ELECTRICAL SCOPE OF WORK

PROPOSED ELECTRICAL SERVICE UPGRADE OF AN EXSITNG SINGLE STORY COMMERCIAL STRUCTURE OF APPROXIMATELY 4,500 SF WITH ON GRADE PARKING. AN **EXPANSION FOR DORMITORIES IS PROPOSED** INCREASING THE NEW BUILDING TOTAL TO 4,825 SF.

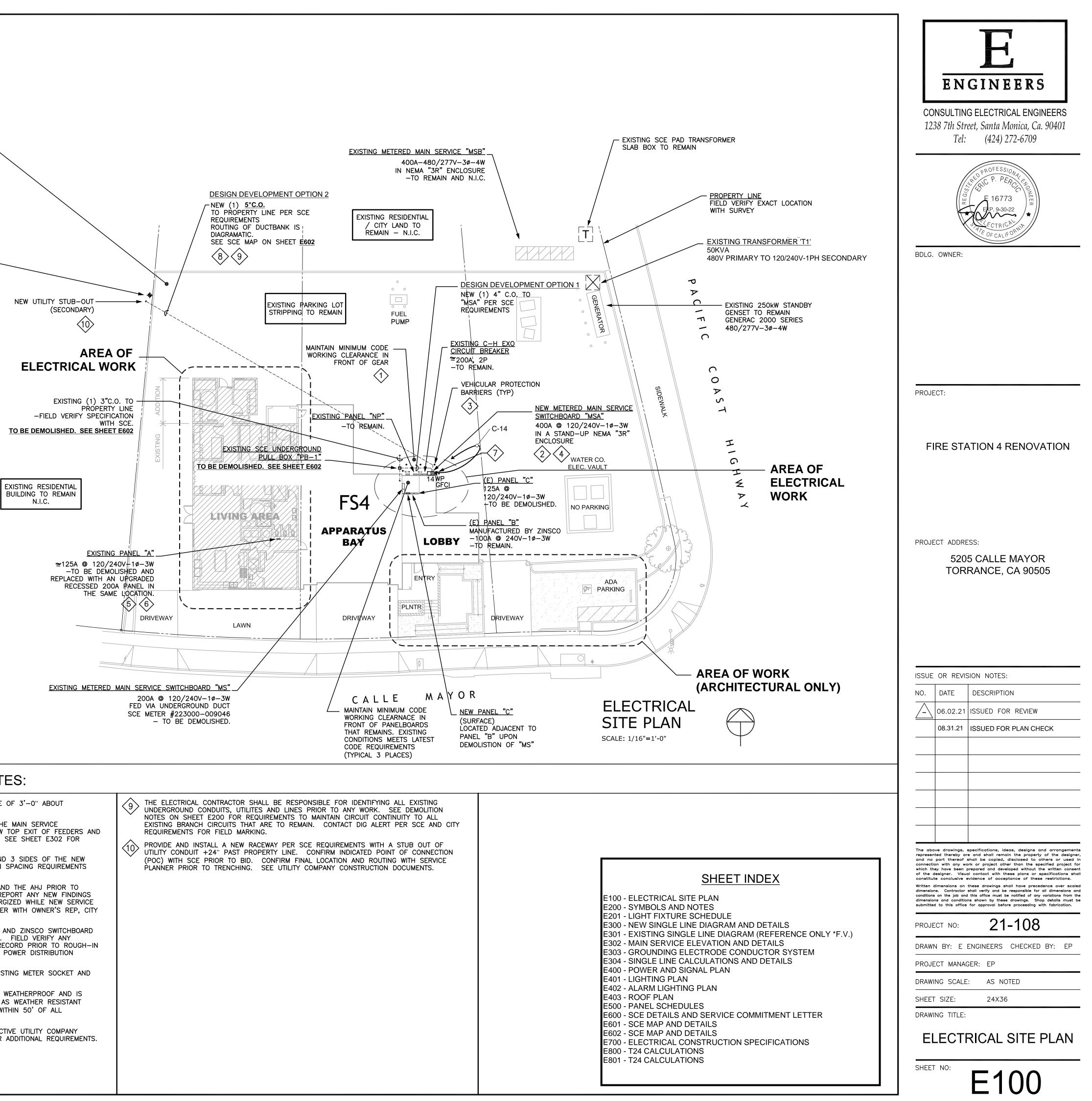
THE EXISTING STANDBY GENERATOR SET SYSTEM SHALL REMAIN. SPARE CAPACITY IS AVAILABLE FOR THE MINOR INCREASE IN CONNECTED LOADS.

THE EXISTING MANUAL OFF-SITE GENERATOR SET SYSTEM SHALL RAMIN AND BE SIZED TO INCLUDE NEW AND EXISTING MECHANICAL SYSTEM LOADS.

> EXISTING UTILITY POLE #1035856E EQUIPPED WITH 1 BUCKET STYLE TRANSFORMER FEEDS 'MS' VIA UNDERGROUND CONDUIT (TO BE VERIFIED) - TO REMAIN AND SERVICE TO BE REDESIGNED.

> > -TO REMAIN ANS SERVICE TO BE REDESIGNED

		SITE PLAN REFERENCE NOT
		MAINTAIN MINIMUM CODE REQUIRED WORKING SPACE CLEARANCI ELECTRICAL EQUIPMENT PER NEC ARTICLE 110.26.
	UTILITY SERVICE COORDINATION	 PROVIDE AND INSTALL A CONCRETE HOUSEKEEPING PAD FOR T SWITCHGEAR. HEIGHT OF PAD TO BE FIELD VERIFIED TO ALLOW BRANCH CIRCUITS AND MEET ALL NEC 110.26 REQUIREMENTS. DETAILS. PROVIDE AND INSTALL VEHICULAR PROTECTION BARRIERS AROUN MAIN SERVICE SWITCHGEAR PER DWP REQUIREMENTS. MAINTAIN PER SCE CONSTRUCTION STANDARDS.
NAME COMPANY	JESUS FERNANDO FERNANDEZ "JESSE" SCE SERVICE PLANNER	FIELD VERIFY ALL REQUIREMENTS OF NEW SERVICE WITH SCE A START OF CONSTRUCTION AND INSTALLATION OF NEW WORK. F TO ENGINEER OF RECORD. EXISTING SERVICE TO REMAIN ENER IS BEING INSTALLED. CONTRACTOR TO COORDINATE SWITCH OV AND UTILITY COMPANY TO MINIMIZE DOWNTIME.
EXISTING	SCE SERVICE PLANNER SOUTH BAY DISTRICT (310) 783-9389; MOBILE # (310) 502-0457 Jesus.F.Fernandez@sce.com TOR TO CONTACT ABOVE REPRESENTATIVE TO CONFIRM UTILITY SERVICE ARRANGEMENTS AND SCHEDULE RY AND PERMENANT SERVICE CONDITION.	 THE EXISTING SINGLE PHASE SERVICE METERING COMPARTMENT ARE TO BE DEMOLISHED, INCLUDING EXISTING FEEDER CONDUIT EXISTING CIRCUITS TO REMAIN AND REPORT TO ENGINEER OF F SO THAT CIRCUITS CAN BE ROUTED TO NEW 1-PHASE 3-WIRE SYSTEM. CONTRACTOR SHALL CONTACT UTILITY COMPANY TO REMOVE EX DISCONNECT THE UTILITY METERING. PROVIDE AND INSTALL A RECEPTACLE AND ENCLOSURE THAT IS LISTED AS "EXTRA DUTY". THE RECEPTACLE SHALL BE LISTED TYPE WITH INTEGRAL GFCI PROTECTION. LOCATION SHALL BE V ELECTRICAL SERVICE EQUIPMENT. CONFIRM SIZE AND NUMBER OF UTILITY CONDUITS WITH RESPECTIVE PRIOR TO INSTALLATION. SEE SHEET E600 FOR



TES:

CE OF 3'-O" ABOUT THE MAIN SERVICE OW TOP EXIT OF FEEDERS AND SEE SHEET E302 FOR UND 3 SIDES OF THE NEW AND THE AHJ PRIOR TO REPORT ANY NEW FINDINGS JERGIZED WHILE NEW SERVICE OVER WITH OWNER'S REP, CITY AT AND ZINSCO SWITCHBOARD JIT. FIELD VERIFY ANY RECORD PRIOR TO ROUGH-IN RE POWER DISTRIBUTION EXISTING METER SOCKET AND IS WEATHERPROOF AND IS D AS WEATHER RESISTANT WITHIN 50' OF ALL PECTIVE UTILITY COMPANY OR ADDITIONAL REQUIREMENTS.	 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL EXISTING UNDERGROUND CONDUITS, UTILITES AND LINES PRIOR TO ANY WORK. SEE DEMOLITION NOTES ON SHEET E200 FOR REQUIREMENTS TO MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING BRANCH CIRCUITS THAT ARE TO REMAIN. CONTACT DIG ALERT PER SCE AND CITY REQUIREMENTS FOR FIELD MARKING. PROVIDE AND INSTALL A NEW RACEWAY PER SCE REQUIREMENTS WITH A STUB OUT OF UTILITY CONDUIT +24" PAST PROPERTY LINE. CONFIRM INDICATED POINT OF CONNECTION (POC) WITH SCE PRIOR TO BID. CONFIRM FINAL LOCATION AND ROUTING WITH SERVICE PLANNER PRIOR TO TRENCHING. SEE UTILITY COMPANY CONSTRUCTION DOCUMENTS. 	
	I	

	GENERAL NOTES		
	IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT A COMPLETE AND	SYMBOLS RE CONDUIT &	
	WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. FURNISH ALL LABOR AND TOOLS NECESSARY TO INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A		G
	FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, COUPLINGS, HANGERS, BRACKETS,		2'X4' FLUC
	CLAMPS, BOXES, CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.		2'X2' FLUC
	PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHORITIES, ARRANGE FOR ALL INSPECTIONS AND PAY ALL COSTS FOR FEES AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CALIFORNIA BUILDING CODES: NOTHING IN THESE	OR OR	2'X4' OR 2
	PLANS AUTHORIZES DEVIATION FROM APPLICABLE CODES. DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND BRANCH HOMERUNS IN		SURFACE (USE 1–1/
	COOPERATION WITH OTHER TRADES TO SIMPLIFY INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPROVAL OF ARCHITECT FOR VISUAL AND STRUCTURAL REASONS.	• •	FLUORESCE (MOUNT AT
	PROVIDE A CODE APPROVED DISCONNECT SWITCH OR BREAKER WITHIN SIGHT OF EVERY MOTOR AND FEED MOTORS NOT EQUIPPED WITH "BUILT IN" PROTECTION		FLUORESCE (CONCEAL
	THROUGH A MAGNETIC OR MANUAL STARTER WITH OVERLOAD HEATERS SIZED TO COMPLY WITH MOTOR MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES.	0	SURFACE N (NOTE WEIG
	FOR CONNECTIONS TO EXHAUST FANS, PUMPS, COMPRESSORS, SPACE HEATERS, WATER HEATERS, AQUASTATS, SOLENOID VALVES AND OTHER MECHANICAL		INCANDESC (KEEP J-E
	EQUIPMENT AND FOR CONDUITS AND WIRE REQUIRED, BUT NOT NECESSARILY SHOWN ON THESE DRAWINGS, REFER TO MECHANICAL PLANS AND DETERMINE EXACT LOCATIONS UNDER DIRECTION OF THE MECHANICAL CONTRACTOR.		INCANDESC (AIM AS DI
	DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMETER EXCEEDS 1/3 THE THICKNESS OF THE SLAB. LOCATE CONDUITS WITHIN THE MIDDLE OF THE SLAB.	a	INCANDESC (CONFIRM
	WHERE CONDUITS ARE GROUPED IN PARALLEL RUNS, SPACE THEM 3" OR MORE APART. WHERE CONDUITS CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER A HORIZONTAL AREA EQUAL TO TEN TIMES THE DIAMETER OF THE LARGEST	2°	INCANDESC LAMPS (AII
	CONDUIT. REFER ALSO TO DETAILS SHOWN.	0-	FLOOD LIG
7.	FOR CIRCUITS FED THROUGH FLUORESCENT FIXTURE CHANNELS AND FEEDS TO RECESSED INCANDESCENT FIXTURES, USE INSULATED WIRE OF MINIMUM 90 DEG. CELSIUS RATING.	\bigotimes	BOLLARD LOW LEVEL
8.	IN EACH CONDUIT WITHOUT CONDUCTORS, PROVIDE ONE #12 TW COPPER PULL-WIRE WITH A TAG IDENTIFYING LOCATION OF OPPOSITE END.	↑€ €	LIGHTED EX
9.	SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUMBER AND GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE NOTED TO BE LARGER. MINIMUM BOX SIZE		LUMINAIRE
_	SHALL BE 4" SQUARE BY 1-1/2" DEEP. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24".	0	DASHED S
10.	EXAMINE PLANS TO DISCERN CEILINGS WITH A FIRE RATING OF ONE HOUR OR MORE. PROVIDE A ONE-HOUR FIRE-RATED ENCLOSURE OVER EACH LIGHT FIXTURE RECESSED THEREIN.		by other step ligh
11.	AT THE TIME OF DESIGN UTILITY REQUIREMENTS HAVE NOT BEEN FINALLY CONFIRMED. MAKE FULL ALLOWANCE IN BID FOR ALL SERVICE COSTS LEVIED BY	J	JUNCTION (4" SQUAR
	UTILITIES, INCLUDING CABLE COSTS AND ALL CONTINGENCIES NECESSARY TO COVER COSTS OF FINAL SERVICE CONNECTIONS AS REQUIRED. HANDLE ALL ARRANGEMENTS AND COSTS FOR TEMPORARY CONSTRUCTION POWER WHETHER	J	JUNCTION (CONFIRM
	FROM PORTABLE GENERATOR OR UTILITY COMPANY UNLESS OTHERWISE DESCRIBED IN "SPECIAL CONDITIONS".	J	JUNCTION (SUBSCRIP
12.	NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED, ENTER OR PASS THROUGH OR ABOVE THE REQUIRED WORK SPACE OF THE ELECTRICAL EQUIPMENT.	J.	JUNCTION (WITH 90
13.	'EXIT' SIGNS SHALL NOT BE USED AS JUNCTION BOXES. PROVIDE A SEPARATE J-BOX AT EACH "EXIT" SIGN LOCATION FOR MOUNTING PURPOSES AND FOR	\bigcirc	JUNCTION
4 4	'THROUGH' & SIGN 'PIGTAIL WIRING. ANY POWER OUTAGES SHALL BE APPROVED BY THE USER OF THE FACILITY. A	کې	DUPLEX RI (HINGED B
	FORTY-EIGHT HOUR WRITTEN NOTICE SHALL BE GIVEN FOR ANY OUTAGE REQUEST. VERIFY EXACT LOCATION OF OUTLETS, SWITCHES, EQUIPMENT, ETC WITH PROJECT	懲	DOUBLE DI (HINGED B SINGLE OU
	MANAGER PRIOR TO INSTALLATION. OWNER RESERVES THE RIGHT TO RELOCATE ANY UNINSTALLED OUTLET IN ANY DIRECTION (10'-0" MAXIMUM) WITHOUT CHANGE IN CONTRACT PRICE PRIOR TO INSTALLATION.	н Э	INDICATED
16.	ALL LINE VOLTAGE WIRING SHALL BE MINIMUM #12 CU THHN/THWN. ALL NEW WIRING SHALL BE COPPER WITH "THHN" OR "THWN" 600-VOLT INSULATION. COLOR	⇔	DUPLEX RE (20 AMP.
7.	CODE ALL BRANCH CIRCUIT WIRING. ELECTRICAL BOXES OR FITTINGS SHALL BE FLUSH WITH FINISH SURFACE OR	₩	DOUBLE DU (20 AMP.
	RECESSED NO MORE THAN 1/4 INCH IN NON-COMBUSTIBLE WALLS OR CEILING. ALL OUTLETS & DEVICES SHALL BE FLUSH WITH WALL, UNLESS OTHERWISE NOTED	Ø	DUPLEX RE (FOR SHOW
	AS SURFACE MOUNTED. CONTRACTOR SHALL CORE DRILL, SAW CUT, PATCH TO MATCH ADJACENT	ØH GFCI	duplex re Interrupti
	SURFACES, AND PAINT ALL EXPOSED CONDUITS & BOXES TO MATCH ROOM FINISH. ALL SWITCHES SHALL BE INSTALLED LESS THAN 48" ABOVE FINISH FLOOR. ALL		SHADING D (MARK PLA
	RECEPTACLES SHALL BE INSTALLED NO LOWER THAN 15" A.F.F.	ŧ	SPECIAL PI AS INDICAT
	STAIR VESTIBULE EXIT ENCLOSURE PER U.B.C. 1005.3.3.5. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF TORRANCE RECOGNIZED	₽	POWER RE((20A, 120)
	TESTING LABORATORY OR APPROVED BY THE BUILDING DEPARTMENT. ALL WORK TO COMPLY WITH <u>2019</u> CALIFORNIA ELECTRICAL CODE.	I.G. ↔	DUPLEX RE
24.	PROVIDE U.L. LISTED GFI EQUIPMENT AND INSURE PROPER OPERATION PER CEC 110.10		(20 AMP. MULTI-OUT
	CONTRACTOR NOTES	ĒĒ	FAN, CEILII
			(SUPPORT
•	IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.	-0-	(PROVIDE CIRCUIT BF (CONFIRM
	THE CONTRACTOR SHALL REPAIR AND/OR REPAINT ALL AREAS DAMAGED BY CONSTRUCTION AND FINISH TO MATCH EXISTING ADJACENT SURFACES.	DD	DUCT DETE
5.	THE CONTRACTOR SHALL SUBMIT "AS BUILT" DRAWINGS UPON COMPLETION OF	SFD O	COMBINATIO
ŀ.	CONSTRUCTION. DAILY AND UPON COMPLETION OF WORK, CONTRACTOR SHALL REMOVE DEBRIS,	SD c	SMOKE DE
5.	RUBBISH, WASTE, AND SURPLUS MATERIAL FROM PREMISES. THE CONTRACTOR SHALL PROTECT AND COVER ALL FIXTURES AND EQUIPMENT IN	Ğ	CONTROLLE
	AREAS AFFECTED BY WORK AND UPON COMPLETION OF WORK SHALL THOROUGHLY CLEAN ALL FIXTURES, EQUIPMENT, WALLS, CEILING, FLOOR AND HARDWIRE.	CONDUCTORS	
	ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR	FROM THE S PROVIDED WIT	AME PANE
	CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION	ALL UNGR	
	ALL ELECTRICAL WORK SHALL BE DESIGNED PER (LOCAL AHJ) ELECTRICAL CODE, 2019 CALIFORNIA ELECTRICAL CODE, 2017		
	NATIONAL ELECTRICAL CODE, 2019 CALIFORNIA ELECTRICAL CODE, 2017 NATIONAL ELECTRICAL CODE, AND 2019 BUILDING ENERGY EFFICIENCY STANDARDS		

