

 11x17 (FOLDED) COPIES OF ALL SHOP DRAWINGS 11x17 (FOLDED) COPIES OF CONTRACT RECORD DRAWINGS 	
ALL O&M MANUALS SHALL BE INDEXED & BOUND IN 3 RING BINDERS WITH CLEAR LABELING DIVIDERSg.	& TABBED
OWNERS STAFF AND MAINTENANCE STAFF SHALL BE THOROUGHLY INSTRUCTED IN THE USE MAINTENANCE OF THE ELECTRICAL SYSTEM EQUIPMENT, LIGHT FIXTURE, LIGHTING CONTROLS, COMMUNICATION SYSTEMS BY MANUFACTURES AUTHORIZED DISTRIBUTOR PERSONNEL OR OWN	AND

APPROVED EQUAL. THE INSTRUCTION TO THE STAFF SHALL INCLUDE HANDS ON DEMONSTRATION OF

AND INSTRUCTIONS. TRAINING SHALL INCLUDE A MINIMUM OF EIGHT (8) HOURS.

THE VARIOUS FUNCTIONS & OPERATIONS OF THE SYSTEMS AND INCLUDE REQUIRED MAINTENANCE TASKS

• COPIES OF APPROVED SUBMITTAL DATA SHOWING EQUIPMENT SPECIFICATIONS, CAPACITIES, ETC.

MFGR'S. O&M INSTRUCTIONS FOR ALL EQUIPMENT

ſ						LIGHTING FIX	TURE	SCHED	JLE		
ľ	FIX NO.	MANUFACTURER	CATALOG NO.	LAMP TYPE	LUMENS	COLOR TEMP	DIM	T24 WATTS	BRANCH CKT DESIGN WATTS	MOUNTING/ HEIGHT	REMARKS/ACCESSORIES
Ī	C1	METALUX	22FP3830C9 - FPXSURF22	LED	3654	3000K / 90CRI	0-10V	39.1	45	SURFACE CEILING	SURFACE MOUNT KIT
	C1-EM	METALUX	22FP3830C9 - EL7W - FPXSURF22	LED	3654	3000K / 90CRI	0-10V	39.1	45	SURFACE CEILING	SURFACE MOUNT KIT; 7W-90 MINUTE EMERG. BATTERY
	C2	METALUX	14FP3830C9 - FPXSURF14	LED	3648	3000K / 90CRI	0-10V	38.9	45	SURFACE CEILING	SURFACE MOUNT KIT
	C2-EM	METALUX	14FP3830C9 - EL7W - FPXSURF14	LED	3648	3000K / 90CRI	0-10V	38.9	45	SURFACE CEILING	SURFACE MOUNT KIT; 7W-90 MINUTE EMERG. BATTERY
	C3	METALUX	24FP5830C9 - FPXSURF24	LED	5282	3000K / 90CRI	0-10V	58.2	70	SURFACE CEILING	SURFACE MOUNT KIT
	C3-EM	METALUX	24FP5830C9 - EL7W - FPXSURF24	LED	5282	3000K / 90CRI	0-10V	58.2	70	SURFACE CEILING	SURFACE MOUNT KIT; 7W-90 MINUTE EMERG. BATTERY
	C4	HE WILLIAMS	SLF-2-L26/830-HIA-DRV-120	LED	2780	3000K / 80CRI	NON-DIM	21.3	25	SURFACE WALL	JANITORS CLOSET
	C5	LITHONIA	UCEL-36IN-30K-90CRI-SWR-WH	율(1344	3000K / 90CRI	TRIAC	18	25	UNDER CABINET	COMMON ROOM
\subset	C6	LITHONIA	FMVCCL-24IN-MVOLT-30K-90CRI-XX (COLOR TBD)	LED	1391	3000K / 90CRI	NON-DIM	17.7	25	VANITY LIGHT	\supset
	•))			
	R1	JUNO	JSF-11IN-30K-90CRI-120FRPC-WH	LED	1300	3000K / 90CRI	TRIAC	15	20	SURFACE CEILING	
	R2	LITHONIA	FMVCCL-24IN-MVOLT-30K-90CRI-XX (COLOR TBD)	LED	1391	3000K / 90CRI	NON-DIM	17.7	25	VANITY LIGHT	
		LITHONIA	UCEL-24IN-30K-90CRI-SWR-WH	LED	927	3000K / 90CRI	TRIAC	12	15	UNDER CAB	USE MAX LENGTH TO FIT AVAILABLE CABINET SPACE
	R3 [LITHONIA	UCEL-36IN-30K-90CRI-SWR-WH	LED	1344	3000K / 90CRI	TRIAC	18	25	UNDER CAB	USE MAX LENGTH TO FIT AVAILABLE CABINET SPACE
		LITHONIA	UCEL-48IN-30K-90CRI-SWR-WH	LED	1895	3000K / 90CRI	TRIAC	24	30	UNDER CAB	USE MAX LENGTH TO FIT AVAILABLE CABINET SPACE
	R4	JUNO	JSF-7IN-30K-90CRI-120FRPC-WH	LED	1000	3000K / 90CRI	TRIAC	13	15	SINK	
	SA1	RAB	SLIM17FA-15-ADJ-BLACK	LED	1761	4000K	0-10V	14.2	20	EXT SCONCE	COLOR: BRONZE
	SB1	GARDCO	ECF-S-32L-365-NW-G2-AR-BLC-120-BL-IMR13-BK	LED	6094	4000K	0-10V	40	50	LIGHT STANDARD	BI-LEVEL OCCUPANCY SENSING
5	SB1-POLE	GARDCO	SRA-CA-4-188-15-D1-DT5-BK	ı	-	-	-	-	-	15FT AFG	13FT POLE + 2FT PEDESTAL BASE; 15FT AFG
	SB2	GARDCO	ECF-S-32L-365-NW-G2-AR-5-120-BL-IMR13-BK	LED2	k 6094	4000K	0-10V	80	95	LIGHT STANDARD	BI-LEVEL OCCUPANCY SENSING; DOUBLE HEAD ASSEMBLY @ 180
<u> </u>	B2-POLE	GARDCO	SRA-CA-4-188-15-D2-DT5-BK	, (- (-	- (-	15FT AFG	13FT POLE + 2FT PEDESTAL BASE; 15FT AFG
$\supseteq \Box$	SC1,	GARDCO	BRM832-36-108L-58-NW-G2-120-IMRI-BK	LED	1226	4000K	0-100	38.6	45	BOLLARD	BI-LEVEL OCCUPANCY SENSING
	SD1	COOPER-HALO	PR6-FS12-D010 - PR6M-12-WD-8FS-MW	LED	2000	4000K	0-10V	21.3	25	RECESSED DOWN LIGHT	
	SD1-EM	COOPER-HALO	PR6-FS12-D010-REM7 - PR6M-12-WD-8FS-MW	LED	2000	4000K	0-10V	21.3	25	RECESSED DOWN LIGHT	7W-90 MINUTE EMERG. BATTERY
	SE1	LAMPS PLUS	JOHN TIMBERLAND #8M841 (BLACK)	LED	750	3000K	N/A	10	15	SURFACE WALL	
	X1	LITHONIA	LQC-W-1-G-ELN	LED	-	GREEN	NON-DIM	-	5	SURFACE WALL & CEILING	EXIT SIGNAGE
	ED1	BRK	7030BSL	ı	-	-	-	-	-	SURFACE CEILING	SMOKE AND CO DET.
			AFG - ABOVE FINISH GRADE/AFS - ABOVE FINISH	H SLAB/A	SC - ABO	VE SUSPENDED CEILING/	AFF – ABO	OVE FINISH FLOO	OR/ARF - ABOVE	RAISED FLOOR	

				_	_
			ELECTRICAL DRAWING INDEX] [_
	PG	SHEET	TITLE		
	1	E0.00	ELECTRICAL INFORMATION SHEET		-
	2	E0.10	T24 LIGHTING INTERIOR	$ \uparrow\uparrow\rangle$	_
	3	E0.20	T24 LIGHTING EXTERIOR	$ \ \ \ $	۸,
	4	E0.30	T24 ELECTRICAL POWER DISTRIBUTION	▎▕	_
	5	E1.00	ELECTRICAL SITE PLAN]	_
	6	E1.01	UTILITY & MAIN SERVICE DETAILS	!	_
<u></u>	7	E1.10	SITE LIGHTING PLAN] [_
7	8	E1.11	DETAILS]	_
	9	E2.10	FIRST FLOOR LIGHTING PLAN		~
	10	E2.20	SECOND FLOOR LIGHTING PLAN	$ \mathcal{T} $	_
	11	E2.30	THIRD FLOOR LIGHTING PLAN	}	=
	12	E3.10	FIRST FLOOR POWER PLAN		_
	13	E3.20	SECOND FLOOR POWER PLAN		_
	14	E3.30	THIRD FLOOR POWER PLAN	[
	15	E3.40	ROOF POWER PLAN		_
	16	E4.10	LIGHTING & POWER PLANS — UNITS 101, 102, 103	 	_
	17	E4.20	<u>LIGHTING & POWER PLANS — UNITS 201, 202, 203, 204, 205, 207, 208</u>	<u> </u>	_
	18	E4.21	LIGHTING & POWER PLANS — UNITS 206, 209	! (_
	19	E4.30	<u>LIGHTING & POWER PLANS — UNITS 301, 302, 303, 304, 305, 306, 307, 308</u>	!	_
1	20	E5.00	ONE-LINE DIAGRAM	\	_
	21	E6.00	ŠITĚ ŠEČUŘITÝ ČAMEŘA PLÁNÝ	[
(22	E6.10	FIRST FLOOR SECURITY CAMERA PLAN		
\	23	E6.20	SECOND FLOOR SECURITY CAMERA PLAN		
	24	E6.30	THIRD FLOOR SECURITY CAMERA PLAN		
	25	E7.00	ELECTRICAL SPECIFICATIONS		
	26	EL1.10	SITE LIGHTING PHOTOMETRICS — NORMAL		
	27	EL2.10	FIRST FLOOR PHOTOMETRICS - NORMAL		
	28	EL2.10E	FIRST FLOOR PHOTOMETRICS — EMERG		
	29	EL2.20	SECOND FLOOR PHOTOMETRICS — NORMAL		
	30	EL2.20E	SECOND FLOOR PHOTOMETRICS — EMERG	l L	_
	31	EL2.30	THIRD FLOOR PHOTOMETRICS — NORMAL		
	32	EL2.30E	THIRD FLOOR PHOTOMETRICS — EMERG	J	

ſ								MECHANICAL	EQUIP	MENT
İ	\ominus	VOLT	PHASE	HP	FLA	VA	EQUIP. FDR C.B.	EQUIP. DISC. SIZE	EQUIP. DISC. FUSE SIZE	REMARKS
Ī	EF-1	120	1	1	0.54	65	(8)	(8)	N/A	EXHAUST FAN - LAUNDRY ROOM
Λ	EF-2	120	1	(0.56	67.1	(8)	(8)	N/A	EXHAUST FAN - TRASH ROOM
$\left(\begin{array}{c} 1 \\ \end{array} \right)$	EF-3	120	1 1	1	0.21	25.0	(8)	(8)	N/A	EXHAUST FAN - LAUNDRY ROOM)
\	EF-4	120	1	-	0.21	25.0	(8)	(8)	N/A	EXHAUST FAN - TOILET ROOM 112
٦))				
	FC-1	120	1	-	16.7	2004	30A-1P	(8)	N/A	ELECTRIC FAN CONVECTOR
	ERV-1	120	1	-	0.75	90	(8)	(4)	N/A	ENERGY RECOVERY UNIT
	ERV-2	120	1	_	0.75	90	(8)	(4)	N/A	ENERGY RECOVERY UNIT
Λ	HP-1	208	1		16.5	3432	30A-2P	30AF-2P	20A	OFFICE & COMMON ROOM SPLIT SYSTEM
\Box	ĂH-1	208	1 T		0.48	100	N/A *	(8)	N/A	COMMON ROOM FAN COIL; FED FROM OUTDOOR UNIT
\forall							مـمـم		_^_^_	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	HPHW-1	208	3	-	101.5	36567	150A-3P	200AF-3P	125A	ROOF TOP WATER HEATER
	EWH-1	208	3	_	67.0	24138		100AF-3P	90A	ELECTRIC WATER HEATER
	EWH-2	208	3	_	67.0	24138	100A-3P	100AF-3P	90A	ELECTRIC WATER HEATER
	DHW-1A	115	1	_	4.4	506	(8)	NEMA 5-20R	N/A	HOT WATER CIRCULATION PUMP — FIRST FLOOR
	DHW-1B	115	1	_	4.4	506	(8)	NEMA 5-20R	N/A	HOT WATER CIRCULATION PUMP — SECOND & THIRD FLOORS
	\sim		\sim	\\		$\langle \rangle$	$\sim\sim$	······	\\\\	
<i>\</i>	FSD-1	120	1	-	< 1.0	< 120	(8)	(8)	N/A	FIRE SMOKE DAMPER — COORDINATE AUX CONTACTS WITH FIRE ALARM
})
1	PS-1	120	1	-	< 2.0	< 240	(8)	NEMA 5-20R	N/A	SOLAR PUMPING STATION; MFG: VIESSMANN; MODEL: DN25
\forall			^	\sim	\sim	\mathcal{E}	<u> </u>			
ļ										
	(1) CON	TRACTO	R TO FII	ELD VEF	RIFY ALI	_ EQUIP	MENT ELECTR	ICAL CHARACTERISTICS.		
	(2) TOG	GLE TYF	е мото	R RATE	D DISC	ONNECT	SWITCH, PRO	VIDED WITH EQUIPMENT OVER	RLOADS.	
	(3) COM						•			
	. ,									

(4) PROVIDE EQUIP. SERVICE DISC. SWITCH IF UNIT DOES NOT HAVE INTEGRAL DISCONNECTING MEANS.

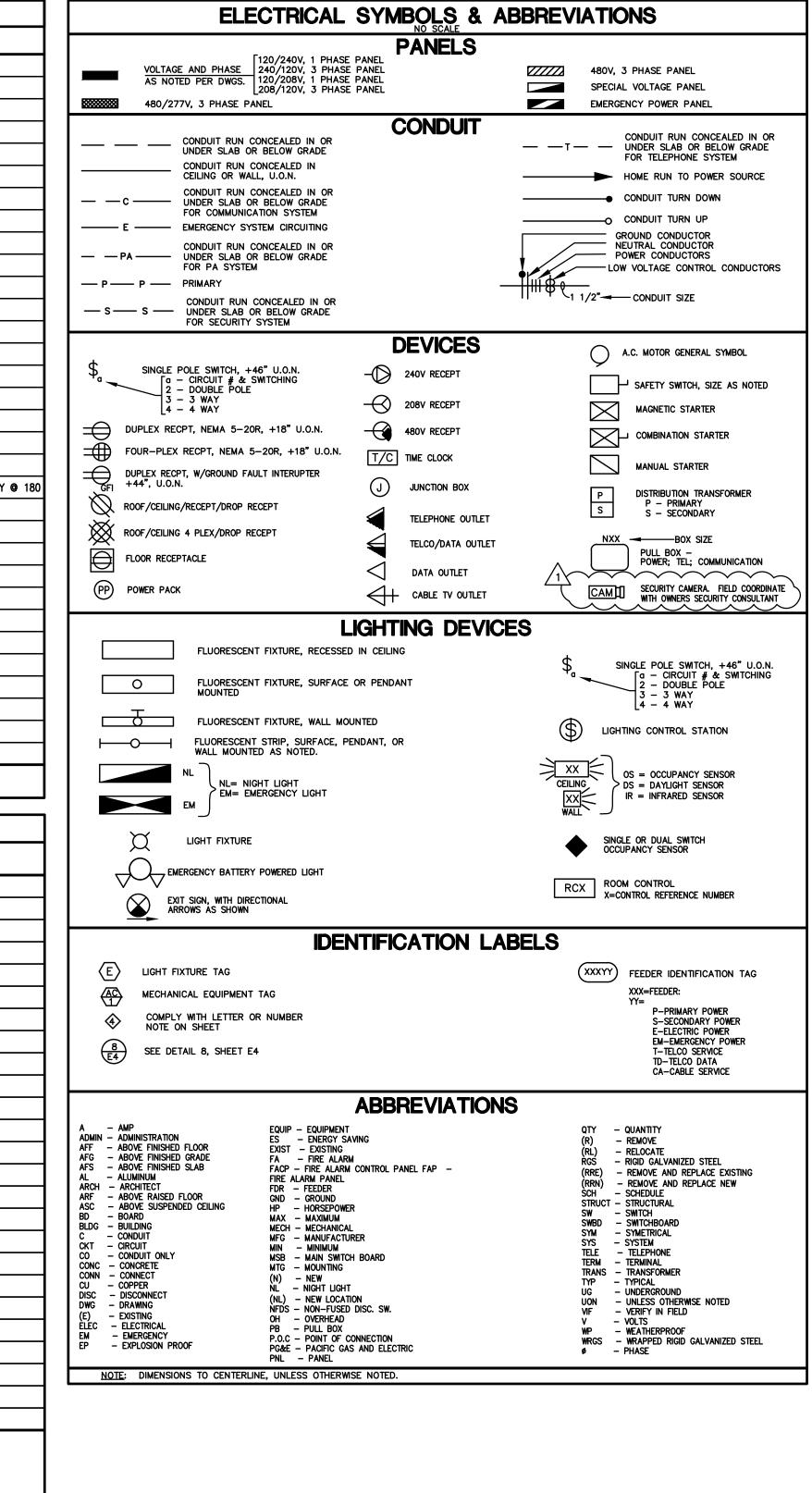
(5) PROVIDE RECEPTACLE TO MATCH UNIT CORD.

(6) PROVIDE MOTOR THERMAL OVERLOAD PROTECTION IF MOTOR DOES NOT HAVE MOTOR THERMAL OVERLOAD PROTECTION.

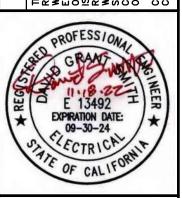
(7) SIZE PER EQUIPMENT FULL LOAD NAMEPLATE CURRENT.

(8) SEE ELECTRICAL PLAN.

N/A - NOT APPLICABLE.



THE USE OF THE PLANS AND SPECIFICATIONS IS RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED, AND PUBLICATION THEREOF IS EXPRSSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION PUBLICATION BY ANY METHOD IN WHOLE OR IN PAR IS PROHIBITED. THE PLANS AND SPECIFICATION REMANS WITH CENTRAL PAGIFIC ENGINEERING, INC., WHETHER THE PROJECT FOR WHICH THE PLANS AND SPECIFICATIONS IS EXECUTED OR NOT. AND VISUAL CONTACT WITH THEM CONSTITUTES PRIMA FACIE ENDER OF THE ACCEPTANCE OF THESE RESTRICTION.



	1	<u> </u>	CAL			
	Central Pacific Fnaineering Inc.		ON35 Social Avanua Suita 205	South Criz CA 95062	831–476–1525	CPE JOB 21-044-0
DATE	08/27/22	10/14/22				
NO		OMMENTS				

JOB NO.

21-044-0

DWG. NO. **EO.OO**SH 1 REV.

OF 32

STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION	NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Indoor Lighting NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE This document is used to demonstrate compliance with requirements in §110.9, §110.12(c), §130.0, §130.1, §140.6, and §141.0(b)2 for indoor lighting scopes using the prescriptive path.	-E CERTIFICATE OF COMPLIANCE NRCC-LTI-E Project Name: AFFORDABLE HOUSING PROJECT Report Page: Page 4 of 8 Project Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-30-2022	CERTIFICATE OF COMPLIANCE Project Name: AFFORDABLE HOUSING PROJECT Project Address: 415 NATURAL BRIDGES DRIVE Report Page: Page 7 of 8 Date Prepared: 10-30-2022
Project Name: AFFORDABLE HOUSING PROJECT Report Page: Page 1 Project Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-30-2	MECHANICAL ROOM Electrical, Mechanical, Telephone Manual ON/ Evernt* Evernt* NA NA NA NA NA NA NA N	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for
A. GENERAL INFORMATION 01 Project Location (city) SANTA CRUZ 04 Total Conditioned Floor Area (ft²) 3,417.7	LAUNDRY ROOM Laundry OFF Dimmer Vacancy NA NA	U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
02 Climate Zone 3 05 Total Unconditioned Floor Area (ft²) 390.1 03 Occupancy Types Within Project (select all that apply): 06 # of Stories (Habitable Above Grade) 3	STORAGE ROOM Commercial and Industrial Storage OFF Dimmer Occ. Sensor NA NA II	Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an
Office Retail Warehouse Hotel/Motel School Support Areas Parking Garage ✓ High-Rise Residential Relocatable Healthcare Other (write in):	TRASH ROOM All Other Space Types Manual ON/ OFF Dimmer Occ. Sensor NA NA	Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html Field Inspector
B. PROJECT SCOPE	STAIRWELLS Stairwell Manual ON/ OFF Dimmer Occ. Sensor NA NA	YES NO Form/Title Pass Fail NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.
Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(b)2 for alterations. WARNING: Changing the Calculation Method in this table will result in the deletion of data previously input. If you need to change the calculation method, please open a new form or use "Save As".	CORRIDORS Corridor Manual ON/ Dimmer Occ. Sensor NA NA	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.
Scope of Work Conditioned Spaces Unconditioned Spaces 01 02 03 04 05	RESTROOM Restroom OFF Exempt* Occ. Sensor NA NA	○ NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. □ ○ ● NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF). □
My Project Consists of (check all that apply): Calculation Method Area (ft²) Calculation Method Area (ft²) ✓ New Lighting System Area Category 390.1 Area Category 3,417.7	*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved. EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2	○ NRCA-ENV-03-F - Must be submitted for daylighting design power adjustment factors (PAF).
Altered Lighting System Total Area of Work (ft²) 390.1 3,417.7	ELECTRICAL ROOM electrical room MECHANICAL ROOM mechanical room RESTROOM restroom, <100SQFT	
C. COMPLIANCE RESULTS	RESTROOM restroom, <1005QFT	
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance. Allowed Lighting Power per §140.6(b) (Watts) Adjusted Lighting Power per §140.6(a) (Watts) Compliance Results	I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power	
Lighting in conditioned and unconditioned 01 02 03 04 05 06 07 08 09 Area Category Area Category The conditioned of the conditio	allowances per §140.6(c) or adjustments per §140.6(a) are being used. Conditioned Spaces	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	01 02 03 04 05 06 Complete Building or Area Category Describe Area Methods Additional Allowances /	
\$140.6(b)1. (-) Adjustments	Area Description Primary Function Area (W/ft²) COMMON ROOM Convention, Conference, Multipurpose, and Meeting Center O.85 390.1 331.58 Area Category PAF	
(See Table I) (See Table I) (See Table I) (See Table I) (See Table II) (See Table IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	COMMON ROOM Convention, Conference, Multipurpose, and Meeting Center 0.85 390.1 331.58	
Table Continued 1	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021
STATE OF CALIFORNIA Indoor Lighting	M COMPANIES OF THE PROPERTY OF	STATE OF CALIFORNIA Indoor Lighting
NRCC-LTI-E (Created 04/21) CERTIFICATE OF COMPLIANCE Project Name: AFFORDABLE HOUSING PROJECT Report Page: Page 2		NRCC-LTI-E (Created 04/21) CERTIFICATE OF COMPLIANCE Project Name: AFFORDABLE HOUSING PROJECT Report Page: Page 8 of 8
Project Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-30-2	,	Project Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-30-2022
Controls Compliance (See Table H for Details) COMPLIES with Exceptional Condition Rated Power Reduction Compliance (See Table Q for Details) Not Applicable	Complete Building or Area Category Allowed Area Allowed Additional Allowances /	I certify that this Certificate of Compliance documentation is accurate and complete
D. EXCEPTIONAL CONDITIONS	Area Description Primary Function Area (W/ft²) Density (W/ft²) Wattage (Watts) Area Category PAF	Documentation Author Name: DAVID SMITH, PE Documentation Author Signature: Company: CENTRAL PACIFIC ENGINEERING, INC Signature Date: 10-30-2022
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form. Table H Indoor Lighting Controls Permit Applicant Notes:	Unconditioned Spaces 01 02 03 04 05 06	Address: 9035 SOQUEL AVE, SUITE 205 CEA/ HERS Certification Identification (if applicable):
ELECTRICAL ROOM: electrical room MECHANICAL ROOM: mechanical room	Area Description Complete Building or Area Category Primary Function Area Allowed Density (M/62) (ft²) (M/64tc) Allowed Wattage Additional Allowances / Wattage Adjustment	City/State/Zip: SANTA CRUZ, CA 95062 Phone: 831-476-1525 RESPONSIBLE PERSON'S DECLARATION STATEMENT
RESTROOM: restroom, <100SQFT	ELECTRICAL ROOM Electrical, Mechanical, Telephone Rooms 0.4 90.4 36.16	I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.
E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	MECHANICAL ROOM Electrical, Mechanical, Telephone Rooms 0.4 112 44.8	 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this
	STORAGE ROOM Commercial and Industrial Storage 0.6 735 441	Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable
F. INDOOR LIGHTING FIXTURE SCHEDULE	CORRIDORS Corridor 0.6 1,243.8 746.28	compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the
Table Instructions: Include all permanent designed lighting and all portable lighting in offices. Designed Wattage: Conditioned Spaces	RESTROOM Restroom 0.65 64.5 41.92	documentation the builder provides to the building owner at occupancy. Responsible Designer Name: DAVID SMITH, PE Responsible Designer Signature:
01 02 03 04 05 06 07 08 09 10 Name or Complete Luminaire Description (Track) Firsture 8 Color Changel Luminaire 2 determined Luminaire 5 140 (1) 2 Design Watts		Company: CENTRAL PACIFIC ENGINEERING, INC Date Signed: 10-30-2022
Item Tag	This Section Does Not Apply	Address: 9035 SOQUEL AVE, SUITE 205 License: CA-E13492 City/State/Zip: SANTA CRUZ, CA 95062 Phone: 831-476-1525
C5 3FT LED UNDERCOUNTER LIGHT 18 Mfr. Spec ² 2 36 Total Designed Watts CONDITIONED SPACES: 269.4	K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This Section Does Not Apply	
Designed Wattage: Unconditioned Spaces	L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY	
01 02 03 04 05 06 07 08 09 10 Name or Country Logic Design Country Would Small Aperture Watts per How Wattage is Total number Exempt per Paris Watts Field Inspect	This Section Does Not Apply	
Item Tag Complete Luminaire Description (Track) Fixture & Color Change ¹ luminaire ² determined luminaires \$140.6(a)3 Design Watts Fast Fas	M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This Section Does Not Apply	
C2 1X4 LED FLAT PANEL SURFACE		
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards April 2021
STATE OF CALIFORNIA	STATE OF CALIFORNIA	
Indoor Lighting NRCC-LTI-E (Created 04/21) CERTIFICATE OF COMPLIANCE CREATIFICATE OF COMPLIANCE NRCC-LTI-E (Created 04/21) CREATIFICATE OF COMPLIANCE	NRCC-LTI-E (Created 04/21) CALIFORNIA ENERGY COMMISSION	
Project Name: AFFORDABLE HOUSING PROJECT Report Page: Page 3 Project Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-30-2	Project Name: AFFORDABLE HOUSING PROJECT Report Page: Page 6 of 8	
01 02 03 04 05 06 07 08 09 10	N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS	
Name or Item Tag Complete Luminaire Description Item Tag Complete Luminaire Descriptio		
C3 2X4 LED FLAT PANEL SURFACE	O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This Section Does Not Apply	
C4 JANITOR CLOSET LIGHT 21.3 Mfr. Spec ² 1 21.3 21.3 C6 LED VANITY LIGHT 17.7 Mfr. Spec ² 1 17.7 C7 Total Designed Watts UNCONDITIONED SPACES: 1,754.2	P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This Section Does Not Apply	
¹ FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)4B is adjusted to be 75% of their rated wattage. Table F automaticall		
makes this adjustment, the permit applicant should enter full rated wattage in column 05. ² Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) Wattage used must be the maximum rated for the	This Section Does Not Apply	
luminaire, not the lamp.	R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS This Section Does Not Apply	
G. MODULAR LIGHTING SYSTEMS This Section Does Not Apply	S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)	
H. INDOOR LIGHTING CONTROLS (Not Including PAFs) Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table.	This Section Does Not Apply The CLARATION OF REQUIRED CERTIFICATES OF INSTALLATION	
Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. Building Level Controls	T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/	
01 02 03	title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	
	YES NO Form/Title Field Inspector Pass Fail	
Not Required ≤ 10,000 SF See Area/Space Level Controls	NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be	
Complete Building or Area Category Area Controls Multi-Level Shut-Off Primary/Skylit Secondary Interlocked Field Inspect	recognized for compliance.	
Flectrical Mechanical Telephone Manual ON/ S130.1(b) S130.1(c) S130.1(d) S140.6(d) S140.6(d) Pass Fa		
ELECTRICAL ROOM Rooms OFF Exempt* NA NA NA	partor and the submitted for a rower Adjustment ractor (FAL) to be recognized for compilative.	

