 92395

SHEET TITLE:

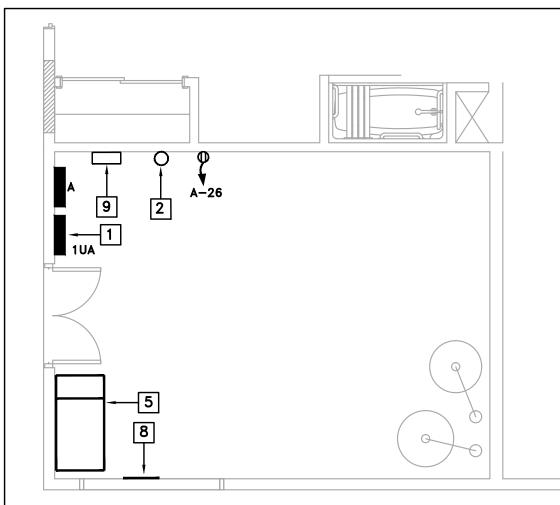
ELECTRICAL COMMUNITY AND LAUNDRY PLAN

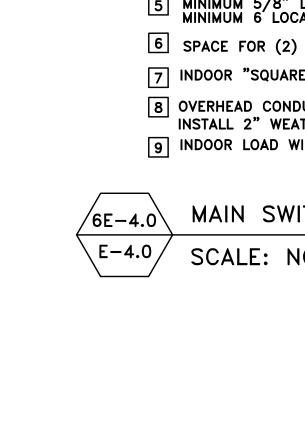












BASIS ^{Ar}	Consulting						
2130 FOURT SAN RAFAEL, C/ PHONE (415) 45 FAX (415) 457-	A 94901 57-6035						
P.O.BOX 150539 SAN RAFAEL, CA 94915							
CHARLES PICK, ARCHITECT Consultants:							
AME	\sum						
MECHANICAL, ELECTRICAL & CONSULTING ENGINEE 2001 Main Street. Suite 730	INC. Plumbing RS						
www.amegroup.no							
AME NO. : 18 Stamp:							
No. E14 Exp. 6-3 C. Obeu C. Obeu C. Obeu C. Obeu C. Obeu C. OF CA	0/0147 FIGURE 1000 083 0-19 18 1000 18 10 18 10 18 10 10 10 10 10 10 10 10 10 10 10 10 10						
DRAWING REVISI	ON LOG						
SUBMITTAL	12/12/17						
PC SUBMITTAL	05/07/18						
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PROJECT NA	ME:						
PROJECT NA DESERT HA RE-DEVELOF	AVEN						
DESERT HA	AVEN PMENT						
DESERT HA RE-DEVELOF	AVEN PMENT						
DESERT HA	AVEN PMENT ATION: ARD RD.						

ELECTRICAL DETAILS

OCATION: SECOND	FLOOR S	STORAGE I	MOUNTIN	IG: ON	THE	NALL	PAN	NEL S	CHE	DULE	- "1	UA"	•		CON	DITION	
CHECK IF UPGRADE	D		TYPE: SI	JRFAC	E		VOLTAGE: 120/208V-30				/-3Φ-4	4W		NEW 🗹			
DESCRIPTION	W	ATTS (Vx/	۹)	NO. O	OF OUTLE	LETS	BK	BKR. (CIR. NO.		B <mark>K</mark> R.		NO. O	F OUT	LETS	W
DESCRIPTION	ФА	ΦВ	ΦC	LTG	REC	MISC	AMP	P	#	#	P	AN	MP	MISC	REC	LTG	ΦА
JNIT NO 201	3758						<mark>50</mark>	2	1	2	2	5	5 <mark>0</mark>				3758
JNIT NO 201		3758					50	2	3	4	2	5	50				
JNIT NO 202			3758				50	2	5	6	2	5	5 <mark>0</mark>				
JNIT NO 202	3758						50	2	7	8	2	5	50				3758
JNIT NO 203		3758					50	2	9	10	2	5	0				
JNIT NO 203			3758				50	2	11	12	2	5	0				
JNIT NO 204	3758						50	2	13	14	2	5	0				3758
JNIT NO 204		3758					<mark>50</mark>	2	15	16	2	5	5 <mark>0</mark>				
JNIT NO 205			3758				<mark>50</mark>	2	17	18	2	5	5 <mark>0</mark>				
JNIT NO 205	3758								19	20	2	5	5 <mark>0</mark>				3758
SPACE	Balan da januar Sunar								21	22							They have been been
SPACE									23	24							
SPACE									25	26	1						
SPACE									27	28							
SPACE									29	30							
SPACE									31	32							
SPACE									33	34		1					
SPACE									35	36							
SPACE									37	38							
SPACE									39	40							
SPACE						-	-		41	42							
	15032	11274	11274		I							_				· · · · · ·	15032
SUBTOTAL PHASE B = SUBTOTAL PHASE C = LC LOAD x 25% = TOTAL CONNECTED W MAXIMUM WATTS = FEEDER AMPS =		ŝ	22548 22548 0 SEE DWG	WATTS WATTS 6 E-6.0			S LOAD	CALCI	JLATIC	NS							
LOCATION: SECON	D FLOOF	R STORAGE	MOUNT	ING: (ON THE	E WALL	PA	ANEL	SCH	EDUL	E - "	100	C "	_	со	NDITIC)N
CHECK IF UPGRAD	ED		TYPE: \$	SURFA	CE		V	OLTA	GE: 1	20/20	8V-34	0-4W	٧	NEW		EXIS	
		NATTS (V				JTLETS		KR.		IR. NC		BK				TLETS	
DESCRIPTION	ФА	ΦΒ	ΦC	LTO									AMP				
UNIT NO 201	3758						50	2		2		2	50				375
UNIT NO 201		3758		1			50	2				2	50				
UNIT NO 202			3758	1			50	2				2	50				
UNIT NO 202	3758						50	2		1 1.0.5	-	2	50				375
UNIT NO 203		3758	1				50	2				2	50				
UNIT NO 203			3758				50	2		117		2	50				
UNIT NO 204	3758						50	2		100 ACC		2	50				375
UNIT NO 204		3758	1				50	2				2	50				
UNIT NO 205			3758				50	2			_	2	50				
	0750			1			1174111555.0	_		54.1			1000 1000			-	075
UNIT NO 205	3758						50	2	1	9 20		2	50				375