	ELECTRICAL SYMBOLS I	IST
EQUIPMENT & OUTLET BOXES TO WHICH JN FOR CONNECTION TO FIXTURES & DEVICES. GENERAL DESCRIPTION	NOT ALL SYMBOLS APPLY TO THIS PROJECT; DISREGARD THOSE NOT USED ON PLANS AND IN DETAILS. GENERAL DESCRIPTION	N
DRESCENT LAMP FIXTURE	BUZZER IN FLUSH BOX, CONFIRM HEIGHT	
DRESCENT LAMP FIXTURE	BELL, SURFACE OR RECESSED AS DESCRIBED (SUBSCRIPT DENOTES BELL DIAMETER INCHES)	
2'X2' FLUORESCENT FIXTURE ON EM CIRCUIT.	 DATA/COMMUNICATION OUTLET FLUSH IN WALL +15" (PROVIDE 3/4"C.O. STUB UP +6" ABOVE CEILING) PUBLIC TELEPHONE OUTLET, FLUSH IN WALL, +15" (PROVIDE 3/4"C.O. STUB UP +6" ABOVE CEILING) 	<u>[s.v.]</u>
OR CEILING MOUNTED FLUORESCENT FIXTURE. /2" SPACERS ON COMBUSTIBLE CEILING)	(PROVIDE 3/4"C.O. STUB UP +6" ABOVE CEILING) TELEPHONE OUTLET, PUBLIC/PRIVATE, FLUSH IN FLOOR (SEE SPECS. FOR SERVICE FITTINGS)	
ENT FIXTURE SUSPENDED BELOW CEILING T DESIGNATED HEIGHT ABOVE FLOOR)	PFH JUNCTION BOX FLUSH ON WALL AT +6"AFF WITH WHIP FOR POWER CONNECTION TO FURNITURE SYSTEM.	c
ENT STRIP LIGHT WITH SEPARATE BALLAST	IFH JUNCTION BOX FLUSH ON WALL AT +6"AFF FOR TEL/DATA CONNECTION TO FURNITURE SYSTEM. PROVIDE 1" C.O. STUB +6" ABOVE ACCESSIBLE CEILING.	
BALLAST IN ACCESSIBLE ENCLOSURE) MOUNTED OR HID FIXTURE	TERMINAL CABINET WITH HINGED DOOR, LOCK, BARRIERS (PROVIDE TERMINALS & 3/4" PLYWOOD BACKBOARD)	
GHT LIMIT FOR BAR-JOIST HANGERS) ENT OR HID FIXTURE RECESSED IN CEILING	TERMINAL BOARD OF 3/4" THICK PLYWOOD ON WALL (SIZE AS NOTED, PAINT TO MATCH WALL)	
BOX ACCESSIBLE FROM WITHIN FIXTURE)	HOH TELEVISION CABLE OUTLET, FLUSH IN WALL +15" (SEE SPECS. FOR JACK & TERMINATING IMPEDANCE)	
CENT OR HID FIXTURE WALL MOUNTED	〇 (H CLOCK OUTLET, FLUSH IN WALL, CONFIRM HEIGHT (MASTER CONTROLLED 120 VOLT 60 CYCLE SYNCHRONOUS)	
HEIGHT OF OUTLET)	PUSH-BUTTON FLUSH IN WALL, MOMENTARY CONTACT (ENGRAVE PLATE DESCRIBING PURPOSE)	
CENT CLUSTER OF ADJUSTABLE REFLECTOR M AS DIRECTED)	LOUDSPEAKER, CONE-TYPE, HOUSING, TRANSFORMER & GRILL ("V" DENOTES VOLUME CONTROL IN HOUSING)	<u>#10</u> C.O.
HT	DH WALL TYPE DIMMER AND OCCUPANCY SENSOR D FLUORESCENT LAMP DIMMER	
EXIT SIGN +7"AFF.	D LOW VOLTAGE LAMP DIMMER	≁ ^{A−1,3} >>
XIT SIGN. CEILING, WALL MOUNTED OR (ARROW SHOWS ROUTE TO LEGAL EXIT)	VOLUME CONTROL L-PAD, FLUSH IN WALL, +42" (ENGRAVE PLATE)	
ON POST TOP, SEE DETAIL FIXTURE AGAINST ROTATION)	M MICROPHONE OUTLET, 3-POLE, RECESSED, LOCKING TYPE (PROVIDE MATING PLUG)	o
YMBOL IS EXISTING ITEM, OR FURNISHED (SEE SPECIFICATION FOR DIRECTIONS)	T THERMOSTAT, OUTLET, WALL MOUNTED, +48" (LOCATE SYMMETRICALLY WITH OTHER DEVICES)	
T	ELECTRIC HEATER, WALL MOUNTED, WITH DISCONNECT	
BOX, WITH COVER RE, DEEP, WITH PLASTER RING)	(C-C=CRANK CASE, A-D=AIR DUCT, W-H=WATER HTR)	P.B.
BOX, WALL MOUNTED, WITH COVER, +15" LOCATION. SEE GEN. NOTE #9)	Sa SWITCH, FLUSH IN WALL, TOGGLE, SINGLE-POLE S.T. +42" (SUBSCRIPT DENOTES UNIT CONTROLLED)	
BOX, FLUSH IN FLOOR, ADJUSTABLE HEIGHT COVER TS: M=MIKE, P=PROJECTOR, C=CONTROLS)	S^2 SWITCH, FLUSH IN WALL, TOGGLE, TWO-POLE S.T. +42" S^3 SWITCH, FLUSH IN WALL, THREE WAY +42"	
BOX, FLUSH IN FLOOR, ADJUSTABLE HEIGHT COVER CLOSE ELBOW AND FLUSH FLOOR COUPLING)	(CONNECT TO MATCHING SWITCH FOR 3–WAY USE) S ⁴ SWITCH, FLUSH IN WALL, FOUR WAY +42"	
BOX, FOR DATA OUTLET.	(CONNECT TO MATCHING SWITCHES FOR 3-4 WAY USE) S ^K SWITCH, FLUSH IN WALL, KEY OPERATED	
ECEPTACLE, FLUSH IN FLOOR, W.T. J–BOX BRASS COVER: 20 AMP. 120 VOLT)	S ^M SWITCH, FLUSH IN WALL, MOMENTARY CONTACT, S.P.S.T.	— T —
UPLEX RECEPTACLE, FLUSH IN FLOOR, W.T. J-BOX BRASS COVER: 20 AMP. 120 VOLT)	S ^P SWITCH, FLUSH IN WALL, WITH PILOT LIGHT (ENGRAVE PLATE WITH ITEM CONTROLLED)	— D —
ITLET RECEPTACLE, RATING AND CONFIGURATION AS ON PLAN. MOUNT AT +15" AFF	S ^T MOTOR STARTER, WITH THERMAL OVERLOADS (POLES, NOTED, HORSEPOWER RATED)	
ECEPTACLE, FLUSH IN WALL, GROUNDING TYPE +15" 120 VOLT, COVER PLATE SPECIFIED)	S ^V VARIABLE SPEED CONTROL SWITCH MANUAL MOTOR−STARTER, MAGNETIC, THERMAL OVERLOADS, 3-P (PROVIDE AUXILIARY CONTACTS & CONTROL TRANSFORMER)	$\langle 1 \rangle$
UPLEX RECEPTACLE, FLUSH IN WALL 120 VOLT)	(PROVIDE AUXILIARY CONTACTS & CONTROL TRANSFORMER)	A E-1
ECEPTACLE, MOUNTED AT CEILING, W WINDOW CONNECTION 20A, 120V, 3W)	DISCONNECT SWITCH, MANUAL EXO, H.P. RATED ("F" MEANS FUSED TO AMPERE RATING MARKED)	
ECEPTACLE, WITH GROUND FAULT CIRCUIT	SH W.P. SIGN OUTLET ON FACE OF SOFFIT	
ER (20 AMP. 120 VOLT, 3W) DENOTES ONE-HALF RECEPTACLE SWITCHED +15"	CEILING MOUNTED OCCUPANCY SENSOR	
ATE WITH ROUND RED DOT) URPOSE RECEPTACLE, RATING AND CONFIGURATION	WALL MOUNTED OCCUPANCY SENSOR WITH MANUAL ON/OFF CAPABILITY	
TED ON PLAN. MOUNT +15" AFF.	COMMUNICATION & ALARM	
CEPTACLE, IN SURFACE BOX, MTD. +15" V.)	PUSHBUTTON MOMENTARY CONTACT +48"	A AMPERE AH AMPERE-H
ECEPTACLE, WITH ISOLATED GROUND 120 VOLT)	 "ON-OFF" PUSH BUTTON MOMENTARY CONTACT +48" 	AFF ABOVE FIN AFG ABOVE FIN
LET ASSEMBLY	BUZZER, $+7'-6"$ UNLESS OTHERWISE NOTED	CKT CIRCUIT C.O. CONDUIT (
NG OR WALL MOUNTED FROM REINFORCED BRACKET PLATE)	\bigcirc GONG, +7'-6" UNLESS OTHERWISE NOTED	DP DISTRIBUTI (E) EXISTING
DR MOTOR; CONFIRM DIRECTION OF ROTATION FLEXIBLE CONNECTION TO J-BOX FROM MOTOR)	OUTDOOR SPEAKER. PROVIDE 1/2"C.O. WITH PULL STRING TO TELEPHONE CLOSET.	EF EXHAUST I ELR END OF LII
REAKER OF POLES, VOLTS, TRIP-AMPS NOTED INTERRUPTING CAPACITY NEEDED)	RADIO ALARM GONG, +7'-6" UNLESS OTHERWISE NOTED PROVIDE 1/2"C.O. WITH PULL STRING TO TELEPHONE CLOSET.	EOL END OF LI EM EMERGENC FA FIRE ALAR
ECTOR	SPV CEILING MOUNTED SPEAKER (VOL DENOTES VOLUME CONTROL) PROVIDE 1/2"C.O. WITH PULL STRING TO TELEPHONE CLOSET.	FA FIRE ALAR FC FOOT CAN FCO FULL CUT
ON SMOKE/FIRE DAMPER	SD SMOKE DETECTOR	FLUOR FLUORESCI GFP GROUND F
TECTOR	K KEY PAD P SCU PRINTER (PROVIDED BY FIRE DEPARTMENT)	GND GROUND HOA "HAND OFF
ED RECEPTACLE	F FIRE ALARM FULL STATION	HP HORSEPOW INC INCANDESC
		J-BOX JUNCTION KA KILO AMPE
TI-WIRE BRANCH CIRCUIT SHALL ORIGINATE LBOARD. THE BRANCH CIRCUIT SHALL BE	HI FIRE ALARM HORN	KVA KILO–VOLT KW KILOWATT LCL "LONG COI
S THAT WILL SIMULTANEOUSLY DISCONNECT CONDUCTORS AT THE POINT WHERE THE	HB SPRINKLER BELL	LCL LONG COL LM LARGEST M L.O. LUGS ONL
CH CIRCUIT ORIGINATES.	HP DOOR BUZZER	LTG LIGHTING LV LOW VOLT/
	HB DOOR BELL ANNOUNCER FACP FIRE ALARM CONTROL PANEL	MC MOMENTAR' MCA MINIMUM (
		MH METAL HAL MHT MOUNTING (TO BOTTO
	NOTE: ALL MOUNTING HEIGHTS ARE TO CENTER-LINE UNLESS OTHERWISE NOTED	MOCP MAXIMUM CURRENT
		CURRENT

MOUNTING HEIGHTS IN S OTHERWISE NOTED ON D GENERAL	RAWINGS	
DISCONNECT DEVICE, LOAD (LABEL AS MANUAL SWITCH		NON-AUTOMATIC
DISCONNECT SWITCH & FU		AMMATIC
SOLENOID VALVE IN PIPELI (CONFIRM COIL VOLTAGE &		N)
EXISTING TO REMAIN EXISTING TO BE REMOVE		
CONDUIT STUB-UP WITH C (TO PERMIT FUTURE REMO		FLUSH IN FLOOR
CONDUIT RUN EXPOSED, A (ATTACH TO SUPPORTS NO	LIGN WITH	
	R UNDER	FLOOR: OR UNDERGROUND
1/2" CONDUIT WITH 2#12	-	
1/2" CONDUIT WITH 3#12 1/2" CONDUIT WITH 4#12		- CONCEALED IN WALL
1/2" CONDUIT WITH 5#12		OR CEILING
3/4" CONDUIT WITH 6#12 NUMBER INDICATES GAUGE	_	
CONDUIT-ONLY WITH #12 (3/4" MINIMUM SIZE, UNLE	TW COPPE	ER PULL-WIRE
HOMERUN TO CIRCUITS #1 (CROSSMARKS INDICATE NU	& #3 IN	PANEL "A"
CONDUIT DROPPING DOWN	FROM RU	, N
(IF CONDUIT IS USED KEEI	RUN	
(IF CONDUIT IS USED, KEE GROUND CONNECTION WITH	ACCESSI	BLE CLAMP
(TO COLD WATER PIPE OR UFER GROUND	DRIVEN	SROUND ROD)
PULL BOX WITH SCREW HI (DIMENSIONS CODE-SIZED	UNLESS	NOTED)
BRANCH PANELBOARD, WAI DISTRIBUTION SUB-SWITCH		
MAIN SWITCHBOARD, POWE (SEE ONE LINE DIAGRAM &	R OR LIGH & LOAD S	HT, FLOOR STANDING, ENCL. UMMARY)
PULL SECTION FOR UNDER (PROVIDE PERFORATED SCI	GROUND REW HEAD	SERVICE TO SWITCHBOARD IS FOR UTILITY SEAL)
CONTROL PANEL WITH DEV (MOUNT DEVICES INDEPEND	ICES SHO DENT FRO	WN OR DESCRIBED M HINGED COVER)
3/4"C.O. FOR TELEPHONE 3/4" C.O. FOR DATA OUTL		
CONDUIT FOR FIRE ALARM		
UNDER FLOOR DUCT WITH		
NUMBERED NOTE FOR ALL		
DETAIL DESIGNATION FOR T		AWING NUMBER
ABBREV	/IAT	IONS
HOUR NISHED FLOOR	(N) N.I.C.	NEW NOT IN CONTRACT
NISHED GRADE	NEC NL NTS	NATIONAL ELECTRICAL CODE NIGHT LIGHT NOT TO SCALE
ONLY ION PANEL	Р	POLE, PHASE PANEL BOARD
FAN INE RESISTOR	PEC R	REMOVE
INE CY	SA SC SSS	SATIN ALUMINUM SHORT CIRCUIT SATIN STAINLESS STEEL
RM NDLE		TELEPHONE TWIST-LOCK CONSTRUCTION
OFF CENT FAULT PROTECTION	TSC TSP	TIME SWITCH CONTROL
F AUTOMATIC"	TYP	TYPICAL UNLESS OTHERWISE NOTED
WER RATING CENT	V	VOLTS
BOX ERES.	VD W/ W.M.	
T AMPS DNTINUOUS LOAD"	WP	WIREMOLD WEATHERPROOF CONSTRUCTION WEATHER TIGHT CONSTRUCTION
MOTOR LY	WBE	WHITE BAKED ENAMEL WHITE PORCELAIN ENAMEL
TAGE RY CONTACT ACTION	XFMR	TRANSFORMER
CIRCUIT AMPACITY		EXISTING TO BE REMOVED MOUNTING HEIGHT
G HEIGHT OM OF FIXTURE)	5SD	(TO CENTER OF DEVICE) METAL BOX 4-11/16" SQUARE
OVER PROTECTION		(X) 2-1/8" DEEP

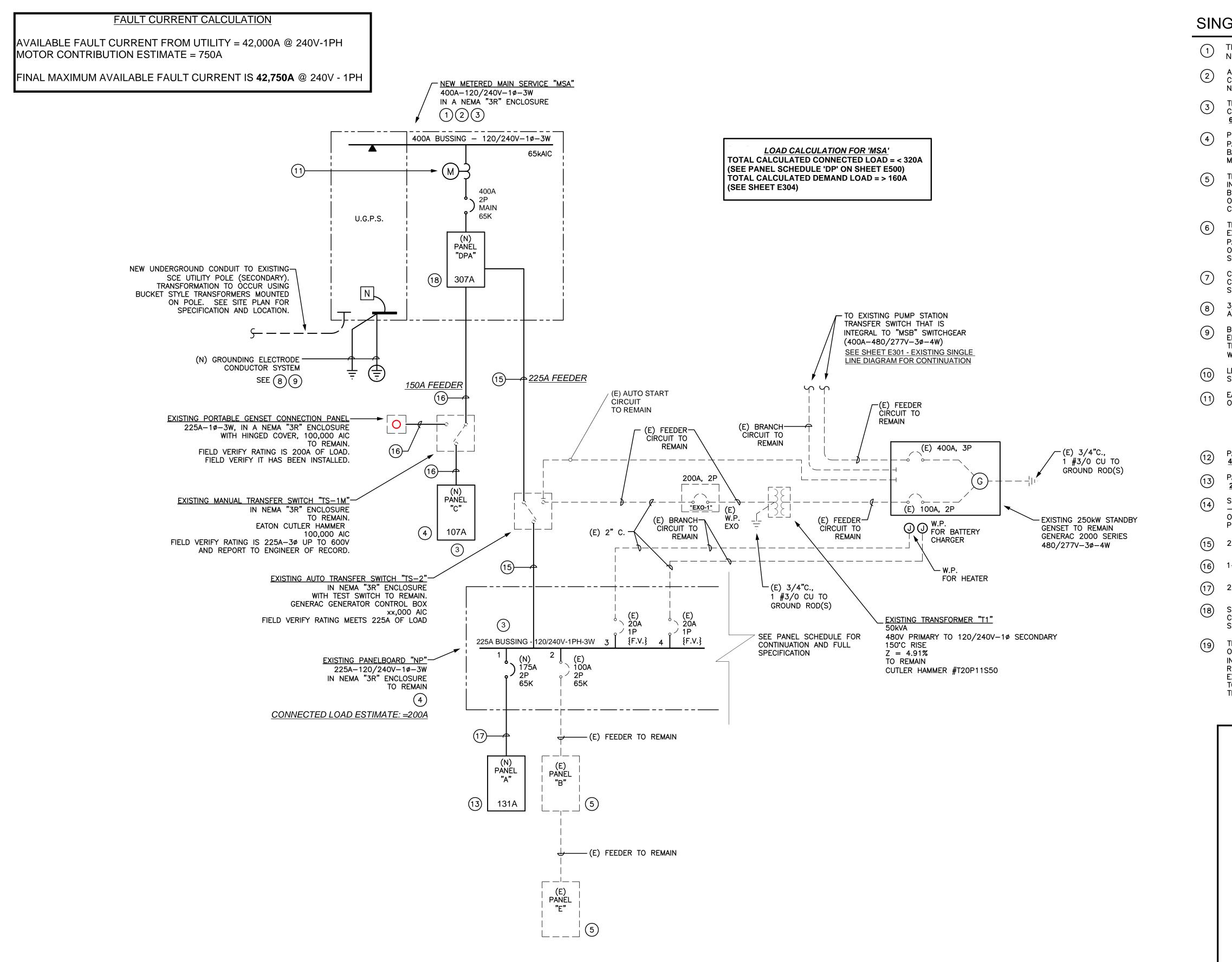
	NSULTIN	GINEERS GELECTRICAL ENGINEERS eet, Santa Monica, Ca. 90401 (424) 272-6709
BDLG.	OWNER:	$E^{R} = 0 FESSION 4$ $E^{R} = 16773$ $E^{R} = 0 FCR = 0$ $E^{R} = 0 FCR = 0$ $E^{R} = 0 FCR = 0$
PROJE	ECT:	
ГІ	RE STA	ATION 4 RENOVATION
	OR REVIS	SION NOTES: DESCRIPTION ISSUED FOR REVIEW ISSUED FOR PLAN CHECK
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LIGHTING LUMINAIRE SCHEDULE	CKITCHENSURFACEPINNACLE(1)14" DIAMETER WITH(9.0)AND STUDYARCHITECTURALLEDFLUSH SATIN SHIELDINGLIGHTING838LENS AND LEDFINA F14DHIMENODIMMADI F DDIMED	H (16.0)SHOWERRECESSEDCON-TECH LIGHITING LED RECESSED(1)4" DIAMETER DOWNLIGHT WITH LED DOWNLIGHT0000010000000000000000000000000000000
TYPETYPICALMOUNTINGMANUFACTURER and CATALOG NUMBERLAMPSDESCRIPTION(Watts)LOCATIONMETHODCATALOG NUMBER12' BY 2' VOLUMETRICADORMSRECESSEDLITHONIA LIGHTING(1)2' BY 2' VOLUMETRIC	FINA F14D #F14D-A-830LO-S-U- EE1-1-0-GR 120V FIXTURE OPTIONS PER	1000 SERIES 3000°K APPLICATION. TRIM IS #RA4LNC-130K-12D2 RECESSED TWO PIECE OPTIONS: PER ARCHITECT.
(15.9) #2VTL2-20L-ADP-EZ1- LP830-N100 LUMENS LINEAR PRISMATIC LED DIFFUSER AND LED	D DORM BEDS SURFACE LIGMAN LIGHTING (1) 8" HIGH AND 4" WIDE	#XX-XX FIXTURE OPTIONS PER CONTRACTOR. TRIM:
ACCESSORIES: 80CRI DIMMING DRIVER. #XX-XX 3000°K PER ARCHITECT OR 120V CONTRACTOR 120V	(8) USA LEEDS 1 SMALL #ULEW-30001-8WLED- LUMENS WITH TYPE IV BEAM	I EXTERIOR SURFACE LIGMAN LIGHTING (1) 8" HIGH DECORATIVE
A1DAY ROOMRECESSEDLITHONIA LIGHTING(1)2' BY 2' VOLUMETRIC(33.1)#2VTL2-40L-ADP-EZ1-4000TROFFER WITH ACRYLIC	T4-W30-02-120/277V >80 CRI DISTRIBUTION IN DARK 3000°K GREEY FINISH. 0PTIONS: 120V	(14.0) USA LED SURFACE WEDGE LEEDS 2 MEDIUM 1660 DOWNLIGHT WITH TYPE #ULEW-30011- LUMENS III BEAM DISTRIBUTION IN
LP830-N100 LUMENS LINEAR PRISMATIC LED DIFFUSER AND LED ACCESSORIES: 80CRI DIMMING DRIVER.	#XX-XX FIXTURE OPTIONS PER CONTRACTOR. ARCHITECT SHALL	14WLED-T3-W35-02- >80 CRI DARK GREEY FINISH. 120/277V 3000°K 120V 120V FIXTURE OPTIONS PER OPTIONS: CONTRACTOR.
#XX-XX 3000°K PER ARCHITECT OR 120V CONTRACTOR	CONFIRM COLOR TEMPERATURE.	#XX-XX ARCHITECT SHALL CONFIRM COLOR
A2 (33.1)LAUNDRY RECESSEDRECESSED LITHONIA LIGHTING #2VTL2-40L-ADP-EZ1- LP830-N100(1) 4000 LUMENS2' BY 2' VOLUMETRIC TROFFER WITH ACRYLIC LINEAR PRISMATIC	EKITCHENRECESSEDLITHONIA LIGHTING(1)6" DIAMETER OPEN(10.4)ANDLDN6LEDDOWNLIGHT WITH BLACKHALLWAY#LDN6-30/-10-LO6-BR-1000TRIM COLOR AND MATTELD-MVOLT-EZ10LUMENSDIFFUSE FINISH.	J ALARM RECESSED LITHONIA LIGHTING (1) 6" DIAMETER OPEN (10.4) LIGHTS LDN6 LED DOWNLIGHT WITH CLEAR
ACCESSORIES: BOCRI DIFFUSER AND LED #DGA22-FS/VT 3000°K	LD-MVOLT-EZ10 80 CRI EQUIPED WITH AN 3000°K ELECTRONIC LED 120V DIMMING DRIVER.	(10.4) LIGHTS LDN6 LED DOWNLIGHT WITH CLEAR #LDN6-30/-10-LO6-BR- LD-MVOLT-EZ10 LUMENS DIFFUSE FINISH. 80 CRI EQUIPED WITH AN
120V EQUIPPED WITH DRYWALL CEILIING ADAPTER WITH TRIM KIT.	FIXTURE OPTIONS PER CONTRACTOR.	3000°K ELECTRONIC LED 120V DIMMING DRIVER.
BHALLWAY, (19.6)RECESSEDPINNACLE(1)4' LINEAR BY 2" WIDE(19.6)RESTROOM AND STUDYARCHITECTURALLEDLUMINAIRE WITH SATINAND STUDYLIGHTING2,000SHIELDING LENS AND ½"	F RESTROOMS SURFACE PURE EDGE LIGHTING (1) 48" LINEAR VANITY WITH (20.0) TWIGGY T1 VANITY LED ELECTRONIC LOW	FIXTURE OPTIONS PER CONTRACTOR.
EDGE 2" RECESSED LUMENS FLANGE MOUNTING #EV2D-A-830-4-FL(F)- 80CRI HARDWARE AND LED U-EE1-1-0-GR 3000°K DIMMABLE DRIVER.	WALL 306 VOLTAGE POWER #TW2-T1-4SQ-48IN- 30K-BK 95+CRI JUNCTION BOX. LENS IS 3000°K TUBULAR AND COMES	K EXTERIOR RECESSED LITHONIA LIGHTING (1) 6" DIAMETER OPEN (10.4) LDN6 LDN6 LED DOWNLIGHT WITH BLACK #LDN6-35/-10-LO6-BR- 1000 TRIM COLOR AND MATTE LD-MVOLT-EZ10 LUMENS DIFFUSE FINISH.
120V FINISH TO BE GRAPHITE. FIXTURE OPTIONS PER	120V TO WITH A 4" FLOATING 24VDC SQUARE CONOPY IN SATIN BLACK FINISH.	80 CRI EQUIPED WITH AN 3500°K ELECTRONIC LED 120V DIMMING DRIVER.
B1 ORIGINAL SURFACE PINNACLE (1) 4' LINEAR BY 2" WIDE (20.4) RESTROOMS ARCHITECTURAL LED LUMINAIRE WITH SATIN	G KITCHEN SURFACE BRUCK LIGHTING (1) 32-3/8" LINKABLE LINEAR (18.0) AND SERIES wUndercab LED UNDERCABINET LIGHT	FIXTURE OPTIONS PER CONTRACTOR.
ANDLIGHTING2,000SHIELDING LENS ANDHALLWAYEDGE 2" SURFACELUMENSLED DIMMABLE DRIVER.#EX2D-A-N-830-4-S-U-80CRIFINISH TO BE GRAPHITE.	LAUNDRY CCT SELECT 1350 WITH LED DRIVER. #138546-32-3CCT- LUMENS FINISH IN WHITE. 3000K-90CRI-120-WH >90CRI 3000°K ALL ACCESSORIES PER	
EE1-1-0-GR 3000°K 120V FIXTURE OPTIONS PER CONTRACTOR.	ACCESSORIES: #XX-XX PER CONTRACTOR	
PAGE 1 of 5	PAGE 2 of 5	PAGE 3 of 5
 LIGHTING LUMINAIRE REFERENCE NOTES: CONFIRM FIXTURE PART NUMBERS DENOTED BY 'XX' WITH ARCHITECT PRIOR TO ORDER. EXAMPLES OF PART NUMBERS INCLUE TRIM COLOR, FINISH, OPTIONS AND LAMP COLOR TEMPERATURE. CERTAIN FIXTURES DESIGNATED BY 'wn' ON THE FLOOR PLANS SHALL CONTAIN AN INTEGRAL 90 MINUTE EMERGENCY LIGHTING BALLAST. THE EMERGENCY EXIT ILLUMINATION SHALL BE SUPPLIED FROM STORAGE BATTERIES. SEE CIRCUITING SHOWN ON LIGHTING PLANS FOR THE WIRING REQUIREMENTS. SEE LUMINAIRE SCHEDULE ABOVE AND DETERMINE BALLAST REQUIREMENTS. INCLUDE IN BASE BID ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION OF ALL LUMINAIRES INDICATED ON THE DRAWINGS. ELECTRICAL CONTRACTOR TO COORDINATE MOLINTING HEIGHT OF ALL LIGHT LUMINAIRES WITH ARCHITECTURAL, INTERIOR DESIGN AND LIGHTING CONSULTANT DESIGN DRAWINGS IN ADDITION TO OTHER TRADES PRIOR TO ROUGH-N. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL LIGHT LUMINAIRES. PROVIDE AND INSTALL ALL NECESSARY SUPPORTS INDEPENDENT OF THE CEILING SYSTEM AS REQUIRED PER CODES AND LOCAL ORDINAINGS. CONTRACTOR IS RESPONSIBLE TO VERIFY TYPE OF CONSTRUCTION AT EACH LUMINAIRE LOCATION AND PROVIDE THE REQUIRED TRIMS AND MOUNTING ACCESSORIES OR KITS FOR THE APPLICATION. DOWNLIGHTS RATED FOR TC MUST BE 'AWAY FROM ANY INSULATION. CONFIRM ARCHITECTURAL DETAILS PRIOR TO ORDER. MANUFACTURER TO PROVIDE ALL STRIP LIGHT FIXTURES WITH DISCONNECTING MEANS INSIDE OR OUTSIDE THE LUMINAIRE THAT CAN DISCONNECT ALL CONDUCTORS WIRED TO THE APPLICATION. DOWNLIGHTS RATED FOR TC MUST BE 'AWAY FROM ANY INSULATION. CONFIRM ARCHITECTURAL DETAILS PRIOR TO ORDER. MANUFACTURER TO PROVIDE ALL STRIP LIGHT FIXTURES WITH 2-HOUR FIRE RATING SHALL BE EQUIPSE WITH RED 2-HOUR BOXES. CONTRACTOR TO CONFIRM FIRE-RATING OF CEILING MUNTTED LUMINAIRES WITH ARCHITECT THE RATING OF THE CEILINGS AND AIR PLENUMS SHALL BE APPROVED FOR THE FRE TRATINGS OF T	13. TEST FOR ILLUMINATION AND EXIT SIGNS, INCLUDING DIRECTIONAL EXIT SIGNS POWER BY EITHER THE NORMAL PREMISES WIRING OR ANY ADDITIONALLY REQUIRED EMERGENCY SYSTEMS SHALL BE CONDUCITED IN THE PRESENCE OF THE BUILDING INSPECTION SHALL BE ARRANGED IN ADVANCE AND ALL STAFFING COST ASSOCIATED WITH ETHER PRE-HOURS OR AFTER HOURS SHALL BE PAID AT THIS TIME. THE TESTING AND APPROVAL OF SUCH ARRANGED IN ADVANCE AND ALL STAFFING COST ASSOCIATED WITH ETHER PRE-HOURS OR AFTER HOURS SHALL BE PAID AT THIS TIME. THE TESTING AND APPROVAL OF SUCH PAPROVAL OCTUR PROVED TO THE ISSUANCE OF A TEMPORARY CERTIFICATE OF APPROVAL OCTUR PROVED TO THE ISSUANCE OF A TEMPORARY CERTIFICATE DATE:	
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E201