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

April 2021

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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TITLE 24 - LIGHTING INTERIOR

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E 13492 EXPIRATION DATE:
09-30-24

OF CALLFORNITE
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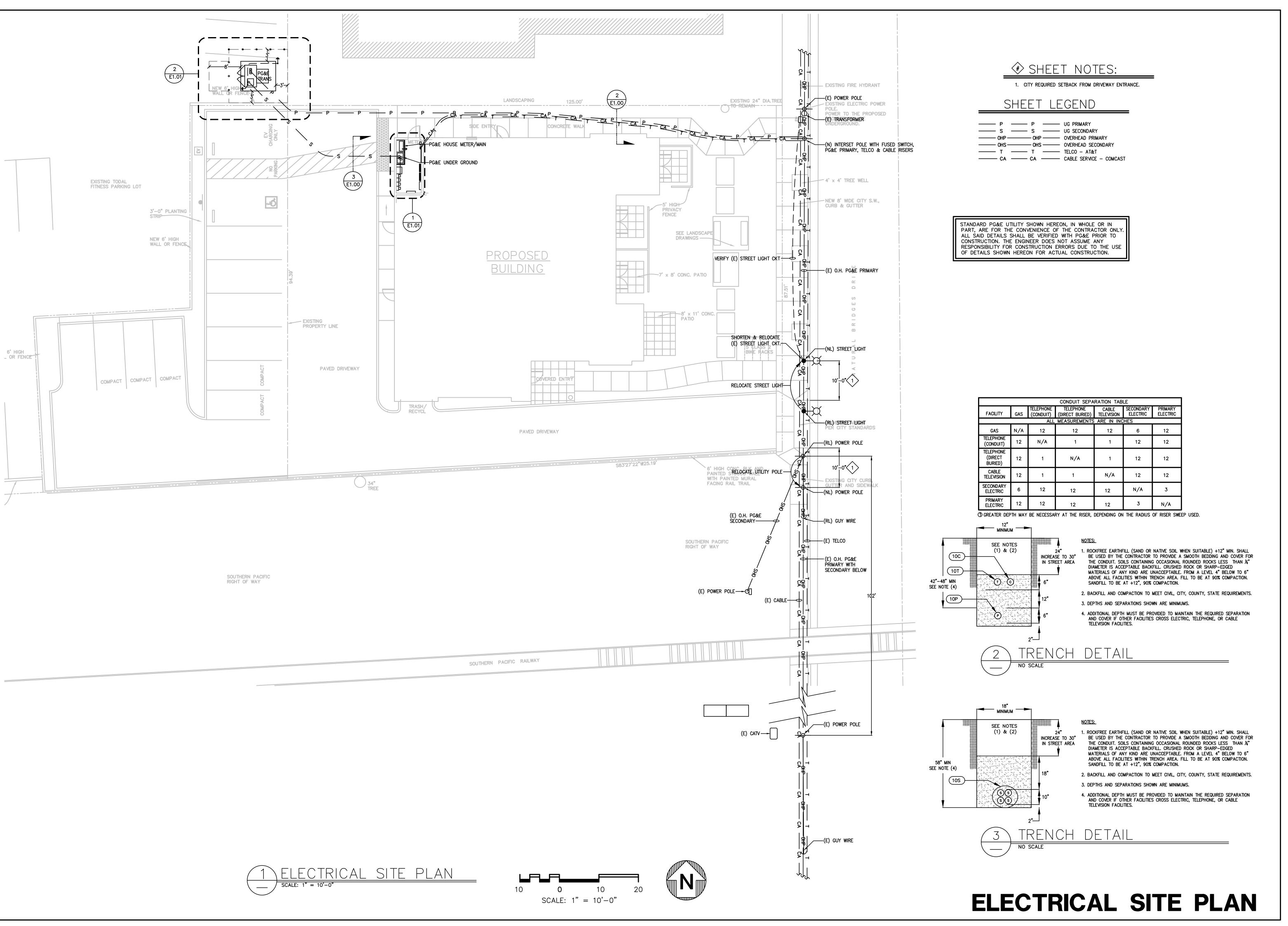
ATE OF CALIFORNIA utdoor Lighting CC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting NRCC-LTO-E (Created 01/21) CALIFORNIA ENERGY COMMISSI19
RTIFICATE OF COMPLIANCE NRCC-LTO-E is document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)2L for outdoor lighting scopes using the prescriptive path.	CERTIFICATE OF COMPLIANCE Project Name: AFFORDABLE HOUSING PROJECT Report Page: Page
oject Name: AFFORDABLE HOUSING PROJECT Report Page: Page 1 of 6 oject Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-30-2022	Project Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-30
Project Location (city) SANTA CRUZ O4 Total Illuminated Hardscape Area (ft²) 8,090.6 Climate Zone 3 Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ): LZ-0: Very Low - Undeveloped Parkland LZ-2: Moderate - Rural Areas LZ-4: High - Must be reviewed by CA Energy Commission for Approval LZ-1: Low - Developed Parkland LZ-3: Moderately High - Urban Areas LZ-4: High - Must be reviewed by CA Energy Commission for Approval	Table Continued Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lost it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance. Table I (below) Table J Table K Table L Table M Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)
PROJECT SCOPE	02 03 04 05 06 07 08 09 10 Area Wattage Allowance (AWA) Linear Wattage Allowance (LWA) Total Gen
y project consists of: 01 02	Area Description Surface Type Illuminated Allowed Density Area Allowance Perimeter Allowed Density Linear Allowance AwA + L' Area (ft²) (W/ft²) (Watts) Length (If) (W/If) (Watts) (Watts)
New Lighting System Must Comply with Allowances from §140.7. Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No	FRONT WALKWAY Concrete 977.6 0.025 24.44 463 0.4 185.2 209.64 PARKING LOT Asphalt 7,113 0.023 163.599 602 0.17 102.34 265.93
03 04 05 % of Existing Luminaires Being Altered¹ Sum Total of Luminaires Being Added or Altered Calculation Method	Initial Wattage Allowance for Entire Site (Watts): 250
COOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100	Total General Hardscape Allowance (Watts): 725.57
COMPLIANCE RESULTS able Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.	J. LIGHTING ALLOWANCE: PER APPLICATION This Section Does Not Apply
Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L Compliance Results 01 02 03 04 05 06 07 08 09	K. LIGHTING ALLOWANCE: SALES FRONTAGE
General ardscape ardscape H Application + Frontage H Sales H	This Section Does Not Apply L. LIGHTING ALLOWANCE: ORNAMENTAL
Stato.7(d)2	This Section Does Not Apply
/25.579 + + + + OR = 725.579 ≥ 579.2 COMPLIES Cutoff Compliance (See Table G for Details) Not Applicable	M. LIGHTING ALLOWANCE: PER SPECIFIC AREA This Section Does Not Apply
Controls Compliance (See Table H for Details) COMPLIES	N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
	This Section Does Not Apply
Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January 2021	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January
TE OF CALIFORNIA LITTO LIGHTING CALIFORNIA FAIFRCY COMMISSION	STATE OF CALIFORNIA Outdoor Lighting NESS ITS 5 (Count of S) (2)
C-LTO-E (Created 01/21) CTIFICATE OF COMPLIANCE Report Page: Report Page: CALIFORNIA ENERGY COMMISSI19 NRCC-LTO-E Report Page: Page 2 of 6	NRCC-LTO-E (Created 01/21) CERTIFICATE OF COMPLIANCE Project Name: AFFORDABLE HOUSING PROJECT Report Page: CALIFORNIA ENERGY COMMISSI19
ect Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-30-2022	Project Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-3
EXCEPTIONAL CONDITIONS stable is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.	O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why
exceptional conditions apply to this project.	Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/
DDITIONAL REMARKS	YES NO Form/Title Field Inspector Pass F.
table includes remarks made by the permit applicant to the Authority Having Jurisdiction.	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 Management Control System (EMCS), to be
DUTDOOR LIGHTING FIXTURE SCHEDULE	recognized for compliance.
Complete Luminaire Description Watts per How Wattage is determined How Wattage is determined Luminaire Status Excluded per S140.7(a) Design Watts S130.2(b) ⁴ Pass Fail	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.
OTES: Selections with a * require a note in the space below explaining how compliance is achieved. Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).	
Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January 2021	CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards January
e of California etdoor Lighting	STATE OF CALIFORNIA Outdoor Lighting NESS LTD 5 (Second 0.0 (20))
-LTO-E (Created 01/21) TIFICATE OF COMPLIANCE Cat Name: AFFORDABLE HOUSING PROJECT Report Page: Page 3 of 6	NRCC-LTO-E (Created 01/21) CERTIFICATE OF COMPLIANCE Project Name: AFFORDABLE HOUSING PROJECT Report Page: CALIFORNIA ENERGY COMMISSION NRCC Report Page: Page
ect Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-30-2022	Project Address: 415 NATURAL BRIDGES DRIVE Date Prepared: 10-3
OTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per <u>§130.0(c)</u> r linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of inaires.	DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete
riaires. Sect "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select sting to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are	Documentation Author Name: DAVID SMITH, PE Documentation Author Signature: Total Smith Support Signature David Smith Smith Signature David Smith Signature David Smith Signature David Smith Smith Signature David Smith Smith Signature David Smith S
g removed and reinstalled as part of the project scope mpliance with mandatory cutoff requirements is required for luminaires with initial lumen output \geq 6,200 unless exempted by §130.2(b).	Company: CENTRAL PACIFIC ENGINEERING, INC Signature Date: 10-30-22 Address: 9035 SOQUEL AVE, SUITE 205 CEA/ HERS Certification Identification (if applicable):
CUTOFF REQUIREMENTS (BUG) Section Does Not Apply	City/State/Zip: SANTA CRUZ, CA 95062 Phone: 831-476-1525 RESPONSIBLE PERSON'S DECLARATION STATEMENT
OUTDOOR LIGHTING CONTROLS	I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.
le Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For ration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table in the spaces covered by the permit application.	 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this
en an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will w "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the odown list to indicate not applicable or an exemption.	Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available with the building permit(s) issued for the building, and made available with the building permit(s) issued for the building, and made available with the building permit(s) issued for the building, and made available with the building permit(s) issued for the building permit application.
01 02 03 04 05	5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made ava to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with documentation the builder provides to the building owner at occupancy.
Area Description Shut-Off Signature Shut-Off Signa	Responsible Designer Name: DAVID SMITH, PE Responsible Designer Signature: Tank Smith Smit
FRONT WALKWAY Photocontrol Yes Yes PARKING LOT Photocontrol Yes Yes The state of the state o	Address: 9035 SOQUEL AVE, SUITE 205 License: CA-E13492
DTES: Controls with a * require a note in the space below explaining how compliance is achieved. Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).	City/State/Zip: SANTA CRUZ, CA 95062 Phone: 831-476-1525
IGHTING POWER ALLOWANCE (per §140.7) le Continued	

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Γ	Central Pacific Fnaineering, Inc.	OF	Professional Engineers	South Criz CA 95062		CPF .IOB 21-044-0
DATE	08/27/22	10/14/22	/ /			
. DESCRIPTION	ISSUED FOR PLAN CHECK	PLAN CHECK & OWNER COMMENTS				
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				TA CRUZ	SCALE	AS NOTED
ICING DECIECT				ITY OF THE COUNTY OF SANTA CRUZ	APPD.	SSC
			ES DRIVE	NRITY OF THE C	CHK.	550
			OCATION: 415 NATURAL BRIDGES DRIVE SANTA CRUZ, CALIFORNIA	THE HOUSING AUTHORI	DATE	04/20//22
A FECTOR			LOCATION: 415 SANT	OWNER: THE	DR.	SAK
JOB	ио 21		-04	-4-	— C)
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SH OF	32			1		