50 2 23 24 2 50

31 32 33 34 35 36 37 38

39 40 41 42

50 2 25 26

 50
 2
 27
 28

 29
 30

	10/30 10/30 10032		
SUBTOTAL PHASE A =	33822	WATTS	
SUBTOTAL PHASE B =	33822	WATTS	
SUBTOTAL PHASE C =	30064	WATTS	
LC LOAD x 25% =	0	WATTS	
TOTAL CONNECTED W	ATTS =		
MAXIMUM WATTS =	SEE DWO	G E-2.1 FOR (13) UNITS LOAD CALCULATIONS	
FEEDER AMPS =		120/208V-3Φ-4W	

3758

18790 18790 15032

3758

3758

UNIT NO 206

UNIT NO 207

UNIT NO 207

SPACE

SPACE SPACE SPACE SPACE

SPACE SPACE

	BUS:	200A	MAIN: L.O.				
]	SE	RIES RA	TED CIRC. BKRS.				
W A	ATTS (V	/xA)	DESCRIPTION				
1	ΦВ	ФС	DESCRIPTION				
8			UNIT NO 208				
	3758		UNIT NO 208				
		3758	UNIT NO 209				
8			UNIT NO 209				
	3758		UNIT NO 210				
		3758	UNIT NO 210				
8			UNIT NO 211				
	3758		UNIT NO 211				
		3758	UNIT NO 212				
8			UNIT NO 212				
			SPACE				
			SPACE				
			SPACE				
			SPACE				
			SPACE				
			SPACE				
			SPACE				
			SPACE				
			SPACE				
			SPACE				
			SPACE				
32	11274	11274	CONNECTED WATTS				