NEW SINGLE LINE DIAGRAM ノ Scale : NTS

SINGLE LINE DIAGRAM REFERENCE NOTES:

THE MAXIMUM AVAILABLE FAULT CURRENT CONTRIBUTION FROM THE UTILITY AT THE NEW SERVICE IS 42,750A AT 240V-1PH, PER SCE AND CALCULATION. (SEE SHEET E600)

ALL SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT. INCLUDE THE DATE FOR WHEN THE CALCULATIONS WERE PERFORMED. NAMEPLATES SHALL BE WEATHERPROOF AND WEATHER RESISTANT.

THE NEW MAIN SERVICE SWITCHBOARD, PULL SECTION AND FEEDER BREAKERS AND BRANCH CIRCUIT BREAKERS SHALL BE FULLY RATED FOR A MAXIMUM SHORT CIRCUIT RATING OF 65,000 AMPS OF SYMMETRICAL FAULT CURRENT AT 240V-10.

PROVIDE A NEW FEEDER AS INDICATED AND MAKE LINE VOLTAGE CONNECTIONS TO THE NEW PANELBOARD 'C' AND EXISTING PANELBOARD 'NP' VIA EXISTING TRANSFER SWITCHES FOR BACK-FEED OF EXISTING SERVICES. ALL NEW LINE VOLTAGE CONNECTIONS TO MEET MANUFACTURER AND UL LISTINGS.

THE EXISTING SINGLE PHASE SERVICE TENANT PANELS 'B' AND 'E' ARE TO REMAIN. INTERCEPT ALL EXISTING BRANCH CIRCUIT CONDUIT AND WIRE THAT REMAIN AND EXTEND TO BRANCH CIRCUIT BREAKERS LOCATED IN THE NEW 1-PHASE 3-WIRE DISTRIBUTION SYSTEM OR EXISTING PANELS. AS BUILD PANEL SCHEDULES ACCORDINGLY UPON COMPLETION OF CONSTRUCTION AND REPORT FINDINGS TO ENGINEER OF RECORD.

THE EXISTING SERVICE SWITCHBOARD TO BE DEMOLISHED FOR SERVICES 'MS'. INTERCEPT EXISTING FEEDER CONDUIT AND INSTALL ALL NEW FEEDER WIRING FROM NEW DISTRIBUTION PANEL 'DPA' TO PANELS 'C' AND 'NP'. CONTRACTOR TO COORDINATE MEANS AND METHODS OF FLATTENING THE METER COMPARTMENT OR REMOVING IT ENTIRELY. METHOD SHALL MEET SCE AND BUILDING AND SAFETY DEPARTMENT REQUIREMENTS.

CONTRACTOR SHALL CONTACT UTILITY COMPANY TO REMOVE EXISTING UNDERGROUND SERVICE CONDUCTORS, DISCONNECT THE EXISTING UTILITY METERING AND MAKE CONNECTION TO NEW SERVICE.

3/4"C, 1 #1/0 CU GROUND. GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH NEC ARTICLE 250-52 AND INCLUDE ALL AVAILABLE METHODS.

BONDING SHALL BE PROVIDED AT METAL PIPING SYSTEM(S) (INCLUDING GAS PIPING) TO ENSURE ELECTRICAL CONTINUITY. SEE NEC ARTICLE 250-104 FOR MEANS AND METHODS. THE POINT OF ATTACHMENT OF ALL CONDUIT JUMPERS SHALL BE ACCESSIBLE. ALL COLD WATER AND NATURAL GAS PIPING TO BE BONDED WITHIN 5' OF ENTRY INTO BUILDING.

LENGTH OF FEEDERS AND BRANCH CIRCUITS ARE FOR ENGINEERING CALCULATIONS ONLY AND SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

EACH ELECTRICAL SERVICE SHALL HAVE PERMANENTLY INSTALLED USER ACCESSIBLE METERING OF TOTAL ELECTRICAL ENERGY THAT INCLUDES:

> 1) INSTANTANEOUS KW DEMAND 2) HISTORICAL PEAK DEMAND (KW)

3) RESETTABLE KWH.

PANELBOARD AND BRANCH CIRCUIT BREAKERS TO BE FULLY RATED FOR A MINIMUM OF 42,000A OF SYMMETRICAL FAULT CURRENT AT 120/240V, 1-PHASE.

PANELBOARD AND BRANCH CIRCUIT BREAKERS TO BE FULLY RATED FOR A MINIMUM OF 22,000A OF SYMMETRICAL FAULT CURRENT AT 120/240V, 1-PHASE.

SERVICE EQUIPMENT, SWITCHBOARD AND PANELBOARDS ARE DESIGNED ON "EATON CULTER -HAMMER" EQUIPMENT. USE OF APPROVED EQUAL EQUIPMENT REQUIRING DIMENSIONS OTHER THAN SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO ORDER.

2"C., (3) #4/0 CU THWN AND (1) #4 CU GROUND.

1-1/2"C., (3) #1/0 CU THWN AND (1) #6 CU GROUND.

2"C., (3) #2/0 CU THWN AND (1) #6 CU GROUND.

SEE DISTRIBUTION PANEL 'DPA' PANEL SCHEDULE ON SHEET E500 FOR REQUIRED SPARE CIRCUIT BREAKERS AND SPACES FOR FUTURE FEEDER AND BRANCH CIRCUIT BREAKERS. SINGLE LINE DIAGRAM VERSION DOES NOT DIAGRAMMATICALLY REPRESENT ALL REQUIREMENTS.

THE EXISTING SINGLE LINE DIAGRAM HAS BEEN PROVIDED BY THE FIRE STATION AND OBSERVED TO REFLECT ALL THE EQUIPMENT THAT IS CURRENTLY INSTALLED AND ENERGIZED IN THE EXISTING FIELD CONDITIONS. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE POWER SYSTEM ON THE BLUE PRINT MATCHES EXISTING CONDITIONS AND REPORT ANY NEW FINDINGS TO THE ENGINEER OF RECORD PRIOR TO ORDERING ANY NEW EQUIPMENT. FINDINGS THAT ARE OTHER THAN DRAWN MAY IMPACT THE NEW SERVICE DESIGN.

SINGLE LINE CALCULATION TABLE

5205 CALLE MAYOR TORRANCE, CA

MAIN SERVICE 'MSA': 120/240V-1 PHASE-3 WIRES

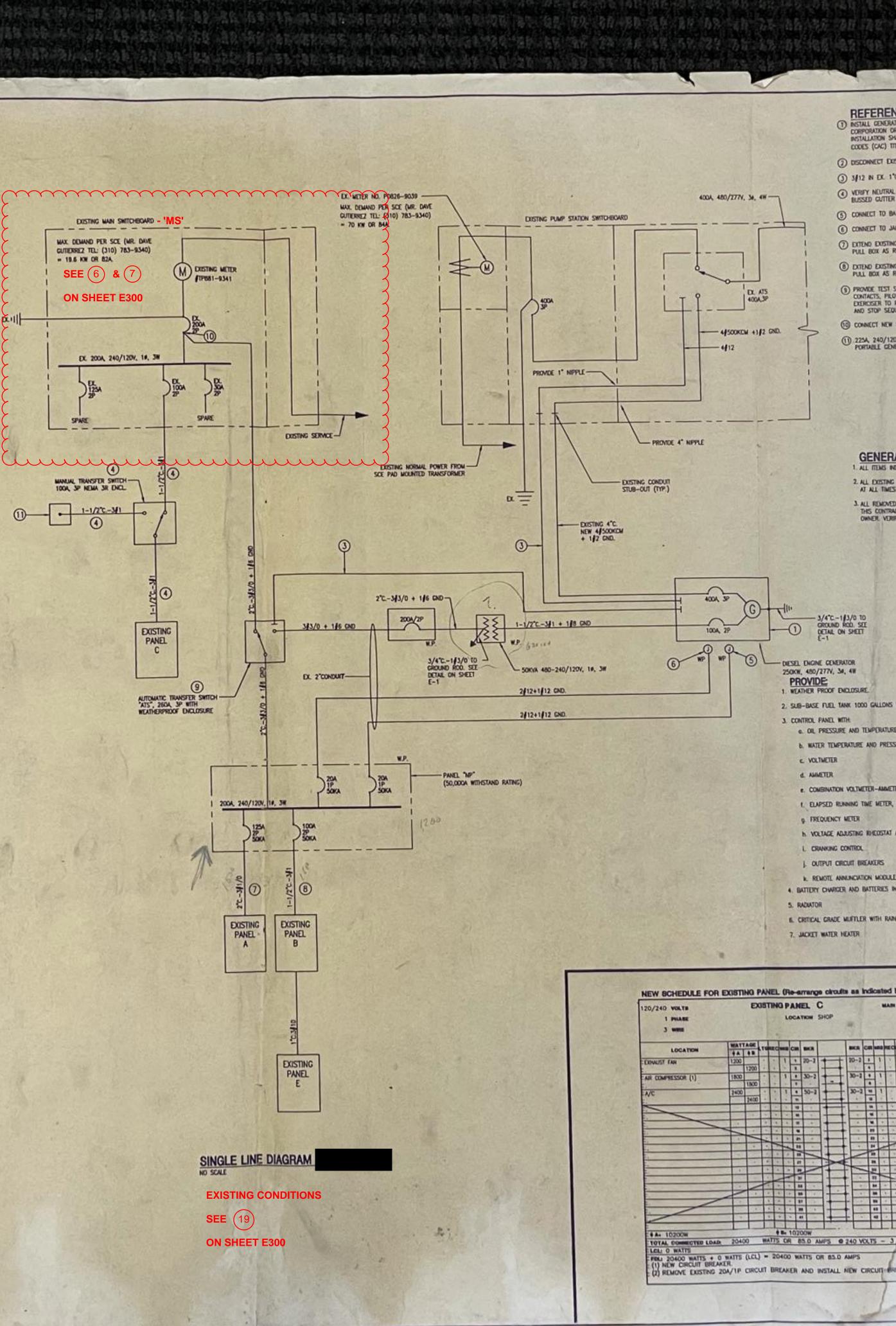
PANEL TAG	FEEDER LENGTH (LF)	VOLTAGE DROP (%)	AVAILABLE FAULT CURRENT (AMPS)	COMMENTS
<u>MSA</u>			42,750	NEW AND FULLY RATED FOR 65,000 AIC. FAULT CURRENT TOTAL INCLUDES ADDITIONAL ESTIMATED 750A OF CURRENT DUE TO MOTOR CONTRIBUTION FROM MECHANICAL SYSTEMS.
DP	0		42,750	NEW AND FULLY RATED FOR 65,000 AIC.
С	30'	FEEDER = 0.30% TOTAL < 5.00%	26,739	NEW AND FULLY RATED FOR 65,000 AIC.
NP	15'	FEEDER = 0.14%	31,566	EXISTING AND FULLY RATED FOR 65,000 AIC.
A	80' (95' TOTAL)	FEEDER SEG = 0.79% FEEDER = 0.93% TOTAL < 5.00%	10,676	NEW AND FULLY RATED FOR 22,000 AIC.

GENERAL NOTES:

1. LENGTHS OF FEEDERS AND BRANCH CIRCUITS ARE FOR ENGINEERING CALCULATIONS ONLY AND SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

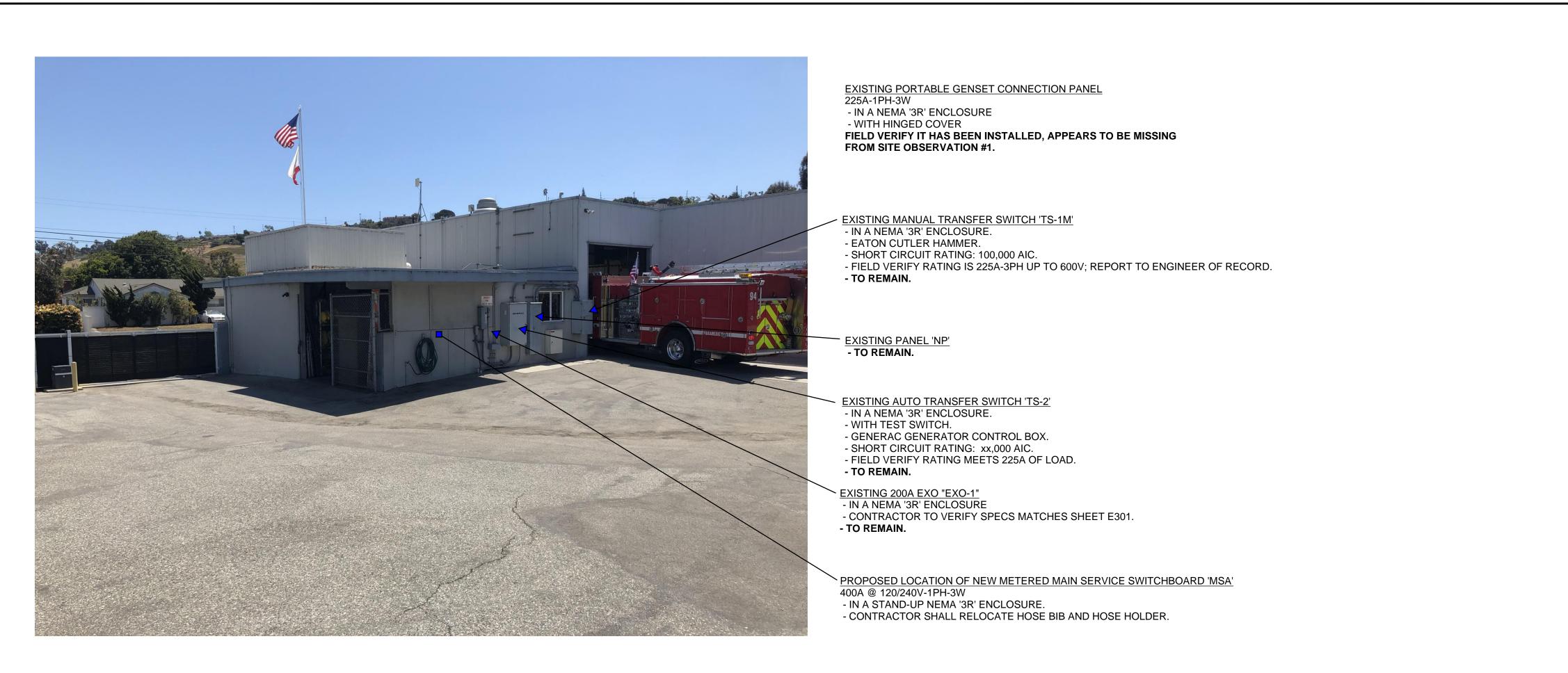


國民主國保持地理保護部分委員及 Carto MAX DEMAND PER SCE (MR. DAVE GUTHERREZ TEL: (310) 783-9340) = 19.6 KW OR 82A. SEE 6 & 7 ON SHEET E300 DE 200A 240/120V, 14, 3W SPARE unin MANUAL TRANSFER SWITCH-1) - <u>1-1/7C-MI</u> ٢ 12 LECTA PART TONCE NEW SA/20 SINGLE LINE DIAGRAM PREVIOUSLY COMPLETED ELECTRICAL SCOPE OF WORK DESIGN IS NOT RELEVANT



EXISTING SINGLE LINE DIAGRAM - REFERENCE ONLY SCALE: N.T.S

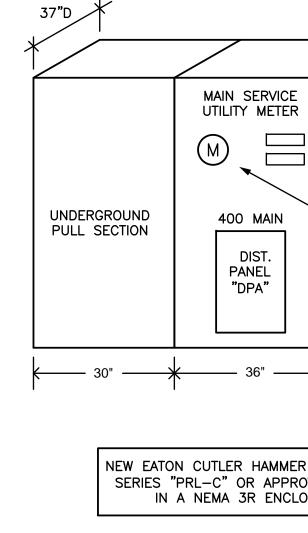
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表。"我是一般我,我我,我是一般的问题我,你是你一些我,你我一些我,我们。" 我们,我们,我们,我们们我们就是你,你我们我们,我们们我们,我们们我们们,我们们我们	
数 "当我,你我 "你我 他的 你开 法财 海外 外科 没有 吃饭 法任 法公 法法 我 "你我 你我 你说 法公 说的,你说 "你说 你说 你说 你们 你们 我们 我们 我们	ENGINEERS
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ECT DUSTING FEEDOR FROM WAN SWITCHBOARD AND DIMAECT TO PANEL "C"	
EX. 1°C- FOR AUTOMATIC ENGINE STARTER.	E 16773
TO BATTERY OWREER AS REQUIRED.	EKP. 9-30-22
DISTING CONDUCTORS FROM PANEL "A" TO PANEL "A"	
EXISTING CONDUCTORS FROM PANEL "B" TO PANEL "NP", PROVIDE O Z	OF CALIFORNIA
TEST SWITCH (MOMENTARY TYPE), COLD PLATED 10 AMPS. DIGNE STARTING IS, PILOT LICHTS TO INDICATE SWITCH POSITION AND ALTOMATIC GENERATOR OR TO PROMOE ADJUSTABLE SO TO GO MINUTES DURATION CENERATOR START, RUN OP SEQUENCE ATS SHALL HAVE 35000A WITHSTAND CURRENT RATING T. NEW FEEDER TO MAIN CIRCUIT BREAKER.	BDLG. OWNER:
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ERATURE CAUCES C. LOW OIL PRESSURE	TORRANCE, CA 90000
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L ONER-SPEED	
-AMMETER SELECTOR SWITCH & LOW FUEL METER, 0-99999 HOURS MINIMUM IN LOW BATTERY VOLTAGE	
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+ 1200 1 - 1800 A/C (1) - 1 - 1800 A/C (1) 1 - 1800 A/C (1)	The above drawings, specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the designer, and no part thereof shall be copied, disclosed to others or used in connection with any work or project other than the specified project for
	which they have been prepared and developed without the written consent of the designer. Visual contact with these plans or specifications shall constitute conclusive evidence of acceptance of these restrictions. Written dimensions on these drawings shall have precedence over scaled
	dimensions. Contractor shall verify and be responsible for all dimensions and conditions on the job and this office must be notified of any variations from the dimensions and conditions shown by these drawings. Shop details must be submitted to this office for approval before proceeding with fabrication.
	PROJECT NO: 21-108
APPROVED BUILDING AND SAFETY DEPT	DRAWN BY: E ENGINEERS CHECKED BY: EP
hin him	PROJECT MANAGER: EP
	DRAWING SCALE: AS NOTED
UT BROAKER AS INDICATED	SHEET SIZE: 24X36 DRAWING TITLE:
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	DIAGRAM
	SHEET NO:
	E301