TITLE 24 - LIGHTING EXTERIOR

Electrical Power Distribution		CALIFORNIA ENERGY		RCC-ELC-E (Created 11/19)			CALIFORNIA ENERGY COMMISSION
ERTIFICATE OF COMPLIANCE his document is used to demonstrate compliance with mandatory require otel/motel occupancies. Additions and alterations to electrical service sy				Project Name: AFFOF Project Address: 415 N	RDABLE HOUSING PROJECT	Report Page: Date Prepared:	NRCC- Page 4 08-15-
141.0(b)2P for alterations. roject Name: AFFORDABLE HOUSING PROJECT	Report Page:		Page 1 of 5	K. DECLARATION OF	REQUIRED CERTIFICATES OF ACCEPTANCE		00.13
oject Address: 415 NATURAL BRIDGES DRIVE GENERAL INFORMATION	Date Prepared:		08-15-2022	There are no Certificate	s of Acceptance applicable to electrical power distribu	tion requirements.	
D1 Project Location (city) SANTA CRUZ Project Location (city) Retail Warehous		School Suppo	ort Areas				
Parking Garage	le Healthcare Facilities	Other (Write In):	?				
able Instructions: Include any electrical service systems that are within the		06					
		Demand Response (Where required, demand respo	onse controls must				
Electrical Service Designation/ Scope of Work ¹	Rating Metering Elec	be specified which are capable automatically responding to at standards based messaging pro	least one				
Description	Exception to Excep	enables demand response after 5(a)&(b) demand response signal. Section	r receiving a ons <u>§120.2</u> , <u>§130.1</u>				
MAIN PANEL New electrical service equipment &	34	and §130.3 and compliance doc MCH, NRCC-LTI and NRCC-LTS v demand response controls are i	vill indicate when				
meter							
FOOTNOTES: Adding only new feeders and branch circuits triggers Voltages Applicable if the utility company is providing a metering system that indi							
. COMPLIANCE RESULTS able Instructions: If this table says "DOES NOT COMPLY" refer to Table D.	for guidance and review the Table that indi	cates "No".	?				
01 02 03 Service Electrical Separation for Voltage	Controlled	05					
§130.5(a) Monitoring AND §130.5(b)	(c) AND Receptacles §130.5(d)	Compliance Results					
(See Table F) (See Table G) (See Table G) AND Yes AND Yes		COMPLIES with Exceptional Con	nditions				
- A Duilding France (Ffficience Charded and 2000 Newscalabetis Consultance has a	(Newsyles 2010	CA Puilling Facus (FSS size	Standard 2010 Name idential Counting to the World		Managhar
A Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://	www.energy.ca.gov/title24/2019standards		November 2019		ncy Standards - 2019 Nonresidential Compliance: http://ww	rw.energy.ca.gov/title24/2019standards	November
TATE OF CALIFORNIA Electrical Power Distribution RCC-ELC-E (Created 11/19)		CALIFORNIA ENERGY		STATE OF CALIFORNIA Electrical Power NRCC-ELC-E (Created 11/19)			CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Project Name: AFFORDABLE HOUSING PROJECT Project Address: 415 NATURAL BRIDGES DRIVE	Report Page: Date Prepared:		NRCC-ELC-E Page 2 of 5 08-15-2022		IANCE RDABLE HOUSING PROJECT ATURAL BRIDGES DRIVE	Report Page: Date Prepared:	NRCC- Page ! 08-15-
D. EXCEPTIONAL CONDITIONS			2		UTHOR'S DECLARATION STATEMENT		
This table is auto-filled with uneditable comments because of selections makes able B indicates the project is exempt from §130.5(a) Service Electrical N	-		ring system that	I certify that this Certifi Documentation Author	cate of Compliance documentation is accurate and co Name: DAVID SMITH, PE	mplete. Documentation Author Signature	David Smoth
dicates instantaneous kW demand and kWh for a utility-definied period				Company: Address:	CENTRAL PACIFIC ENGINEERING, INC 9035 SOQUEL AVE, SUITE 205	Signature Date: CEA/ HERS Certification Identification	08-15-2022
. ADDITIONAL REMARKS	Having lurisdiction		2	City/State/Zip:	SANTA CRUZ, CA 95062	Phone:	831-476-1525
This table includes remarks made by the permit applicant to the Authority	Traving Jansaiction.						
This table includes remarks made by the permit applicant to the Authority	Having Jurisaiction.			RESPONSIBLE PERSON' I certify the following u	inder penalty of perjury, under the laws of the State vided on this Certificate of Compliance is true and co		
This table includes remarks made by the permit applicant to the Authority F. SERVICE ELECTRICAL METERING This Section Does Not Apply	Having Jurisaiction.		2	RESPONSIBLE PERSON' I certify the following u 1. The information pro 2. I am eligible under E Compliance (respons	inder penalty of perjury, under the laws of the State vided on this Certificate of Compliance is true and co Division 3 of the Business and Professions Code to acc sible designer)	orrect. cept responsibility for the building design or	
F. SERVICE ELECTRICAL METERING This Section Does Not Apply				RESPONSIBLE PERSON' I certify the following u 1. The information pro 2. I am eligible under D Compliance (respons 3. The energy features Certificate of Compli	under penalty of perjury, under the laws of the State vided on this Certificate of Compliance is true and convision 3 of the Business and Professions Code to accepted designer) and performance specifications, materials, components conform to the requirements of Title 24, Part 1	orrect. cept responsibility for the building design or ents, and manufactured devices for the build and Part 6 of the California Code of Regulat	ling design or system design identified on this ions.
S. SERVICE ELECTRICAL METERING This Section Does Not Apply S. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORI Table Instructions: Complete this table for entirely new or complete repla Iropdown choices in column 01, indicate the load types included for each	NG cement electrical power distribution systems		[2] 5(b). Using the	RESPONSIBLE PERSON' I certify the following u 1. The information pro 2. I am eligible under D Compliance (respons 3. The energy features Certificate of Compli 4. The building design compliance docume 5. I will ensure that a certificate of the compliance of the compliance docume	under penalty of perjury, under the laws of the State vided on this Certificate of Compliance is true and convision 3 of the Business and Professions Code to accepted designer) and performance specifications, materials, component iance conform to the requirements of Title 24, Part 1 features or system design features identified on this nts, worksheets, calculations, plans and specification ompleted signed copy of this Certificate of Complian	orrect. cept responsibility for the building design or ents, and manufactured devices for the build and Part 6 of the California Code of Regulat Certificate of Compliance are consistent wit as submitted to the enforcement agency for ace shall be made available with the building	ling design or system design identified on this ions. h the information provided on other applicable approval with this building permit application. permit(s) issued for the building, and made avail
. SERVICE ELECTRICAL METERING his Section Does Not Apply . SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORI able Instructions: Complete this table for entirely new or complete repla ropdown choices in column 01, indicate the load types included for each lectrical Service Designation/Description: MAIN PANEL	NG cement electrical power distribution systems		5(b). Using the	RESPONSIBLE PERSON' I certify the following u 1. The information pro 2. I am eligible under D Compliance (respons 3. The energy features Certificate of Compli 4. The building design compliance docume 5. I will ensure that a c to the enforcement documentation the	under penalty of perjury, under the laws of the State vided on this Certificate of Compliance is true and convision 3 of the Business and Professions Code to accibile designer) and performance specifications, materials, componentations conform to the requirements of Title 24, Part 1 features or system design features identified on this nts, worksheets, calculations, plans and specification ompleted signed copy of this Certificate of Complian agency for all applicable inspections. I understand the builder provides to the building owner at occupancy.	orrect. cept responsibility for the building design or ents, and manufactured devices for the build and Part 6 of the California Code of Regulat Certificate of Compliance are consistent with as submitted to the enforcement agency for ice shall be made available with the building that a completed signed copy of this Certificate.	ling design or system design identified on this ions. h the information provided on other applicable approval with this building permit application. permit(s) issued for the building, and made avail the compliance is required to be included with the control of the compliance is required to be included with the control of the control
F. SERVICE ELECTRICAL METERING This Section Does Not Apply G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORI Table Instructions: Complete this table for entirely new or complete repla Altropdown choices in column 01, indicate the load types included for each Electrical Service Designation/Description: MAIN PANEL	NG cement electrical power distribution systems service. Any load types that are not included 2 03 ed Separation of Compliance	04 Location of Requirements in Construction		RESPONSIBLE PERSON' I certify the following u 1. The information pro 2. I am eligible under D Compliance (respons 3. The energy features Certificate of Compli 4. The building design of compliance docume 5. I will ensure that a compliance to the enforcement documentation the language of the documentation the language of the language	vided on this Certificate of Compliance is true and control of the Business and Professions Code to acceptive designer) and performance specifications, materials, component in the conformation of the Part 1 features or system design features identified on this nots, worksheets, calculations, plans and specification ompleted signed copy of this Certificate of Complian agency for all applicable inspections. I understand the builder provides to the building owner at occupancy. DAVID SMITH, PE CENTRAL PACIFIC ENGINEERING, INC	cept responsibility for the building design or cents, and manufactured devices for the building design or cents, and Part 6 of the California Code of Regular Certificate of Compliance are consistent with as submitted to the enforcement agency for ice shall be made available with the building that a completed signed copy of this Certificate. Responsible Designer Signature: Date Signed:	ling design or system design identified on this ions. h the information provided on other applicable approval with this building permit application. permit(s) issued for the building, and made avail to be included with the control of the building. O8-15-2022
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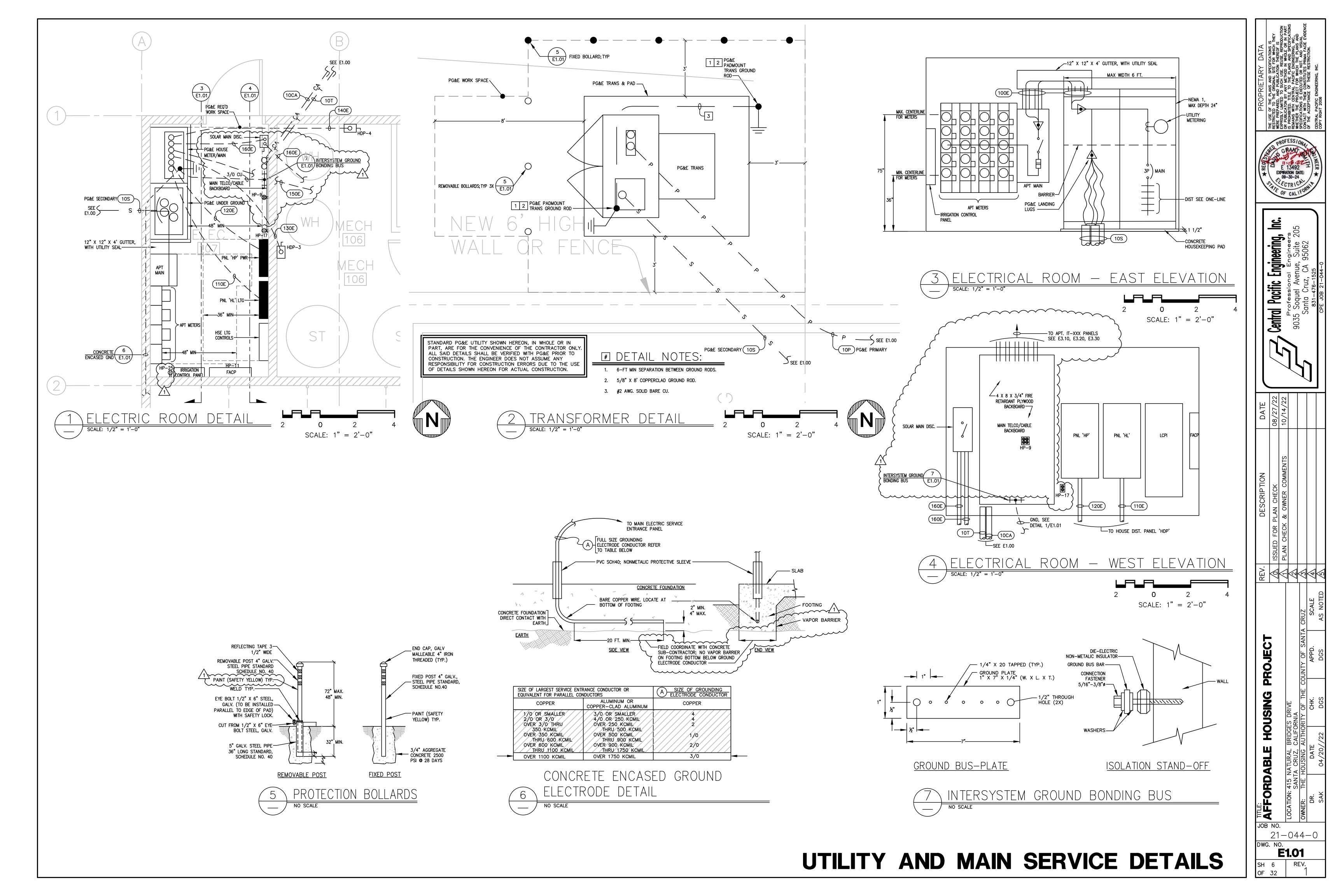
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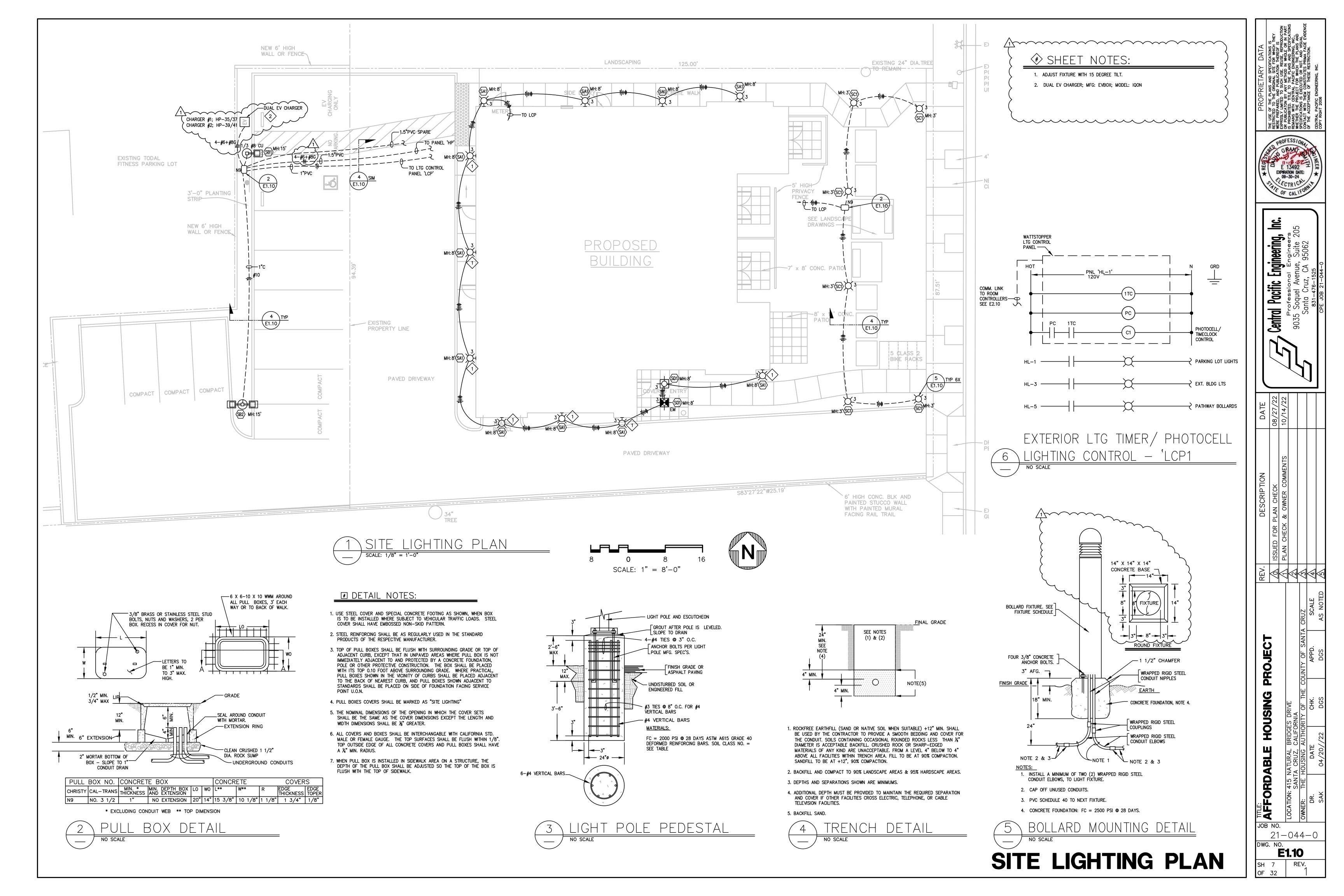
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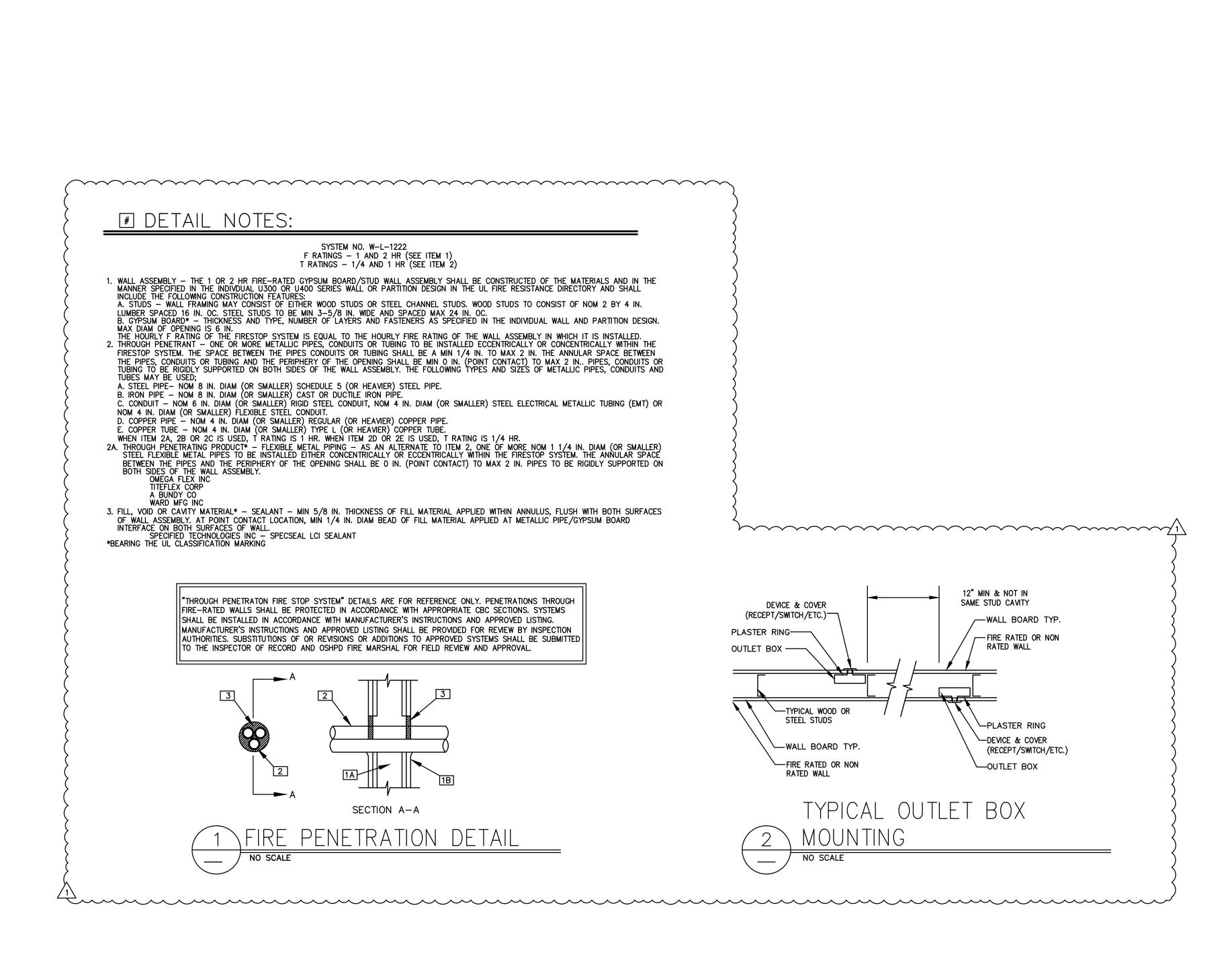
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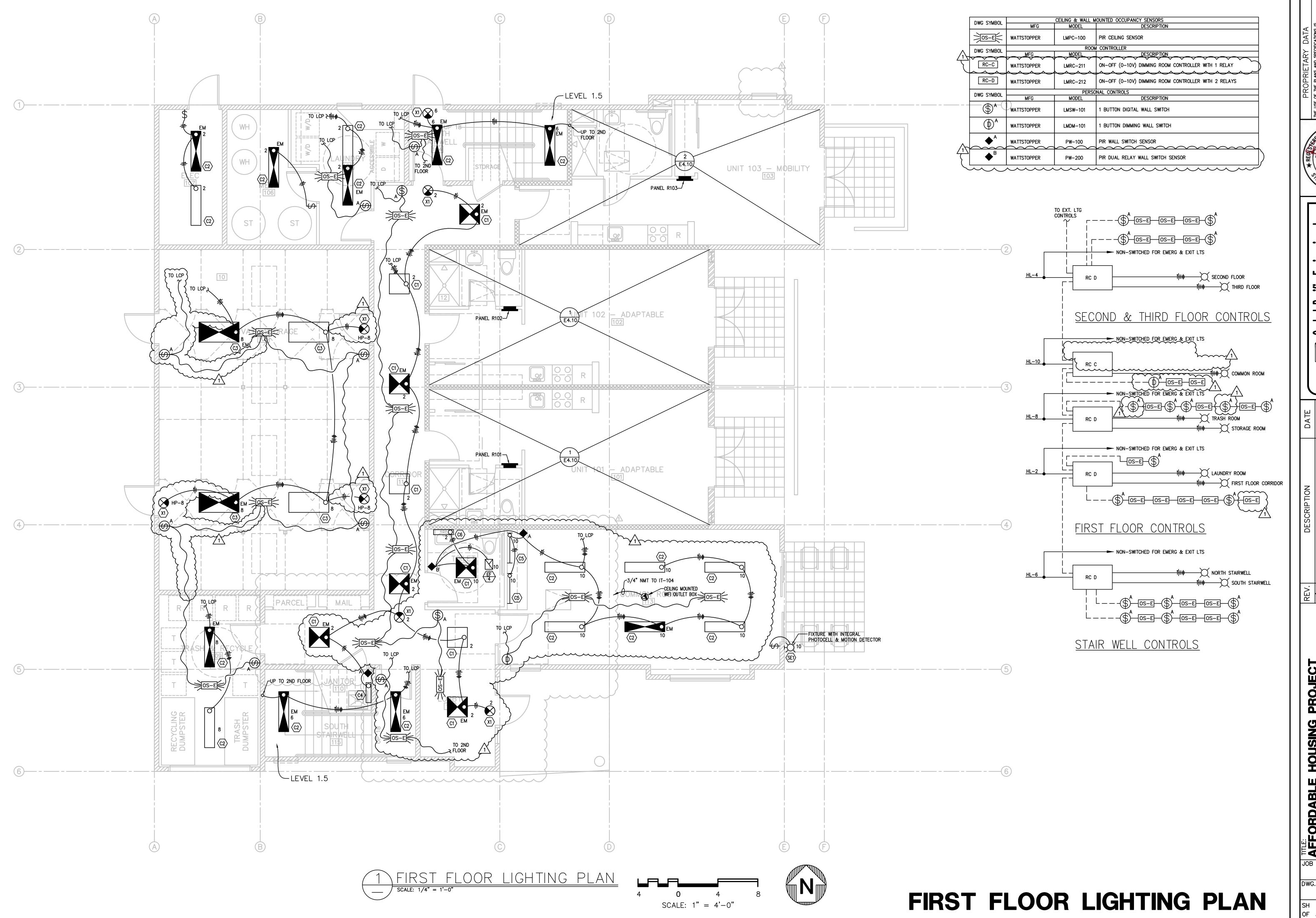
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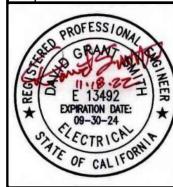
LOCATION: 415 NATURAL BRIDGES DRIVE
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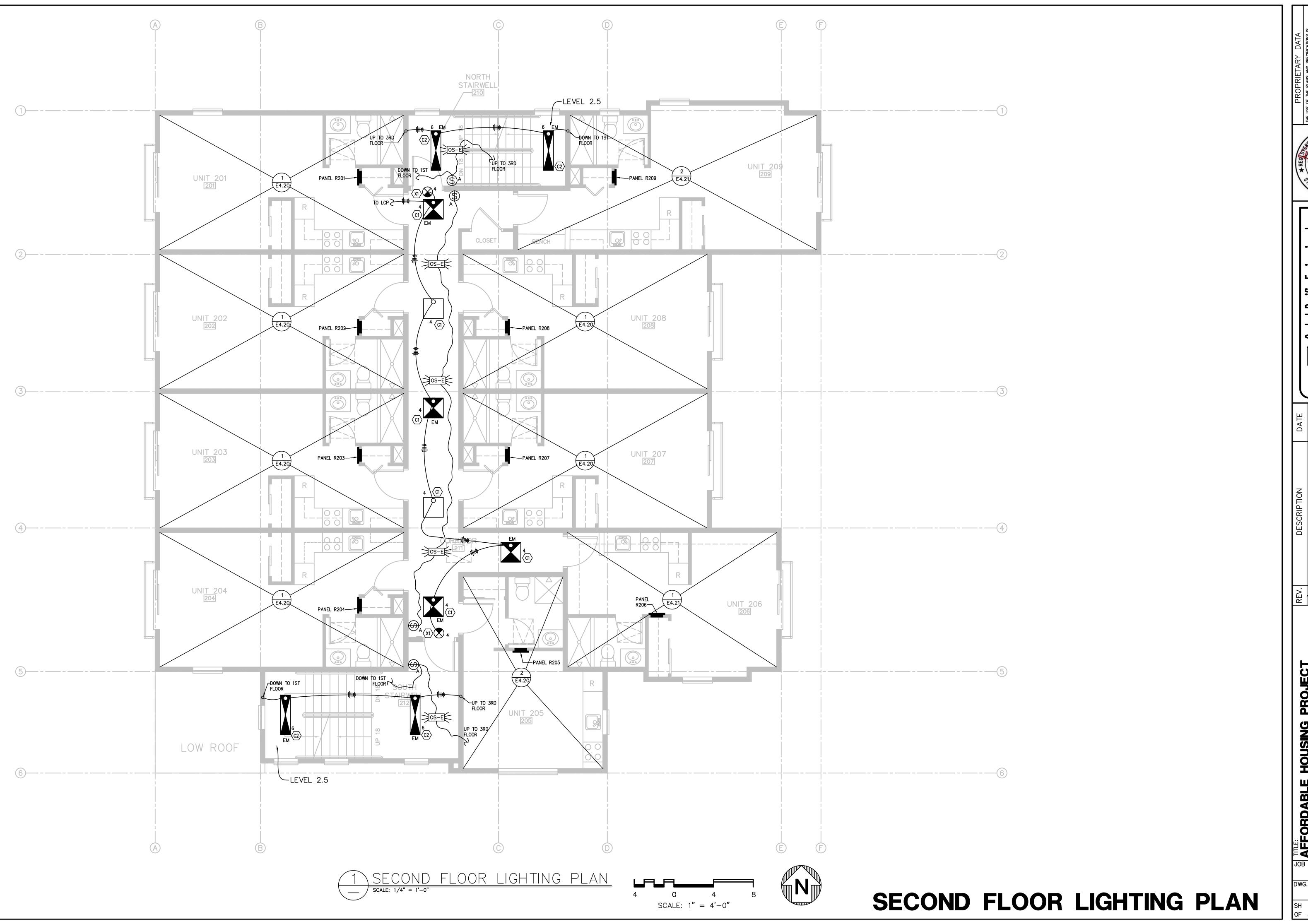




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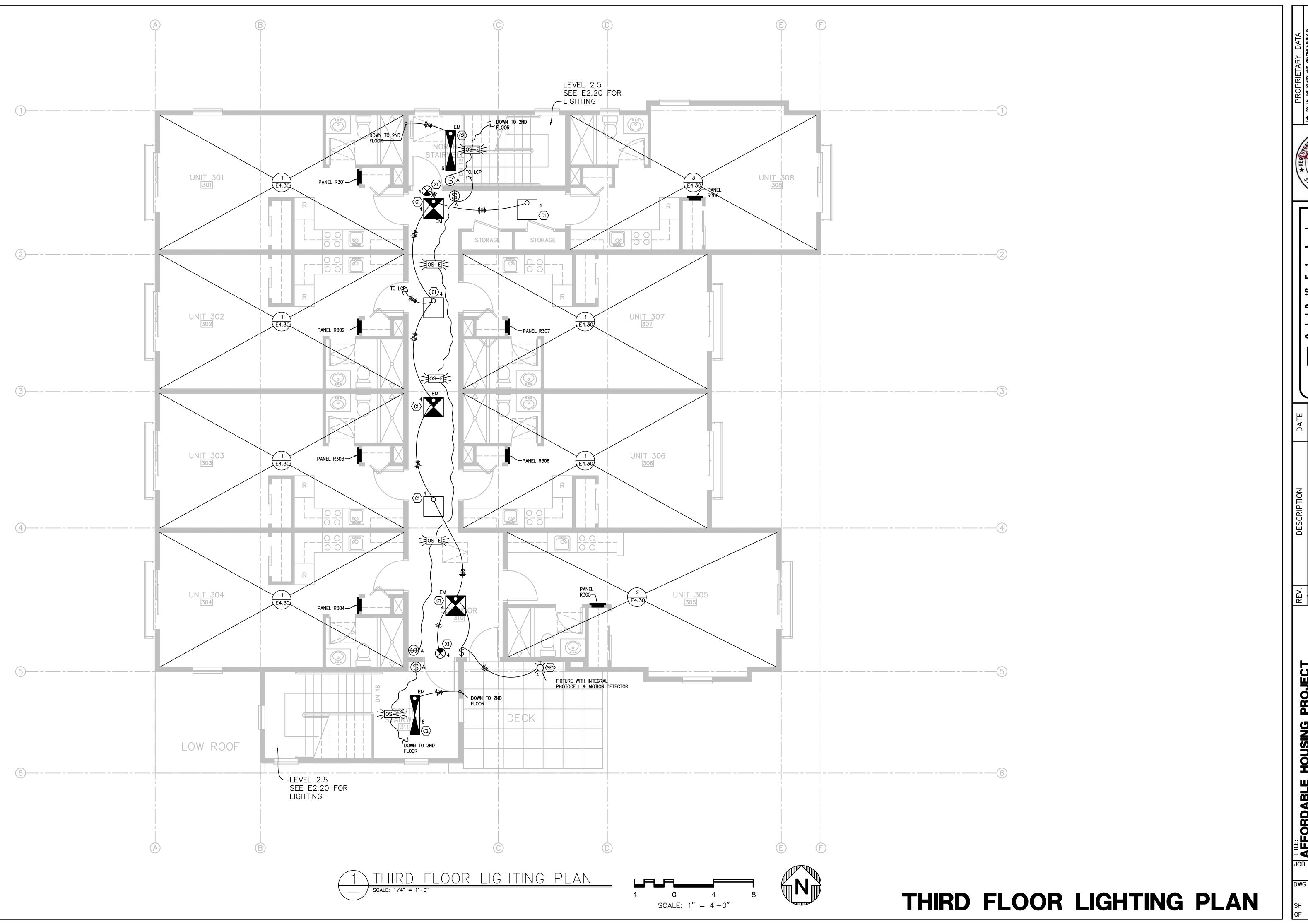
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PROPRIETARY DATA

The use of the plans and specifications is restricted to the original site for which they were prepared, and publication to such use. Retreating or prepared is reproduction to the plans and specifications with central positive 205 Soquel Avenue, Suite 2