OCATION: SECOND	FLOOR S	TORAGE	MOUNT	ING: ON	THE V	WALL	PAI	NEL S	CHE	OULE	- "1	JB"		CON	DITION	l I	BUS:	200A	MAIN: L.O.
CHECK IF UPGRADE	D		TYPE: S	URFAC	E		VC	LTAG	E: 120)/208V	-3Φ-4	W	NEW	✓	EXIST	NG 🗆	SE	ERIES RA	TED CIRC. BKRS.
DESCRIPTION	W	WATTS (Vx		/xA) NO. OF OUTLETS		BK	R.	CIR.	NO.	В	KR.	NO. C	F OUT	LETS	WATTS (VxA		/xA)	DESCRIPTION	
DESCINI NON	ФА	ΦB	ФС	LTG	REC	MISC	AMP	Р	#	#	Р	AMP	MISC	REC	LTG	ФА	ΦВ	ФС	DESCRIPTION
UNIT NO 201	3758						50	2	1	2	2	50				3758			UNIT NO 208
JNIT NO 201		3758					50	2	3	4	2	50					3758		UNIT NO 208
UNIT NO 202			3758				50	2	5	6	2	50						3758	UNIT NO 209
UNIT NO 202	3758						50	2	7	8	2	50				3758			UNIT NO 209
UNIT NO 203		3758					50	2	9	10	2	50					3758		UNIT NO 210
UNIT NO 203			3758				50	2	11	12	2	50						3758	UNIT NO 210
UNIT NO 204	3758						50	2	13	14	2	50				3758			UNIT NO 211
UNIT NO 204		3758					50	2	15	16	2	50					3758		UNIT NO 211
UNIT NO 205			3758				50	2	17	18	2	50						3758	UNIT NO 212
UNIT NO 205	3758						50	2	19	20	2	50				3758			UNIT NO 212
UNIT NO 206		3758					50	2	21	22	2	50					3758		UNIT NO 213
UNIT NO 206			3758				50	2	23	24	2	50						3758	UNIT NO 213
SPACE									25	26									SPACE
SPACE									27	28									SPACE
SPACE									29	30									SPACE
SPACE									31	32									SPACE
SPACE									33	34									SPACE
SPACE									35	36									SPACE
SPACE									37	38									SPACE
SPACE									39	40									SPACE
SPACE									41	42									SPACE
	15032	15032	15032													15032	15032	15032	CONNECTED WATTS
SUBTOTAL PHASE A =			30064	WATTS	5														-
SUBTOTAL PHASE B =			30064	WATTS	5														
SUBTOTAL PHASE C =				WATTS															
_C LOAD x 25% =			0	WATTS	5														
TOTAL CONNECTED W	ATTS =							0 4 L 0		10									
MAXIMUM WATTS =			SEE DW				SLOAD	CALCU	LA ΠΟΙ	VS									
FEEDER AMPS =				120/2	208V-30	₽-4W													

N		BUS:	200A	MAIN: L.O.				
Т		SF		TED CIRC. BKRS.				
3		TTS (V						
;	ΦΑ	ΦΒ	ΦC	DESCRIPTION				
	3758			UNIT NO 208				
		3758		UNIT NO 208				
			3758	UNIT NO 209				
	3758			UNIT NO 209				
		3758		UNIT NO 210				
			3758	UNIT NO 210				
	3758			UNIT NO 211				
		3758		UNIT NO 211				
			3758	UNIT NO 212				
	3758			UNIT NO 212				
		3758		UNIT NO 213				
			3758	UNIT NO 213				
				SPACE				
				SPACE				
				SPACE				
				SPACE				
				SPACE				
				SPACE				
				SPACE				
				SPACE				
				SPACE				
	15032	15032	15032	CONNECTED WATTS				

LOCATION: FIRST FLO	OOR UTI	LITY ROOI	MOUNT	ING: ON	THE V	VALL	P	ANEL	SCHE	DUL	E - "A	٨	CON		[BUS:	200A	MAIN: L.O.
CHECK IF UPGRADED)		TYPE: S	URFAC	E		VC	LTAG	E: 120	/208V	- <mark>3Φ-4</mark>	W	NEW 🗹	EXIST	NG 🗆	SE	ERIES RA	ATED CIRC. BKRS.
		ATTS(V			F OUT	LETS	BK		CIR.	10000		KR.	NO. OF OUT		WATTS		/xA)	DECODIDION
DESCRIPTION	ФА	ΦB	ΦC	LTG	REC	MISC	AMP	Ρ	#	#	Р	AMP	MISC REC	LTG	ΦА	ΦВ	ФС	DESCRIPTION
BLDG EXT LIGHT -1ST	285			19			20	1	1	2	1	20		26	460			BLDG EXT LIGHT -2ND
BLDG EXT LIGHT -1ST		285		19			20	1	3	4	1	20		26		460		BLDG EXT LIGHT -2ND
BLDG EXT OUTLET-1ST			720		4		20	1	5	6	1	20	4				720	BLDG EXT OUTLET-2ND
BLDG EXT OUTLET-1ST	720				4		20	1	7	8	1	20	4		720			BLDG EXT OUTLET-2ND
BLDG EXT OUTLET-1ST		720			4		20	1	9	10	1	20	4			720		BLDG EXT OUTLET-2ND
BLDG EXT OUTLET-1ST			720		4		20	1	11	12	1	20	4				720	BLDG EXT OUTLET-2ND
GARBAGE DISPOSAL	900				1		20	1	13	14	1	20	1	8	260			RECREATION LTS
KITCHEN		900			1		20	1	15	16	1	20		8		260		RECREATION LTS
KITCHEN			900		1		20	1	17	18	2	20					1376	1 TON PTEK REC
FRIGERATOR	900				1		20	1	19	20	2	20			1376			1 TON PTEK REC
RECREATION		720			4		20	1	21	22	2	20				1376		1 TON PTEK REC
RECREATION			720		4		20	1	23	24	2	20					1376	1 TON PTEK REC
RECREATION	720				4		20	1	25	26	1	20	1		500			1ST FLOOR UTILITY
RECREATION SD		100			2		20	1	27	28	1	20	2			600		2ND FLOOR TEL-COM
RECREATION			720		4		20	1	29	30	1	20	3				900	2ND FLOOR TEL-COM
RECREATION	900				2		20	1	31	32	1	20	3		540			STORAGE
PARKING LOTS		75		3			20	1	33	34	1	20		9			315	UTILITY LITS
PARKING LOTS			75	3			20	1	35	36	1	20					-	SPARE
GATE KEY ENTRY	500				1		20	1	37	38								SPACE
GATE MOTOR		960			1		20	2	39	40								SPACE
GATE MOTOR			960		1		20	2	41	42								SPACE
	4925	3760	4815												3856	3416	5407	CONNECTED WATTS
SUBTOTAL PHASE A =			8781	WATTS														
SUBTOTAL PHASE B =			7176	WATTS														
SUBTOTAL PHASE C =			10222	WATTS														
LC LOAD x 25% =				WATTS														
TOTAL CONNECTED WA	ATTS =		26179															
MAXIMAM WATTS =			27407															
FEEDER AMPS =			76	120/2	208V-34	0-4W												