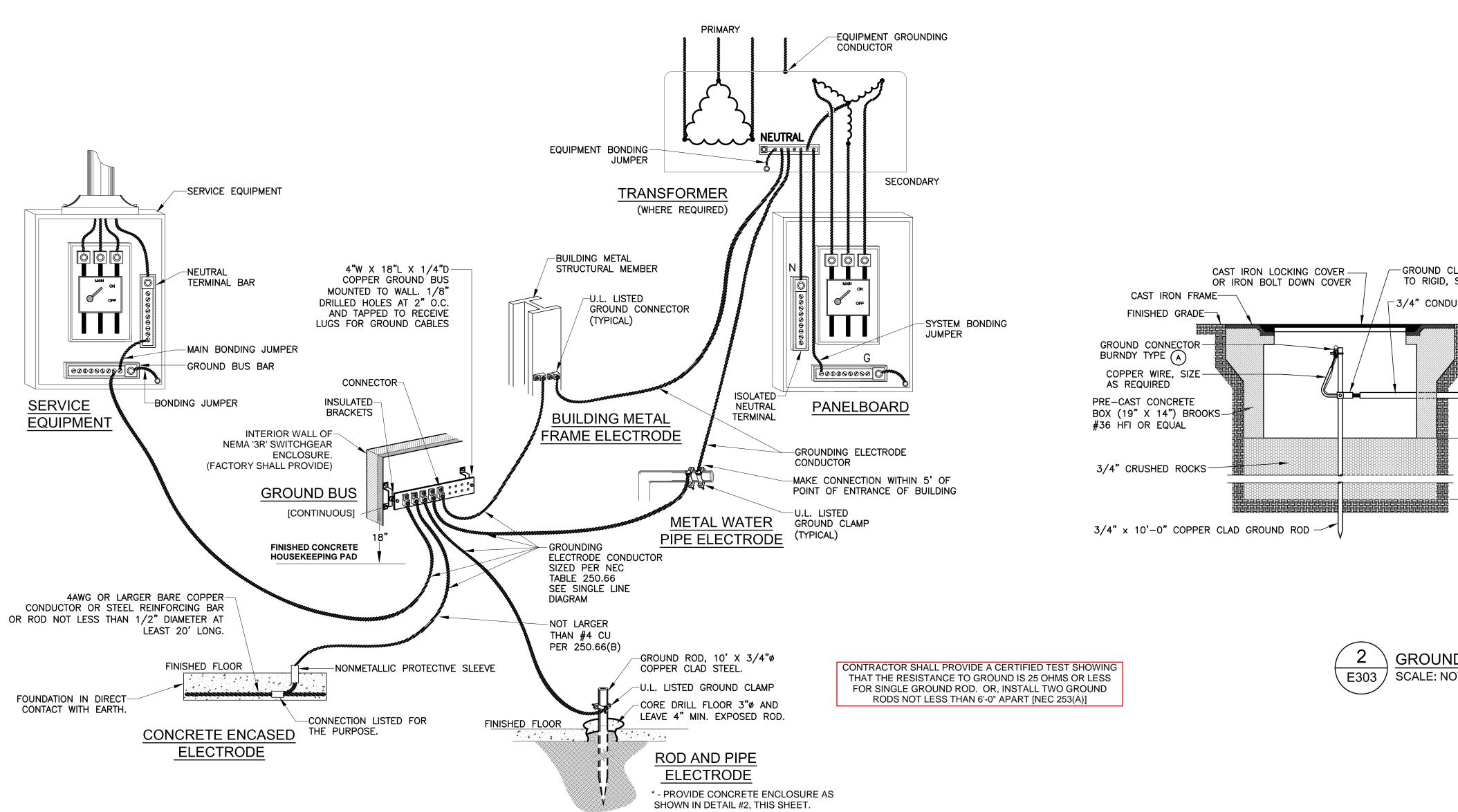


EXISTING UTILITY POLE #xxx-xxx EQUIPPED WITH 1 BUCKET STYLE TRANSFORMER FEEDS 'MS' VIA UNDERGROUND CONDUIT - TO BE VERIFIED BY SCE SERVICE PLANNER.

- CONFIRM DIAMETER OF UNDERGROUND DUCT BANK

- TO REMAIN AND SERVICE TO BE REDESIGNED.

	ENGINEERS CONSULTING ELECTRICAL ENGINEERS 1238 7th Street, Santa Monica, Ca. 90401 Tel: (424) 272-6709
	BDLG. OWNER:
	PROJECT:
	PROJECT ADDRESS: 5205 CALLE MAYOR TORRANCE, CA 90505
WIREWAY WIREWAY WIREWAY WIREWAY WIREWAY (OPTIONAL) WIREWAY	ISSUE OR REVISION NOTES: NO. DATE DESCRIPTION 06.02.21 ISSUED FOR REVIEW
SEE 14 ON SHEET E300 SWITCHGEAR SHALL BE LOCATED	The above drawings, specifications, ideas, designs and arrangements represented thereby are and shall remain the property of the designer, and no part thereof shall be copied, disclosed to others or used in connection with any work or project other than the specified project for which they have been prepared and developed without the written consent
ON A HOUSE-KEEPING PAD PER SCE SPECIFICATIONS. SEE SHEET E600 FOR DETAILS. "MSA" ELEVATION	which they have been prepared and developed without the written consent of the designer. Visual contact with these plans or specifications shall constitute conclusive evidence of a caceptance of these restrictions. Written dimensions on these drawings shall have precedence over scaled dimensions. Contractor shall verify and be responsible for all dimensions and dimensions and conditions shown by these drawings. Shop details must be submitted to this office for approval before proceeding with fabrication. PROJECT NO: 21-108 DRAWN BY: E ENGINEERS CHECKED BY: EP PROJECT MANAGER: EP DRAWING SCALE: AS NOTED SHEET SIZE: 24X36 DRAWING TITLE: MAIN SERVICE ELEVATION & DETAILS SHEET NO: EB3002





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GROUND ROD	ENGINEERS BORSULTING ELECTRICAL ENGINEERS 1238 7th Street, Santa Monica, Ca. 90401 Tel: (424) 272-6709
FRAME GROUND POINT FRAME GROUND POINT BRASS BURNDY GROUND CONNECTOR TYPE "GAR" GROUND CLAMP TO BARE WIRE PLAN VIEW A TO BARE WIRE COPPER ALLOY GROUND CLAMPS TO BARE WIRE GROUND CLAMP TO FICIE CONDUIT COPPER ALLOY GROUND WIRE GROUND TO FICIE CONDUIT	BDLG. OWNER:
PLAN VIEW (B)	PROJECT ADDRESS: 5205 CALLE MAYOR TORRANCE, CA 90505
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	GROUNDING ELECTRODE CONDUCTOR SYSTEM

PROJECTED L

120/240V 1PH-3W CALCUL 5205 CALLE MAYOR, TOR

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CONVERT TO AMPS

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EXISTING BASELINE PRIC (CONVERT TO VA)

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LIGHTING – (18) 4 FOOT T

LIGHTING – (2) DOWNLIG

CONVENIENCE OUTLETS

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EXISTING CONNECTED LC

GARBAGE DISPOSER, (2) MICROWAVE OVEN (COUN WASHING MACHINE (LAUN SUB-TOTAL (BEST CASE S EVALUATION ONLY)

NEW CONNECTED LOAD

PANEL 'A' (RECEPTACLE A MECHANICAL SYSTEMS – 'C' INCLUDING LARGEST M NEW ROOF OUTLET REQU

SUB-TOTAL

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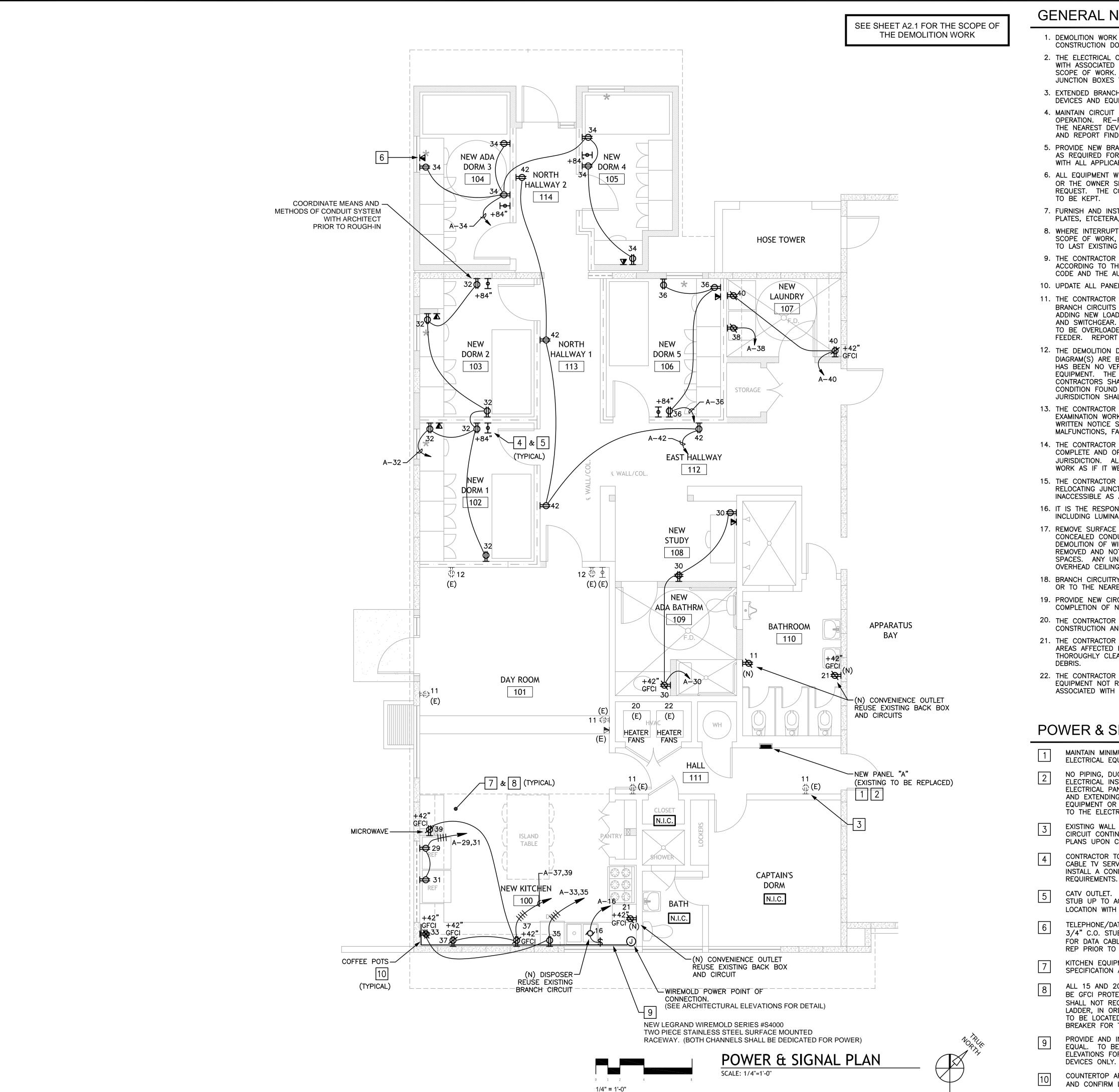
ADDITIONAL ALLOWED L

PER THE CALCULATION

Demand Load information purposes only and shall no

R THE FIRE STATION SERVICE: HE PAST 12 MONTHS IS 20 KW BASED ON 2/3/2021	20 KW	
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_TIPLIER	26 A	
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TS WITH QUAD PL LAMPS		-1,200 VA -70 VA
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Page 1 of 2		
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ISSUE OR REVI	ISION NOTES:
06.02.21	
represented thereby of and no part thereof connection with any w which they have been of the designer. Visi constitute conclusive Written dimensions on dimensions. Contractor conditions on the job ar	specifications, ideas, designs and arrangements are and shall remain the property of the designer, shall be copied, disclosed to others or used in vork or project other than the specified project for prepared and developed without the written consent ual contact with these plans or specifications shall evidence of acceptance of these restrictions. In these drawings shall have precedence over scaled or shall verify and be responsible for all dimensions and and this office must be notified of any variations from the
	ons shown by these drawings. Shop details must be e for approval before proceeding with fabrication.
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DRAWING TITLE	LINE CALCULATIONS
	AND DETAILS
SHEET NO:	E304



GENERAL NOTES FOR DEMOLITION:

1. DEMOLITION WORK SHALL BE PERFORMED ACCORDING TO THE ARCHITECTURAL AND ELECTRICAL CONSTRUCTION DOCUMENTS.

2. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL LIGHT LUMINAIRES AND ELECTRICAL DEVICES WITH ASSOCIATED CONDUIT AND WIRING IN THE WAY OF THE NEW TENANT IMPROVEMENT SCOPE OF WORK. REMOVE, REROUTE AND REWIRE EXISTING FIXTURES, RECEPTACLES AND JUNCTION BOXES THAT REMAIN.

3. EXTENDED BRANCH CIRCUIT CONDUIT AND WIRING TO MATCH EXISTING FOR ALL RELOCATED DEVICES AND EQUIPMENT.

4. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING EQUIPMENT AND DEVICES THAT REMAIN IN OPERATION. RE-ROUTE CONDUIT AND WIRING FROM THE DEVICES THAT ARE REMOVED TO THE NEAREST DEVICE WHICH WILL REMAIN. UPDATE NEW PANEL SCHEDULES ACCORDINGLY AND REPORT FINDING TO ENGINEER OF RECORD.

5. PROVIDE NEW BRANCH CIRCUITS, PANEL FEEDERS AND DEVICES AS SHOWN ON THE PLANS OR AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM, IN FULL ACCORDANCE AND COMPLIANCE WITH ALL APPLICABLE CODES.

6. ALL EQUIPMENT WHICH IS DISCONNECTED AND REMOVED SHALL BE RETURNED TO THE OWNER OR THE OWNER SHALL BE PROVIDED SALVAGE VALUE OF SAID EQUIPMENT AT THE OWNER'S REQUEST. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR WHICH EQUIPMENT IS TO BE KEPT.

 FURNISH AND INSTALL ALL NECESSARY CONDUIT, WIRES, JUNCTION BOXES, BLANK COVER PLATES, ETCETERA, AT ALL LOCATIONS AFFECTED BY THE RELOCATION OF OUTLETS.
 WHERE INTERRUPTION OF A CIRCUIT FEEDING EXISTING EQUIPMENT OCCURS DUE TO NEW SCOPE OF WORK, THE CIRCUIT SHALL BE REHABILITATED AND MADE CONTINUOUS FROM PANEL TO LAST EXISTING OUTLET THAT REMAINS.

9. THE CONTRACTOR SHALL REUSE EXISTING CONDUIT RUNS AND HOMERUNS WHERE POSSIBLE ACCORDING TO THE CODES THAT HAVE JURISDICTION. PULL NEW WIRES AS REQUIRED BY CODE AND THE AUTHORITY HAVING JURISDICTION.

10. UPDATE ALL PANEL DIRECTORIES AT THE EXISTING PANELS TO REFLECT NEW WORK.

11. THE CONTRACTOR SHALL FIELD VERIFY THE CONNECTED LOAD IN EXISTING FEEDERS AND BRANCH CIRCUITS THAT ARE AFFECTED BY THIS PROJECT'S SCOPE OF WORK PRIOR TO ADDING NEW LOAD TO EXISTING CONDUCTORS, CIRCUIT BREAKERS, PANELS, TRANSFORMERS AND SWITCHGEAR. NOTIFY THE ARCHITECT IMMEDIATELY IF ANY EXISTING EQUIPMENT IS FOUND TO BE OVERLOADED OR WILL BECOME SO IF NEW LOAD IS ADDED TO THE CIRCUIT OR FEEDER. REPORT ALL FINDINGS TO THE ENGINEER OF RECORD.

12. THE DEMOLITION DRAWING, EXISTING PANEL SCHEDULE(S) AND EXISTING SINGLE LINE DIAGRAM(S) ARE BASED ON EXISTING DRAWINGS AND OWNER SUPPLIED INFORMATION. THERE HAS BEEN NO VERIFICATION OF PRECISE LOCATIONS, WIRING OR OPERATION OF EXISTING EQUIPMENT. THE CONTRACTORS SHALL VERIFY ALL JOB CONDITIONS PRIOR TO BID. THE CONTRACTORS SHALL THOROUGHLY EXAMINE AND VERIFY EXISTING CONDITIONS. ANY CONDITION FOUND UNACCEPTABLE OR IN VIOLATION OF CODES AND AUTHORITIES HAVING JURISDICTION SHALL BE CORRECTED.

13. THE CONTRACTOR SHALL PERFORM ALL FIELD VERIFICATION, OBSERVATION, TESTING AND EXAMINATION WORK PRIOR TO ACTUAL CONSTRUCTION AND BREAKING NEW GROUND. A WRITTEN NOTICE SHALL BE ISSUED OF ALL FINDINGS TO THE ARCHITECT, LISTING MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.

14. THE CONTRACTOR SHALL PROVIDE ADDITIONAL LABOR AND MATERIALS REQUIRED TO ENSURE A COMPLETE AND OPERABLE SYSTEM IN ACCORDANCE WITH CODES AND ALL AUTHORITIES HAVING JURISDICTION. ALL NOTICE TO THE ARCHITECT SHALL BECOME PART OF THE CONTRACTOR'S WORK AS IF IT WERE INDICATED AND APPLIED ON THE CONSTRUCTION DOCUMENTS.

15. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL WORK AND COSTS ASSOCIATED WITH RELOCATING JUNCTION BOXES, PULL BOXES OR ANY OTHER DEVICE THAT I RENDERED INACCESSIBLE AS A RESULT OF THE NEW WORK.

16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO STORE AND RE-USE ELECTRICAL SYSTEMS, INCLUDING LUMINAIRES, CONDUIT AND WIRING, WHERE POSSIBLE.

17. REMOVE SURFACE MOUNTED OUTLETS, CONDUIT AND WIRING, ETCETERA, AND ABANDONED CONCEALED CONDUITS IN CONCRETE IN PLACE THAT ARE NO LONGER REQUIRED. ANY DEMOLITION OF WIRES TO BE PULLED OUT OF OVERHEAD AREA MUST BE COMPLETELY REMOVED AND NOT LEFT ABANDONED IN THE SPACES ABOVE DROP CEILINGS OR SIMILAR SPACES. ANY UNNEEDED EXISTING CONDUIT AND WIRING FOUND ABANDONED IN THE OVERHEAD CEILING SPACE SHALL BE COMPLETELY REMOVED.

18. BRANCH CIRCUITRY WHICH IS NO LONGER IN USE SHALL BE REMOVED BACK TO THE SOURCE OR TO THE NEAREST DEVICE THAT WILL REMAIN IN SERVICE.

19. PROVIDE NEW CIRCUIT IDENTIFICATION TO ALL EXISTING DEVICES THAT WILL REMAIN AFTER COMPLETION OF NEW SCOPE OF WORK.

20. THE CONTRACTOR SHALL REPAIR AND/OR RE-PAINT ALL AREAS DAMAGED BY DEMOLITION OF CONSTRUCTION AND FINISH TO MATCH EXISTING ADJACENT SURFACES.

21. THE CONTRACTOR SHALL PROTECT AND COVER ALL LUMINAIRES AND ELECTRICAL DEVICES IN AREAS AFFECTED BY NEW SCOPE OF WORK. UPON COMPLETION OF WORK, SHALL THOROUGHLY CLEAN ALL LUMINAIRES, EQUIPMENT, WALLS AND CEILING FROM DUST AND

22. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH CLEAN UP AND DISPOSAL OF EQUIPMENT NOT RETURNED TO THE OWNER. CONTRACTOR SHALL ALSO INCLUDE ALL COST ASSOCIATED WITH CLEAN UP AND DISPOSAL OF HAZARDOUS MATERIALS.

POWER & SIGNAL PLAN REFERENCE NOTES:

MAINTAIN MINIMUM CODE REQUIRED WORKING SPACE CLEARANCE OF 3'-0" ABOUT ELECTRICAL EQUIPMENT PER NEC ARTICLE 110.26.

NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE ALLOWED IN THE DEDICATED SPACE ABOVE AND BELOW ELECTRICAL PANELS. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FEET ABOVE THE ELECTRICAL EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION, PER NEC ARTICLE 110.26.

EXISTING WALL OUTLETS INDICATED BY SCRIPT "(E)" ARE TO REMAIN. MAINTAIN EXISTING CIRCUIT CONTINUITY. FIELD VERIFY ALL LOCATIONS PRIOR TO BID. AS BUILD ELECTRICAL PLANS UPON COMPLETION OF CONSTRUCTION.

CONTRACTOR TO COORDINATE RELOCATION OF EXISTING TELEPHONE SERVICE AND/OR NEW CABLE TV SERVICE TO THE PROPERTY WITH EXISTING UTILITY COMPANIES. PROVIDE AND INSTALL A CONDUIT RISER AND WEATHERHEAD PER RESPECTIVE UTILITY COMPANY REQUIREMENTS.

CATV OUTLET. PROVIDE AND INSTALL A PLASTER RING OR JUNCTION BOX WITH 3/4" C.O. STUB UP TO ACCESSIBLE CEILING SPACE FOR DATA CABLING BY OTHERS. CONFIRM FINAL LOCATION WITH ARCHITECT OR OWNER'S REP PRIOR TO ROUGH-IN.

TELEPHONE/DATA OUTLET. PROVIDE AND INSTALL A PLASTER RING OR JUNCTION BOX WITH 3/4" C.O. STUB UP TO ACCESSIBLE CEILING SPACE OR LOW VOLTAGE RACEWAY SYSTEM FOR DATA CABLING BY OTHERS. CONFIRM FINAL LOCATION WITH ARCHITECT OR OWNER'S REP PRIOR TO ROUGH-IN.