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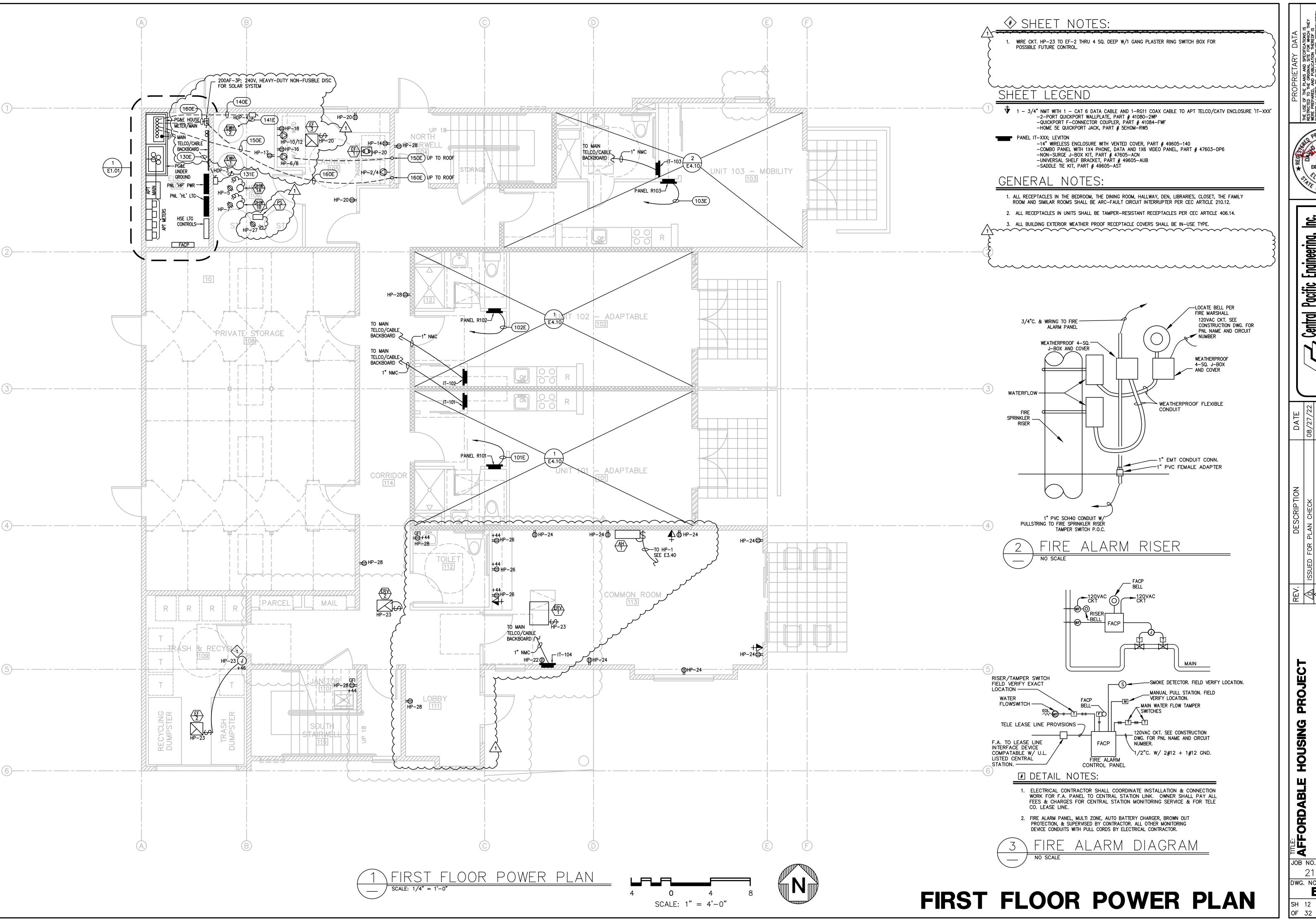
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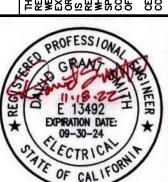
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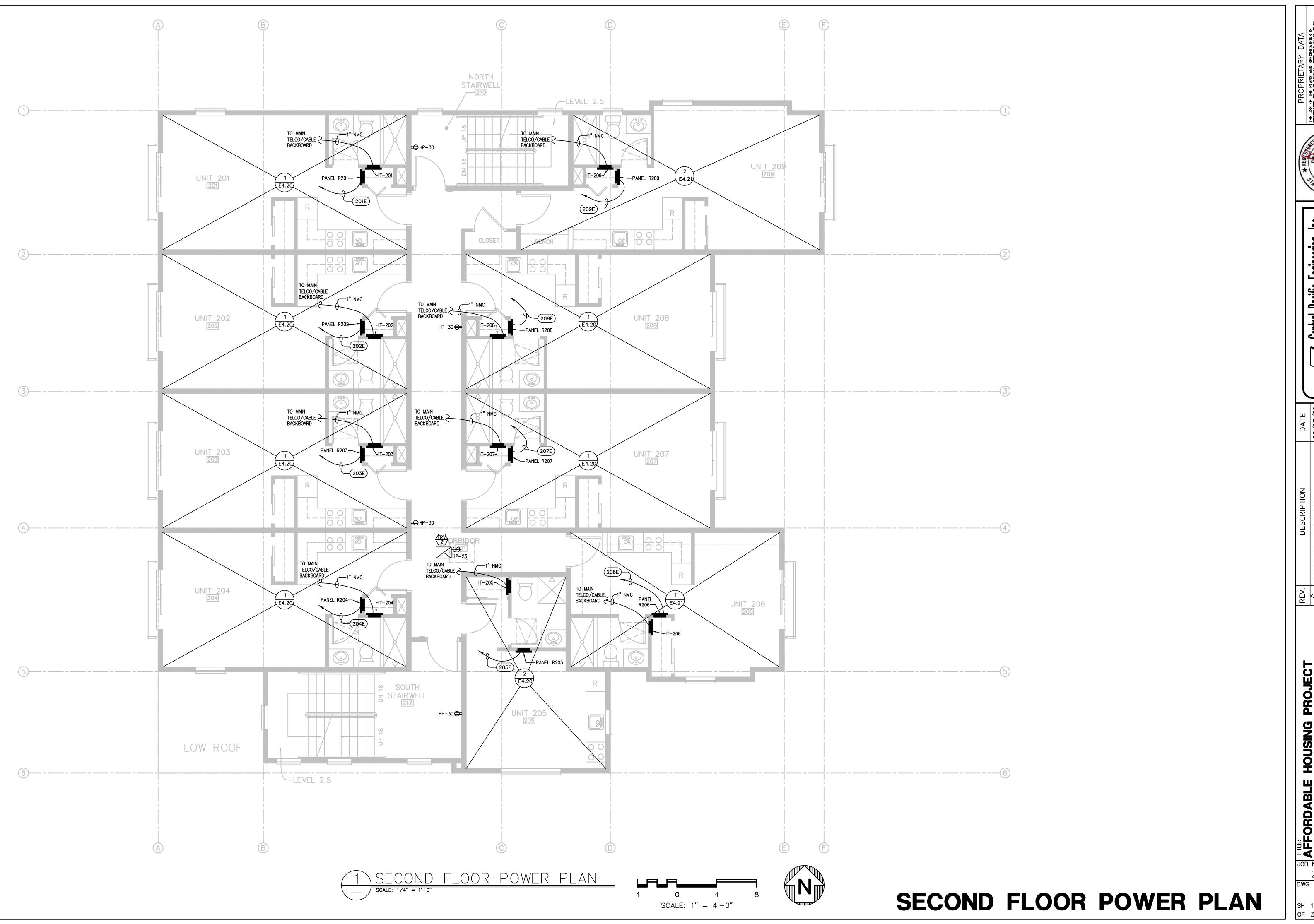


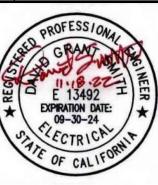


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E3.10



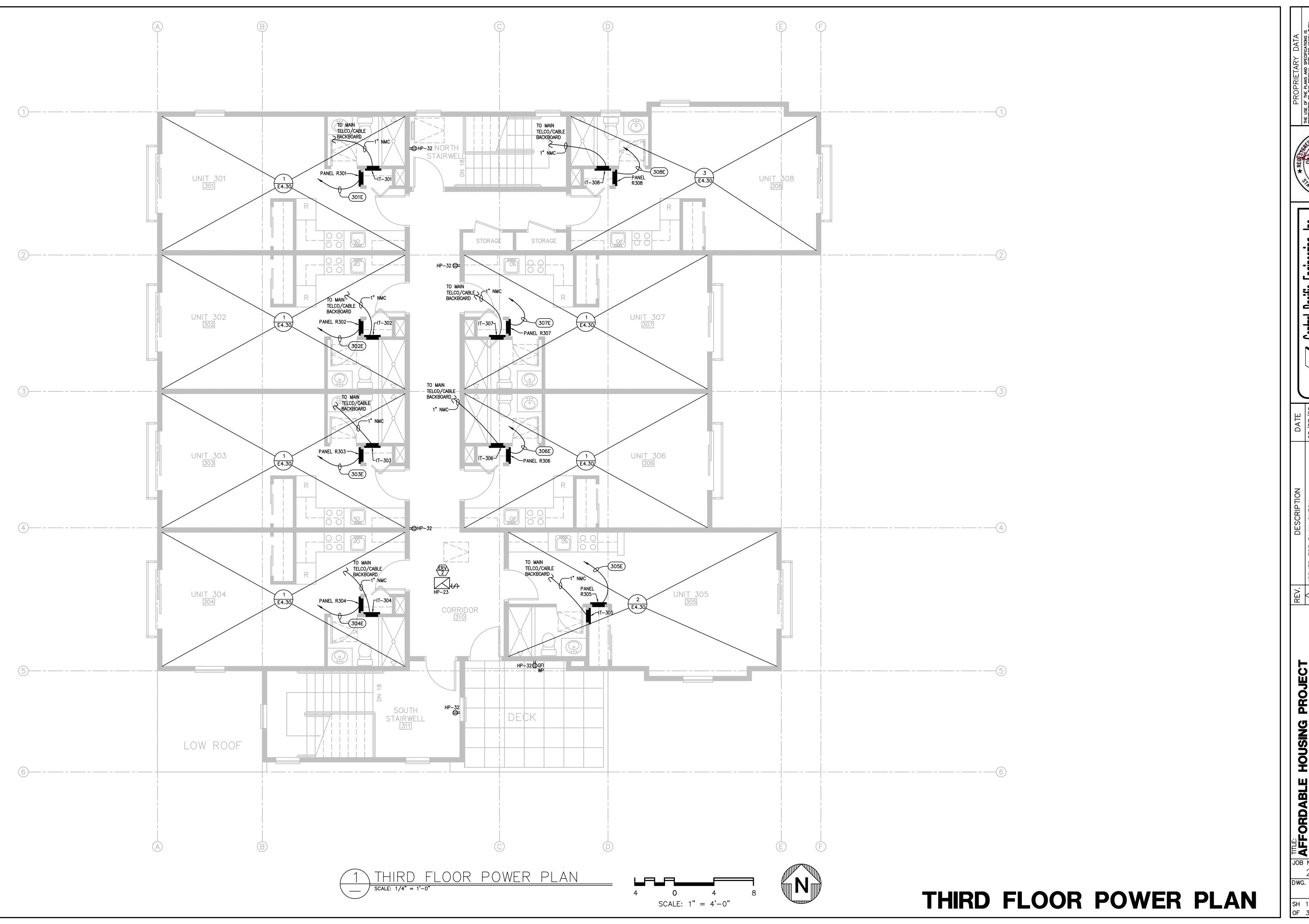


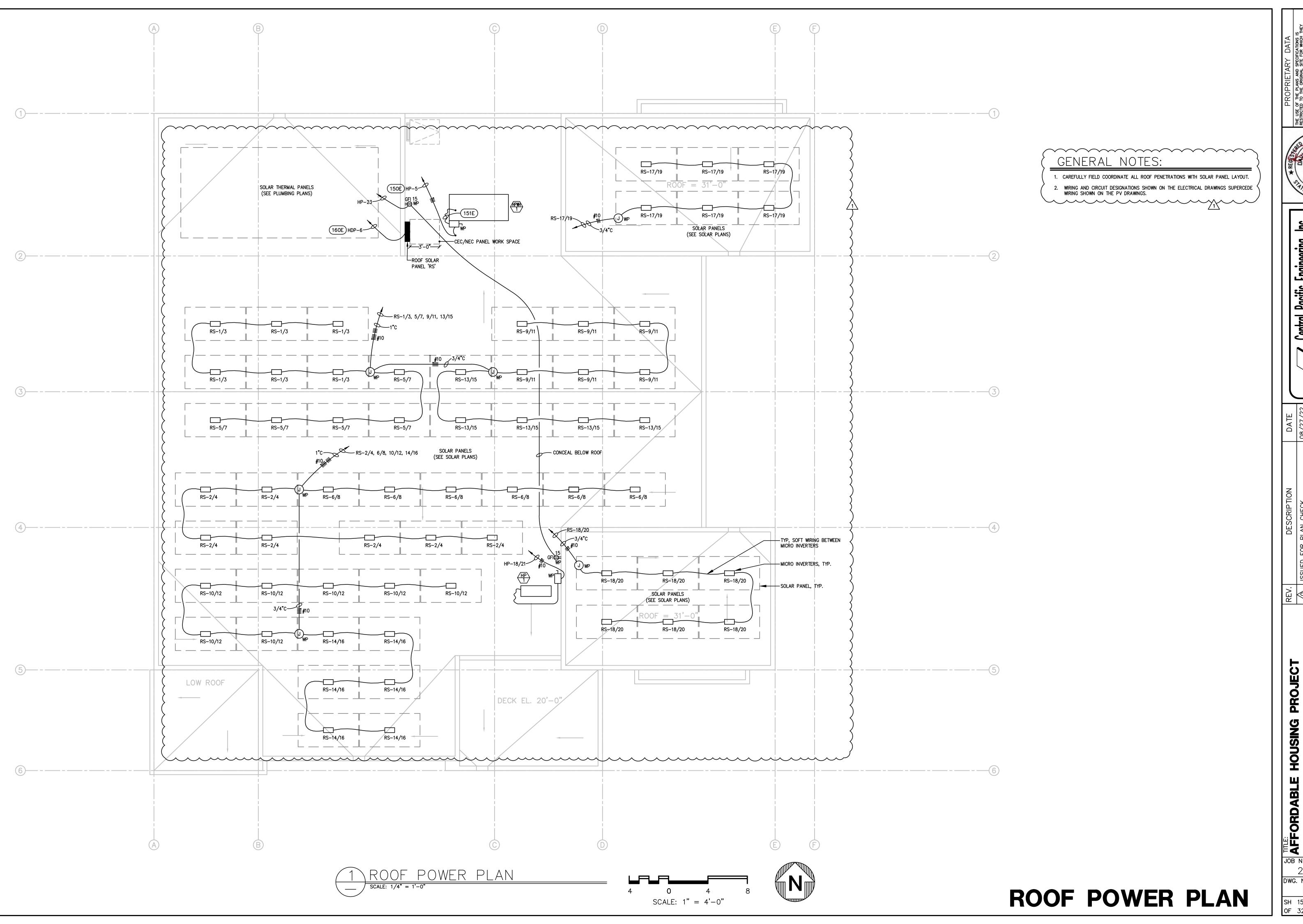
	REV.	DESCRIPTION	DATE
	\bigcirc	ISSUED FOR PLAN CHECK	08/27/22
	\forall	PLAN CHECK & OWNER COMMENTS	10/14/22
	\bigcirc		
RUZ	3		
SCALE	4		
AS MOTED	\checkmark		

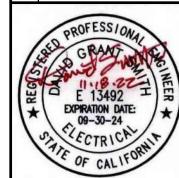
		A CRUZ	SCALE	()
ROJECT		E HOUSING AUTHORITY OF THE COUNTY OF SANTA CRUZ	APPD.	0
USING P	ES DRIVE JRNIA	RITY OF THE CO	CHK.	(
DABLE HOUSING PROJECT	5 NATURAL BRIDGES DRIVE NTA CRUZ, CALIFORNIA	HOUSING AUTHO	DATE	00//00//0
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AFFORDTITLE:
ON GOOD

ONNER: THE TOWN: 415 PROPERTION: 415







21-044-0 DWG. NO. **E3.40**

♦ SHEET NOTES:

- 1. TITLE 24 COMPLIANT VACANCY SWITCH FOR BATH LIGHTS AND ERV CONTROL SWITCH, SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL.
- 2. FC-1 LINE VOLTAGE T-STAT SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL. FIELD COORDINATE WITH MECHANICAL WORK. COORDINATE IN FIELD EXACT LOCATION OF T-STAT WITH ARCHITECT.
- 3. USE MAX LENGTH OF UNDER LIGHT TO FIT AVAILABLE CABINET SPACE.
- 4. SMOKE DETECTORS AND COMBO SMOKE/CO SHALL BE HARDWIRED AND INTERCONNECTED IF MORE THAN ONE PER UNIT.
- FIRE SMOKE DAMPER(S) FIELD COORDINATE WITH ARCH, MECH AND FIRE ALARM WORK. SEE ARCH, MECH AND FIRE ALARM DWGS.

- \mathbf{v} 1 3/4" NMT WITH 1 CAT 6 DATA CABLE AND 1-RG11 COAX CABLE TO APT TELCO/CATV ENCLOSURE 'IT-XXX' -2-PORT QUICKPORT WALLPLATE, PART # 41080-2WP
 - -QUICKPORT F-CONNECTOR COUPLER, PART # 41084-FWF -HOME 5E QUICKPORT JACK, PART # 5EHOM-RW5
- PANEL IT-XXX; LEVITON -14" WIRELESS ENCLOSURE WITH VENTED COVER, PART # 49605-140
 -COMBO PANEL WITH 1X4 PHONE, DATA AND 1X6 VIDEO PANEL, PART # 47603-DP6
 - -NON-SURGE J-BOX KIT, PART # 47605-ACN -UNIVERSAL SHELF BRACKET, PART # 49605-AUB -SADDLE TIE KIT, PART # 49605-AST

GENERAL NOTES:

- 1. ALL RECEPTACLES IN THE BEDROOM, THE DINING ROOM, HALLWAY, DEN, LIBRARIES, CLOSET, THE FAMILY ROOM AND SIMILAR ROOMS SHALL BE ARC-FAULT CIRCUIT INTERRUPTER PER CEC ARTICLE 210.12.
- 2. ALL RECEPTACLES IN UNITS SHALL BE TAMPER-RESISTANT RECEPTACLES PER CEC ARTICLE 406.14.
- 3. ALL BUILDING EXTERIOR WEATHER PROOF RECEPTACLE COVERS SHALL BE IN-USE TYPE.

)																
SHORT CIR RATING: 10 KAIC BUS TYPE:	PANEL NAME 'R101'; 'R102'	L	OCA	ATION: _	RESIDEN	ITIAL U	JNIT			Р	ANEL	TYPE:	☐ PANI	EL BOA	RD		■ LOAD CENTER	
DESCRIPTION	VOLTAGE: 120/208 BUS RAT	ING: <u>125</u>		_ 1_	PHASE_	<u>3</u> w	IRE +	GNI) .	El	NCLOS	URE T	PE: <u>NE</u>	MA 1			MOUNTING: SURFACE TIPLUSH	_
DESCRIPTION	SHORT CIR RATING: 10 KAIC	BUS	TYF	PE: 🛛 C	OPPER		ALUMII	NUM	<u></u>	IN	NTERIO	R: <u>□ M</u>	IAIN LU	GS			MAIN CIRCUIT BREAKER MAIN CIRCUIT	
MAIN	O.C. DEVICES: BOLT-ON	☑PLUG-ON		DEVIC	E FAMIL	_Y:			_			<u>□</u> s	UB-FEE	D CIRC	UIT	BR	EAKER	
MAIN	DESCRIPTION	LTG	PWR	VOLT ØA	AMPS	BRK.						BRK.	VOLT ØA	AMPS	PWR	LTG	DESCRIPTION	
OVEN COOKTOP	MAIN	Х	×		,	100	1	F			2	20	1000	·	Х		GARBAGE DISP	
OVEN COOKTOP	MAIN	Х	X			-	3	\vdash	+	—	4	20		1500	Х		KIT APPLIANCE	
BATH GF	OVEN COOKTOP		X	4000		50	5	\vdash			6	20	1500		Х		KIT APPLIANCE	
HEATER	OVEN COOKTOP		X		4000	_	7	\vdash	+	-	8	20		600	Х		REFER	
LOW VOLTAGE CABNET	BATH GFI		X	1500		20	9	⊣			10	20	1440		Х		PLUGS	
SPACE 15 16 ✓1 SPACE SPACE 17 18 SPACE SPACE 19 20 SPACE SPACE 21 22 SPACE SPACE 23 24 SPACE SPACE SPACE SPACE SPACE 38 34 36 TOTALS 5700 6000 4150 2500 4150 2500 BUS B 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA ITHER IX ANSI 61 LT GRAY DOOR-IN-DOOR IX 1/4" LETTERS ON BLACK IX GROUND BAR EITHER IX ANSI 49 DK GRAY DOOR-IN-DOOR IX WHITE LETTERS ON BLACK IX GROUND BAR	HEATER		X		2000	30	11	-	•	\vdash	12	20	~~	400		Х	LIGHTS	
SPACE 17 18 SPACE SPACE 19 20 SPACE SPACE 21 22 SPACE SPACE 23 24 SPACE SPACE SPACE SPACE SPACE 30 24 SPACE SPACE SPACE SPACE SPACE 30 30 30 TOTALS 5700 6000 4150 2500 4150 2500 BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER (ANSI 49 DK GRAY) DOOR-IN-DOOR 1/4" LETTERS ON BLACK GROUND BAR EITHER (ANSI 49 DK GRAY) KEYED LATCH WHITE LETTERS ON BLACK GROUND BAR	LOW VOLTAGE CABNET		X	200		20	13	⊣			14	20(210	\	Х		ERV & FSD	
SPACE 19 20 SPACE SPACE 21 22 SPACE SPACE 23 24 SPACE SPACE 36 </td <td>SPACE</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>15</td> <td></td> <td>•</td> <td>_</td> <td>16</td> <td></td> <td></td> <td>/1\</td> <td></td> <td></td> <td>SPACE</td> <td></td>	SPACE						15		•	_	16			/1\			SPACE	
SPACE 21 22 SPACE SPACE 23 24 SPACE SPACE 36	SPACE						17	⊣			18						SPACE	
SPACE 23	SPACE						19		•	—	20						SPACE	
TOTALS 5700 6000 4150 2500 5704 6000 60	SPACE						21	⊣			22						SPACE	
BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER ACCESSORIES: COLOR COVER NAME PLATES OTHER DOOR-IN-DOOR HOW IN THE LETTERS ON BLACK POLICY PARTY DOOR MITTER MITTER	SPACE		L,				23				24						SPACE	
BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER ACCESSORIES: COLOR COVER NAME PLATES OTHER DOOR-IN-DOOR HOW IN THE LETTERS ON BLACK POLICY PARTY DOOR MITTER MITTER			\mathbb{X}			XX	<u> </u>	X	XX	X	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\times\!\!\times\!\!\times$			\Diamond	\boxtimes		X
BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER ACCESSORIES: COLOR COVER NAME PLATES OTHER DOOR-IN-DOOR HOW IN THE LETTERS ON BLACK PNL. DIRECTOR			X >		$\times\!\!\times\!\!\!\times$	\boxtimes	\times	\triangleright		\times	\} \$\	\times	$\boxtimes \!$	\times	\Diamond	\boxtimes		么
BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER ACCESSORIES: COLOR COVER NAME PLATES OTHER DOOR-IN-DOOR HOW IN THE LETTERS ON BLACK POLICY PARTY DOOR MITTER MITTER			X	\bigotimes	$\times\!\!\times\!\!\!\times$	XX	X 28\	X		\times		$\langle \chi \chi \rangle$	XXX	XX	\boxtimes	\boxtimes		\leq
BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER ACCESSORIES: COLOR COVER NAME PLATES OTHER DOOR-IN-DOOR HOW IN THE LETTERS ON BLACK POLICY PARTY DOOR MITTER MITTER			$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	\bowtie		\Diamond		X		$\overset{x}{\vee}$		\bigvee		XX	\mathbb{X}	\boxtimes		\searrow
BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER ACCESSORIES: COLOR COVER NAME PLATES OTHER DOOR-IN-DOOR HOW IN THE LETTERS ON BLACK POLICY PARTY DOOR MITTER MITTER		$\times\!\!\times\!\!\!\times$	\bigotimes	\bowtie		\bigotimes		X			\times	XX		XXX	\boxtimes	\bowtie		\geq
BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER ACCESSORIES: COLOR COVER NAME PLATES OTHER DOOR-IN-DOOR HOW IN THE LETTERS ON BLACK POLICY PARTY DOOR MITTER MITTER			\mathbb{X}			XX	\\$ 5\		XX	X		XX	XX	XXX	\Diamond	\boxtimes		X
BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER ACCESSORIES: COLOR COVER NAME PLATES OTHER DOOR-IN-DOOR HOW IN THE LETTERS ON BLACK POLICY PARTY DOOR MITTER MITTER			\swarrow			XX		\triangleright	XX	X	$\langle 3 \rangle$	XX	\bowtie	XX	\Diamond	\triangleright		X,
BUS A 9.9 KVA ACCESSORIES: COLOR COVER NAME PLATES OTHER BUS B 8.5 KVA EITHER ACCESSORIES: COLOR COVER NAME PLATES OTHER DOOR-IN-DOOR HOW IN THE LETTERS ON BLACK PNL. DIRECTOR		$\times\!\!\times\!\!\times\!\!\times$	$\times\!$	$\times\!\!\times\!\!\times$	$\times\!\!\times\!\!\times$	$\times\!\!\times\!\!\times$	X3	\bigotimes	$\times\!\!\times\!\!$	\times	$\langle \mathcal{M} \rangle$	$\times\!\!\times\!\!\!\times$	$\times\!\!\times\!\!\!\times$	$\times\!\!\times\!\!\times$	igtriangle	\otimes		\leq
BUS B 8.5 KVA EITHER SANSI 61 LT GRAY □ DOOR-IN-DOOR ☑ 1/4" LETTERS ☑ GROUND BAR ☑ ANSI 49 DK GRAY □ KEYED LATCH ☑ WHITE LETTERS ON BLACK ☑ PNL. DIRECTOR	TOTALS			570	ф 6000)							4150	2500				
BUS B 8.5 KVA EITHER \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		CCESSORIE	<u>S:</u>	•	_			_										
TOTAL 18.4 KVA OTHER: OTHER: SCREW MOUNTED ISO GROUND E	BUS B 8.5 KVA	E	ITH	ER X	ANSI 6	1 LT G 9 DK (RAY GRAY		DO KE	OR- YED	-IN-DO	OOR :H	X	1/4" WHITE	LET LE	TER	S 🛛 GROUND BAR RS ON BLACK 🖾 PNL. DIRECTORY	′
	TOTAL 18.4 KVA			, 🗖	OTHER:				OTI	HEF	₹:		_ 🗵	SCREV	/ M	OUN	NTED ISO GROUND BA	