2130 FOURTH ST SAN RAFAEL, CA 94901 PHONE (415) 457-6035 FAX (415) 457-6036

P.O.BOX 150539 SAN RAFAEL, CA 94915

CHARLES PICK, ARCHITECT Consultants: DESIGN GROUP, INC. MECHANICAL ELECTRICAL & PLUMBING CONSULTING ENGINEERS CONSULTING ENGINE. 2001 Main Street. Suite 730 Irvine, CA 92812 T: 949.553.0170 F: 949.553.0171 www.amegroup.net AME NO. : 18012 Stamp:

DRAWING REVISION LOG

SUBMITTAL	12/12/17
PC SUBMITTAL	05/07/18

PROJECT NAME:

DESERT HAVEN **RE-DEVELOPMENT**

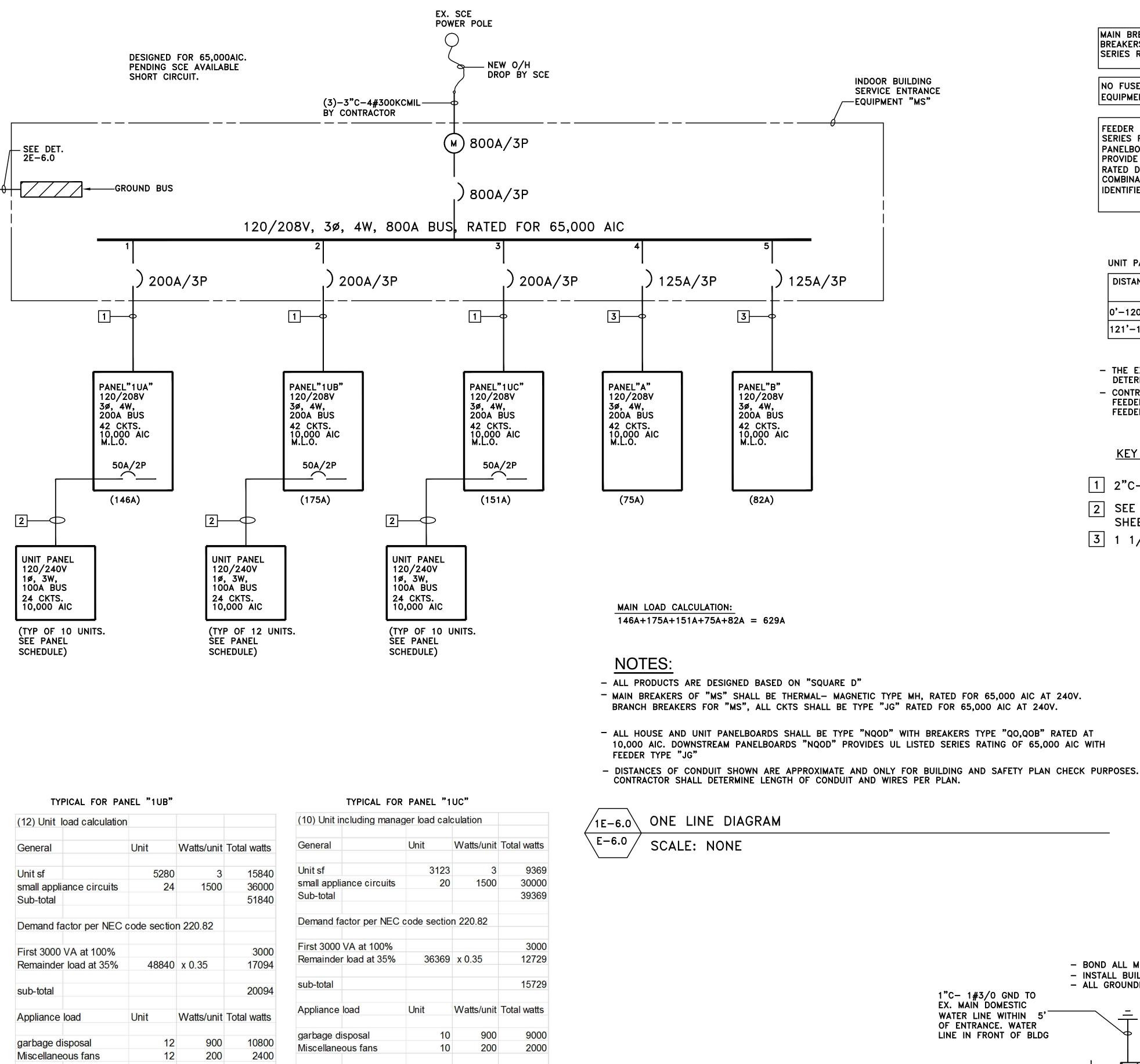
PROJECT LOCATION:

16959 STODDARD RD. VICTORVILLE, CA 92395

SHEET TITLE:

PANEL SCHEDULE

E-5.0



11000

8250

24768

2746

2752

30266

54245

151

2752

2746

2752

9

(10) Unit I	oad calculation			
General		Unit	Watts/unit	Total watts
Unit sf		4310	3	12930
small appli	ance circuits	20	1500	30000
Sub-total				42930
Demand fa	actor per NEC o	ode section	n 220.82	
First 3000	VA at 100%			3000
Remainder	load at 35%	39930	x 0.35	13976
sub-total				16976
Appliance	load	Unit	Watts/unit	Total watts
garbage di	isposal	10	900	9000
Miscellane	-	10	200	2000
sub-total				11000
Demand fa	actor of 75% for	appliance	s 220.53	8250
4000/				
plus 100%	AC load	10	0750	07500
A/C sub-total		10	2752	27520
				21020
Total unit v	vattage			52746
Total Amps				146

TYPICAL FOR PANEL "1UA"

				(10) Linit :
(12) Unit load calculation				(10) Unit i
General	Unit	Watts/unit	Total watts	General
Unit sf	5280	3	15840	Unit sf
small appliance circuits	24	1500	36000	small appl
Sub-total			51840	Sub-total
Demand factor per NEC of	ode sectio	n 220.82		Demand f
First 3000 VA at 100%			3000	First 3000
Remainder load at 35%	48840	x 0.35	17094	Remainde
sub-total			20094	sub-total
Appliance load	Unit	Watts/unit	Total watts	Appliance
nauka na diana sa l	40	000	40000	garbage d
garbage disposal	12		10800	Miscellane
Miscellaneous fans	12	200	2400	
sub-total			13200	sub-total
Demand factor of 75% for	appliance	s 220.53	9900	Demand fa
				plus 100% A/C
plus 100% AC load				A/C mana
A/C	12	2752	33024	FC manag
sub-total			33024	
				sub-total
Total unit wattage			63018	Total unit v
Total Amps			175	Total Amp

nand factor of 75% for appliances 220.53 100% AC load

manager nanager

unit wattage Total Amps

WATER LINE WITHIN 5' OF ENTRANCE. WATER LINE IN FRONT OF BLDG

> NEW 10' GROUND-ROD PER CODE

MAIN WATER LINE

/2E-6.Ò \E-6.0/

MAIN BREAKER AND BRANCH BREAKERS SHALL BE UL LISTED SERIES RATING FOR 42,000 AIC

NO FUSES IN ANY OF EQUIPMENTS ARE ALLOWED

FEEDER BREAKER TYPE "JG" PROVIDES UL LISTED SERIES RATING OF 65,000A WITH HOUSE AND UNIT PANELBOARD BRANCH BREAKER TYPE "QO,QOB". PROVIDE A CAUTIONARY LABEL TO THE SERIES RATED DEVICE COVER STATING "CAUTION"-SERIES COMBINATION SYSTEM RATED 65,000 AMPERS. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED"

UNIT PANEL COPPER FEEDER SCHEDULE

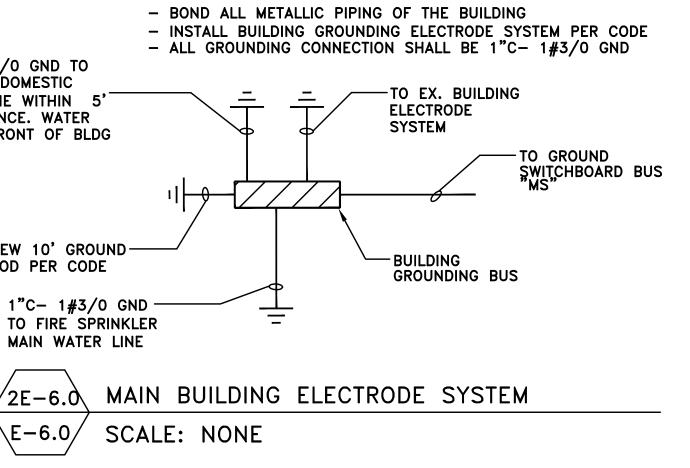
DISTANCE	CONDUIT AND WIRES	WORST %VD. (35A)
0'-120'	SER-3#8 & 1#8 GND	2.8%
121'-190'	SER-3#6 & 1#8 GND	2.8%