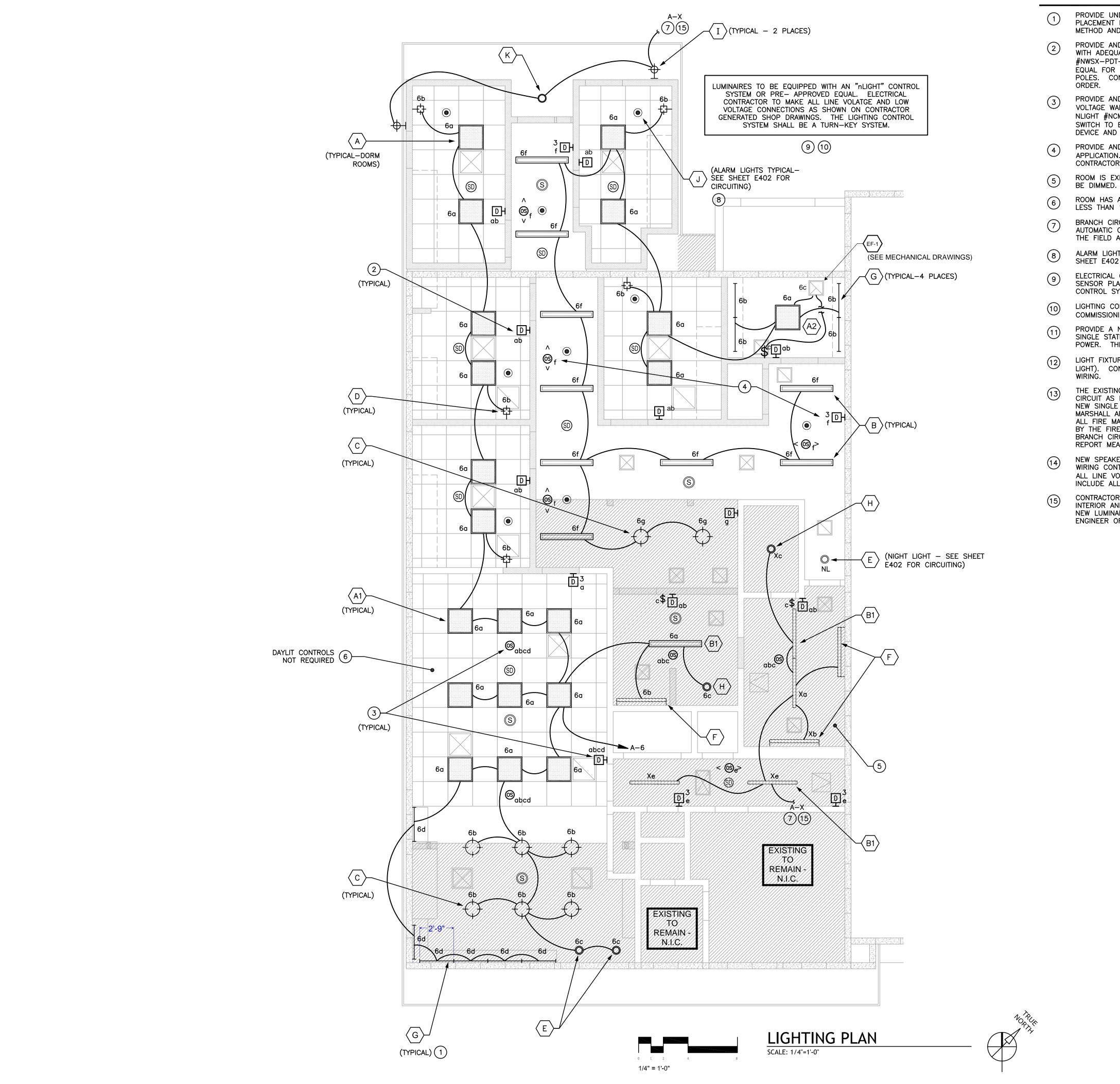
KITCHEN EQUIPMENT. ELECTRICAL CONTRACTOR SHALL VERIFY LOCATION, CONNECTION SPECIFICATION AND MOUNTING HEIGHTS WITH VENDOR AND OWNER PRIOR TO ROUGH-IN.

ALL 15 AND 20A 120V RECEPTACLES INSTALLED IN KITCHEN AND FOOD PREP AREAS SHALL BE GFCI PROTECTED AND "READILY ACCESSIBLE [NEC210.8]. ACCESSIBILITY TO RECEPTACLE SHALL NOT REQUIRE MOVEMENT OF EQUIPMENT AND/OR ANY ADDITIONAL TOOLS, LIKE A LADDER, IN ORDER TO GAIN ACCESS TO THE RECEPTACLE. IF RECEPTACLES ARE NOT ABLE TO BE LOCATED IN AN ACCESSIBLE SPACE, PROVIDE AND INSTALL A GFCI TYPE CIRCUIT BREAKER FOR THE CIRCUIT IN THIS SPACE.

PROVIDE AND INSTALL NEW SURFACE MOUNTED RACEWAY BY WIREMOLD OR APPROVED EQUAL. TO BE STAINLESS STEEL AND LOCATED ABOUT COUNTERTOP. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS AND LENGTH. RACEWAY TO BE SINGLE FOR POWER DEVICES ONLY.

COUNTERTOP APPLIANCES, 120V-1Ø. SEE ARCHITECTURAL ELEVATIONS FOR OUTLET HEIGHTS AND CONFIRM LOCATIONS WITH OWNER'S REP PRIOR TO ROUGH-IN.

Engineers
CONSULTING ELECTRICAL ENGINEERS 1238 7th Street, Santa Monica, Ca. 90401 Tel: (424) 272-6709
EKP. 9-30-22
BDLG. OWNER:
PROJECT:
FIRE STATION 4 RENOVATION
PROJECT ADDRESS:
5205 CALLE MAYOR TORRANCE, CA 90505
ISSUE OR REVISION NOTES:
NO. DATE DESCRIPTION
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PROJECT NO: 21-108
DRAWN BY: E ENGINEERS CHECKED BY: EP
PROJECT MANAGER: EP
DRAWING SCALE: AS NOTED SHEET SIZE: 24X36
DRAWING TITLE:
POWER AND SIGNAL PLAN
SHEET NO: E400



LIGHTING PLAN REFERENCE NOTES:

PROVIDE UNDERCABINET LIGHTS FOR COUNTER LIGHTING AND MINIMIZE GLARE BY PLACEMENT DIRECTED BY THE ARCHITECT. SEE ARCHITECTURAL DETAIL FOR MOUNTING METHOD AND LOCATION. PROVIDE SWITCH AS SHOWN ON ARCHITECTURAL DETAIL.

PROVIDE AND INSTALL A PDT WALL TYPE SWITCH OCCUPANCY SENSOR CONTROL DEVICE WITH ADEQUATE COVERAGE OF ROOM TO DIM LOAD. TO BE NLIGHT #NWSX-PDT-LV-DX-PDT-D SERIES WITH STAINLESS-STEEL COVER PLATE OR APPROVED EQUAL FOR 1 POLE (2-POLE VERSION NOT AVAILABLE). SEE FLOOR PLANS FOR REQUIRED POLES. CONTRACTOR TO CONFIRM DEVICE AND LUMINAIRE ARE COMPATIBLE PRIOR TO

PROVIDE AND INSTALL A DUAL TECHNOLOGY CEILING TYPE OCCUPANCY SENSOR WITH LOW VOLTAGE WALL BOX DIMMER(S) WITH ADEQUATE COVERAGE OF ROOM. SENSOR TO BE NLIGHT #NCM-PDT-9-RJB SERIES WITH POWER PACK OR APPROVED EQUAL. DIMMER SWITCH TO BE NLIGHT #NPODM SERIES OR APPROVED EQUAL. CONTRACTOR TO CONFIRM DEVICE AND LUMINAIRE ARE COMPATIBLE PRIOR TO ORDER.

PROVIDE AND INSTALL DUAL TECHNOLOGY WIDE VIEW CEILING SENSORS FOR A HALLWAY APPLICATION. SENSOR TO BE NLIGHT #NCM-PDT-10-RJB SERIES OR APPROVED EQUAL. CONTRACTOR TO CONFIRM DEVICE AND LUMINAIRE ARE COMPATIBLE PRIOR TO ORDER. ROOM IS EXEMPT FROM MULTI-LEVEL CONTROL REQUIREMENTS - ALL LIGHTS SHALL NOT BE DIMMED.

ROOM HAS A COMBINED TOTAL INSTALLED GENERAL LIGHTING POWER IN THE DAYLIT ZONES LESS THAN 120W. AUTOMATIC DAYLIGHTING CONTROL IS NOT REQUIRED.

BRANCH CIRCUIT TO BE ROUTED VIA THE EXISTING LIGHTING CONTROL PANEL FOR AUTOMATIC CONTROL OF LUMINAIRES. CONTRACTOR SHALL IDENTIFY CIRCUIT NUMBER IN THE FIELD AND CONFIRM CAPACITY IS AVAILABLE FOR THE NEW LED LIGHTING.

ALARM LIGHT. SEE SHEET E402 FOR BRANCH WIRE CIRCUITING. SEE DETAIL "A" ON SHEET E402 FOR SEQUENCE OF OPERATION AND TYPICAL WIRING DIAGRAM.

ELECTRICAL CONTRACTOR SHALL VERIFY ALL TYPES, QUANTITIES AND COMPATIBILITY OF SENSOR PLACEMENT AND SPECIFICATION WITH MANUFACTURER PRIOR TO ORDERING LIGHTING CONTROL SYSTEM.

LIGHTING CONTROL SYSTEM SHALL INCLUDE: 1) START-UP, 2) PROGRAMMING, 3) COMMISSIONING AND 4) END USER TRAINING.

PROVIDE A NON-SWITCHED HOT LEG OF DEDICATED FIRE ALARM BRANCH CIRCUIT TO ALL SINGLE STATION SMOKE ALARMS AND SMOKE DETECTORS AS THE PRIMARY SOURCE OF POWER. THE SECONDARY POWER SOURCE SHALL BE A LOCAL BATTERY.

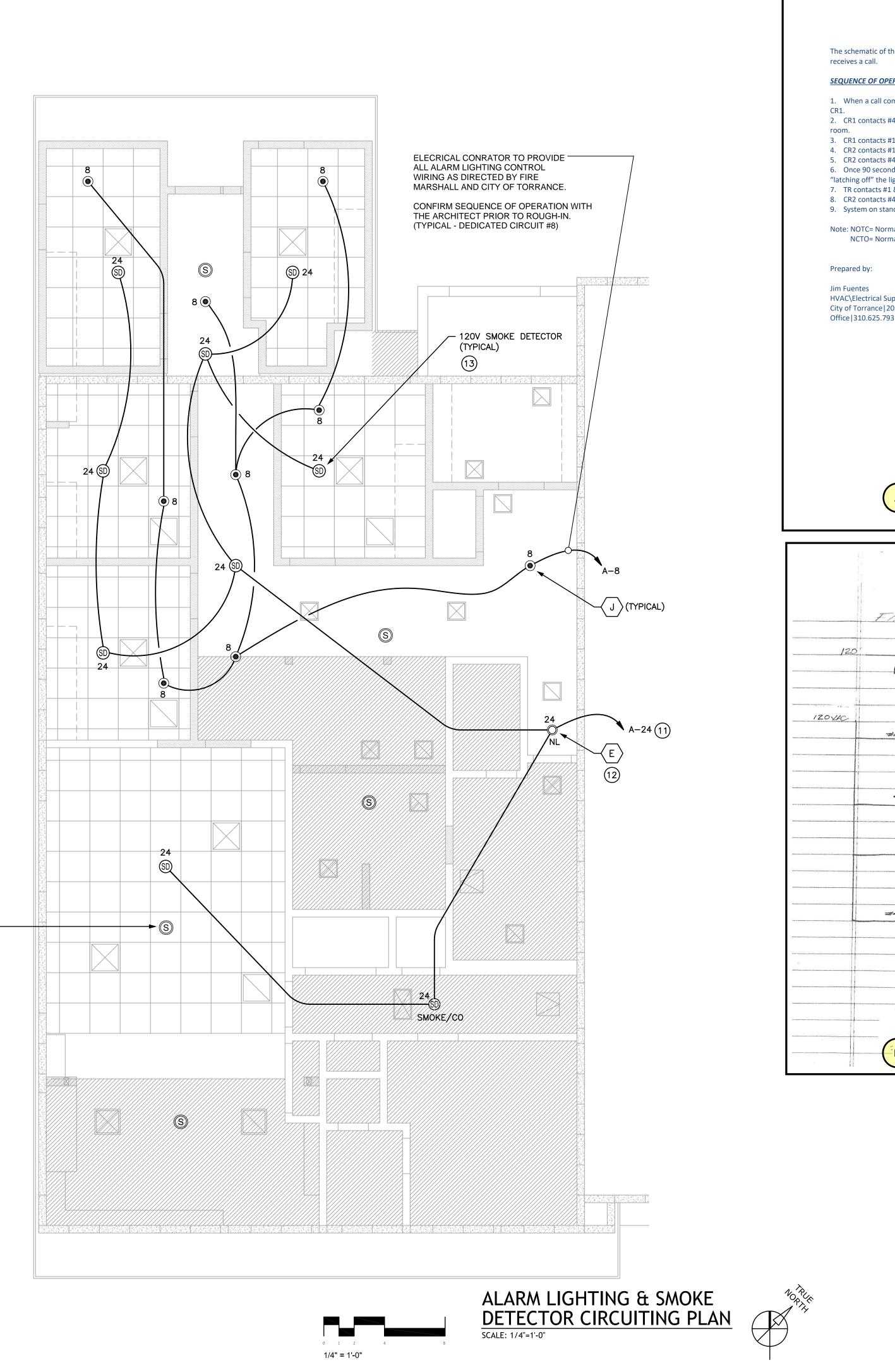
LIGHT FIXTURES TO BE UNSWITCHED AND REMAIN "ON" FOR 24-HOUR OPERATION (NIGHT LIGHT). CONFIRM ALL FIXTURE LOCATIONS WITH OWNER'S REP PRIOR TO INSTALLING

THE EXISTING FIRE ALARM CONTROL PANEL 120V-1Ø, TO REMAIN. USE NEW BRANCH CIRCUIT AS INDICATED ON FLOOR PLANS AND MAKE ALL LINE VOLTAGE CONNECTIONS TO NEW SINGLE STATION SMOKE ALARMS. THE GENERAL CONTRACTOR TO PROVIDE A FIRE MARSHALL APPROVED FIRE ALARM SYSTEM. SYSTEM TO BE "DESIGN BUILT" AND INCLUDE ALL FIRE MARSHALL REQUIREMENTS. THE SYSTEM IS A DEFERRED SUBMITTAL. IF ALLOWED BY THE FIRE MARSHALL, SMOKE DETECTORS CAN BE WIRED TO THE LOCAL LIGHTING BRANCH CIRCUIT FOR PRIMARY POWER AND A LOCAL BATTERY FOR SECONDARY POWER. REPORT MEANS AND METHODS TO ENGINEER OF RECORD.

NEW SPEAKER LOCATIONS. EXTEND NEW LOW VOLTAGE WIRING TO THE EXISTING SPEAKER WIRING CONTROL PANEL AND FIELD VERIFY 120V-1¢ LINE VOLTAGE WIRING SOURCE. MAKE ALL LINE VOLTAGE CONNECTIONS TO CONTROL PANEL. SYSTEM TO BE "DESIGN BUILT" AND INCLUDE ALL FIRE STATION REQUIREMENTS.

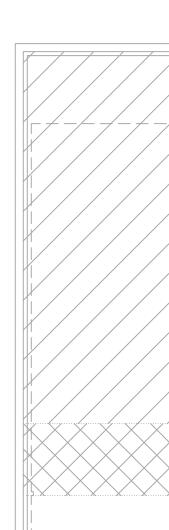
CONTRACTOR TO FIELD VERIFY EXISTING CIRCUIT NUMBER USED FOR THE DEMOLISHED INTERIOR AND EXTERIOR LIGHTING FIXTURES. THIS CIRCUIT SHALL BE RE-USED FOR THE NEW LUMINAIRES. UPDATE PANEL SCHEDULES IN THE FIELD AND REPORT FINDING TO THE ENGINEER OF RECORD.

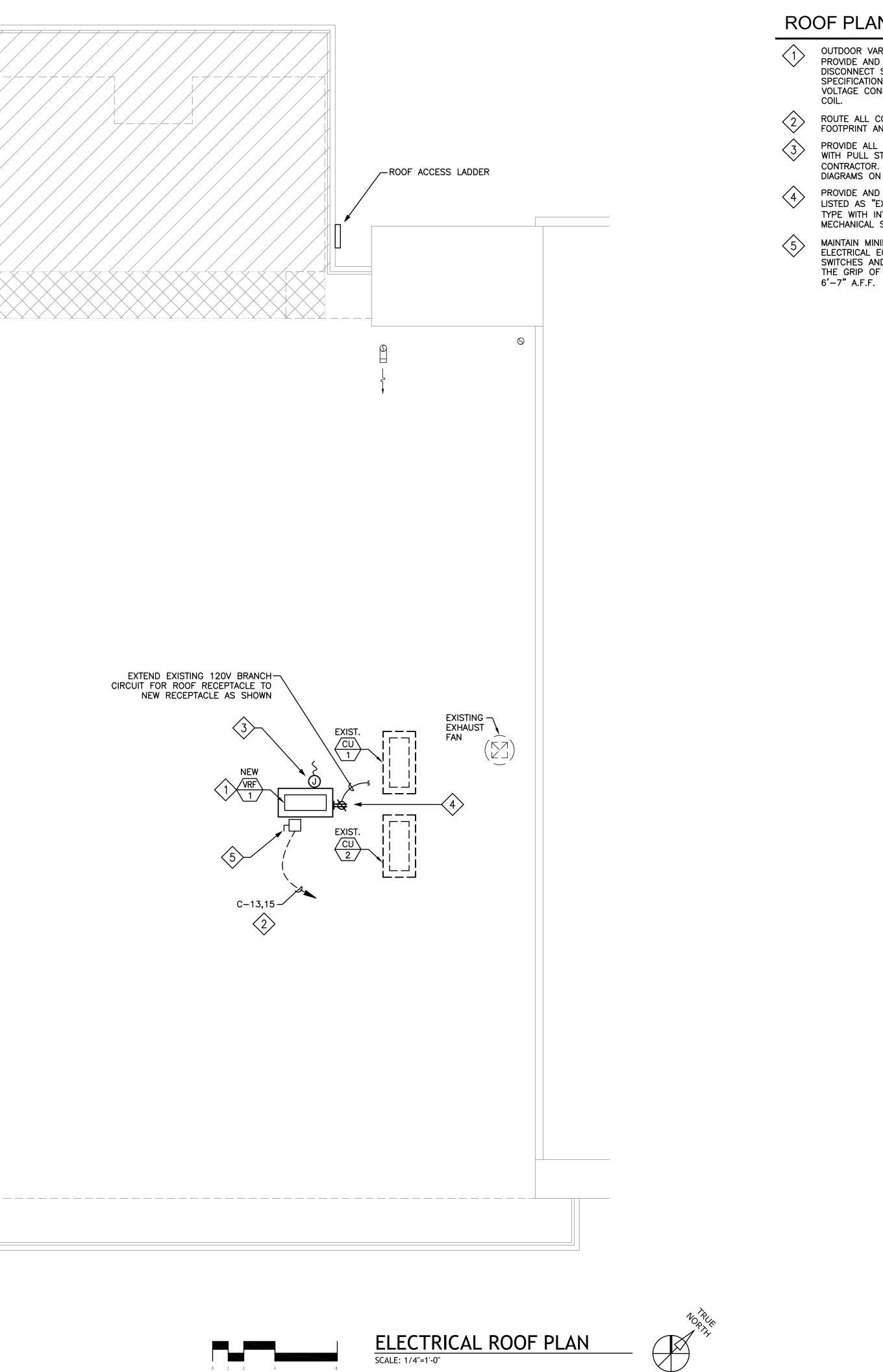
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PROJE	CT MANAG	GER: EP
DRAWI	NG SCALE	: AS NOTED
SHEET	SIZE:	24X36
DRAWI	ng title: LIG	HTING PLAN
SHEET	NO:	E401



CEILING MOUNTED SPEAKER – (TYPICAL) (14)

atic of the ring down system that turns the lights on in the dorm rooms whe call. OF OPERATION: a call comes in from dispatch the momentary contacts to CR1 are closed ene ntacts #43 & 44 will momentarily close energizing LC1 "latching on" the light ntacts #13 & 14 will momentarily close energizing CR2.	ergizing		NSULTIN	GINEERS GELECTRICAL ENGINEERS eet, Santa Monica, Ca. 90401 (424) 272-6709
ntacts #13 &14 will close to keep CR2 energized. ntacts #43 &44 will close energizing TR. 0 seconds have elapsed, TR contacts #9 & 6, NOTC, will close energizing LC1 ff" the lights in the room. tacts #1 & 7, NCTO, will open de-energizing CR2. ntacts #43 &44 open de-energizing TR. o on stand by for next call. C= Normally Open, Timed Closed D= Normally Closed, Timed Open			REGIO	ROFESSIONAL RED PROFESSIONAL RED P. PERCON
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ance 20500 Madrona Avenue Torrance,CA 90503 310.781.6951 .625.7931 Cell jfuentes@torranceca.gov www.TorranceCA.Gov				
A SEQUENCE OF OPERATIONS		PROJ	ECT:	
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#1 #7 #3 CRI #14 AI CR.	AZ			
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B RING DOWN LADDER DIAGRAM	<u>N</u>			specifications, ideas, designs and arrangements e and shall remain the property of the designer,
	_	and no connect which t of the constitu Written	part thereof ion with any wo ney have been designer. Visue ite conclusive of dimensions on	shall be copied, disclosed to others or used in ork or project other than the specified project for prepared and developed without the written consent al contact with these plans or specifications shall avidence of acceptance of these restrictions. these drawings shall have precedence over scaled
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۲	ALARM LIGHT	DRAW	N BY: E	ENGINEERS CHECKED BY: EP
S	SPEAKER	PROJ	ECT MANAG	GER: EP
	SMOKE DETECTOR	DRAW	ING SCALE	: AS NOTED
SD	JWICKE DETECTUR		T SIZE:	24X36
				LIGHTING & SMOKE
SEE SHEET E	401 FOR ALL	DE	TECT	OR CIRCUITING PLAN
(#) REFERENC	E NOTES	SHEE	T NO:	
	I			E402





1/4" = 1'-0"

ROOF PLAN REFERENCE NOTES:

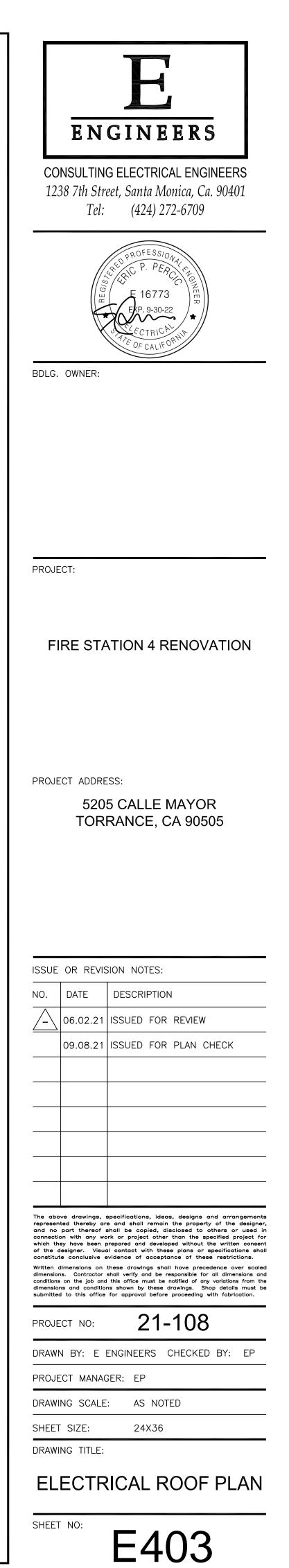
OUTDOOR VARIABLE REFRIGERANT FLOW SPLIT SYSTEM HEAT PUMP 240V-10 11MCA. PROVIDE AND INSTALL A LOCKABLE, WEATHERPROOF 30AS/15AF/2P HP RATED FUSED DISCONNECT SWITCH AND MAKE CONNECTION TO UNIT. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. MAKE ALL LINE VOLTAGE CONNECTIONS TO INDOOR FAN COIL UNIT. OUTDOOR UNIT POWERS INDOOR FAN

ROUTE ALL CONDUITS TO ROOF-TOP MECHANICAL UNITS WITHIN ROOF TOP UNITS' FOOTPRINT AND HORIZONTALLY THROUGH ATTIC SPACE.