VOLTAGE: 120/208 BUS RATING: 1	<u> 125</u>		1^	PHASE	_3_ W	IRE +	GN	iD.	E١	NCLOSI	URE TY	PE: <u>NEI</u>	MA 1			MOUNTING: ☐ SURFACE 🛛 FLUSH
SHORT CIR RATING: 10 KAIC	BUS	TYF	РЕ: <u>⊠</u> С	OPPER		ALUMI	NUN	<u> </u>	IN	ITERIOF	R: <u>□ M</u>	IAIN LU	GS			MAIN CIRCUIT BREAKER
O.C. DEVICES: □BOLT-ON ☑PLUG								_			□ S ^t	UB-FEE	D CIRCL	JIT	BR	EAKER
DESCRIPTION	LTG	PWR	VOLT	AMPS ØB	BRK.	CKT NO.		US CON		CKT NO.	BRK.	VOLT	AMPS	PWR	LTG	DESCRIPTION
MAIN	X	X			100	1_	F		\Box	2	20	1000		X		GARBAGE DISP
MAIN	X	X				3	}	+	┝─	4	20		1500	Х		KIT APPLIANCE
OVEN COOKTOP		Х	4000		50	5	\vdash	 	$\vdash \vdash$	6	20	1500		Х		KIT APPLIANCE
OVEN COOKTOP		Х	<u> </u>	4000		7	\vdash	+		8	20		600	Х		REFER
BATH GFI		Х	1500		20	9	\vdash	 	\vdash	10	20	1440		Х		PLUGS
HEATER		Х		2000	30	11	\vdash	+		12	20	\sim	400		Х	LIGHTS
LOW VOLTAGE CABNET		X	200		20	13	\vdash	 	\vdash	14	20(210		Х		ERV & FSD
SPACE			<u>'</u>			15	<u>}</u>	+		16		_~	<u>/1</u>			SPACE
SPACE	'		<u> </u>			17	}	 	\vdash	18						SPACE
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SPACE	\mathbf{L}		'			23	L			24						SPACE
	XX	\sum		\bigotimes	XX	25	$\langle k \rangle$		\bigotimes	XXX	XX	\bigotimes		\bigvee	\sum	
	$\langle X \rangle$	\sum		XX	\boxtimes	$\langle \rangle \langle \rangle$	於		X	$\langle \rangle \langle \rangle$	$\boxtimes\!$	$\times \times$	$\langle \rangle \langle \rangle$	\bigcirc	\triangleright	
	$\langle X \rangle$	X		XXX	\bigotimes		枌	\bigotimes	公	$\langle \rangle$	\bigotimes	XXX	$\langle \chi \chi \rangle$	\bigcirc	\bigotimes	
$\overline{\times\!\!\times\!\!\times\!\!\times\!\!\times\!\!\times\!\!\times\!\!\times\!\!\times}$	X	$\langle X \rangle$			XX		又		X	X	$\langle X \rangle$		XXX	\searrow	X	
	XX	\boxtimes	\boxtimes		$\cancel{\mathbb{Z}}$	<u> </u>	X		\bowtie	\times	XX		$\times\!\!\!\times\!$	\boxtimes	X	
	XX	\bigvee	XX	\bigotimes	$K\!$	X	X	XXX	\bigotimes	\times	$\times\!\!\times\!\!\times$	\bigotimes	$\times\!\!\times\!\!\times$	\boxtimes	\boxtimes	
	X	X			\mathbb{X}	\times	X	XX	\aleph	X38X	XX	$\times\!\!\times\!\!\times$	$\times\!\!\times\!\!\times$	\bigvee	\searrow	
		∇	XXX'	$\nabla \times$	\sqrt{X}	X3 8>	$\!$		\bigstar	\angle 36 \angle		XXX		$\langle \rangle$	$\langle \rangle$	$\langle \times

COVER

☐ DOOR-IN-DOOR☐ KEYED LATCH☐ OTHER:

NAME PLATES

☐ 1/4" LETTERS
☐ WHITE LETTERS ON BLACK
☐ SCREW MOUNTED

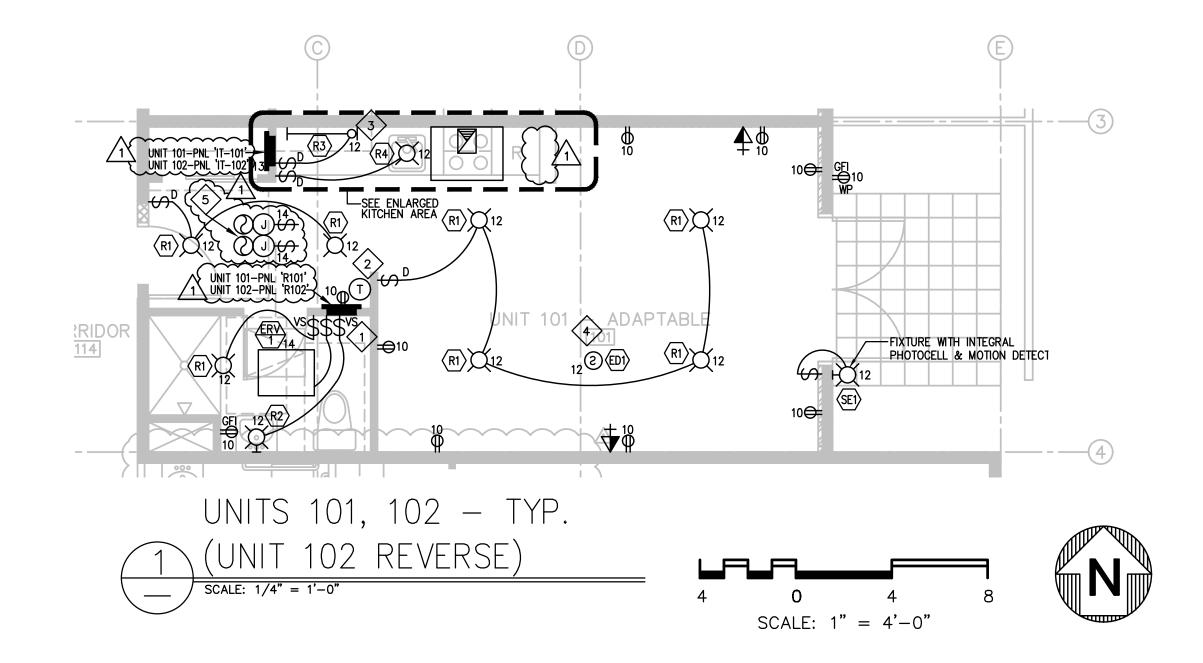
<u>OTHER</u>

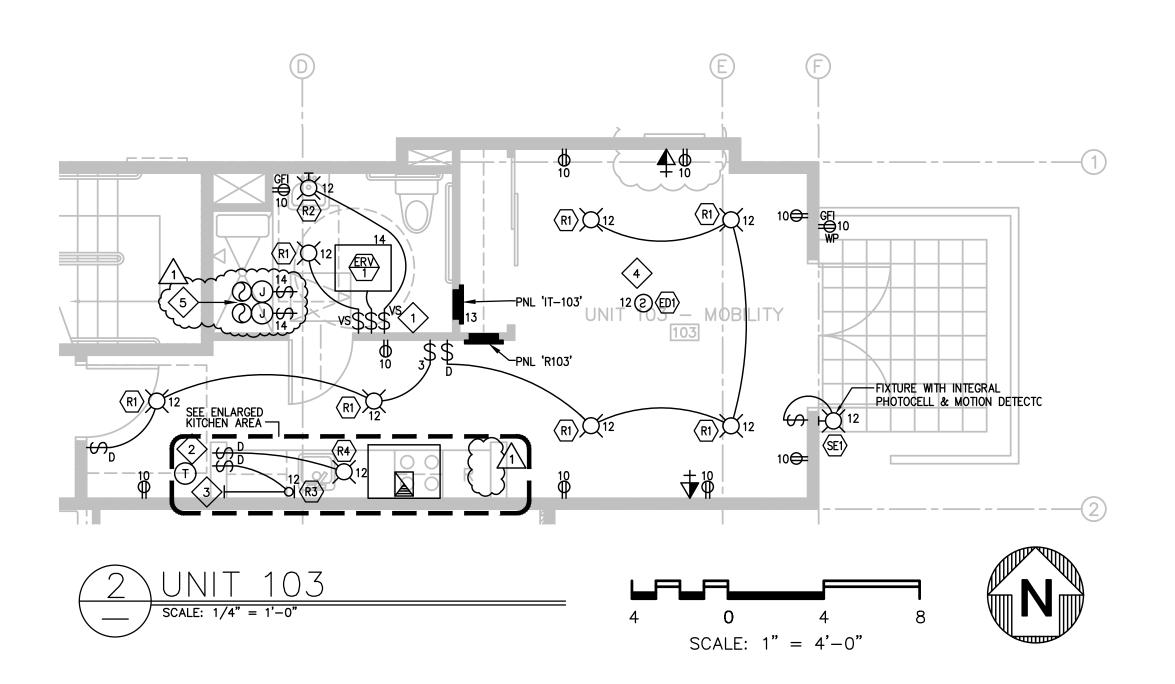
☐ GROUND BAR ☐ PNL. DIRECTORY ☐ ISO GROUND BAR

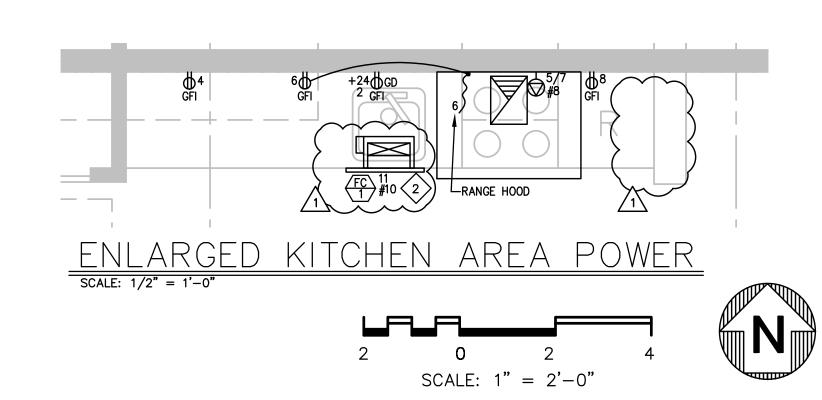
BUS A 9.9 KVA
BUS B 8.5 KVA

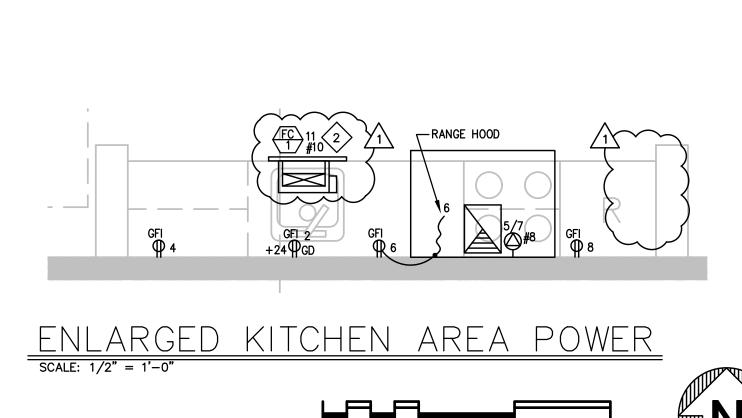
EITHE

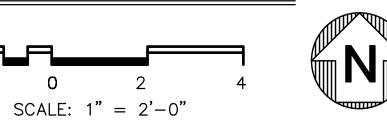
TOTAL 18.4 KVA



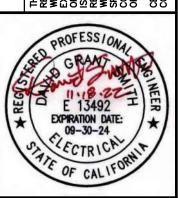








LIGHTING & POWER PLANS - UNITS 101, 102, 103



	Central Pacific Fnameerin		ON35 Social Avenue Suite	Santa Criz CA 95062	30005, CA 30005 831-476-1525	CPE JOB 21-044-0
			<u> </u>			
DATE	08/27/22	10/14/22				
NOIL	×	COMMENTS				

21-044-0 DWG. NO. **E4.10**



- ▼ 1 3/4" NMT WITH 1 CAT 6 DATA CABLE AND 1-RG11 COAX CABLE TO APT TELCO/CATV ENCLOSURE 'IT-XXX' -2-PORT QUICKPORT WALLPLATE, PART # 41080-2WP -QUICKPORT F-CONNECTOR COUPLER, PART # 41084-FWF -HOME 5E QUICKPORT JACK, PART # 5EHOM-RW5
- -14" WIRELESS ENCLOSURE WITH VENTED COVER, PART # 49605-140 -COMBO PANEL WITH 1X4 PHONE, DATA AND 1X6 VIDEO PANEL, PART # 47603-DP6 -NON-SURGE J-BOX KIT, PART # 47605-ACN -UNIVERSAL SHELF BRACKET, PART # 49605-AUB -SADDLE TIE KIT, PART # 49605-AST

GENERAL NOTES:

OVEN COOKTOP OVEN COOKTOP

LOW VOLTAGE CABNET

BUS A 9.9 KVA ACCESSORIES:

BUS B <u>8.5 K</u>VA

- 1. ALL RECEPTACLES IN THE BEDROOM, THE DINING ROOM, HALLWAY, DEN, LIBRARIES, CLOSET, THE FAMILY ROOM AND SIMILAR ROOMS SHALL BE ARC-FAULT CIRCUIT INTERRUPTER PER CEC ARTICLE 210.12.
- 2. ALL RECEPTACLES IN UNITS SHALL BE TAMPER-RESISTANT RECEPTACLES PER CEC ARTICLE 406.14.
- 3. ALL BUILDING EXTERIOR WEATHER PROOF RECEPTACLE COVERS SHALL BE IN-USE TYPE.

AND INSTALLED BY ELECTRICAL. 2. FC-1 LINE VOLTAGE T-STAT SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL. FIELD COORDINATE WITH MECHANICAL WORK. COORDINATE IN FIELD EXACT LOCATION OF T-STAT WITH ARCHITECT. 3. USE MAX LENGTH OF UNDER LIGHT TO FIT AVAILABLE CABINET SPACE. 4. SMOKE DETECTORS AND COMBO SMOKE/CO SHALL BE HARDWIRED AND INTERCONNECTED IF MORE THAN ONE PER FIRE SMOKE DAMPER(S) FIELD COORDINATE WITH ARCH, MECH AND FIRE ALARM WORK. SEE ARCH, MECH AND FIRE 5. UNIT 201 – PNL 'R201' UNIT 202 - PNL 'R202' UNIT 203 - PNL 'R203' UNIT 204 - PNL 'R204' UNIT 207 - PNL 'R207' UNIT 208 - PNL 'R208'

1. TITLE 24 COMPLIANT VACANCY SWITCH FOR BATH LIGHTS AND ERV CONTROL SWITCH, SUPPLIED BY MECHANICAL

▼ 1 - 3/4" NMT WITH 1 - CAT 6 DATA CABLE AND 1-RG11 COAX CABLE TO APT TELCO/CATV ENCLOSURE 'IT-XXX' -2-PORT QUICKPORT WALLPLATE, PART # 41080-2WP -QUICKPORT F-CONNECTOR COUPLER, PART # 41084-FWF -HOME 5E QUICKPORT JACK, PART # 5EHOM-RW5

PANEL IT-XXX; LEVITON -14" WIRELESS ENCLOSURE WITH VENTED COVER, PART # 49605-140 -COMBO PANEL WITH 1X4 PHONE, DATA AND 1X6 VIDEO"PANEL, PART # 47603-DP6 -NON-SURGE J-BOX KIT, PART # 47605-ACN -UNIVERSAL SHELF BRACKET, PART # 49605-AUB

-SADDLE TIE KIT, PART # 49605-AST

***** SHEET NOTES:

\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	}														57.55EE 11E 141, 171111
PANEL NAME:	<u>/</u> L	OCA	TION:	RESIDEN	ITIAL L	JNIT			PANEL	TYPE:	☐ PAN	EL BOA	RD		■ LOAD CENTER ■ L
VOLTAGE: 120/208 BUS RATING									ENCLOS	URE T	YPE: NE	MA 1			MOUNTING: ☐ SURFACE ☑ FLUSH
SHORT CIR RATING: 10 KAIC	BUS	TYF	PE: 🛛 C	OPPER		ALUMII	NUM		INTERIO	R: 🔲 M	IAIN LU	GS			MAIN CIRCUIT BREAKER
O.C. DEVICES: BOLT-ON SF	LUG-ON		DEVIC	E FAMIL	_Y:						UB-FEE	D CIRC	UIT	BR	EAKER
DESCRIPTION	LTG	PWR	VOLT ØA	AMPS	BRK.	CKT NO.	BL	IS CONN	I. CKT NO.	BRK.	VOLT	AMPS ФВ	PWR	LTG	DESCRIPTION
MAIN	X	Х		'	100	1	F		2	20	1000	•	X		GARBAGE DISP
MAIN	X	Х			_	3	┝	+	4	20		1500	Х		KIT APPLIANCE
OVEN COOKTOP		Х	4000		50	5	┝		- 6	20	1500		Х		KIT APPLIANCE
OVEN COOKTOP		Х		4000	_	7	\vdash	+	- 8	20		600	Х		REFER
BATH GFI		Х	1500		20	9	⊣	-	10	20	1440		Х		PLUGS
HEATER		Х		2000	30	11	┝	+	12	20	~~	400		X	LIGHTS
LOW VOLTAGE CABNET		Х	200		20	13	⊣		14	20(210	\backslash	Х		ERV & FSD
SPACE						15	┝	+	16		~	/ 1\			SPACE
SPACE						17	⊣		18						SPACE
SPACE						19	\vdash	+	20						SPACE
SPACE						21	⊣		22						SPACE
SPACE						23	\vdash	+	24						SPACE
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	$\times\!\!\times\!\!\times$	\otimes	$\times\!\!\times\!\!\times$	$\times\!\!\times\!\!\times$	XX	KXX	\bowtie		``	$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	\boxtimes	XX	\otimes	$\langle \rangle$	
	$\times\!\!\times\!\!\times$	\bigotimes	$\otimes \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\times\!\!\!\times\!\!\!\!\times$	XX	$\langle 28 \rangle$	\triangleright	\longrightarrow	$\Rightarrow \Rightarrow $	$\langle \times \times \rangle$	\bowtie	$\times\!\!\times\!\!\times$	\bigotimes	$\langle \! $	
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	XXX	X	XXX	\times		X5X	\aleph	\longleftrightarrow	\times	XX			X	X	
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		\bigotimes	$\otimes\!$		\boxtimes	X3	\bowtie	***	XXX	$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	\boxtimes	\boxtimes	\otimes	∇	
TOTALS			5700	6000							4150	2500			
BUS A 9.9 KVA ACC	ESSORIES	 S:	COLC	<u> </u>				OVER				IAME P	LAT	<u>ES</u>	OTHER_
BUS B 8.5 KVA	E	 ITHI		ANSI 6	1 LT G 9 DK (RAY GRAY		DO0 KEYI	R-IN-D ED LATC	OOR H	N	1/4" WHITE SCREV	LET LE	TER TTE	S S GROUND BAR RS ON BLACK PNL. DIRECTORY NTED ISO GROUND BAR
TOTAL 18.4 KVA				OINER:				<u> попп</u>			_ 🏻	SUKE	v IVI	JUI	ALED I 120 GROUND BAK

EITHER \(\overline{\overl

DOOR-IN-DOOR
KEYED LATCH
OTHER:

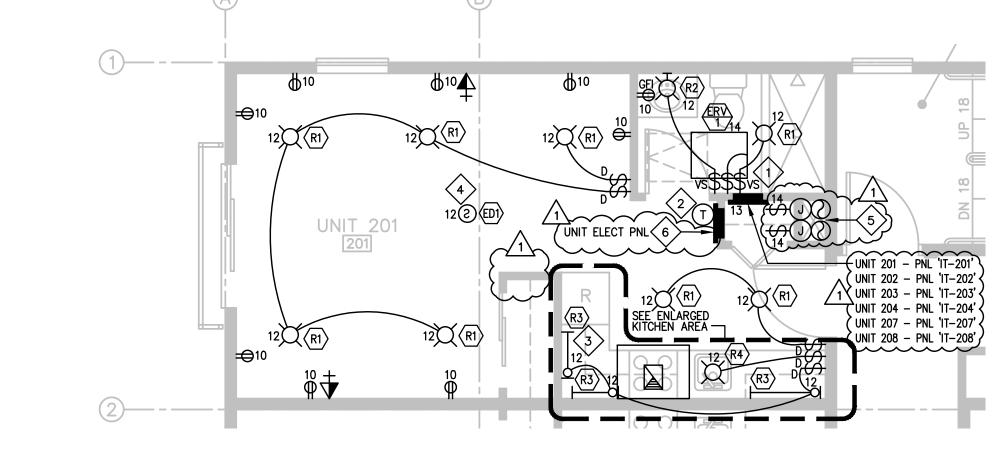
NAME PLATES

☑ 1/4" LETTERS

SCREW MOUNTED

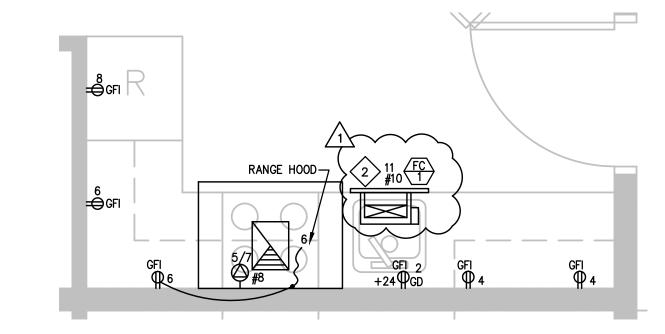
WHITE LETTERS ON BLACK

☐ GROUND BAR ☐ PNL. DIRECTORY ☐ ISO GROUND BAR

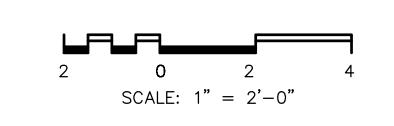


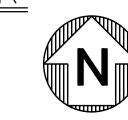
UNITS 201, 202, 203, 204, 207, 208 - TYP.

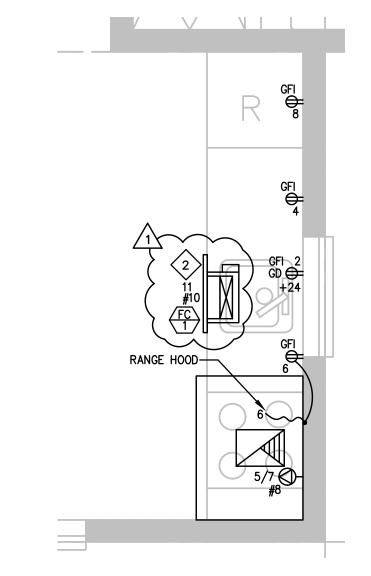




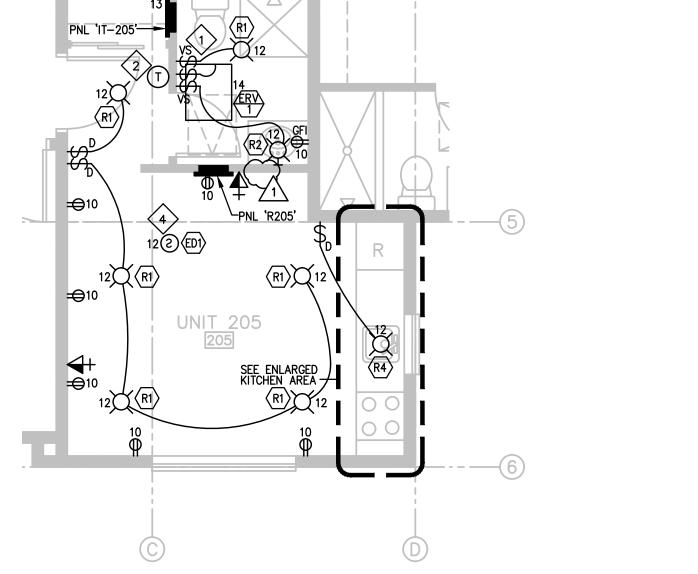


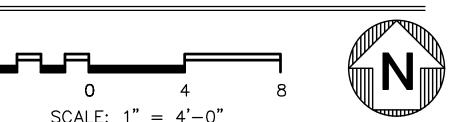




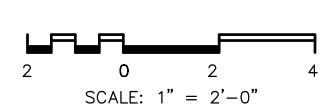










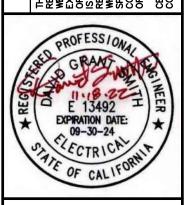




21-044-0 DWG. NO. **E4.20**

\UNIT 205		
SCALE: 1/4" = 1'-0"	4 0 4 8 SCALE: 1" = 4'-0"	N

LIGHTING & POWER PLANS - UNITS 201, 202, 203, 204, 205, 207, 208



ORDABLE HOUSING PROJECT	REV.	DESCRIPTION	ا ا د '		18
	(ISSUED FOR PLAN CHECK	08/27/22	- / / Central Pacific Findingering, Inc.	C/TE/
	\leq	PLAN CHECK & OWNER COMMENTS	10/14/22		E OF
ON: 415 NATURAL BRIDGES DRIVE	1		/: . />:	Professional Engineers	C
SANTA CRUZ, CALIFORNIA	\ <u>Z</u>			/ Marine Suite 205	AL'
THE HOUSING AUTHORITY OF THE COUNTY OF SANTA CRUZ	13			Santa Criz CA 95062	FOR
R. DATE CHK. APPD. SCALE	4			831-476-1525	HIT
AK 04/20//22 DGS DGS AS NOTED	<u>8</u>			CPE JOB 21-044-0	/

SHEET LEGEND

- 1 3/4" NMT WITH 1 CAT 6 DATA CABLE AND 1-RG11 COAX CABLE TO APT TELCO/CATV ENCLOSURE 'IT-XXX'
 -2-PORT QUICKPORT WALLPLATE, PART # 41080-2WP
 -QUICKPORT F-CONNECTOR COUPLER, PART # 41084-FWF
 -HOME 5E QUICKPORT JACK, PART # 5EHOM-RW5
- PANEL IT-XXX; LEVITON -14" WIRELESS ENCLOSURE WITH VENTED COVER, PART # 49605-140
 -COMBO PANEL WITH 1X4 PHONE, DATA AND 1X6 VIDEO PANEL, PART # 47603-DP6
 -NON-SURGE J-BOX KIT, PART # 47605-ACN -UNIVERSAL SHELF BRACKET, PART # 49605-AUB -SADDLE TIE KIT, PART # 49605-AST

GENERAL NOTES:

- 1. ALL RECEPTACLES IN THE BEDROOM, THE DINING ROOM, HALLWAY, DEN, LIBRARIES, CLOSET, THE FAMILY ROOM AND SIMILAR ROOMS SHALL BE ARC-FAULT CIRCUIT INTERRUPTER PER CEC ARTICLE 210.12.
- 2. ALL RECEPTACLES IN UNITS SHALL BE TAMPER-RESISTANT RECEPTACLES PER CEC ARTICLE 406.14.
- 3. ALL BUILDING EXTERIOR WEATHER PROOF RECEPTACLE COVERS SHALL BE IN-USE TYPE.