- THE EXACT ROUTING OF PANEL FEEDER SHALL BE DETERMINED BY CONTRACTOR IN THE FIELD.

- CONTRACTOR SHALL THEN DETERMINE THE PANEL FEEDER DISTANCE AND INSTALL ACCORDING TO ABOVE FEEDER SCHEDULE TO AVOID EXCESSIVE VOLTAGE DROP

KEY NOTES:

- 1 2"C-COPPER 4#3/0 & 1#6 GND
- 2 SEE UNIT FEEDER SCHEDULE ON THIS SHEET. (TYP)
- 3 1 1/2"C-COPPER 4#1 & 1#6 GND



E-5.0

ONE LINE DIAGRAM

SHEET TITLE:

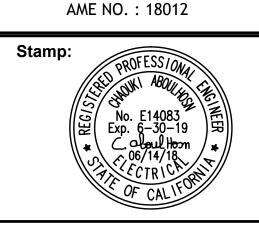
16959 STODDARD RD. VICTORVILLE, CA 92395

PROJECT LOCATION:

DESERT HAVEN **RE-DEVELOPMENT**

PROJECT NAME:

DRAWING REVISION LOG SUBMITTAL 12/12/17 PC SUBMITTAL 05/07/18



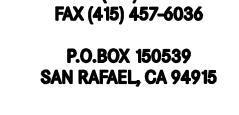
CHARLES PICK, ARCHITECT

DESIGN GROUP, INC.

MECHANICAL, ELECTRICAL & PLUMBING CONSULTING ENGINEERS

CONSULTING ENGINE. 2001 Main Street. Suite 730 Irvine, CA 93612 T: 949.553.0170 F: 949.553.0171 www.amegroup.net

Consultants:



	TO Arabit	ooturo
BAS	SIS Archite	sulting

2130 FOURTH ST

SAN RAFAEL, CA 94901

PHONE (415) 457-6035

	CERTIFICATE OF COMPLIANCE Outdoor Lighting		NRCC-LTO	
			(Page 1	. 01 +)
	Project Name: DESERT HAVEN MOTEL CONVERSION	Date Prepar	red: 05/29/2018	
	A. General Information			
	Project Address: 16959 STODDARD ROAD, VICTORVILLE, CA 92395		al Illuminated Hardscape Area 079 SF	a:
	Phase of Construction: New Construction Addition		Alteration	
	Outdoor Lighting Zone (LZ)	🖌 L	Z-3 🗌 LZ-4	
	I have confirmed with the AHJ which LZ applies to this site. For default lighting	g zone designations	s, see Title 24 Part 6, §10-114	L
	B. Lighting Compliance Documents (check box for each document included)			
	For detailed instructions on the use of this and all Energy Efficiency Standards complian published by the California Energy Commission.	ce documents, refer	to the Nonresidential Manual	
	✓ NRCC-LTO-01-E Certificate of Compliance			
	Image: NRCC-LTO-02-E Outdoor Lighting Controls Certificate of Comp Image: NRCC-LTO-03-E Outdoor Lighting Power Allowance Certificate			
	NRCC-LTO-04-E Outdoor Lighting Existing Conditions Certification	•		
	C. Summary of Allowed Outdoor Lighting Power		Watts	2
	Sum Total ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03	-E, page 1		
	01 Alterations with NO increase of connected lighting load may instea	d use the	1891	
	allowed wattage from NRCC-LTO-04, page 2. Complies ONLY if Installed (Box 02) ≤ All	owed (Box 01)		
	O2 Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01		1040	
	D. Declaration of Possification Contification			
	D. Declaration of Required Installation Certificates Declare by checking all Installation Certificates that will be submitted. (Retain copies an	nd verify compliance	documents are completed and	
	signed.)			
	 NRCI-LTO-01-E - Must be submitted for all buildings NRCI-LTO-02-E - Must be submitted for a lighting control system, or for an Energy Magence 	anagement Control	Field Inspector	
	System (EMCS), to be recognized for compliance.		Field Inspector	
	E. Declaration of Required Certificates of Acceptance			1
	Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain	copies and verify co	ompliance documents are comple	eted
	and signed)			
	and signed.) NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.		Field Inspector	
	NRCA-LTO-02-A - Must be submitted for outdoor lighting controls.		Field Inspector	
	 NRCA-LTO-02-A - Must be submitted for outdoor lighting controls. F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirer 	nents in §140.7 02	Field Inspector	
	 NRCA-LTO-02-A - Must be submitted for outdoor lighting controls. F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirer 	02	·	
	Image: NRCA-LTO-02-A - Must be submitted for outdoor lighting controls. F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirer 01 Name or Symbol Description of exempt luminaires	02	h the exemptions	
	✓ NRCA-LTO-02-A - Must be submitted for outdoor lighting controls. F. Schedule of Luminaires Exempt from the Outdoor Lighting Power Requirer 01 Name or Symbol Description of exempt luminaire CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance	02	h the exemptions	☑ </th
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