PROVIDE ALL LINE VOLTAGE BRANCH CIRCUIT WIRING AND ALL LOW VOLTAGE CONDUIT ONLY WITH PULL STRING FOR CONTROL OF MECHANICAL SYSTEMS AS DIRECTED BY MECHANICAL CONTRACTOR. USE WEATHERPROOF JUNCTION BOX(ES) IN OUTDOOR AREAS. SEE WIRING DIAGRAMS ON MECHANICAL DRAWINGS.

PROVIDE AND INSTALL A RECEPTACLE AND ENCLOSURE THAT IS WEATHERPROOF AND IS LISTED AS "EXTRA DUTY". THE RECEPTACLE SHALL BE LISTED AS WEATHER RESISTANT TYPE WITH INTEGRAL GFCI PROTECTION. LOCATION SHALL BE WITHIN 25' OF ALL MECHANICAL SYSTEMS ON THE ROOF OR GROUND FLOOR EXTERIOR AREAS.

MAINTAIN MINIMUM CODE REQUIRED WORKING SPACE CLEARANCE OF 3'-0" ABOUT ELECTRICAL EQUIPMENT, PER NEC ARTICLE 110.26. IN ADDITION, ALL DISCONNECT SWITCHES AND CIRCUIT BREAKER HANDLES SHALL BE INSTALLED SO THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE WHEN IN THE HIGHEST POSITION IS NOT MORE THAN

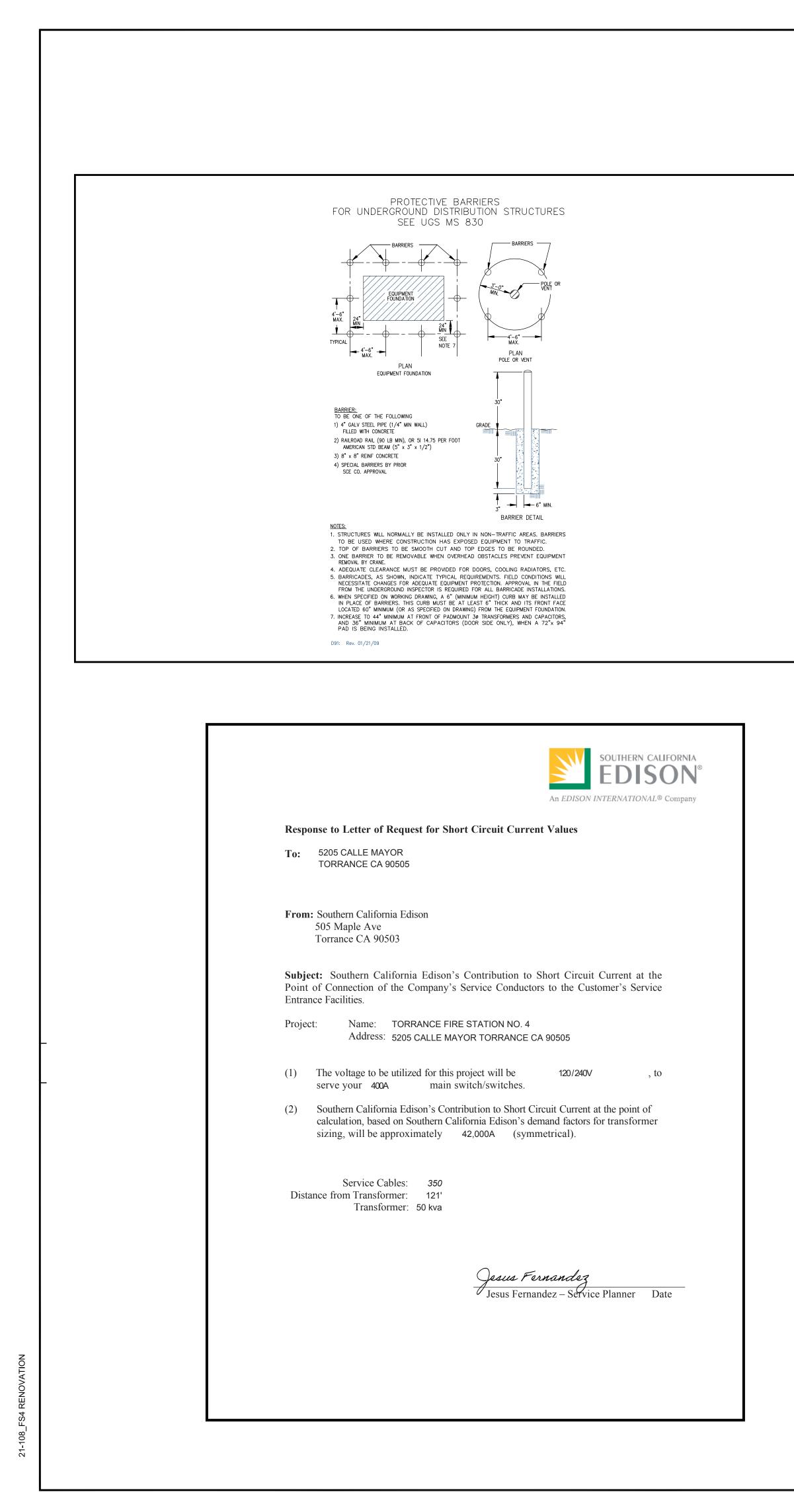


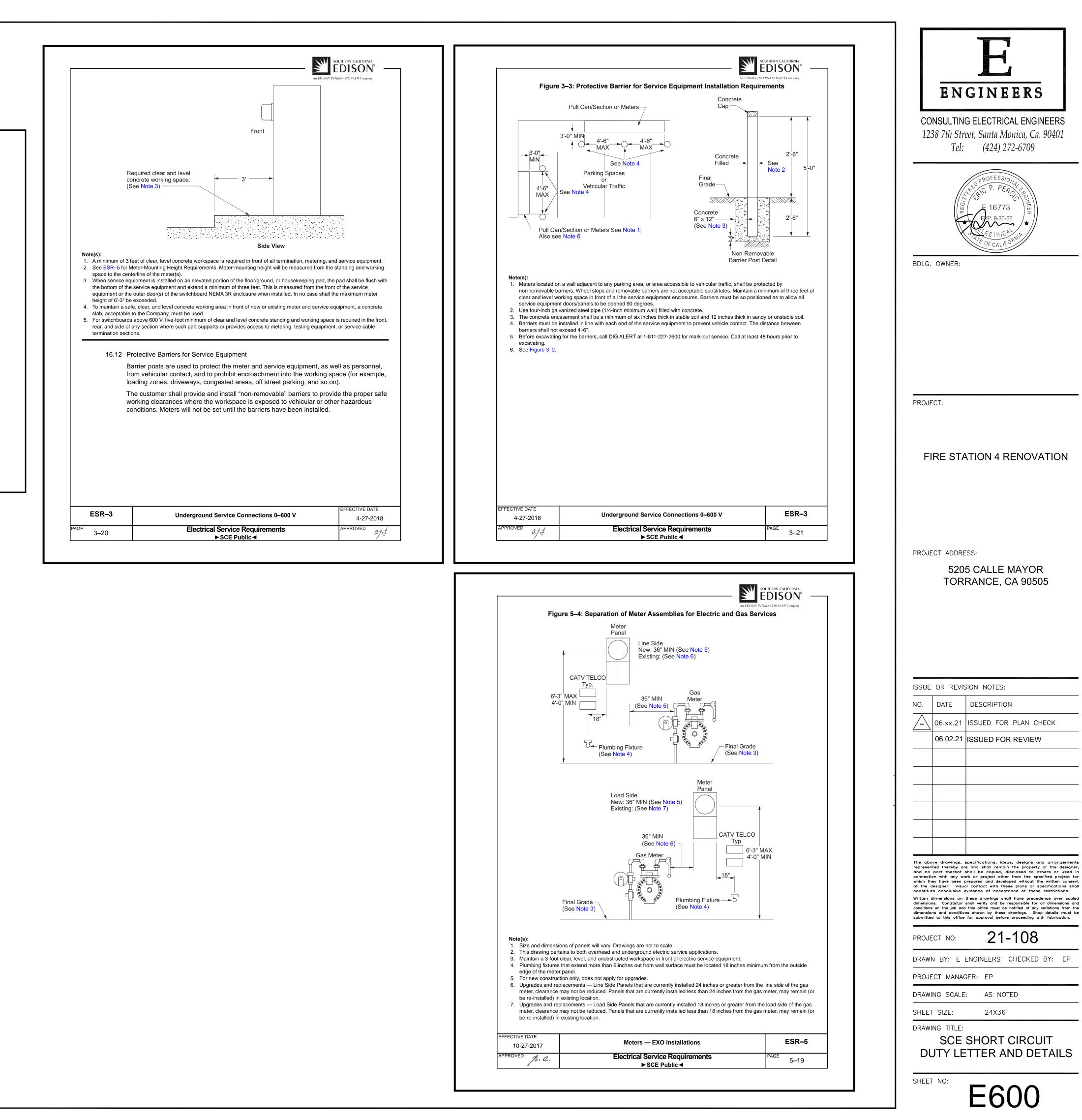
PANEL VOLTAGE LOCATION		VOLT 1-PH 3-W I'S HALLWAY		TYPE MAIN BUS S	L.O. 200 AMF	PERE		FULLY RA AIC AT	TED: 22, 240V-1PI		
	А		MSC/ CKT P			LCL		A B		TION	
APPARATUS LT APPARATUS LT APPARATUS LT	G 2 G 3 900	3 900 3 3	1 3 5	1 20 1 20 1 20	20 1	2 4 6 1	57 1	075 L	SPACE SPACE IVING AREA	LTG	
APPARATUS LT XMAS TREE LTC HALL RESTROC	G 500	200 4 1 900 5	7 9 11	1 20 1 20 1 20	20 1	8 LOCK 10 12	9 5 2	740 0	ALARM LTG CPTN & HALL DAY ROOM	LTG	
SPARE HOSE TOWER L HOIST MOTOR		800 5	13 15 17	1 20 1 15 2 30	20 1	14 16 18 J	1	1200 [(ITCHEN HO DISPOSER 1 IVAC CONTR		
[1.5HP] CAPTAIN DORM SPARE	1	120 5	19 21 23	/ / 1 20 1 20	15 1 15 1	20 22 24 LOCK		816 H	IEATER FAN	1	
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					<u> </u>		CL ADDER: 7 TOTAL VA: 16 KVA LOAD:	5090 15311 31401			
NOTES: 1) CONTRAC		ND AND RELOCAT					AMP LOAD:	131	MPERE		
BRANCH CIR LOCATION. F	CUITS IN PAN FEEDER HAS I	EL TO NEW PANEL BEEN UPGRADED.	AND AT SAMI	E							
IN THE COLU 3) OLD PANE	JMN MARKED	O WITH AN INTEGR	RAL LIGHT SW								
JUNCTION BO 4) CIRCUIT D	OX WITH REC	E NEW SWITCH IN ESSED COVER PL/ N NON-BOLD FON	ATE.	TING							
	CUIT TO REM	AIN									
	VA) LTG B	REC MSC/	CKT POL	E BKR	BKR POL		MSC/ REC	LTG	`	VA) D B	ESCRIPTION
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AL 37773 3	5939		23			24			0	SPA 0 SU	ACE B-TOTAL
							LCL /	OTALS: ADDER:			
							TOTAL KVA		73	3712	
					<u> </u>		TOTAL AMF	P LOAD:		307 AM	<u>PERE</u>
		NIN BREAKER ST SAVINGS.		K							
					<u> </u>						

7) ALL CONDUCTORS SHALL BE COPPER AND RATED FOR 90 DEGREE CELSIUS AND 600V. SIZES NO. 8 AWG AND LARGER SHALL BE STRANDED AND NO. 10 AWG AND SMALLER SHALL BE SOLID. USE TYPE THHN/THWN-2/XHHW/XHHW-2.

8) ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE.

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ISSUE OR REVISION NOTES:	
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PROJECT NO: 21-108	
DRAWN BY: E ENGINEERS CHECKED BY: EP)
DRAWING SCALE: AS NOTED	
SHEET SIZE: 24X36	
DRAWING TITLE: PANEL SCHEDULES	
FANEL SUREDULES	





CREW & CUSTOMER MAP - TD# 1856232 CONTACTS: CALL LOUIS ORTEGA FOR ACCESS THRU GATE LOUIS ORTEGA 310-953-1355 ERIC PERCIC 424-272-6709

CONSTRUCTION NOTES: Unless otherwise specified on the working drawing which forms a part of the specification, the Contractor/Developer shall furnish the following items at no cost to the Edison Company. Southern California Edison Company has attempted to correctly show all existing utilities and substructures in the vicinity of the work, but does not guarantee there are no other substructures in the area. Failure of SCE to show all substructures in their correct location will not be a basis for a claim for extra work, and the contractor shall be responsible for all damages to substructures whether shown or not.

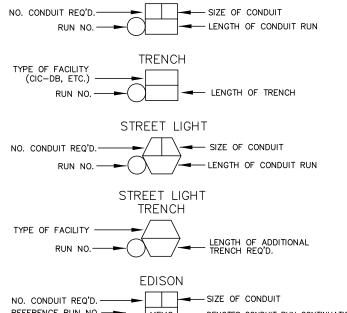
- CONDUIT:

 Minimum cover in street or parkway is 30" below gutter grade, unless noted otherwise.
 Minimum cover on private property is 30" below finished grade, unless noted otherwise.
 Contractor is to furnish and install approved conduit to Edison specifications per UGS CD 100.1, 110 AND 120.
 For the type of conduit for this job, See UGS CD 110.1.
 Install all risers per UGS CD 160, 161, 162 and 170.
 Cop all mainline conduits per UGS CD 148 and service conduits per UGS CD 150.
 Install blank conduits plugs in all conduits terminating into Vaults, Manhole's, PMH's, SOE's & all cap locations, per UGS CD 180.1 & UGS CD 180.2
 Install pull rope in all conduit runs. Pull rope to be at least 3/8" polypropylene rope, braided or twisted. For specifications, approved makes, and suppliers, see UGS (0 400.
- For specifications, approved makes, and suppliers, see UGS GI 040. i. All conduit must be mandreled with the approved mandrel UGS CD 197.
- 5. CONDUIT RADIUS REQUIREMENTS:

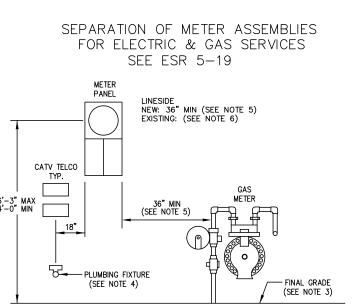
1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.

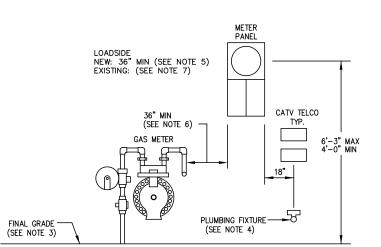
- a: The minimum radius for bends are:
 36" for conduits 3" in diameter or smaller
 48" for conduits 4" and 5" in diameter
 60" for 6" diameter conduit
 b: The minimum radius for all sweeps of all mainline conduits is 12'-6" (unless noted otherwise).
- 4. EXCAVATION AND BACKFILL:
- a. Work area shall be cleared and rough graded to within four inches of final grade prior to installation of Edison conduit or structures.
 b. All excavations shall be in accordance with the California State Construction Safety Orders (when applicable),
- Backfill with a MINIMUM of one sack per yard sand cement surry around and over vauits and manholes per USS (10 70 and 10 and 10
- JGS GI 030, section 6.4 and around PMH's within one foot of finished grade, per UGS SS 590.1 f. Backfill, per Edison specifications, shall immediately follow conduit or substructure installation. At no time
- 1. Backfill, per Laison specifications, shall immediately follow conduit or substructure installation. At no time shall conduit be left exposed over 24 hours.
 g. No rocks are allowed within 12 inches of direct-buried cables or any conduit without concrete encasement. Native backfill capable of passing through a one-half inch mesh screen shall be considered to be "rock free". If existing backfill does not pass through a 1/2" screen, place imported sand 3" below and 12" above Edison cables. After this point, no rocks larger than 12" diameter are permitted. All backfill shall be compacted to meet or exceed local ordinances or other requirements. It shall be placed in a manner that will not damage the conduit or substructure or allow future subsidence of the trench or
- Repaving, where required, shall be placed in such a manner that interference with traffic, including pedestrian traffic, will be kept to a minimum. The Contractor shall establish a program of repaving acceptable to the Municipality, County, or other authority having jurisdiction and which is acceptable to Edison.
- 6. STRUCTURES: a. All substructures shall be constructed or installed to Edison specifications. b. Install protection barriers per UGS MS 830 when required in areas exposed to traffic, per Edison Inspector.
- c. All conduit lines and concrete floored substructures shall be water tight.
 d. All grounding materials shall be furnished and installed by the Contractor.
- 7. RETAINING WALLS: When required, retaining walls shall be provided by the Developer. Walls are required wherever grade rises more than 18 inches above the structure or 24" above the pad surface at a distance of 5 feet from the same, or in areas subject to erosion. Design and installation must comply with local building ordinances. Inspector for typical space requirement
- B. PERMITS: All permits necessary for excavation shall be provided by the Contractor/Developer. ACCESS:
- Heavy truck access shall be maintained to equipment locations. Structures must be clear of all appurtenances that would obstruct the loading or unloading of equipment. 10. SERVICES
- a. Meters and services shall comply with Edison Electrical Services Requirements.
 b. Wiring must be in accordance with applicable local ordinances and approved by local Inspection Authorities. 11. LOCATION a. The location of excavations and structures for Edison shall be as shown on the working drawing. No deviation from the planned locations will be permitted unless approved by the Edison Inspector. See UGS GI 001, section 2.2.
 b. Actual location of obstructions, storm drains, and/or other foreign utilities to be the responsibility of the Contractor. See UGS GI 001, section 2.3.
- 12. Contractor is to verify location and widths of all sidewalks and driveways prior to street light installation. See UGS CD 175.1, UGS CD 175.2 and UGS CD 175.3.
- 13. SURVE Surveying of street improvements, property corners, lot lines, finished grade, etc., necessary for the installation of underground facilities must be completed and markers or stakes placed prior to the start of the installation. In addition, Developer shall maintain the markers during the installation and inspection by Edison. Grade and property line stakes must show any offset measurements.
- 14. COORDINATION AND SUPERVISION: The Developer shall provide supervision over and coordination among the various contractors working within the development in order to prevent damage to Edison facilities. He is responsible for the cost of repairs, replacement, relocation, or other corrections to Edison facilities made necessary by his failure to provide supervision or to otherwise comply with these specifications.
- 15. TELEPHONE AND OTHER UTILITY REQUIREMENTS: The drawing prepared for this job may also cover the facilities to be installed for the telephone company and/or other utility. Any questions concerning details of their installation should be referred to the company concerned.
- 16. OWNERSHIP: Developer is to deed to the Edison Company all structures shown hereon except those shown as customer owned. 17. WARRANTY Applicants expressly represent and warrant that all work performed and all material used in meeting Applicants' obligations before a free from defects in workmanship and are in confirmity with Southern Colifornia Edison Company's requirements. This warranty shall commence upon receipt by Applicants of Company's final acceptance and shall expire one year from that date. Applicants agree to promptly correct to the Company's satisfaction and that of any governmental agency having jurisdiction and at Applicant's expense any breach of this warranty
- which may become apparent through inspection or operation of underground electric system by Company during this 18. INSPECTION: Inspection is required during the construction period. A 48 hour advance notice of intent to start construction is required from the contractor to the Southern California Edison Company. Standards of Edison construction requirements are available upon request.
- Duct and Structure Inspector: JESSE CARRASCO Phone: 310-779-3195 Phone: Cabling Construction Coordinator:
- D05: Rev. 07/21/16
- CONNECTING TO EXISTING SCE STRUCTURES • Per SCE requirements, customers are not allowed to enter, intercept or rie-in to existing SCE facilities; e.g. structures, equipment, multi-conduit runs/banks, or conductors. These facilities may be energized and the work will only be performed by SCE. Contact the appropriate SCE inspector to schedule an appointment. Customers may connect to an existing conduit stub without a SCE inspector present.
- Multi-conduit runs/banks are runs of conduit in close proximity to each other and other SCE facilities. A conduit stub that is a single empty conduit stub that is not in close proximity to other SCE owned facilities. Refer to the work order map for details.
- Per CPUC/SCE's Rule 15 B.1.A and Rule 16 D.1.A., the customer will provide all necessary excavations (with the exception of excavation under pads and primary splice boxes), material (including conduit and structures) and encasement, to be utilized in the intercept/tie-in
- The customer must adhere to all applicable Cal-OSHA, local, city, state and federal regulations, (including, but not limited to, all necessary shoring and traffic control in place to perform the intercept/tie-in work
- by SCE's underground civil contractor(s)). Intercept/tie-in work must be coordinated with SCE's civil contractors through the Division Inspector/P-Spec to limit exposure of excavation(s). Customer is responsible for securing excavation(s).
- D08: 11/13/18