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	<u>) </u>															
PANEL NAME 'R206'	_ L	OCA	TION:	RESIDEN	ITIAL L	JNIT			Ρ	ANEL '	TYPE:	☐ PAN	EL BOA	<u> </u>		
VOLTAGE: 120/208 BUS RATING: 1	25		11	PHASE_	3_ W	IRE +	GNI) .	Ε	NCLOS	URE TY	PE: <u>NE</u> I	MA 1			MOUNTING: ☐ SURFACE X FLUSH_
SHORT CIR RATING: 10 KAIC	BUS	TYF	PE: 🛛 C	OPPER		ALUMII	NUM	<u> </u>	١N	ITERIO	ર: <u>□ M</u>	IAIN LU	GS			MAIN CIRCUIT BREAKER
O.C. DEVICES: □BOLT-ON ☑PLUG	-ON		DEVIC	E FAMIL	_Y:			_			<u>□</u> s	UB-FEE	D CIRC	JIT	BR	EAKER
DESCRIPTION	LTG	PWR	VOLT	AMPS	BRK.	CKT NO.		JS CON	NN. 3	CKT NO.	BRK.	VOLT	AMPS	PWR	LTG	DESCRIPTION
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MAIN	X	X			_	3	├		_	4	20		1500	Х		KIT APPLIANCE
OVEN COOKTOP		X	4000		50	5	⊣			6	20	1500		Х		KIT APPLIANCE
OVEN COOKTOP		X		4000	_	7	├	-		8	20		600	Х		REFER
BATH GFI		X	1500		20	9	⊣			10	20	1440		X		PLUGS
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LOW VOLTAGE CABNET		X	200		20	13	⊣	-		14	20(210	\nearrow	Χ		ERV & FSD
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	$\!$	\boxtimes	\bowtie	$\times\!\!\times\!\!\times$	\bigotimes		\bowtie	$\Diamond \Diamond$	\bowtie	\bowtie	$\times\!$	$\otimes \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	$\times\!$	\boxtimes	\boxtimes	
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BUS B <u>8.5 K</u> VA TOTAL 18.4 KVA	E	ITHI	ER \ \	ANSI 6	1 LT G 9 DK (RAY GRAY		□ DO KE	OR- YED HEF	-IN-DO LATC R:	OOR H		1/4" l WHITE SCREW	LE LE	TER TTE	S

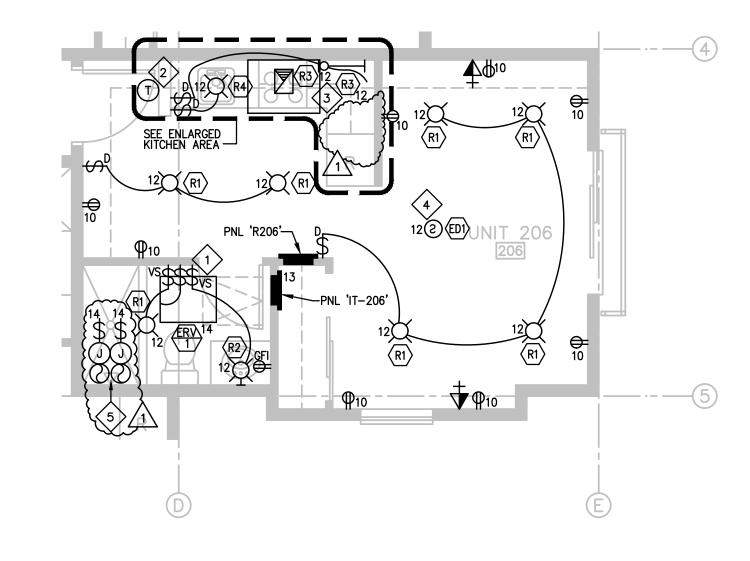
$\triangle 1$)															
PANEL NAME 'R209'	_ L	OC.	ATION: _ F	RESIDEN	ITIAL U	JNIT			Р	ANEL '	TYPE:	☐ PANI	EL BOA	RD		☑ LOAD CENTER
VOLTAGE: 120/208 BUS RATING: 12	25		11	PHASE_	<u>3</u> w	IRE +	GN[) .	El	NCLOS	JRE TY	PE: NE	MA 1			MOUNTING: ☐ SURFACE 🛛 FLUSH
SHORT CIR RATING: 10 KAIC B	US	TYF	PE: 🛛 C	OPPER		ALUMII	NUM	<u></u>	IN	ITERIO	R: ☐ M	AIN LU	GS			MAIN CIRCUIT BREAKER
O.C. DEVICES: □BOLT-ON ☑ PLUG-	-ON		DEVIC	E FAMIL	-Y:			_			<u>□</u> s	UB-FEE	D CIRC	UIT	BR	EAKER
DESCRIPTION	LTG	PWR	VOLT ØA	AMPS	BRK.	CKT NO.	BU	IS CON	NN. B	CKT NO.	BRK.	VOLT ØA	AMPS	PWR	LTG	DESCRIPTION
MAIN	X	X			100	1	P	-		2	20	1000		Х		GARBAGE DISP
MAIN	X	X			_	3	Н		\vdash	4	20		1500	Х		KIT APPLIANCE
OVEN COOKTOP		X	4000		50	5	$\vdash \vdash$			6	20	1500		Х		KIT APPLIANCE
OVEN COOKTOP		X		4000	_	7	Н		\vdash	8	20		600	Х		REFER
BATH GFI		X	1500		20	9	$\vdash \!\!\! \dashv$			10	20	1440		Х		PLUGS
HEATER		X		2000	30	11	Н	——	-	12	20	~	400		Х	LIGHTS
LOW VOLTAGE CABNET		X	200		20	13	$\vdash \!\!\! \dashv$			14	20(210	\bigvee	Х		ERV & FSD
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TOTALS			5700	6000								4150	2500			
BUS A 9.9 KVA ACCESSO	RIE:	<u>S:</u>	COLO	<u> </u>				COVER				N	IAME PI	_ <u>A</u> T	ES	OTHER_
BUS B 8.5 KVA TOTAL 18.4 KVA					1 LT G 9 DK (RAY GRAY				-IN-DO LATC R:	OOR H					S

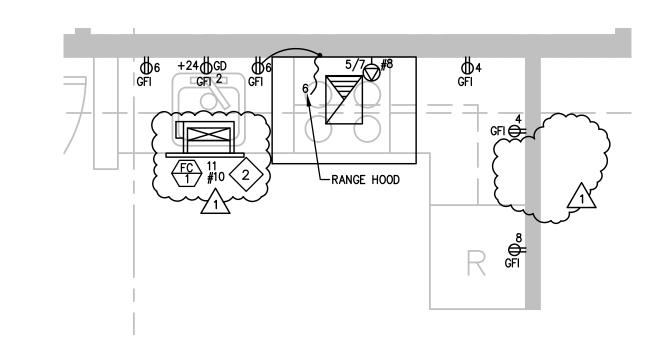
♦ SHEET NOTES:

- TITLE 24 COMPLIANT VACANCY SWITCH FOR BATH LIGHTS AND ERV CONTROL SWITCH, SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL.
- 2. FC-1 LINE VOLTAGE T-STAT SUPPLIED BY MECHANICAL AND INSTALLED BY ELECTRICAL. FIELD COORDINATE WITH MECHANICAL WORK. COORDINATE IN FIELD EXACT LOCATION OF T-STAT WITH ARCHITECT.
- 3. USE MAX LENGTH OF UNDER LIGHT TO FIT AVAILABLE CABINET SPACE.

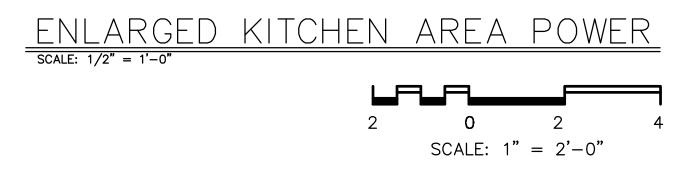
4. SMOKE DETECTORS AND COMBO SMOKE/CO SHALL BE HARDWIRED AND INTERCONNECTED IF MORE THAN ONE PER

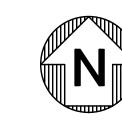
- 5. FIRE SMOKE DAMPER(S) FIELD COORDINATE WITH ARCH, MECH AND FIRE ALARM WORK. SEE ARCH, MECH AND FIRE
- ALARM DWGS.

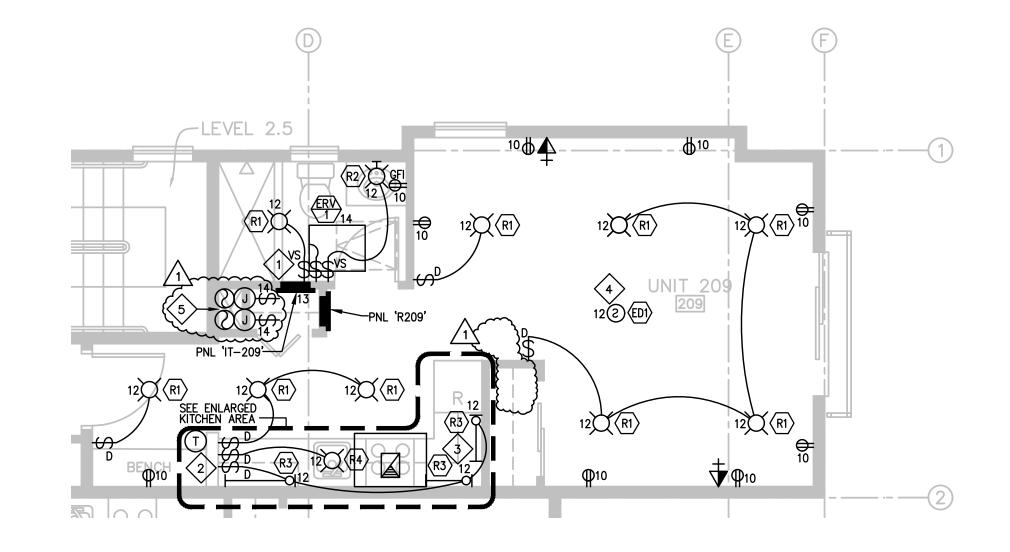


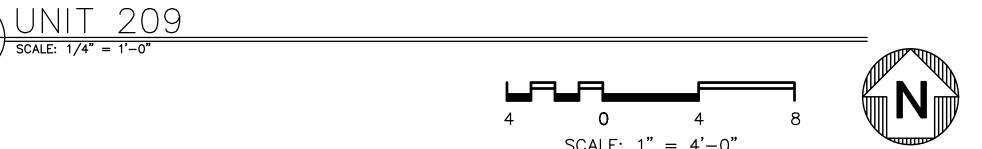


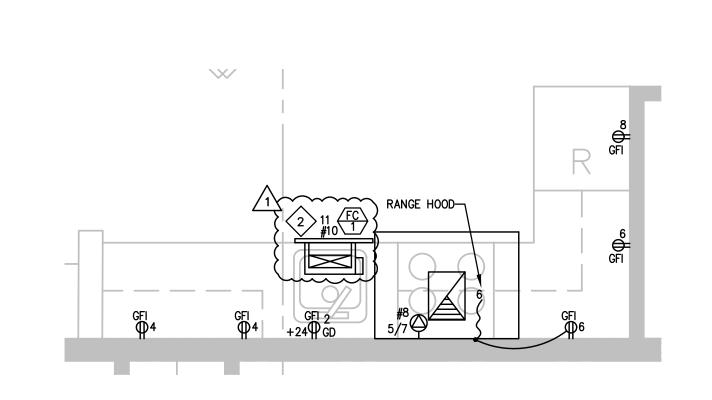




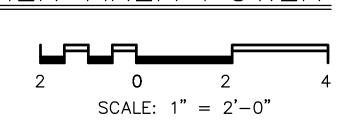




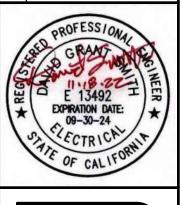










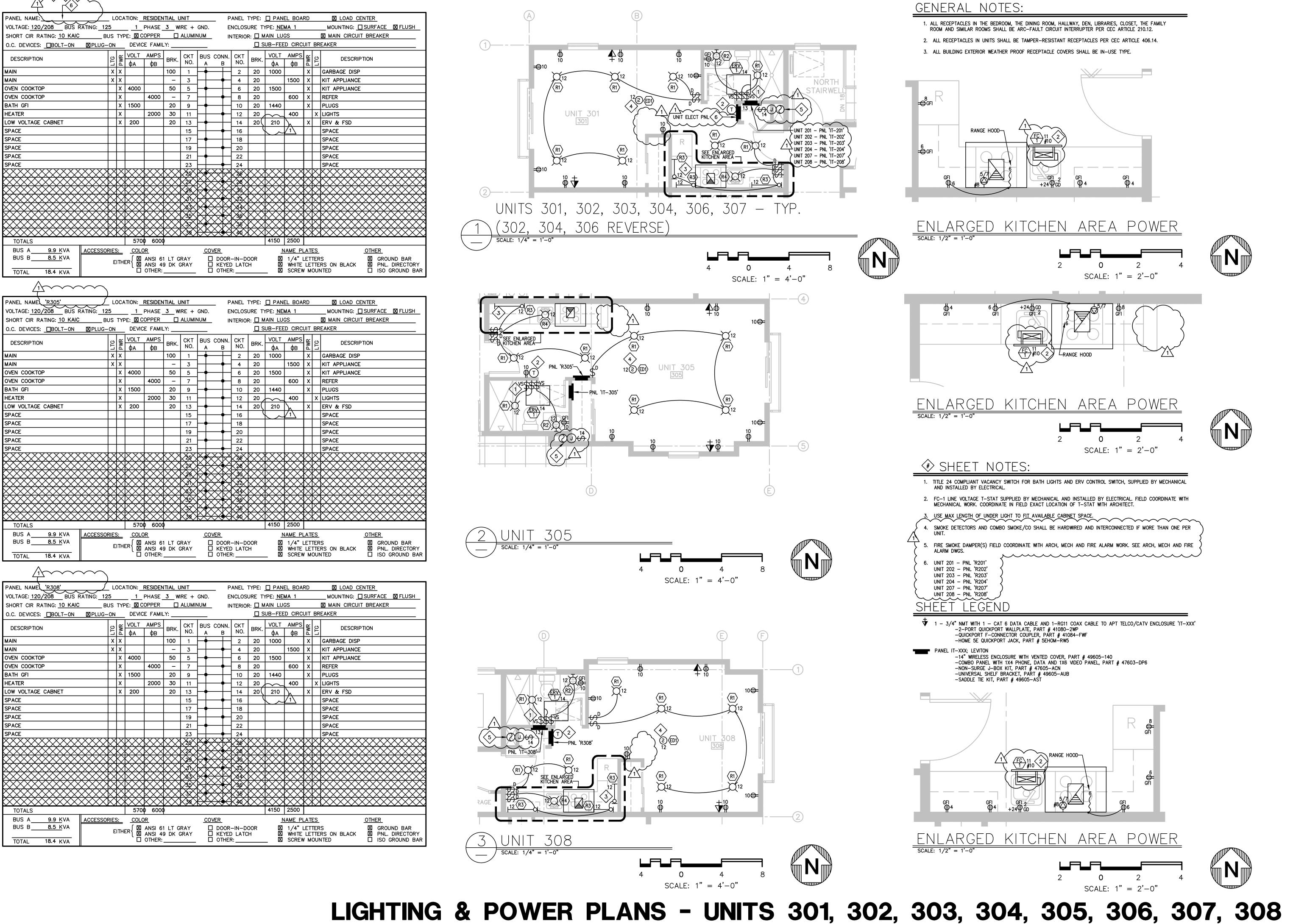


	Central Pacific Fnameering		ON35 Social Avenue Suite	Santa Cris CA 95062	831-476-1525	CPF .IOR 21_044_0
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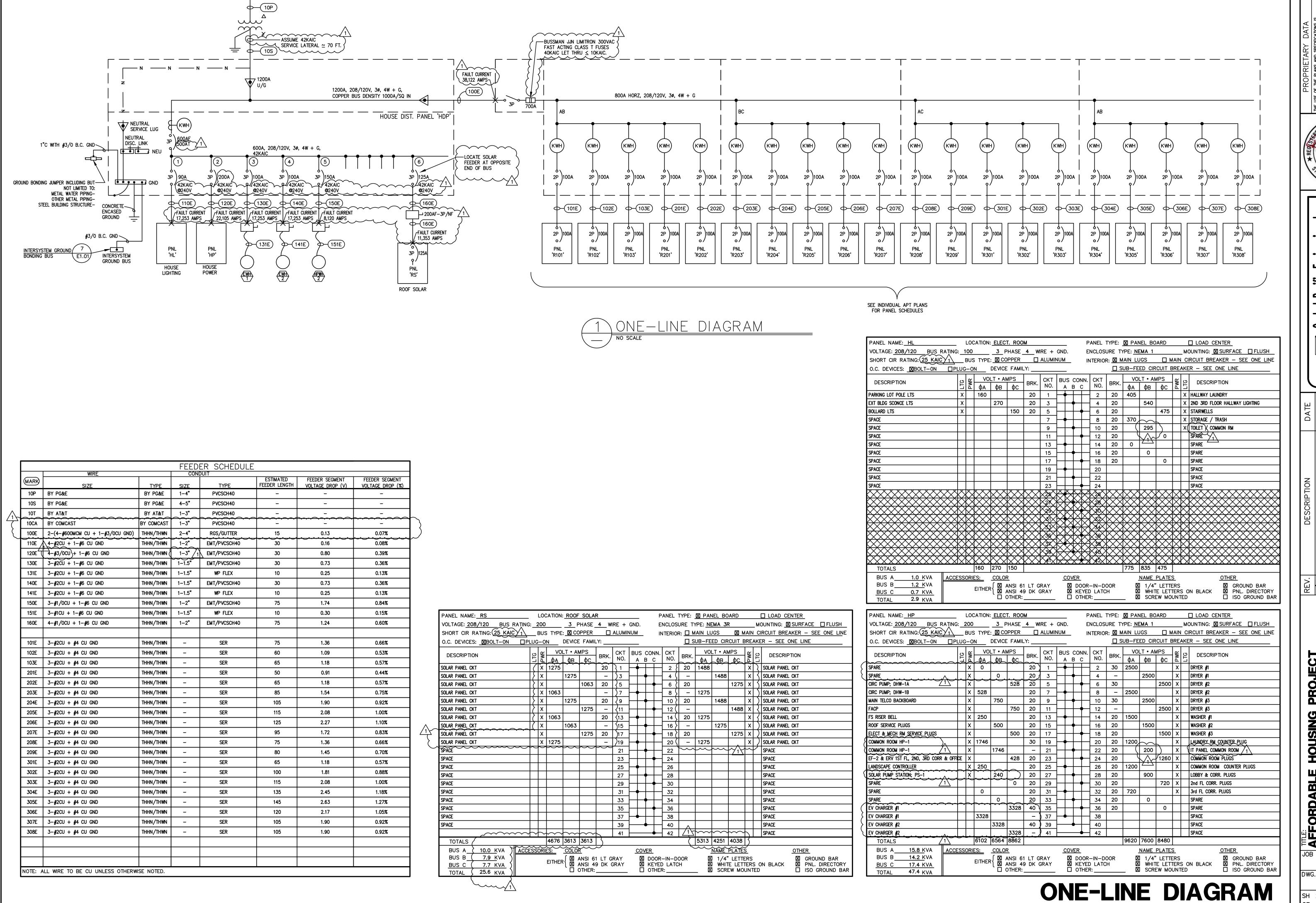
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		A CRUZ	SCALE
ROJECT		UNTY OF SANTA	APPD.
HOUSING PROJECT	BRIDGES DRIVE CALIFORNIA	AUTHORITY OF THE COUNTY OF SANTA CRUZ	CHK.
9	BRIDGES DF CALIFORNIA	∆ ∪ТНО	

JOB NO. 21-044-0 DWG. NO. **E4.21**



JOB NO. 21-044-0 DWG. NO. **E4.30**



THE USE OF THE PLANS AND SPECIFICATIONS IS RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED, AND PUBLICATION THEREOF IS EXPRSSLY LIMITED TO SUCH USE. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD IN WHOLE OR IN PART IS PROHIBITED. THE TO THE PLANS AND SPECIFICATIONS REMAINS WITH CENTRAL PACIFIC ENGINEERING, INC., WHETHER THE PROJECT FOR WHICH THE PLANS AND SPECIFICATIONS IS EXECUTED OR NOT. AND VISUAL CONTACT WITH THEM CONSTITUTES PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTION.