STATE OF CALIFORNIA OUTDOOR LIGHTING

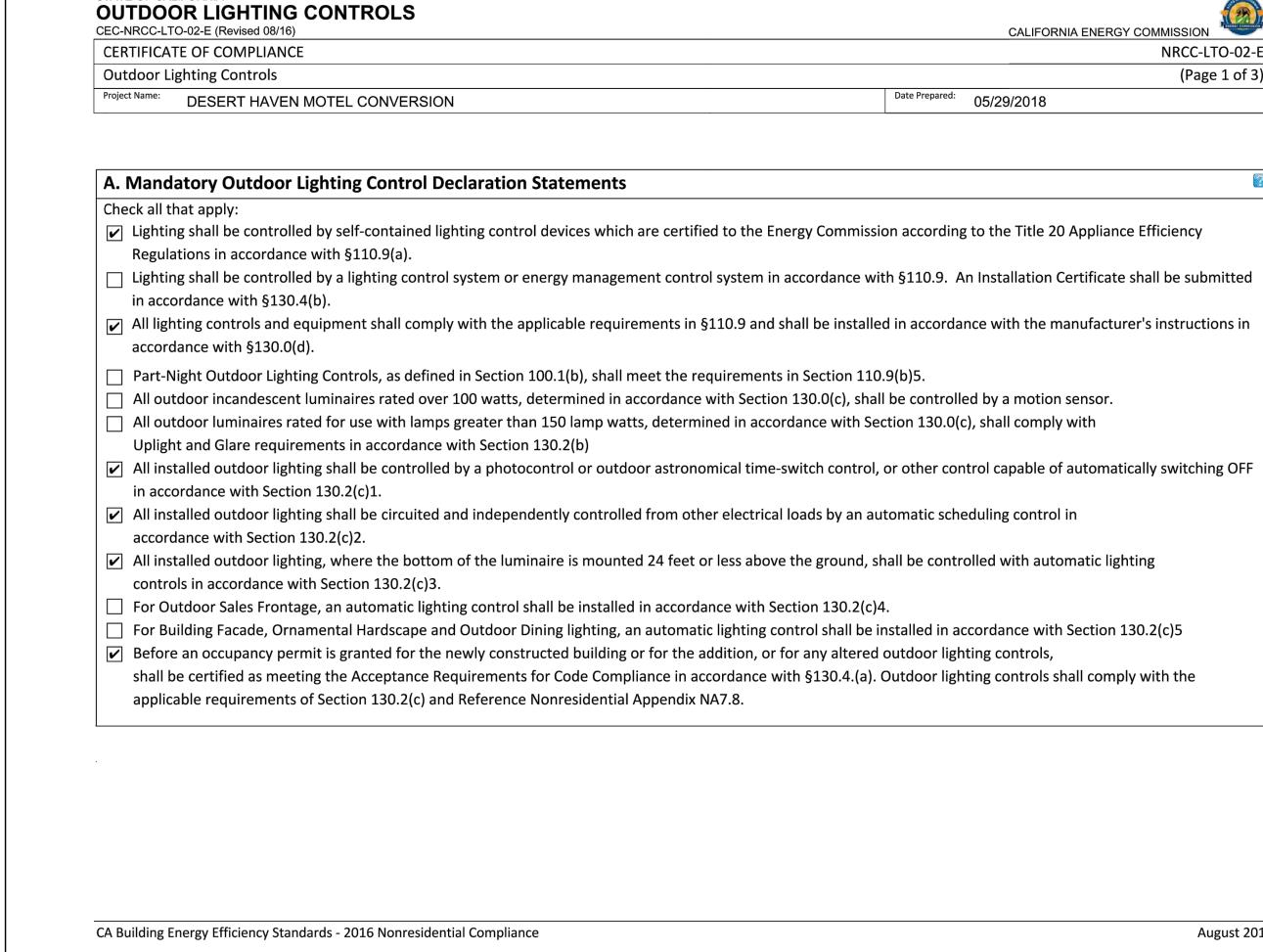
CEC-NRCC-LTO-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE

Outdoor Lighting Project Name: DESERT HAVEN MOTEL CONVERSION

	Luminaire Schedule		In	stalled Wa	itts		Location	Cutoff	Fi Insp	eld ecto
01	02	03	04 0			06	07	08	()9
Name or Item Tag	Complete Luminaire Description	Watts per Luminaire	CEC Default from NA8 from NA8		Number of Luminaires	Total Installed Watts in this area (03 × 05)	Primary Function area in which these luminaires are installed (Outdoor Lighting Zone)	BUG Rating	Pass	Eail
AE	WALL MOUNT LED	12	ľ		40	480	PARK AREA HARDSCAPE	UH: UL: FVH: BVH: FH: BH:	0	C
B/BE	BLDG EAVE MOUNTED LED	25	r		14	350		UH: UL: FVH: BVH: FH: BH:	0	C
I	POLE MOUNTED LED	35	r		6	210		UH: UL: FVH: BVH: FH: BH:	0	C
I		INST	TALLED W/	ATTS PAG	E TOTAL:	1040	Enter sum total of all pages (So INSTALLED Outdoor lighting w NRCC-LTO-01-E; Page 1	um Total	10)40

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

STATE OF CALIFORNIA



DRNIA ENERGY COMMISSION NRCC-LTO-03 (Page 4 of	
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n this Certificate of licable compliance	
ade available to the the documentation the	

April 2016

	BASIS Architecture & Consulting
	2130 FOURTH ST SAN RAFAEL, CA 94901 PHONE (415) 457-6035 FAX (415) 457-6036
	P.O.BOX 150539 SAN RAFAEL, CA 94915
	CHARLES PICK, ARCHITECT Consultants:
	AME
	DESIGN GROUP, INC. MECHANICAL, ELECTRICAL & PLUMBING CONSULTING ENGINEERS 2001 Main Street. Suite 730 Irvine, CA 92018
	T: 949.553.0170 F: 949.553.0171 www.amegroup.net
	AME NO. : 18012
	Stamp: PROFESS/044 PROFESS/044 No. E14083 Exp. 6-30-19 Coloul Hoom Coloul Hoom CONTACT RICK
	DRAWING REVISION LOG
	SUBMITTAL 12/12/17 PC SUBMITTAL 05/07/18
	PROJECT NAME:
	DESERT HAVEN RE-DEVELOPMENT
	PROJECT LOCATION:
	16959 STODDARD RD.
	VICTORVILLE, CA 92395
	כטכבד דידי ר.
	SHEET TITLE:
	TITLE 24 OUTDOOR
]	E-7.0

CALIFORNIA ENERGY COMMISSION NRCC-LTO-01-E (Page 3 of 4)

Date Prepared: 05/29/2018

April 2016

NRCC-LTO-02-E	
(Page 1 of 3)	
Date Prepared: 05/29/2018	

August 2016

STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CEC-NRCC-LTO-02-E (Revised 08/16)

CERTIFICATE OF COMPLIANCE

CERTIFICATE OF COMPLIAN Outdoor Lighting Controls		ERSION					Date I	Prepared:
	EN MOTEL CONVI							
B. Mandatory Outdoo	or Lighting Cont	trol Schedule	and Field Inspe	ection Check	list			
Outdoor Lighting Control Schedule					Standards Complying W (✓ all that apply, or leave e Exempted)			
01		0	2	03	04	05	06	07
Location and Applicatio Luminaires Being Controlled	n of photo swi	outdoor motion s control, outdoo tch control, aut	Lighting Control (i.e sensor, outdoor r astronomical tim omatic scheduling door lighting contr	# e- of Units	§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3
NEXT TO MAIN ELECTRICAL SER	VICE PHOTOCE	ELL		1		•		
INSIDE MAIN ELECTRICAL SERVI	CE PROGRAM	MMABLE MAIN CO	ONTROL	1			•	
CA Building Energy Efficiency Sta	ndards - 2016 Nonre	esidential Complia	ance					
CA Building Energy Efficiency Sta STATE OF CALIFORNIA OUTDOOR LIGHTING CEC-NRCC-LTO-03-E (Revised 01/16	G POWER AL							
STATE OF CALIFORNIA OUTDOOR LIGHTING CEC-NRCC-LTO-03-E (Revised 01/16 CERTIFICATE OF COMPLIANG Outdoor Lighting Power Allo	G POWER AL	LOWANCE					Date Pr	repared: (
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

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nspector Cceptance	City/State/Zip:	IRVINE, CA 92612 PERSON'S DECLARATION STATEMENT	Phone:	(949) 553–0170	
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