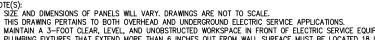




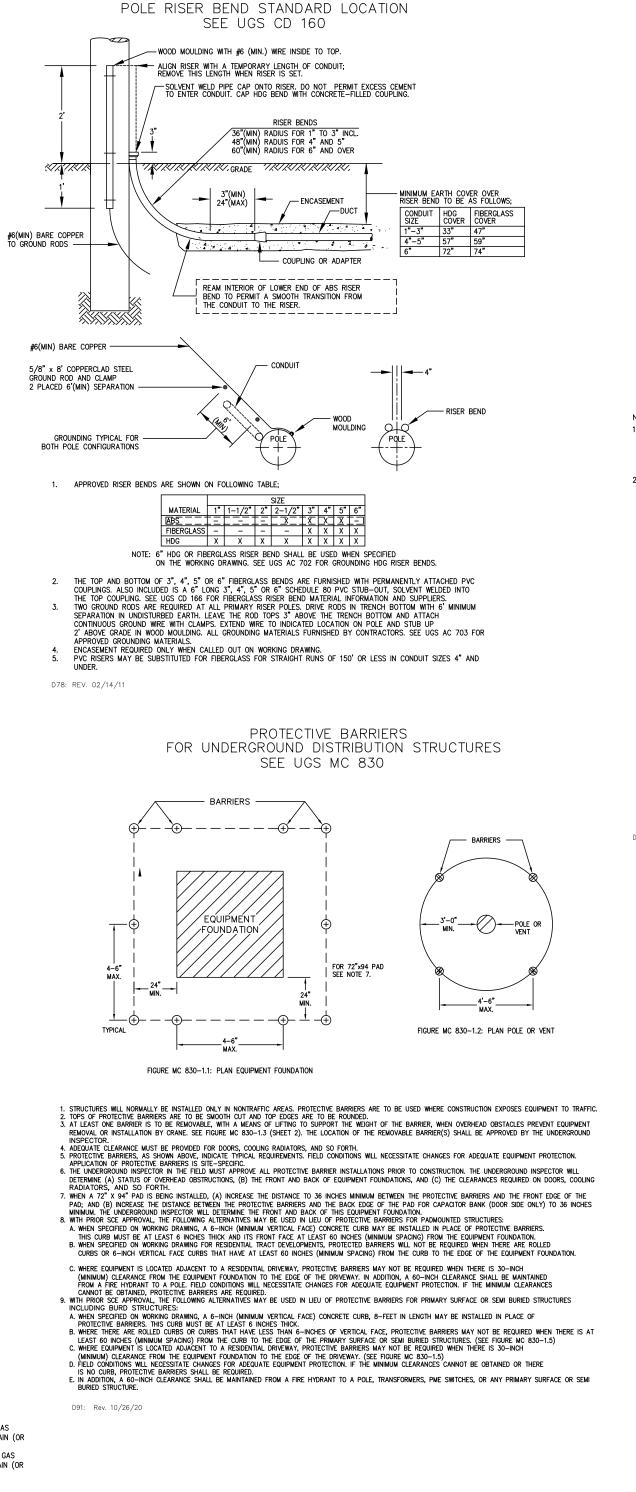
- STREET LIGHT NO. CONDUIT REQ'D.
- ANY OF THE ABOVE SYMBOLS
- - DENOTES THE FOLLOWING: DB CONDUIT WITHOUT ENCASEMENT IS
 - WITH ONLY ONE OR TWO CONDUITS SEMI-ENCASEMENT IS REQUIRED FOR
 - PORTIONS OF TRENCH WITH ONLY THREE OR FOUR CONDUITS
 - FULL ENCASEMENT IS REQUIRED FOR MORE THAN FOUR CONDUITS
- D18: Rev. 5/08/2006

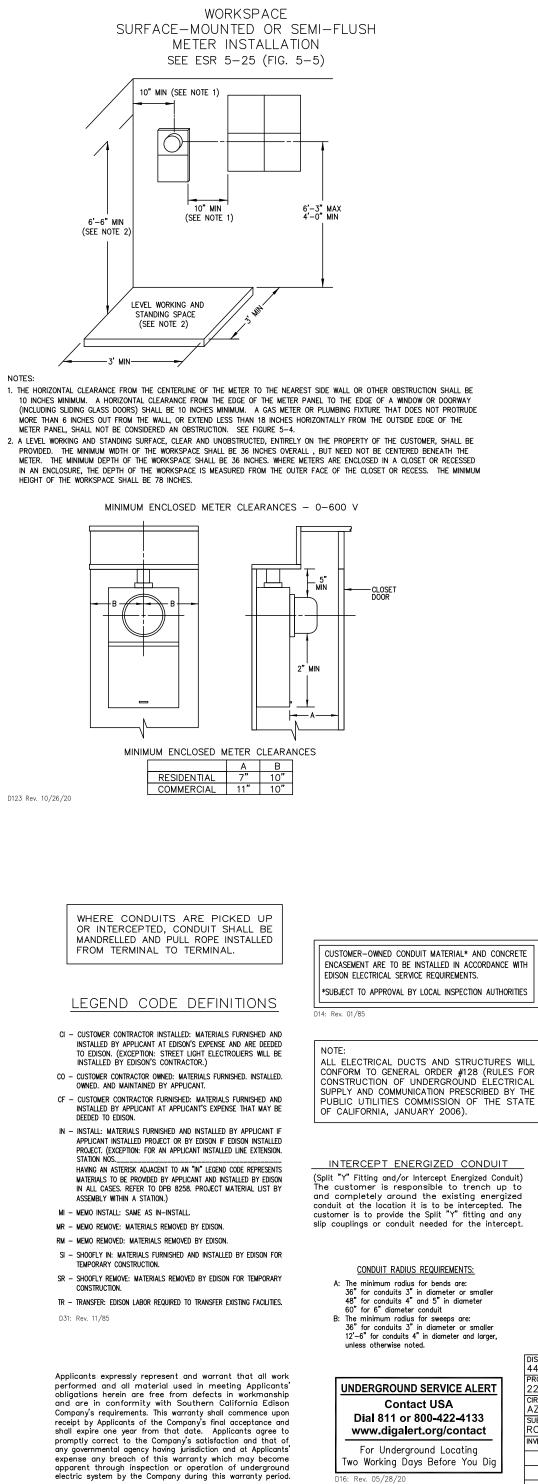






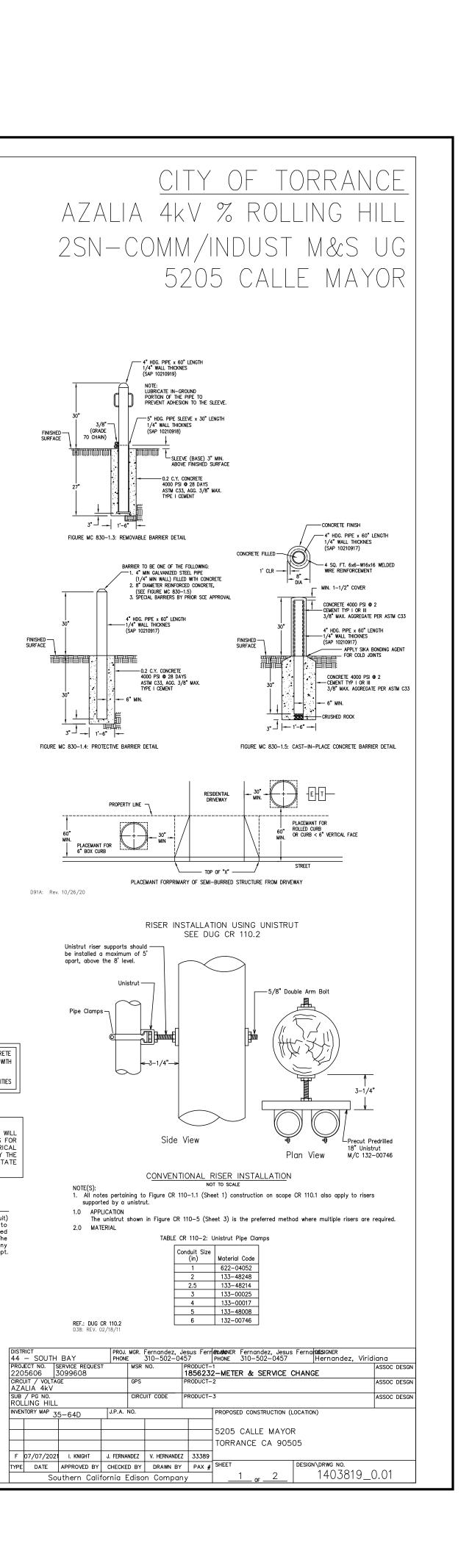
- SIZE AND DIMENSIONS OF PANELS WILL VARY. DRAWINGS ARE NOT TO SCALE.
 THIS DRAWING PERTAINS TO BOTH OVERHEAD AND UNDERGROUND ELECTRIC SERVICE APPLICATIONS.
 MAINTAN A 3-FOOT CLEAR, LEVEL, AND LUNDBSTRUCTED WORKSPACE IN FRONT OF ELECTRIC SERVICE EQUIPMENT.
 PLUMBING FIXTURES THAT EXTEND MORE THAN 6 INCHES OUT FROM WALL SURFACE MUST BE LOCATED 18 INCHES MINIMUM FROM THE OUTSIDE EDGE OF THE METER PANEL.
 FOR NEW CONSTRUCTION ONLY, DOES NOT APPLY FOR UPGRADES.
 UPGRADES AND REPLACEMENTS LINE SIDE PANELS THAT ARE CURRENTLY INSTALLED 24 INCHES OR GREATER FROM THE LINE SIDE OF THE GAS METER, CLEARANCE MAY NOT BE REDUCED. PANELS THAT ARE CURRENTLY INSTALLED LESS THAN 24 INCHES FROM THE GAS METER, MAY REMAIN (OR BE FEINSTAILED) IN FXISTINE IOCATION BE RE-INSTALLED IN EXISTING LOCATION. UPGRADES AND REPLACEMENTS - LOAD SIDE PANELS THAT ARE CURRENTLY INSTALLED 18 INCHES OR GREATER FROM THE LOAD SIDE OF THE GAS METER, CLEARANCE MAY NOT BE REDUCED. PANELS THAT ARE CURRENTLY INSTALLED LESS THAN 18 INCHES FROM THE GAS METER, MAY REMAIN (OR
- BE RE-INSTALLED) IN EXISTING LOCATION. D122 Rev. 10/26/20





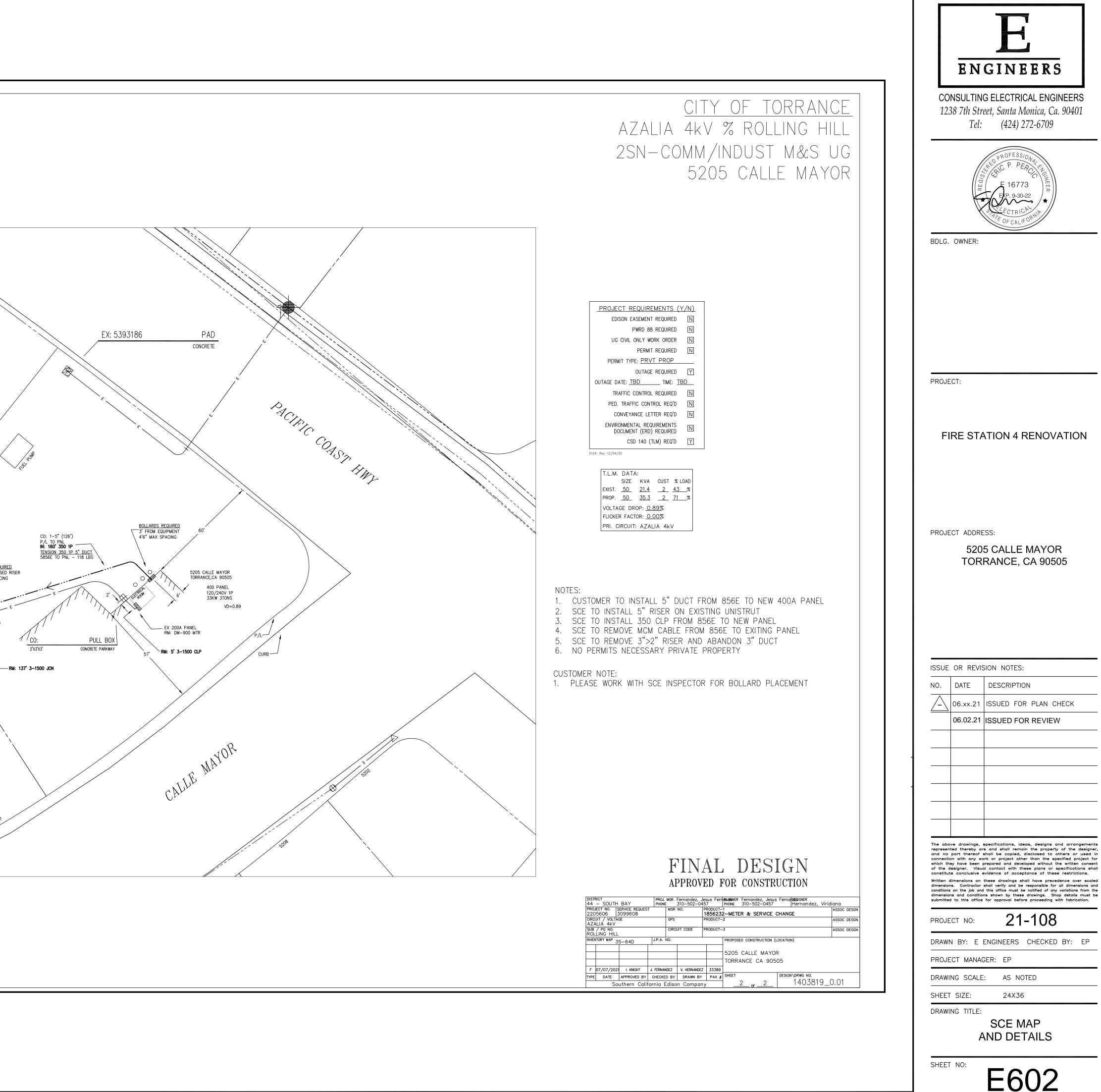
Two Working Days Before You Dig

16: Rev. 05/28/20



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		38 7th Str Tel:	eet, Santa Monica, Ca. 90401 (424) 272-6709
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DRAWING SCALE: AS NOTED SHEET SIZE: 24X36 DRAWING TITLE: SCE MAP			
SHEET SIZE: 24X36 DRAWING TITLE: SCE MAP			
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SHEET NO:	SHEET	NO:	

<u>CREW & CUSTOMER MAP - TD# 1856232</u> CONTACTS: CALL LOUIS ORTEGA FOR ACCESS THRU GATE LOUIS ORTEGA 310-953-1355 ERIC PERCIC 424-272-6709 RISER DETAIL POLE# 1035856E N IN: 5" RISER RM: 3">2" RISER RUN-120' RISER-30' TOTAL-134' IN: 160' 350 CLP 5" RISER WITH UNISTRUT EX: 976434E POLÈ CLASS 5 BOLLARDS REQUIRED 3' FROM EXPOSED RISER 4'6" MAX SPACING └──IN: 5" RISER CF 1 5" 801 8' 5856E TO P/L IN: 160' 350 1P <u>TENSION 350 1P 5" DUCT</u> 5856E TO PNL – 118 LBS — RM: 3">2" RISER TD1856232 EX: 1035856E POLE CLASS 4 RM: 1 - RSR 3" TO 2" EXTENSION RM: 1 - MTR KWH 30A 120/240 1P 3W RM: 180 - CBL ALL SIZES AL/CU 3/C 600V RM: 15 – CBL ALL SIZES AL/CU 3/C 600V IN: 1 - TM 2-350 & 1-4/0 600V 1P UG TO OH IN: 1 – RSR PVC/STRAP 5" UNISTRUT APP CF: 8' - CM DUCT 5" (POLE TO PL) CF: 2' - CM DUCT FOR EXCAVATION (POLE TO PL) IN: 160' - CBL (2) 350 MCM, (1) 4/0 600V CLP PLEX IN: 1 - CNN HYLUGS PM 2-350 1-4/0 12/16KV 1P IN: 1 – MTR XRANGE CT BAR TO 600/5 120/240 1P 3W



1.00	SCOPE A.	FURNISH ALL LABOR AND FURNISH AND INSTALL ALL MATERIALS AND EQUIPMENT FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREINAFTER.	1.05	RECORD DRAWINGS A. KEEP UP TO DATE, A COM TO INDICATE ANY CHANGES UPON COMPLETION OF THE COMPLETE SET OF AS-BUIL
	В.	REMOVE ABANDONED CONNECTORS, CABLE, RECEPTACLES, TELEPHONE OUTLETS AND ALL OUTLET BOXES, CONDUIT AND WIRE THROUGHOUT THE ENTIRE AREA.		SHALL BE SUBMITTED TO T APPROVAL THEY SHALL B OWNER. FINAL PAYMENT V RECEIPT OF THE APPROVED
	C.	FURNISH, INSTALL AND CONNECT CONTROL CABLE AND CONNECTORS AS NOTED ON DRAWINGS.	1.06	PROTECTION & SAFEGUARDS A. THE CONTRACTOR SHALL
.01	D. GENERA	INSTALL AND CONNECT ALL OWNER FURNISHED EQUIPMENT AS NOTED. COORDINATE WITH OWNER BEFORE INSTALLATION.		BARRIERS, PROTECTIVE DEV SIGNS WHERE REQUIRED F PUBLIC AND EMPLOYEES A BE FULLY RESPONSIBLE FO
	A.	PROVIDE ALL EQUIPMENT, MATERIAL, LABOR. SERVICE, HOISTING, SUPPORT AND SUPERVISION FOR ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS AND AS SPECIFIED.		PERSONS OR PROPERTY R THESE PRECAUTIONS, HIS CARELESSNESS OR NEGLEC SUB-CONTRACTOR AND/OR
	В.	THE ENTIRE WORK PROVIDED SHALL BE CONSTRUCTED AND FINISHED IN EVERY RESPECT IN A WORKMANLIKE AND SUBSTANTIAL MANNER. FURNISH AND INSTALL ALL WORK AS MAY BE NECESSARY TO COMPLETE THE SYSTEMS IN ACCORDANCE WITH THE BEST TRADE PRACTICE AND TO THE SATISFACTION OF THE OWNER. THE ENTIRE INSTALLATION SHALL BE READY IN EVERY RESPECT FOR SATISFACTORY AND EFFICIENT OPERATION WHEN COMPLETE.	1.07	SHOP DRAWINGS A. WITHIN THIRTY (30) DAYS CONTRACT, THE CONTRACTO OF ALL REQUIRED SHOP DRAWINGS AND BROCHURES FOLLOWING EQUIPMENT. S CIRCUIT BREAKERS, LIGHT
	C.	THE DRAWINGS SHOW VARIOUS CONDUIT AND WIRING SYSTEMS SCHEMATICALLY AND PROVIDE CIRCUIT NUMBERS FOR REFERENCE ONLY. BALANCE ALL PANELBOARDS AND RECORD ALL CIRCUIT NUMBERS ON AS-BUILT DRAWINGS.		EQUIPMENT. EQUIPMENT II THEREOF SHALL BE DONE AND THE COST FOR REMO RELATED WORK WHICH IS C REASON SHALL BE AT THE
	D.	SUBMIT A SINGLE GUARANTEE STATING THAT ALL PORTIONS OF THE WORK ARE IN ACCORDANCE WITH CONTRACT REQUIREMENTS. GUARANTEE ALL WORK AGAINST FAULTY AND IMPROPER MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER EXCEPT THAT WHERE GUARANTEES OR WARRANTIES FOR LONGER TERMS ARE SPECIFIED BY CONTRACT, SUCH LONGER TERM SHALL APPLY. AT NO ADDITIONAL COST TO THE OWNER, WITHIN 24HOURS AFTER NOTIFICATION, CORRECT ANY DEFICIENCIES WHICH OCCUR DURING THE GUARANTEE PERIOD,	1.08	EXISTING CONDITIONS A. BEFORE SUBMITTING BID B WITH ACTUAL EXISTING COI OF THE PRESENT INSTALLA MUST BE MADE OR WHICH THE INTENT OF THE WOR DESCRIBED HEREINAFTER A GRANTED BY REASON OF I OF THE CONTRACTOR WITH
.02	E. CODES	ALL TO THE SATISFACTION OF THE OWNER. PROVIDE ALL MATERIAL AND EQUIPMENT AND MAKE THE FINAL CONNECTIONS TO ALL EQUIPMENT. AND PERMITS		THE SITE. B. WHERE SPECIFICALLY CALL PERMISSION IS SPECIFICAL EQUIPMENT AND MATERIAL MATERIAL, UNLESS OTHERW
	Α.	ALL WORK SHALL BE DONE IN FULL COMPLIANCE WITH THE NATIONAL ELECTRIC CODE AND ALL LOCAL CODES OR ORDINANCES HAVING JURISDICTION.	1.09	SHALL BECOME THE PROP REMOVED FROM THE SITE. CUTTING & PATCHING
	В.	ALL EQUIPMENT AND MATERIALS SHALL BE NEW EXCEPT WHERE SPECIFICALLY NOTED TO BE REUSED AND LISTED BY THE UNDERWRITER'S LABORATORIES, INC., MANUFACTURED IN ACCORDANCE WITH ASME, NEMA ANSI OR IEEE STANDARDS, AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.		A. THE CONTRACTOR SHALL E PATCHING OF GENERAL CO NEW, ROUGH FINISH AND THE INSTALLATION OF ALL SHALL BE OF THE SAME M FINISH AS THE ORIGINAL W
	C.	SECURE AND PAY FOR ALL NECESSARY APPROVALS, PERMITS, INSPECTIONS, ETC., AND DELIVER THE OFFICIAL RECORDS OF THE GRANTING OF PERMITS TO THE OWNER WITHOUT	1.10	MATCH ALL SURROUNDING
.03	COORDI	ADDITIONAL COST TO THE OWNER. NATION		A. FURNISH AND INSTALL ALL CONDUCTORS, PULL BOXES SWITCHGEAR. SERVICE FA
	Α.	COORDINATE THE WORK OF THIS SECTION WITH THE WORK OF OTHER SECTIONS IN AMPLE TIME FOR THE PROPER INSTALLATION AND CONNECTION AND FOR THE PROVISION OF ALL OPENINGS REQUIRED IN FLOORS AND WALLS.		CONFORM TO THE REQUIRI IMMEDIATELY UPON AWARD COMPANY TO COORDINATE THIS CONTRACT. OBTAIN FOR SERVICE EQUIPMENT AND CABLE CHARGES OF
	В.	CAREFULLY CHECK SPACE REQUIREMENTS WITH OTHER TRADES TO INSURE THAT ALL EQUIPMENT AND MATERIALS CAN BE INSTALLED IN THE SPACES ALLOTTED THERETO. INSTALL ALL WORK TO AVOID OBSTRUCTIONS AND TO	1.11	BY THE CONTRACTOR.
	C.	PRESERVE HEADROOM AND CEILING HEIGHT REQUIREMENTS. CAREFULLY CHECK THE DOCUMENTS WITH OTHER TRADES TO ASCERTAIN THE REQUIREMENTS OF ANY MATERIALS OR EQUIPMENT BEING FURNISHED AND/OR INSTALLED BY THAT SECTION AND PROVIDE THE PROPER INSTALLATION AND/OR		A. ALL ELECTRICAL EQUIPMEN GROUNDED IN ACCORDANC CODE AND TITLE 24, CALIF 3. SERVICE ENTRANCE EC ACCORDANCE WITH THE UT
	D.	CONNECTIONS INCLUDING ANY CONTROL WIRING REQUIRED. BEFORE FABRICATION AND INSTALLATION OF SPECIAL SYSTEM OUTLETS VERIFY THE FINAL DESIRED LOCATION		B. GROUNDING SHALL BE AS BONDED TO THE COLD WA
.04	CLEANI	OF EQUIPMENT WITH OWNER.		C. PROVIDE A GROUNDING CO ADDITION TO THE THE CIR EACH NONMETALLIC CONDU
	A.	THE CONTRACTOR SHALL KEEP ALL PARTS OF THE BUILDING AND SITE FREE FROM ANY ACCUMULATIONS OF RUBBISH OR WASTE MATERIALS CAUSED BY HIS WORKMEN, AND SHALL REMOVE SUCH ACCUMULATIONS FROM THE BUILDING, SITE		CIRCUITS. D. ALL SYSTEM GROUNDING (ALL GROUND CONNECTION: WITH COPPER ALLOY FITTIN
		AND PROPERTY. JOB SITE SHALL BE CLEANED AT THE END OF EACH WORKING DAY.	1.12	DISTRIBUTION SYSTEM A. FURNISH AND INSTALL THE COMPLETE INCLUDING FEEI