sional Engineers el Avenue, Suite 205 Cruz, CA 95062

Central Pacific Engineral Professional El 9035 Soquel Avenue, Santa Cruz, CA

SLE HOUSING PROJECT

URAL BRIDGES DRIVE
RUZ, CALIFORNIA
SING AUTHORITY OF THE COUNTY OF SANTA CRUZ

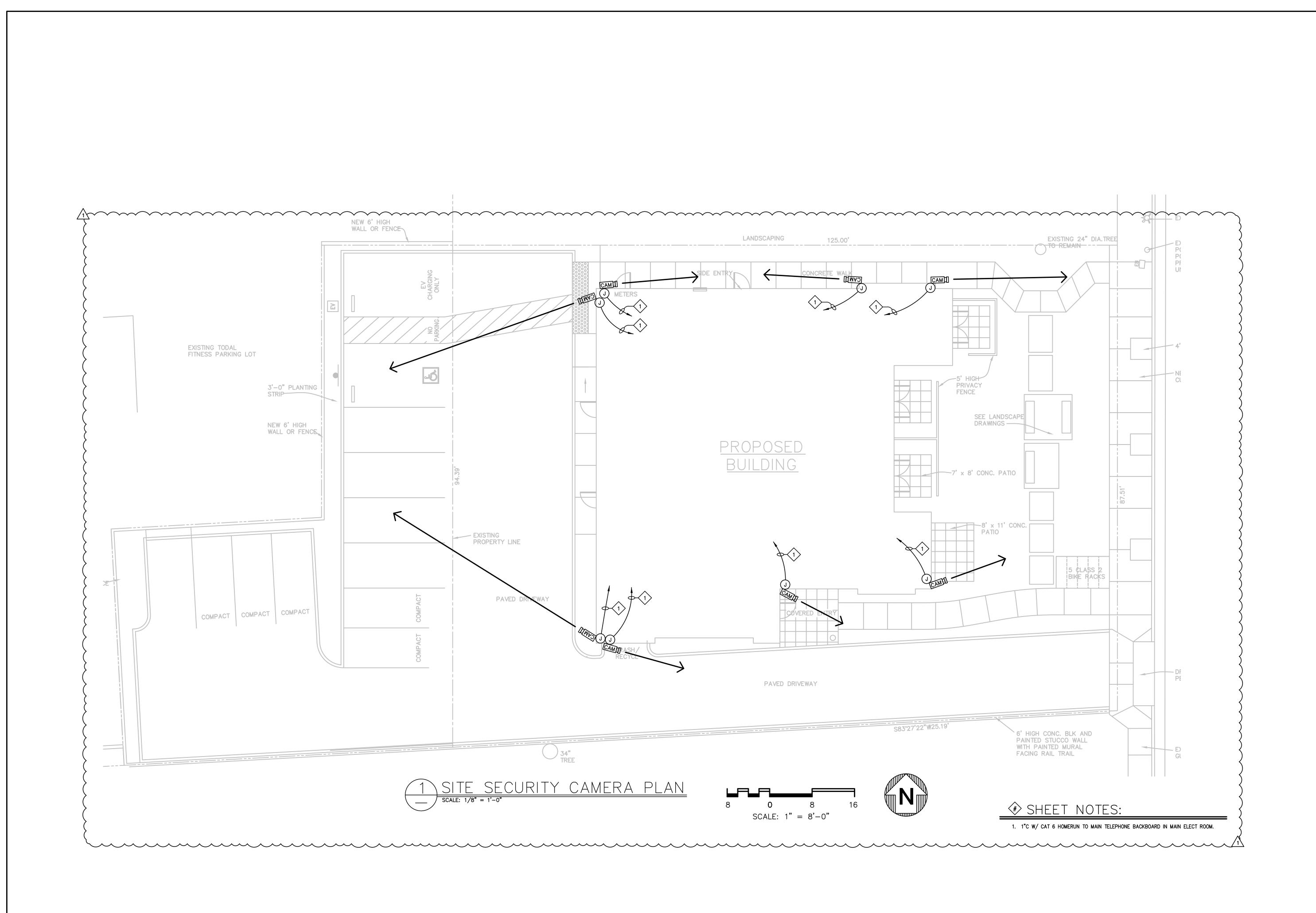
AFFORDABLE HOUSING

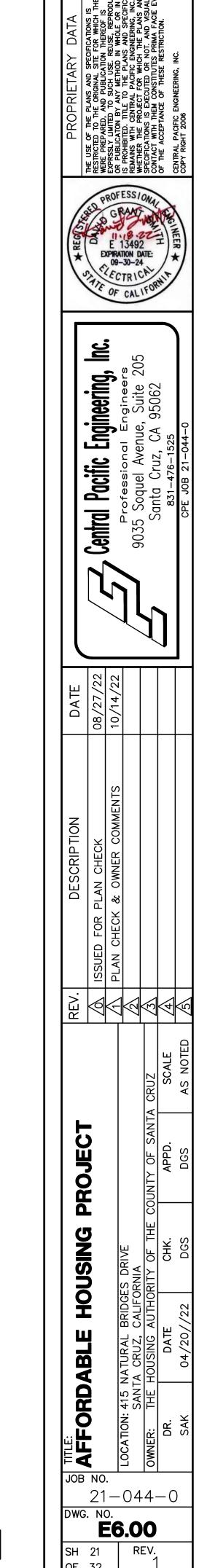
AFFORDABLE HOUSING

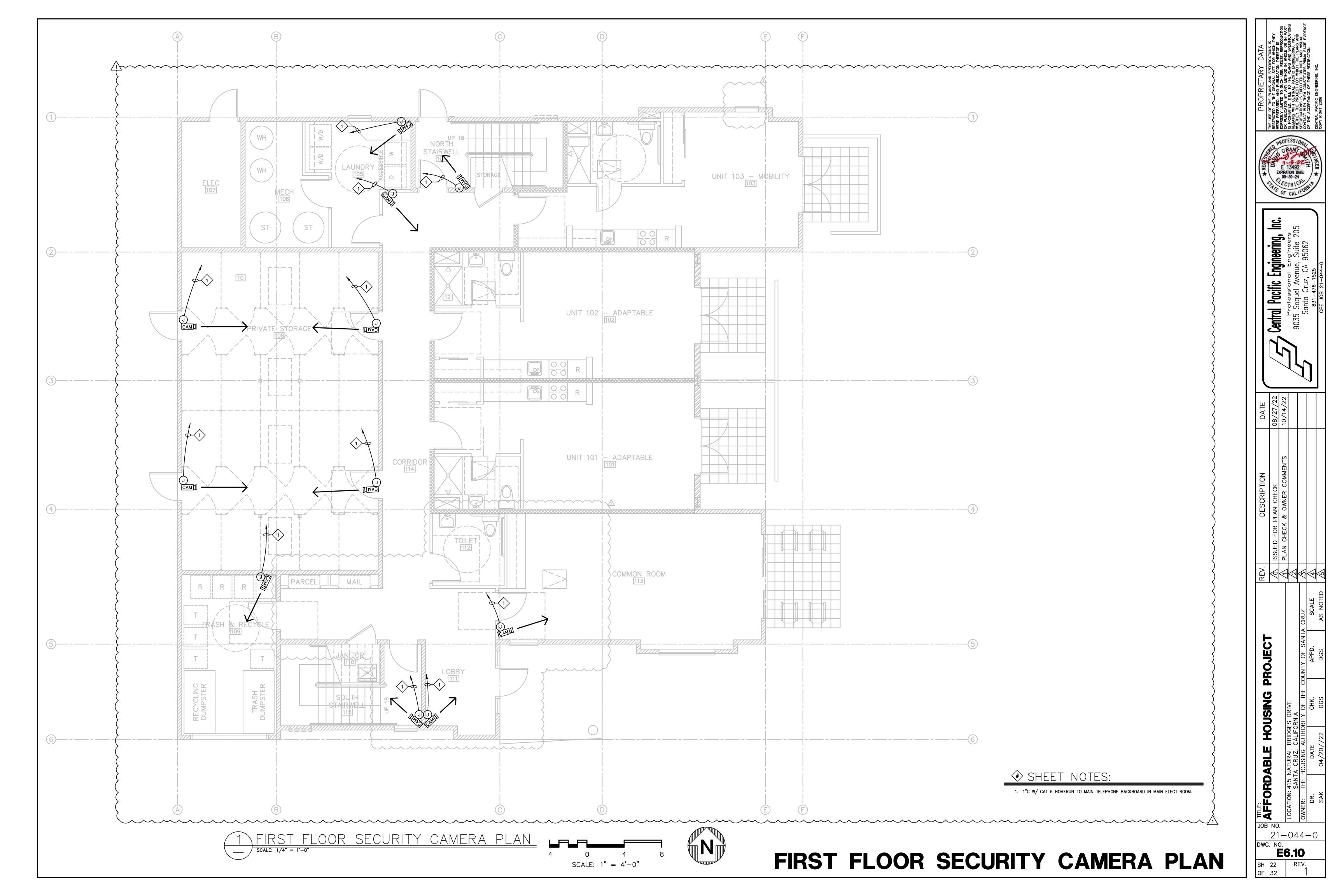
LOCATION: 415 NATURAL BRIDGES DRIVE
SANTA CRUZ, CALIFORNIA
OWNER: THE HOUSING AUTHORITY OF THE HOUSING AUT

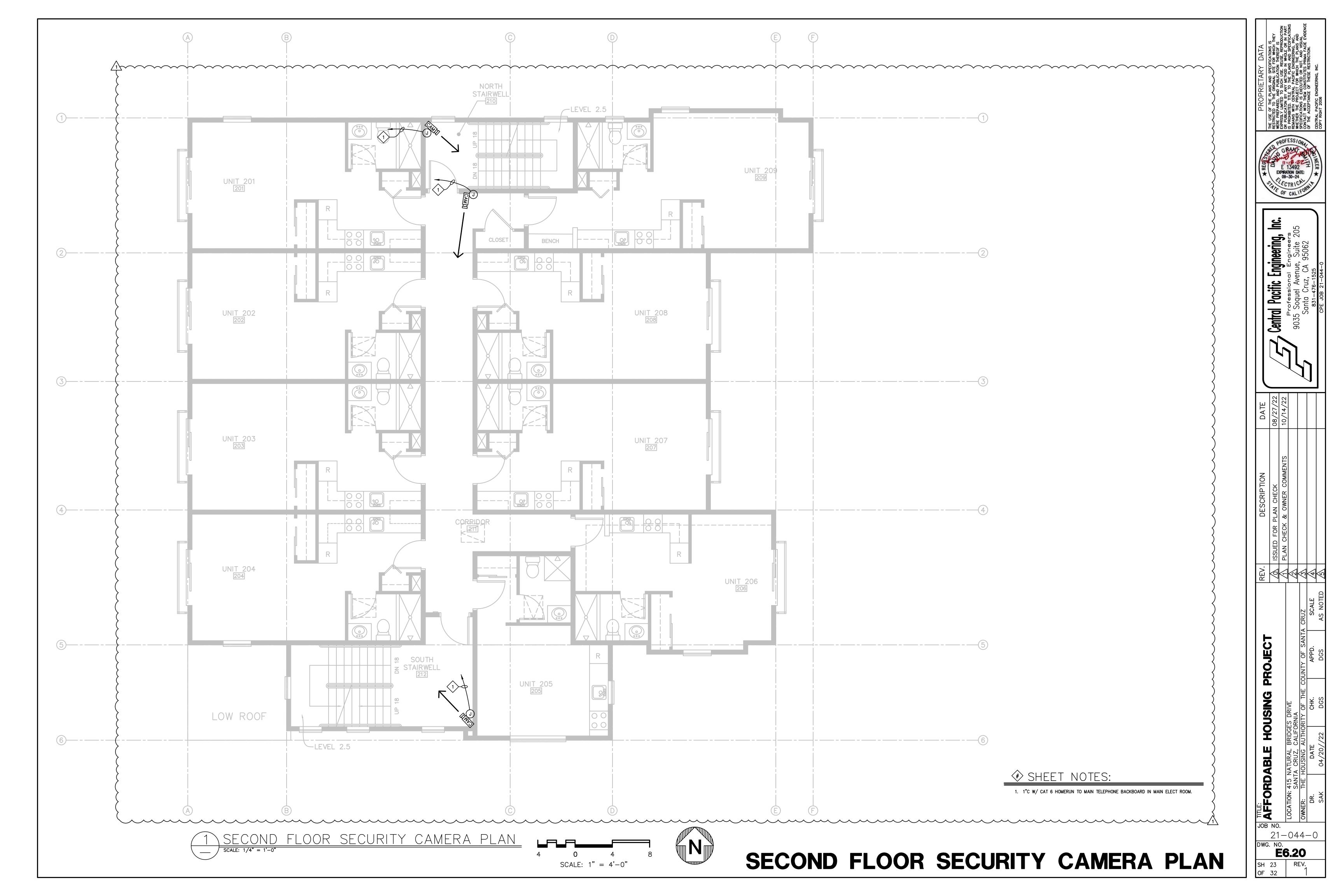
JOB NO. 21-044-0 DWG. NO. **E5.00**

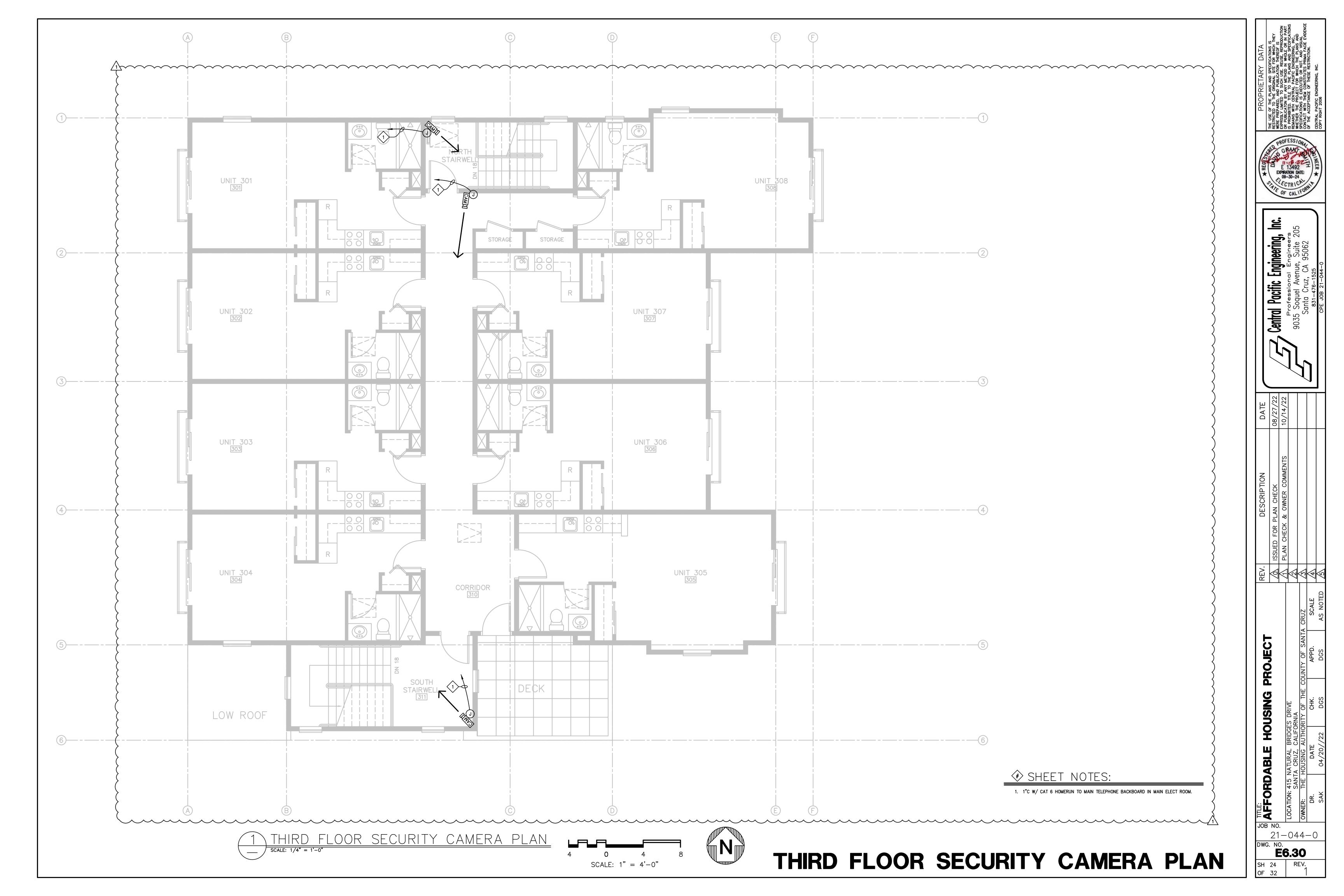
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BASIC ELECTRICAL REQUIREMENTS

PART 1 GENERAL

SECTION 260000

1.1 SECTION INCLUDES

- A. BASIC ELECTRICAL REQUIREMENTS SPECIFICALLY APPLICABLE TO DIVISION 16 SECTIONS, IN ADDITION TO DIVISION 1 -GENERAL REQUIREMENTS.
- B. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS TOOLS, TRANSPORTATION, EQUIPMENT, SERVICES AND FACILITIES REQUIRED FOR THE COMPLETE AND PROPER INSTALLATION OF ALL ELECTRICAL WORK SHOWN ON THE DRAWINGS AND/OR OUTLINED IN THESE SPECIFICATIONS. WORK SHALL INCLUDE ALL MATERIALS, APPLIANCES, AND APPARATUS NOT SPECIFICALLY MENTIONED HEREIN OR NOTED ON THE PLANS BUT NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION OF ALL ELECTRICAL SYSTEMS SHOWN OR DESCRIBED HEREIN.

A. INSTALL WORK IN STAGES DURING THE CONSTRUCTION PERIOD AND COORDINATE ELECTRICAL SCHEDULE AND OPERATIONS WITH OTHER CONTRACTORS DOING WORK OF VARIOUS TRADES EMPLOYED IN CONSTRUCTION OF THE BUILDING. REFER TO CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR DETAILS.

1.3 SUBMITTALS

A. SUBMITTAL PROCEDURES

- 1. SCHEDULE SUBMITTALS TO EXPEDITE THE PROJECT, AND DELIVER TO ARCHITECT/ENGINEER AT BUSINESS
- 2. IDENTIFY VARIATIONS FROM CONTRACT DOCUMENTS AND PRODUCT OR SYSTEM LIMITATIONS, THAT MAY BE DETRIMENTAL TO SUCCESSFUL PERFORMANCE OF THE COMPLETED WORK.
- SUBMITTALS SHALL BE MARKED AND / OR HIGHLIGHTED TO IDENTIFY SPECIFIC PRODUCTS BEING SUPPLIED AND/OR INSTALLED. THE MARKING SHALL MAKE REFERENCE TO REFERENCE TO THE CORRESPONDING EQUIPMENT THAT THE MATERIAL IS RELATED TO. EXAMPLE; A SUBMITTAL FOR DISCONNECT SWITCH WOULD HAVE THE MECHANICAL REFERENCE "EF-1", "SF-5" PLACED ON THE SUBMITTAL SHEET.

WHERE BEING SUPPLIED AND/OR INSTALLED ON THE PROJECT SUBMIT ON THE FOLLOWING ITEMS:

- A. GROUND ROD, GROUND CLAMPS B. OVERHEAD WIREWAY AND MOUNTING HARDWARE
- C. DISCONNECT SWITCHES D. MOTOR STARTERS
- E. COMBINATION MOTOR STARTER DISCONNECT SWITCHES
- F. FUSES G. PLUGS, SWITCHES AND COVER PLATES
- H. TRANSFORMERS
- WIRE PULLING LUBRICANT K. WIREMOLD RACEWAY, COVER PLATES, DEVICE
- M. CONDUIT FITTINGS, CONNECTORS AND COUPLINGS -WEATHERPROOF AND NON-WEATHERPROOF

MOUNTING HARDWARE, FITTINGS

- N. WIRENUTS O. COMPRESSION CONNECTORS FOR CONDUCTORS . WRAPPING MATERIALS AND TAPE
- Q. PANELS R. CIRCUIT BREAKERS
- S. ENCLOSED CIRCUIT BREAKERS
- U. STRUT, HANGERS, BRACKETS, MOUNTING

1.4 QUALITY CONTROL

- A. QUALITY ASSURANCE/CONTROL OF INSTALLATION
 - 1. MONITOR QUALITY CONTROL OVER SUPPLIERS MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS, AND WORKMANSHIP, TO PRODUCE WORK OF SPECIFIED QUALITY.
 - 2. COMPLY FULLY WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING EACH STEP IN SEQUENCE.
 - 3. COMPLY WITH SPECIFIED STANDARDS AS A MINIMUM QUALITY FOR THE WORK EXCEPT WHEN MORE STRINGENT TOLERANCES, CODES, OR SPECIFIED REQUIREMENTS INDICATE HIGHER STANDARDS OR MORE PRECISE WORKMANSHIP.

1.5 SAFETY AND INDEMNITY

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING, MAINTAINING AND SUPERVISING ALL NECESSARY SAFETY PRECAUTIONS WHICH WILL INSURE AGAINST INJURY TO PERSONS OR DAMAGE TO PROPERTY AS A RESULT OF ANY OF HIS WORK, TOOLS OR EQUIPMENT ON OR OFF THE PROJECT, BEFORE, DURING OR AFTER NORMAL WORKING HOURS. NO DRAWING REVIEW, CONSTRUCTION REVIEW OR ANY OTHER ACT OR SERVICE RENDERED BY THE OWNER ENGINEER THEIR EMPLOYEES OR CONSULTANTS SHALL BE CONSTRUED TO APPROVE OR JUDGE UPON THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
- B. THE CONTRACTOR SHALL HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, ENGINEER, THEIR EMPLOYEES AND CONSULTANTS FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO ARISE FROM THE PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, ENGINEER, THEIR EMPLOYEES OR CONSULTANTS

1.6 MATERIALS AND EQUIPMENT

A. PRODUCTS

- PRODUCTS: MEANS NEW MATERIAL, MACHINERY, COMPONENTS EQUIPMENT FIXTURES AND SYSTEMS FORMING THE WORK DOES NOT INCLUDE MACHINERY AND EQUIPMENT USED FOR PREPARATION, FABRICATION CONVEYING AND ERECTION OF THE WORK. PRODUCTS MAY ALSO INCLUDE EXISTING MATERIALS OR COMPONENTS REQUIRED FOR REUSE.
- DO NOT USE MATERIALS AND EQUIPMENT REMOVED FROM EXISTING PREMISES, EXCEPT AS SPECIFICALLY PERMITTED BY THE CONTRACT DOCUMENTS.

B. SUBSTITUTIONS

- THE ENGINEER WILL CONSIDER REQUESTS FOR SUBSTITUTIONS ONLY WITHIN 15 DAYS AFTER DATE OF OWNER-CONTRACTOR AGREEMENT
- 2. SUBSTITUTIONS MAY BE CONSIDERED WHEN A PRODUCT BECOMES UNAVAILABLE THROUGH NO FAULT OF THE
- 3. DOCUMENT EACH REQUEST WITH COMPLETE DATA SUBSTANTIATING COMPLIANCE OF PROPOSED SUBSTITUTION WITH CONTRACT DOCUMENTS. C. DELIVERY, STORAGE, AND HANDLING

DELIVER, STORE, PROTECT, AND HANDLE PRODUCTS TO

1.7 CONTRACT CLOSEOUT

A. CLOSEOUT PROCEDURES

- 1. SUBMIT WRITTEN CERTIFICATION THAT CONTRACT DOCUMENTS HAVE BEEN REVIEWED. WORK HAS BEEN INSPECTED, AND THAT WORK IS COMPLETE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND READY
- FOR ENGINEER'S INSPECTION 1 RECORD DRAWINGS: CONTRACTOR SHALL KEEP AN ACCURATE RECORD DURING CONSTRUCTION OF AS-BUILT CONDITIONS ON A SET OF CONTRACT DRAWINGS PROGRESS AS-BUILTS SHALL BE AVAILABLE FOR OWNER REVIEW WITH EACH SUBMISSION FOR PAYMENT APPLICATION. FINAL RED LINE RECORD DRAWING MARK-UPS SHALL BE SUBMITTED TO THE OWNER'S

- REPRESENTATIVE WITHIN 30 DAYS OF COMPLETION OF
- OPERATION & MAINTENANCE (O&M) MANUALS: AT COMPLETION OF PROJECT CONTRACTOR SHALL SUBMIT TO THE OWNER UP TO 4 COPIES (QTY TO BE VERIFIED WITH OWNER) OF O&M MANUALS WHICH SHALL INCLUDE:
- MFGR'S. O&M INSTRUCTIONS FOR ALL EQUIPMENT COPIES OF APPROVED SUBMITTAL DATA SHOWING
- EQUIPMENT SPECIFICATIONS, CAPACITIES, ETC. 11x17 (FOLDED) COPIES OF ALL SHOP DRAWINGS 11x17 (FOLDED) COPIES OF CONTRACT RECORD
- ALL O&M MANUALS SHALL BE INDEXED & BOUND IN 3 RING BINDERS WITH CLEAR LABELING & TABBED DIVIDERS. THOROUGHLY INSTRUCTED IN THE USE AND MAINTENANCE OF THE ELECTRICAL SYSTEM EQUIPMENT, LIGHT FIXTURE, LIGHTING CONTROLS, AND COMMUNICATION SYSTEMS BY MANUFACTURES AUTHORIZED DISTRIBUTOR PERSONNEL OR OWNER APPROVED EQUAL. THE INSTRUCTION TO THE STAFF

SHALL INCLUDE HANDS ON DEMONSTRATION OF THE

AND INCLUDED REQUIRED MAINTENANCE TASKS AND

VARIOUS FUNCTIONS & OPERATIONS OF THE SYSTEMS

INSTRUCTIONS. TRAINING SHALL INCLUDE A MINIMUM OF

A. FINAL CLEANING

- EXECUTE FINAL CLEANING PRIOR TO FINAL INSPECTION.
- CLEAN EQUIPMENT AND FIXTURES TO A SANITARY 3. REMOVE WASTE AND SURPLUS MATERIALS, RUBBISH, AND
- CONSTRUCTION FACILITIES FROM THE SITE. 1.8 REGULATORY REQUIREMENTS
- A. CONFORM TO APPLICABLE UNIFORM BUILDING CODE.

EIGHT (8) HOURS.

- CONFORM TO LOCAL ORDINANCES AND REGULATIONS. D. OBTAIN PERMITS, AND REQUEST INSPECTIONS FROM AUTHORITY
- E. FURNISH PRODUCTS LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES, INC. AND TESTING FIRM ACCEPTABLE TO AUTHORITY HAVING JURISDICTION AS SUITABLE FOR PURPOSE SPECIFIED AND SHOWN.
- F. SHOULD THERE BE ANY CONFLICTS BETWEEN THE DRAWINGS, SPECIFICATIONS, OR REGULATORY REQUIREMENTS; THE MOST STRINGENT CONDITION SHALL GOVERN, UNLESS APPROVED BY
- G. FURNISH WITHOUT EXTRA CHARGE ADDITIONAL MATERIALS AND LABOR WHICH MAY BE REQUIRED FOR COMPLIANCE WITH THESE LAWS, RULES AND REGULATIONS EVEN THOUGH THE WORK IS NOT MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE

1.9 PROJECT/SITE CONDITIONS

- A. INSTALL WORK IN LOCATIONS SHOWN ON DRAWINGS, UNLESS PREVENTED BY PROJECT CONDITIONS.
- B. PREPARE DRAWINGS SHOWING PROPOSED REARRANGEMENT OF WORK TO MEET PROJECT CONDITIONS, INCLUDING CHANGES TO WORK SPECIFIED IN OTHER SECTIONS. OBTAIN PERMISSION OF ENGINEER BEFORE PROCEEDING

- A. MINIMUM SIZE: 1/2 INCH UNLESS OTHERWISE SPECIFIED.
- B. UNDERGROUND INSTALLATIONS:
- USE PVC SCH 40 NONMETALLIC CONDUIT.
- MINIMUM SIZE: 3/4 INCH.
- C. OUTDOOR LOCATIONS, ABOVE GRADE:
- EXPOSED: USE RIGID GALVANIZED STEEL CONDUIT CONCEALED: USE PVC SCH 40 NONMETALLIC CONDUIT.
- USE PVC SCH 40 NONMETALLIC CONDUIT.
- NDUIT IN SLAB: 3/4 INCH, UNLESS OTHERWISE SPECIFIED.
- 3. MAXIMUM SIZE CONDUIT IN SLAB: 1 INCH, UNLESS OTHERWISE SPECIFIED.
- E. WET AND DAMP LOCATIONS:
 - EXPOSED: USE RIGID GALVANIZED STEEL CONDUIT.
- CONCEALED: USE PVC SCH 40 NONMETALLIC CONDUIT. F. INDOOR DRY LOCATIONS:
 - 1. CONCEALED: USE RIGID GALVANIZED STEEL CONDUIT, LECTRICAL METALLIC TUBING, PVC SCH 40 NONMETALLIC
 - 2. EXPOSED: USE RIGID GALVANIZED STEEL CONDUIT, AND

ELECTRICAL METALLIC TUBING. 2.2 BUILDING WIRE AND CABLE

- A. DESCRIPTION: SINGLE CONDUCTOR INSULATED STRANDED WIRE. CONDUCTOR: COPPER.
 - INSULATION VOLTAGE RATING: 600 VOLTS.
 - 3. INSULATION: ANSI/NFPA 70, TYPE THHN/THWN. 4. SIZE: 12 AWG. MINIMUM UNLESS OTHERWISE NOTED.
- B. DESCRIPTION: NON-METALLIC SHEATHED CABLE ("ROMEX"). CONDUCTOR: COPPER

 - INSULATION VOLTAGE RATING: 600 VOLTS. INSULATION: ANSI/NFPA 70, TYPE NMC

4. SIZE: 12 AWG. MINIMUM UNLESS OTHERWISE NOTED.

- C. DESCRIPTION: FLEXIBLE METAL CLAD CABLE "MC"
 - CONDUCTOR: SOLID/ STRANDED COPPER.
 - VOLTAGE RATING: 600 VOLTS.
 - TEMPERATURE RATING: 90 DEGREE C. (DRY) CONDUCTOR INSULATION: ANSI/NFPA 70, TYPE
 - 5. CONDUCTOR SIZE: 12 AWG. WITH 10 AWG NEU. FOR
 - SHARED NEUTRAL MINIMUM UNLESS OTHERWISE NOTED. ASSEMBLY COVERING: MYLAR TYPE

7. ARMOR: GALVANIZED OR ALUMINUM STEEL

D. DESCRIPTION: TELCOM CABLE CAT 6

1. CONDUCTOR: UTP CABLE SHALL BE 4-PAIR, 23 AWG, SOLID CONDUCTOR UL LISTED OFNP (OPTICAL FIBER NONCONDUCTIVE RISER) CABLING THAT MEETS ANSI/TIA-568 CATEGORY 6 CABLE, TO INCLUDE ALL CURRENT ADDENDUMS AND BULLETINS AND SHALL MEET SPECIFIED SPECIFICATIONS AND PERFORMANCE REQUIREMENTS. USE BERK-TEK LANMARK-6 CMP, BLUE.

E. DESCRIPTION: RG-11 CABLE

1. CONDUCTOR: 75 OHM SDI COAX, RG-11, 14 AWG SOLID BARE COPPER CONDUCTOR, PE INSULATION, FOIL + 95% TINNED COPPER BRAID SHIELD, LSZH JACKET, CMG-LS, SHIPBOARD ABS TYPE APPROVED

2.3 OUTLET BOXES

- A. SHEET METAL OUTLET BOXES: ANSI/NEMA OS 1, GALVANIZED
- 1. LUMINAIRE AND EQUIPMENT SUPPORTING BOXES: RATED FOR WEIGHT OF EQUIPMENT SUPPORTED. B. NONMETALLIC OUTLET BOXES: ANSI/NEMA OS 2.
- C. CAST BOXES: NEMA FB 1, TYPE FD, GALVANIZED STEEL. PROVIDE GASKETED COVER By BOX MANUFACTURER. PROVIDE THREADED

2.4 PULL AND JUNCTION BOXES

- A. SHEET METAL BOXES: NEMA OS 1, GALVANIZED STEEL
- B. SURFACE-MOUNTED CAST METAL BOX: NEMA 250, TYPE 4; FLAT-FLANGED, SURFACE-MOUNTED JUNCTION BOX.
- MATERIAL: CAST GALVANIZED STEEL
 - COVER: FURNISH WITH GROUND FLANGE, NEOPRENE GASKET, AND STAINLESS STEEL COVER SCREWS.

2.5 WALL SWITCHES

A. MANUFACTURERS:

- LEVITON: SPECIFICATION GRADE.
- B. DESCRIPTION: HEAVY-DUTY, AC ONLY GENERAL-USE SWITCH. C. DEVICE BODY: WHITE PLASTIC WITH ("DECORA") HANDLE.
- D. VOLTAGE RATING: 120-277 VOLTS, AC.

E. CURRENT RATING: 20 AMPERES.

- LEVITON; SPECIFICATION GRADE.
- B. DESCRIPTION: HEAVY-DUTY, RECEPTACLE COMMERCIAL UNITS C. DEVICE BODY: WHITE PLASTIC.; DECORA STYLE
- D. CONFIGURATION: TYPE AS SPECIFIED AND INDICATED
- E. CONVENIENCE RECEPTACLE: TYPE 5-20R. F. GFCI RECEPTACLE: CONVENIENCE RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER TO MEET REGULATORY REQUIREMENTS, WITH LED STATUS INDICATOR LIGHT

A. DECORATIVE COVER PLATE: WHITE SMOOTH, NYLON, DECORA

2.6 RECEPTACLES

B. WEATHERPROOF COVER PLATE: GASKETED IN USE TYPE WITH

METAL HINGED GASKETED DEVICE COVER.

2.8 CORDS AND CAPS

- A. MANUFACTURERS: APPLETON
 - HUBBELL SLATER
- ARROW-HART B. ATTACHMENT PLUG CONSTRUCTION: CONFORM TO NEMA.
- C. CONFIGURATION: MATCH RECEPTACLE CONFIGURATION AT
- D. CORD CONSTRUCTION: MULTICONDUCTOR FLEXIBLE CORD WITH IDENTIFIED EQUIPMENT GROUNDING CONDUCTOR, SUITABLE FOR
- USE IN DAMP LOCATIONS. E. SIZE: SUITABLE FOR CONNECTED LOAD OF EQUIPMENT, LENGTH OF CORD, AND RATING OF BRANCH CIRCUIT OVERCURRENT

2.9 SUPPORTING DEVICES

- A. MATERIALS AND FINISHES: PROVIDE ADEQUATE CORROSION
- B. PROVIDE MATERIALS, SIZES, AND TYPES OF ANCHORS, FASTENERS AND SUPPORTS TO CARRY THE LOADS OF EQUIPMENT AND CONDUIT. CONSIDER WEIGHT OF WIRE IN CONDUIT WHEN SELECTING PRODUCTS.
- C. ANCHORS AND FASTENERS: CONCRETE STRUCTURAL ELEMENTS: USE PRECAST INSERT SYSTEM EXPANSION ANCHORS POWDER
 - ACTUATED ANCHORS AND PRESET INSERTS. 2. CONCRETE SURFACES: USE SELF-DRILLING ANCHORS AND EXPANSION ANCHORS.
 - HOLLOW MASONRY, PLASTER, AND GYPSUM BOARD PARTITIONS: USE TOGGLE BOLTS AND HOLLOW WALL FASTENERS.
 - 4. SOLID MASONRY WALLS: USE EXPANSION ANCHORS AND PRESET INSERTS.
 - SHEET METAL: USE SHEET METAL SCREWS. WOOD ELEMENTS: USE WOOD SCREWS.

NAMEPLATES AND LABELS A. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC.

- WHITE LETTERS ON BLACK BACKGROUND.
- EACH ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT ENCLOSURE.
- USE 1/4 INCH (6 MM) LETTERS FOR IDENTIFYING INDIVIDUAL EQUIPMENT AND LOADS D. LABELS: EMBOSSED ADHESIVE TAPE, WITH 3/16 INCH (5 MM) WHITE LETTERS ON BLACK BACKGROUND. USE ONLY FOR

IDENTIFICATION OF INDIVIDUAL WALL SWITCHES AND RECEPTACLES

- 2.11 WIRE MARKERS A. DESCRIPTION: CLOTH, TAPE, SPLIT SLEEVE, OR TUBING TYPE WIRE
 - B. LOCATIONS: EACH CONDUCTOR AT PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND EACH LOAD CONNECTION.

C. LEGEND:

- POWER AND LIGHTING CIRCUITS: BRANCH CIRCUIT OR
- FEEDER NUMBER INDICATED ON DRAWINGS. CONTROL CIRCUITS: CONTROL WIRE NUMBER INDICATED

ON SCHEMATIC AND INTERCONNECTION DIAGRAMS ON DRAWINGS/ SHOP DRAWINGS. 2.12 PANELBOARDS/LOADCENTERS (AS SCHEDULED)

- A. MANUFACTURE:
 - SQUARE "D" CUTLER-HAMMER
 - SIEMENS GENERAL ELECTRIC.
- B. ENCLOSURE: GENERAL PURPOSE, NEMA 1; UNLESS OTHERWISE
- C. PROVIDE FLUSH/SURFACE (AS SCHEDULED) BOX, AND LATCH ON
- DOOR. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL. D. PROVIDE BUS RATINGS AND MATERIALS AS SCHEDULED.
- E. MINIMUM INTEGRATED SHORT CIRCUIT RATING: 10,000 AMPERES RMS SYMMETRICAL. F. MOLDED CASE CIRCUIT BREAKERS: BOLT-ON/PLUG-ON (AS

SCHEDULED) TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS,

WITH COMMON TRIP HANDLE FOR ALL POLES. PROVIDE UL CLASS A

GROUND FAULT INTERRUPTER CIRCUIT BREAKERS WHERE

G. DO NOT USE TANDEM CIRCUIT BREAKERS.

2.13 LUMINAIRES

- A. FURNISH PRODUCTS AS SPECIFIED IN SCHEDULE ON DRAWINGS. B. SUBSTITUTIONS: UNDER PROVISIONS OF THE CONTRACT.
- C. INSTALL DRIVERS, LEDS, AND SPECIFIED ACCESSORIES AT
- D. SPECIFY AN IN-LINE DISCONNECT TO MEET NEC. FURTHER REQUIRE THAT THE LIGHTING MANUFACTURER PROVIDE A "WIRE NUT" CONNECTION ON THE LOAD SIDE OF THE DISCONNECT TO FACILITATE LIGHT FIXTURE SERVICING.
- E. COLOR TEMPERATURE & CRI: U.O.N. 3500K, CRI ≥ 80.
- F. LED DRIVERS SHALL HAVE THE FOLLOWING CHARACTERISTICS (UNLESS APPROVED BY ENGINEER):
- MAXIMUM DRIVE CURRENT: 350MA 2. MINIMUM EFFICIENCY: 85% 3. OPERATING TEMPERATURE RANGE: -40°C TO 50°C.
- 4. MINIMUM RATED LIFE: 50,000 HOURS. 5. DIMMING RANGE: 100% TO 10% 6. UL CLASS I OR II OUTPUT. POWER FACTOR: 90%.
- 8. TOTAL HARMONIC DISTORTION: 20%. 9. COMPLY WITH FCC 47 CFR PART 15 NON-CONSUMER RFI/EMI
- G. ACCESSORIES: PROVIDE LUMINAIRE ACCESSORIES AS INDICATED.

2.14 ENCLOSED SWITCHES

- A. FUSIBLE SWITCH ASSEMBLIES: NEMA 1 INDOOR, NEMA 3R OUTDOOR, TYPE HD (HEAVY DUTY) LOAD INTERRUPTER ENCLOSED KNIFE SWITCH WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION. HANDLE LOCKABLE IN OFF POSITION. FUSE CLIPS:
- B. NONFUSIBLE SWITCH ASSEMBLIES: NEMA 1- INDOOR, NEMA 3R -OUTDOOR, TYPE HD LOAD INTERRUPTER ENCLOSED KNIFE SWITCH WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION. HANDLE LOCKABLE IN OFF POSITION.

DESIGNED TO ACCOMMODATE CLASS R FUSES

- A. MANUFACTURERS
- GOULD SCHAWMUT
- B. DESCRIPTION: DUAL ELEMENT, CURRENT LIMITING, ONE-TIME FUSE, 250 OR 600 VOLT AS APPLICATION REQUIRES.
- C. INTERRUPTING RATING: 200,000 RMS AMPERES.

PART 3 EXECUTION

- INSTALL CONDUIT IN ACCORDANCE WITH NECA "STANDARD OF

C. ROUTE CONDUIT PARALLEL AND PERPENDICULAR TO WALLS.

- B. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND PRESENT NEAT
- D. MAINTAIN 12 INCH (300 MM) CLEARANCE BETWEEN CONDUIT AND SURFACES WITH TEMPERATURES EXCEEDING 104 DEGREES F (40
- E. CUT CONDUIT SQUARE USING SAW OR PIPECUTTER; DE-BURR CUT F. BRING CONDUIT TO SHOULDER OF FITTINGS; FASTEN SECURELY. G. JOIN NON-METALLIC CONDUIT USING CEMENT AS RECOMMENDED
- CLEAN BEFORE JOINING. APPLY FULL EVEN COAT OF CEMENT TO ENTIRE AREA INSERTED IN FITTING. ALLOW JOINT TO CURE FOR 20 H. USE CONDUIT HUBS OR SEALING LOCKNUTS TO FASTEN CONDUIT

BY MANUFACTURER. WIPE NONMETALLIC CONDUIT DRY AND

TO SHEET METAL BOXES IN DAMP AND WET LOCATIONS AND TO I. INSTALL NO MORE THAN EQUIVALENT OF THREE 90-DEGREE BENDS BETWEEN BOXES. USE CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS. USE HYDRAULIO

ONE-SHOT BENDER TO FABRICATE FACTORY ELBOWS FOR BENDS IN METAL CONDUIT LARGER THAN 2 INCH (50 MM) SIZE.

- 3.2 BUILDING WIRE & CABLE A. PULL ALL CONDUCTORS INTO RACEWAY AT SAME TIME.
 - B. USE SUITABLE WIRE PULLING LUBRICANT FOR BUILDING WIRE. C. USE SUITABLE CABLE FITTINGS AND CONNECTORS.
 - D. NEATLY TRAIN AND LACE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.
 - E. CLEAN CONDUCTOR SURFACES BEFORE INSTALLING LUGS AND F. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITH NO PERCEPTIBLE TEMPERATURE
 - G. USE COMPRESSION CONNECTORS FOR COPPER CONDUCTOR SPLICES AND TAPS, 8 AWG AND LARGER. TAPE UNINSULATED CONDUCTORS AND CONNECTOR WITH ELECTRICAL TAPE TO 150 PERCENT OF INSULATION RATING OF CONDUCTOR.

H. USE INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS

FOR COPPER CONDUCTOR SPLICES AND TAPS, 10 AWG AND I. UNLESS OTHERWISE NOTED BRANCH CIRCUIT WIRING MAXIMUM 50 AMPS, MAY BE "ROMEX" OR FLEXIBLE METAL CLAD CABLE "MC" WHERE CONCEALED IN WOOD FRAMED SPACES,

FRAMED SPACES MAY BE RUN WITHOUT CONDUIT.

LIGHTING CONTROL CAT 5E WIRING WHERE CONCEALED IN WOOD

ALL OTHER LOW-VOLTAGE WIRING INCLUDING TELCOM & CABLE

WIRING, SHALL BE INSTALLED IN CONDUIT.

3.3 BOXES A INSTALL FLECTRICAL BOXES AS SHOWN ON DRAWINGS AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT

CONNECTIONS AND COMPLIANCE WITH REGULATORY

- REQUIREMENTS B. INSTALL ELECTRICAL BOXES TO MAINTAIN HEADROOM AND TO
- PRESENT NEAT MECHANICAL APPEARANCE. C. INSTALL BOXES TO PRESERVE FIRE RESISTANCE RATING OF PARTITIONS AND OTHER ELEMENTS, USING MATERIALS AND

METHODS UNDER THE PROVISIONS IN THE SPECIFICATIONS

- D. SUPPORT BOXES INDEPENDENTLY OF CONDUIT EXCEPT CAST BOX THAT IS CONNECTED TO TWO RIGID METAL CONDUITS BOTH SUPPORTED WITHIN 12 INCHES (300 MM) OF BOX.
- E. USE GANG BOX WHERE MORE THAN ONE DEVICE IS MOUNTED TOGETHER. DO NOT USE SECTIONAL BOX. F. USE GANG BOX WITH PLASTER RING FOR SINGLE DEVICE OUTLETS.

G. USE CAST OUTLET BOX IN EXTERIOR LOCATIONS EXPOSED TO THE WEATHER AND WET LOCATIONS

- 3.4 WIRING DEVICES A. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S
 - INSTRUCTIONS. B. INSTALL DEVICES PLUMB AND LEVEL.

C. INSTALL SWITCHES WITH OFF POSITION DOWN.

D. INSTALL RECEPTACLES WITH GROUNDING POLE ON BOTTOM. E. CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BONDING JUMPER AND BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR WHEN INSTALLED PER DRAWINGS.

F. CONNECT WIRING DEVICES BY WRAPPING CONDUCTOR AROUND

SCREW TERMINAL G. COORDINATE LOCATIONS OF OUTLET BOXES TO OBTAIN MOUNTING HEIGHTS SPECIFIED AND INDICATED ON DRAWINGS.

- H. INSTALL WALL SWITCH 46 INCHES (1.2 M) ABOVE FINISHED FLOOR,
- I. INSTALL CONVENIENCE RECEPTACLE 15 INCHES (381 MM) ABOVE
- J. INSTALL CONVENIENCE RECEPTACLE 6 INCHES (153 MM) ABOVE

3.5 EQUIPMENT WIRING AND SYSTEMS

A. MAKE ELECTRICAL CONNECTIONS IN ACCORDANCE WITH

CONNECTORS IN DAMP OR WET LOCATIONS.

- EQUIPMENT MANUFACTURER'S INSTRUCTIONS. B. MAKE CONDUIT CONNECTIONS TO EQUIPMENT USING FLEXIBLE CONDUIT. USE LIQUIDTIGHT FLEXIBLE CONDUIT WITH WATERTIGHT
- C. MAKE WIRING CONNECTIONS USING WIRE AND CABLE WITH INSULATION SUITABLE FOR TEMPERATURES ENCOUNTERED IN HEAT PRODUCING EQUIPMENT.
- D. INSTALL DISCONNECT SWITCHES, CONTROLLERS, CONTROL
- STATIONS, AND CONTROL DEVICES AS INDICATED.
- F. PROVIDE INTERCONNECTING CONDUIT AND WIRING BETWEEN DEVICES AND EQUIPMENT WHERE INDICATED.

- WITH NECA "STANDARD OF INSTALLATION". C. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL

DRILLING OR CUTTING STRUCTURAL MEMBERS.

- 3.7 ELECTRICAL IDENTIFICATION
 - B. INSTALL NAMEPLATE AND LABEL PARALLEL TO EQUIPMENT LINES.

- A. INSTALL PLUMB AND FLUSH WITH WALL FINISHES, IN
 - CONFORMANCE WITH NEMA PB 1.1.
- D. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD/LOADCENTER. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES REQUIRED TO BALANCE PHASE LOADS.
- BETWEEN PHASES EXCEED 20 PERCENT, REARRANGE CIRCUITS IN THE PANELBOARD/LOADCENTER TO BALANCE THE PHASE LOADS WITHIN 20 PERCENT. TAKE CARE TO MAINTAIN PROPER PHASING FOR MULTI-WIRE BRANCH CIRCUITS.

DAMAGE, PROPER ALIGNMENT, ANCHORAGE, AND GROUNDING

F. VISUAL AND MECHANICAL INSPECTION: INSPECT FOR PHYSICAL

FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES, AND FUSES.

B. INSTALL SURFACE MOUNTED LUMINAIRES AND PLUMB AND ADJUST TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE

C. INSTALL WALL MOUNTED LUMINAIRES, AT HEIGHT AS INDICATED ON

E. CLEAN ELECTRICAL PARTS TO REMOVE CONDUCTIVE AND

F. REMOVE DIRT AND DEBRIS FROM ENCLOSURE. G. CLEAN PHOTOMETRIC CONTROL SURFACES AS RECOMMENDED BY

MANUFACTURER.

A. INSTALL DISCONNECT SWITCHES WHERE INDICATED.

- UNLESS OTHERWISE NOTED.
- FINISHED FLOOR, UNLESS OTHERWISE NOTED.
- COUNTER, UNLESS OTHERWISE NOTED.

- E. MODIFY EQUIPMENT CONTROL WIRING WITH TERMINAL BLOCK JUMPERS AS INDICATED.

3.6 SUPPORTING DEVICES

- A. INSTALL PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S
- INSTRUCTIONS B. PROVIDE ANCHORS, FASTENERS, AND SUPPORTS IN ACCORDANCE
- EQUIPMENT, AND CONDUIT. D. OBTAIN PERMISSION FROM ARCHITECT/ENGINEER BEFORE

- A. DEGREASE AND CLEAN SURFACES TO RECEIVE NAMEPLATES AND
- C. SECURE NAMEPLATE TO EQUIPMENT FRONT USING SCREWS, OR

- 3.8 PANELBOARDS/LOADCENTERS (AS SCHEDULED)
 - B. HEIGHT: 6 FT (2 M), TO TOP OF BOX. C. PROVIDE FILLER PLATES FOR UNUSED SPACES.
 - E. MEASURE STEADY STATE LOAD CURRENTS AT EACH PANELBOARD/LOADCENTERS FEEDER. SHOULD THE DIFFERENCE

CHECK PROPER INSTALLATION AND TIGHTNESS OF CONNECTIONS

- A. INSTALL IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- D. INSTALL SPECIFIED LAMPS / LED COLOR, OUTPUT AND DRIVERS IN

H. CLEAN FINISHES AND TOUCH UP DAMAGE.

TO PROHIBIT MOVEMENT.

3.10 ENCLOSED SWITCHES

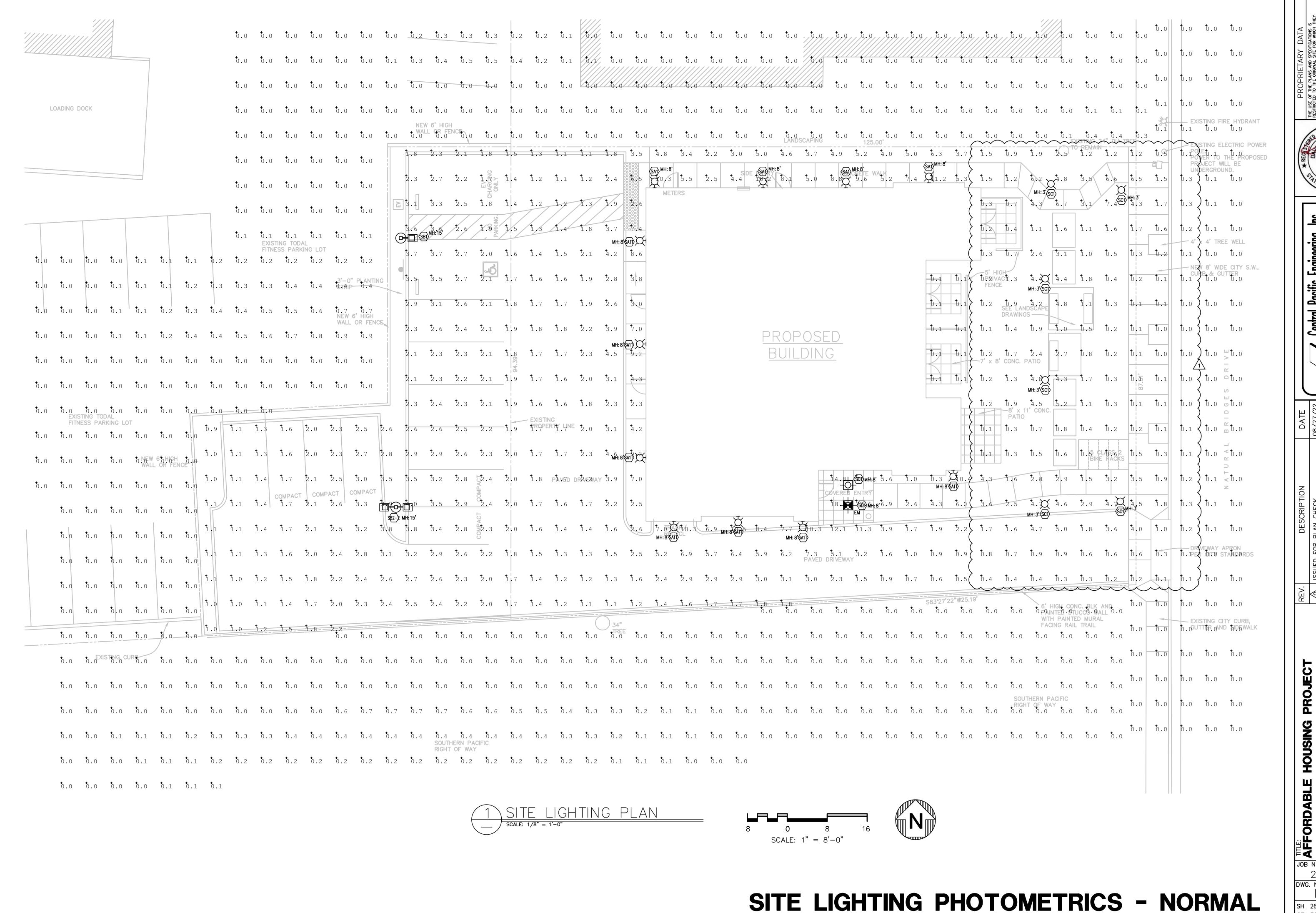
B. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES. C. PROVIDE ADHESIVE LABEL ON INSIDE DOOR OF EACH SWITCH INDICATING UL FUSE CLASS AND SIZE FOR REPLACEMENT.

ELECTRICAL SPECIFICATIONS

Pacific

Central

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Avenue, Suite 205

uz, CA 95062

Central Pacific Engineering

Professional Engineering

9035 Soquel Avenue, Suite
Santa Cruz, CA 95062

FORDABLE HOUSING PROJECT

TION: 415 NATURAL BRIDGES DRIVE
SANTA CRUZ, CALIFORNIA
SER: THE HOUSING AUTHORITY OF THE COUNTY OF SANTA CRUZ

THE HOUSING AUTHORITY OF THE COUNTY OF SANTA CRUZ

TO THE HOUSING AUTHORITY OF THE COUNTY OF SANTA CRUZ

TO THE HOUSING AUTHORITY OF THE COUNTY OF SANTA CRUZ

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