RICAL CONSTRUCTION SPECIFICATIONS

	1.13	PANELE	BOARDS	1.18	CONDUC	CTORS
LETE SET OF AS BUILT MYLARS FROM THE ORIGINAL DRAWINGS. INSTALLATION, FURNISH A T MYLARS. THESE DRAWINGS IE OWNER FOR APPROVAL. AFTER		A.	LIGHTING PANELBOARDS SHALL BE WESTINGHOUSE TYPE WES 120/208V–3 PHASE AND 480/277V OR EQUAL BY SQUARE D, CUTLER HAMMER, GENERAL ELECTRIC OR SYLVANIA. THE CIRCUIT BREAKERS SHALL BE BOLT ON TYPE AND SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS.		А. В.	ALL CON INSULATION CONDUC [®] PROTECT
COME THE PROPERTY OF THE LL BE WITHHELD UNTIL DRAWINGS.			TIE HANDLES WILL NOT BE ALLOWED. PROVIDE AN ENGRAVED PHENOLIC NAMEPLATE FOR ALL PANELS.			JOINTS S
	1.14	WIRING	DEVICES		C.	JOINTS I IDEAL SU
RECT AND MAINTAIN SUITABLE CES, LIGHTS AND WARNING R THE PROTECTION OF THE OUT THE BUILDING. HE SHALL		A.	THE CATALOG NUMBERS OF ALL WIRING DEVICES, UNLESS OTHERWISE SPECIFIED ARE THOSE OF THE HUBBELL COMPANY, OR AS NOTED TO ESTABLISH THE QUALITY DESIRED. EQUAL EQUIPMENT BY GENERAL ELECTRIC, BRYANT, SIERRA, SLATER, LEVITON OR A&H WILL BE ACCEPTABLE.			SPRING SHALL B ALL JOIN INSULATE
R ANY LOSS OR INJURY TO SULTING FROM HIS NEGLECT OF WN CARELESSNESS, OR THE OF HIS EMPLOYEES, OR HIS THEIR EMPLOYEES. FTER AWARD OF THE GENERAL		В.	FURNISH AND INSTALL WALL SWITCHES AT EACH LOCATION INDICATED ON THE DRAWINGS. WHERE MORE THAN ONE SWITCH OCCURS AT THE SAME LOCATION, THEY SHALL BE INSTALLED UNDER A MULTIPLE GANG PLATE. SWITCH HANDLE SHALL BE WHITE COLOR. SWITCHES HANDLES SHALL BE WHITE COLOR. SWITCHES SHALL BE A.C. QUIET TYPE RATED 20 AMPERES AT 120 AND/OR 277 VOLTS.		D.	NEUTRAL RECEPTA MULTI-W NEUTRAL CONTINU PIGTAIL FIXTURE REMOVED
R SHALL SUBMIT SIX (6) PRINTS RAWINGS AND BROCHURES. SHOP		-	- HUBBELL #1221.	1.19	EQUIPM	ENT CONNI
WILL BE REQUIRED FOR THE /ITCHBOARDS, PANELBOARDS, IXTURES AND ANY SPECIAL STALLED WITHOUT APPROVAL		C.	FURNISH AND INSTALL CONVENIENCE RECEPTACLE AT EACH LOCATION INDICATED ON THE DRAWINGS. RECEPTACLE SHALL BE 5262.		A.	MAKE CO AND ELE AS A PA FOR INS
AT THE RISK OF THE CONTRACTOR AL OF SUCH EQUIPMENT OR		D.	PLATES FOR WIRING DEVICES SHALL BE WHITE OR AS SELECTED BY ARCHITECT.			INSTALL THESE C
JDGED UNSATISFACTORY FOR ANY EXPENSE OF THIS CONTRACTOR.	1.15	OUTLET	BOXES			BY ELEC
COME THOROUGHLY FAMILIAR DITIONS AT THE BUILDING AND IONS TO WHICH CONNECTIONS MUST BE CHANGED OR ALTERED. IS SHOWN ON THE DRAWINGS AND		Α.	JUNCTION BOXES SHALL BE 4 BY 4 BY 2-1/8 INCHES DEEP WITH COVERS UNLESS OTHERWISE NOTED OR REQUIRED BY CODE. JUNCTION BOXES ABOVE SUSPENDED CEILINGS FOR LIGHTING AND FOR DATA/COMMUNICATION SYSTEMS SHALL BE 4-11/16 BY 2-1/8 INCHES DEEP MINIMUM, TO BE INSTALLED ADJACENT TO RECESSED FIXTURE IN SUCH MANNER AS TO BE ACCESSIBLE THROUGH THE OPENING IN	1.20	DISCONI A.	FURNISH SWITCHES ELECTRIC NOT SHO BE LOCA LOCATION
D NO CONSIDERATION WILL BE	1.16		THE CEILING IN WHICH THE FIXTURE IS INSTALLED. G FIXTURES			CONTROL
ACTUAL PHYSICAL CONDITIONS AT		A.	FURNISH AND INSTALL UNDERWRITERS LABORATORIES, INC.			THE MOT
D FOR ON THE DRAWING OR WHEN (GIVEN BY THE OWNER, EXISTING			LISTED LIGHTING FIXTURES AS INDICATED ON DRAWINGS.		В.	THE ELE MECHANI
MAY BE REUSED. SALVAGEABLE SE INSTRUCTED BY HE OWNER,		B.	ALL FIXTURES SHALL BE FURNISHED COMPLETE WITH LAMPS.			THAT TH
RTY OF THE ONTRACTOR AND BE		C.	THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL FIXTURE SUPPORTS FOR ALL FIXTURES.			CONDITIC
) ALL DRILLING, CUTTING, AND STRUCTION WORK EXISTING OR RIM WHICH MAY BE REQUIRED FOR		D.	ALL INCANDESCENT LAMPS SHALL BE INSIDE FROSTED. FLUORESCENT LAMPS SHALL BE STANDARD WARM WHITE (EXCEPT WHERE COLOR SHOWN OTHERWISE); WESTINGHOUSE OR SYLVANIA. INCANDESCENT AND FLUORESCENT LAMPS SHALL BE AS SPECIFIED ABOVE UNLESS OTHERWISE NOTED.	1.21	TELEPH A.	IONE FACILI TELEPHO REQUIREI UPON AV COMPAN
OF HIS WORK. ALL PATCHING ATERIALS, WORKMANSHIP AND ORK, AND SHALL ACCURATELY WORK.		E.	ALL FLUORESCENT FIXTURE BALLASTS SHALL BE CLASS "P", CAL ENERGY LISTED HIGH POWER FACTOR AND C.B.M. APPROVED. BALLASTS SHALL BE THE QUIETEST TYPE AVAILABLE FOR THE APPLICATION, AND THE CONTRACTOR SHALL REPLACE ALL UNUSUALLY LOUD BALLASTS.			THIS CO FURNISH SECTIONS
ELECTRICAL SERVICE CONDUIT, METER SOCKETS AND SERVICE	1.17	CONDU	IT, EMT AND FITTINGS			
LITIES AND EQUIPMENT SHALL MENTS OF THE UTILITY COMPANY. OF CONTRACT, CONTACT THE UTILITY		A.	RACEWAYS LARGER THAN 3-INCH SHALL BE GALVANIZED RIGID STEEL UNLESS OTHERWISE SPECIFIED.			
HEIR WORK WITH THE WORK OF PROVAL OF THE UTILITY COMPANY ND CONNECTIONS. ALL SERVICE HE UTILITY COMPANY WILL BE PAID		В.	RIGID METAL RACEWAYS SHALL BE INSTALLED IN WET LOCATIONS, IN OR UNDER CONCRETE SLABS ON GRADE WITH OR WITHOUT VAPOR BARRIER, IN CONCRETE WALLS AND COLUMNS, IN CONCRETE SLABS, WALLS AND COLUMNS EXPOSED TO THE WEATHER WITH OR WITHOUT VAPOR BARRIERS; WHERE EXPOSED IN AREAS OPEN TO THE WEATHER, WHERE EXPOSED ON WALLS AND COLUMNS UP 6 FEET ABOVE THE FLOOR, EXCEPT IN ELECTRICAL OR TELEPHONE RISER			
AND SYSTEMS SHALL BE WITH THE NATIONAL ELECTRICAL			CLOSETS; AND IN MECHANICAL ROOMS IN SIZES LARGER THAN 1-IN UP TO 7-FEET 0 INCHES ABOVE FINISHED FLOOR.			
DRNIA ADMINISTRATIVE CODE, PART JIPMENT SHALL BE GROUNDED IN		C.	ELECTRICAL METALLIC TUBING IN SIZES UP TO 3-INCH MAY BE			
ITY COMPANY'S REQUIREMENTS. NDICATED ON THE DRAWINGS AND			INSTALLED IN INTERIOR SPACES WHERE RIGID RACEWAY IS NOT REQUIRED, AND WHERE PERMITTED BY THE LOCAL CODE AUTHORITIES HAVING JURISDICTION.			
ER PIPING SYSTEM.		D.	JOIN ELECTRICAL METALLIC TUBING WITH WATERTIGHT STEEL			
DUCTOR, WHICH SHALL BE IN JIT CONDUCTORS INDICATED, IN USED FOR LIGHTING AND POWER			COMPRESSION TYPE THREADLESS FITTINGS THROUGHOUT. USE CONNECTORS OF FACTORY PRE INSULATED TYPE IN ALL SIZES. EMT FITTINGS USING SET SCREWS ARE NOT ACCEPTABLE. EMT CONNECTIONS SHALL BE OF MALLEABLE IRON OR STEEL.			
NDUCTORS SHALL BE COPPER. SHALL BE ACCESSIBLE AND MADE S.		E.	FLEXIBLE RACEWAY SHALL BE STEEL AND SHALL BE USED FOR REMOVABLE LIGHTING FIXTURES IN FURRED CEILING SPACES AND AT LOCATIONS AS SHOWN. USE FACTORY PRE INSULATED FITTINGS OF THE TYPE APPROVED AS GROUNDING CONNECTORS. PROVIDE GROUNDING WIRE IN ALL NON-LIQUID TIGHT FLEXIBLE RACEWAY SIZED ACCORDING TO CODE.			
ELECTRICAL DISTRIBUTION SYSTEM TRS, BRANCH CIRCUITS, DS, OUTLETS AND WIRING DEVICES.		F.	MAXIMUM LENGTH OF FLEXIBLE RACEWAYS SHALL BE 6-FEET. SURFACE RACEWAY SHALL BE WIREMOLD #AL3100. PROVIDE			
			DIVIDER WHERE SHOWN FOR COMBINATION POWER & DATA/COMM.			

		EN	GINEERS
			G ELECTRICAL ENGINEERS eet, Santa Monica, Ca. 90401 (424) 272-6709
UCTORS SHALL BE COPPER WITH THHN 90 DEGREE C N. IRS SHALL BE CONTINUOUS FROM OVER-CURRENT E DEVICE TO TERMINAL OR FARTHEST OUTLET. NO IALL BE MADE EXCEPT IN PULL, JUNCTION OR		REGIO	$E_{A}^{H} = 0 FESSIONATION FERRET FOR CONTRACTOR FERRET FOR CONTRACTOR FOR THE FORMULA FOR THE FORMULA FOR THE FORMULA FOR CALIFORNIA$
WIRES SMALLER THAN NO.6 SHALL BE MADE WITH ER WIRE NUTS OR SCOTCH TYPE "R", "Y" OR "B" DNNECTORS. JOINTS IN WIRES NO. 6 AND LARGER MADE WITH APPROVED SOLDERLESS CONNECTORS. S IN CABLES NO. 6 AND LARGER SHALL BE AND TAPED. CONDUCTORS SHALL NOT BE BROKEN AT ANY DUPLEX LE, LIGHTING FIXTURE OR SIMILAR WIRING DEVICE IN E (3 WIRE OR 4 WIRE) CIRCUITS. GROUNDED SHALL NOT DEPEND ON DEVICE CONNECTIONS FOR Y. NEUTRAL WIRES CAN BE SPLICED TOGETHER WITH NEUTRAL TERMINAL ON RECEPTACLE, LIGHTING R SIMILAR DEVICE. IF DEVICE OR FIXTURE IS	BDLG.	OWNER:	
NEUTRAL WILL REMAIN CONTINUOUS. TIONS NECTIONS TO ALL MOTORS, MOTOR CONTROLLERS TRICALLY OPERATED EQUIPMENT WHETHER FURNISHED T OF THIS CONTRACT OR FURNISHED BY THE OWNER LLATION UNDER THIS CONTRACT. FURNISH AND LL CONDUITS AND CONDUCTORS REQUIRED FOR NNECTIONS AND FOR CONTROL WIRING AS INDICATED RICAL IN OTHER SECTIONS.	PROJE		ATION 4 RENOVATION
IES AND CONTROL WIRING AND INSTALL HORSE POWER RATED DISCONNECT FOR ALL MOTORS, CONTROL CIRCUITS AND OTHER L EQUIPMENT AS REQUIRED BY CODE WHETHER OR IN ON THE DRAWINGS. A DISCONNECT SWITCH SHALL ED WITHIN SIGHT FROM THE CONTROLLER DISCONNECT WHERE A MOTOR IS NOT WITHIN SIGHT FROM THE ER DISCONNECT LOCATION AN ADDITIONAL CTING SWITCH SHALL BE PROVIDED WITHIN SIGHT OF R LOCATION.			
TRICAL CONTRACTOR SHALL VERIFY WITH THE AL CONTRACTOR FOR ITEMS, DEVICES OR EQUIPMENT ELECTRICAL CONTRACTOR IS TO FURNISH, INSTALL CONNECT FOR THE HEATING, VENTILATING, AIR ING AND PLUMBING SYSTEM DEVICES UNDER THIS ES E CONDUIT AND FACILITIES SHALL CONFORM TO THE ENTS OF THE TELEPHONE COMPANY. IMMEDIATELY RD OF CONTRACT, CONTACT THE TELEPHONE TO COORDINATE THEIR WORK AND THE WORK OF TRACT. TELEPHONE CABLES AND EQUIPMENT WILL BE O AND INSTALLED BY THE TELEPHONE COMPANY	PROJE		5 CALLE MAYOR RANCE, CA 90505
	NO.	OR REVIS	SION NOTES:
			ISSUED FOR REVIEW
	The abo	ve drawings,	specifications, ideas, designs and arrangements
	and no connectio which the of the d constitute Written d dimension conditions dimension	part thereof on with any we asy have been esigner. Visu e conclusive limensions on s. Contractor on the job and as and conditio	re and shall remain the property of the designer, shall be copied, disclosed to others or used in ork or project other than the specified project for prepared and developed without the written consent al contact with these plans or specifications shall evidence of acceptance of these restrictions. these drawings shall have precedence over scaled shall verify and be responsible for all dimensions and d this office must be notified of any variations from the ons shown by these drawings. Shop details must be a for approval before proceeding with fabrication.
		CT NO:	21-108 ENGINEERS CHECKED BY: EP
	PROJE	CT MANA	GER: EP
	DRAWII 	NG SCALE	AS NOTED 24X36
			CAL CONSTRUCTION ECIFICATIONS
	SHEET	NO:	E700

Electrical Power Distribution CALIFORNIA ENERGY COMMISSION RCC-ELC-E (Created 01/20) CALIFORNIA ENERGY COMMISSION ERTIFICATE OF COMPLIANCE NRCC-ELC-E his document is used to demonstrate compliance with mandatory requirements in \$130.5 for electrical systems in newly constructed nonresidential, high-rise residential and otel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per \$141.0(a) or 141.0(b)2P for alterations. roject Name: FIRE STATION 4 SERVICE UPGRADE Report Page: Page 1 of 5 in the bulk of the State	Electrical Power Distribution NRCC-ELC-E (Created 01/20) CERTIFICATE OF COMPLIANCE Project Name: FIRE STATION 4 SERVICE UPGR/ Project Address: 5205 CALLE MAYOR, TORRANC					State Can		
otel/motel occupancies. Additions and alterations to electrical service systems in these occupancies will also use this document to demonstrate compliance per <u>§141.0(a)</u> or <u>141.0(b)2P</u> for alterations. roject Name: FIRE STATION 4 SERVICE UPGRADE Report Page: Page 1 of 5				CALIFORNIA EN		NRCC-E		
oject Name: FIRE STATION 4 SERVICE UPGRADE Report Page: Page 1 of 5			Report Page: Date Prepared:			Page 2)8/12/2		
oject Address: 5205 CALLE MAYOR, TORRANCE, CA 90505 Date Prepared: 08/12/2021	D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comment	ts because of selections made or data entered	d in tables throughout t	the form.				
GENERAL INFORMATION Image: Constraint of the second se	Table B indicates the project is exempt from §13		nts because the utility of	company has provided the project a m	netering system	m tha		
Office Retail Warehouse Hotel/ Motel School Support Areas Parking Garage High-Rise Residential Relocatable Healthcare Facilities ✓ Other (Write In): FIRE STATION	indicates instantaneous kW demand and kWh fo							
PROJECT SCOPE	This table includes remarks made by the permit o					_		
able Instructions: Include any electrical service systems that are within the scope of the permit application.010203040506	NEW METERED SERVICE 'MSA' 400A @ 120/240	V-1PH-3W LOCATED OUTDOORS IN A NEMA	'3R' ENCLOSURE.					
Utility System Demand Response Controls Where required, demand response controls must	F. SERVICE ELECTRICAL METERING This Section Does Not Apply							
Electrical Service Provided subject to CA be specified which are capable of receiving and automatically responding to at least one Designation/ Scope of Work ¹ Rating Metering Elec Code automatically responding to at least one	G. SEPARATION OF ELECTRICAL CIRCUITS FO	OR ENERGY MONITORING						
Description (kVA) System Article 517 Standards based messaging protocol which enables demand response after receiving a §130.5(a) ²	Table Instructions: Complete this table for entire dropdown choices in column 01, indicate the load					ng the		
and <u>§130.3</u> and compliance documents NRCC- MCH, NRCC-LTI and NRCC-LTS will indicate when	Electrical Service Designation/Description: 01	METERED SERVICE 'MSA' 02	03	04	(05		
METERED SERVICE 'MSA' Complete replacement service equipment & meter 96 I I demand response controls are required. FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are required. Service 130.5 are required.	Load Type per <u>Table 130.5-B</u> 1	Minimum Required Separation of Load per <u>Table 130.5-B</u>	Compliance Method ²	Location of Requirements in Construction Documents	Field In Pass			
Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.	Lighting including exit, egress and exterior HVAC systems and components	All lighting in aggregate All HVAC in aggregate	Other* Other*	E300 E300				
		All plug load in aggregate Groups of plug loads exceeding 25 kVA connected load	g	E300		\rightarrow		
	Plug Loads and appliances < 25kVA							
C. COMPLIANCE RESULTS Image: Complex com	Plug Loads and appliances < 25kVA * NOTES: If "Other*" is selected under Compliance	in an area less than 5000 sf ce Method above, please indicate how compl	iance has been achieve	d in the space provided below.				
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Type per <u>Table 130.5-B</u> ¹	Minimum Required Separation of Load per <u>Table 130.5-B</u>	Compliance Method ²	Location of Requirements in Construction Documents	Field Inspector				
			Documents	Pass	Fail			
luding exit, egress and exterior	All lighting in aggregate	Other*	E300					
systems and components	All HVAC in aggregate	Other*	E300					
ads and appliances < 25kVA	All plug load in aggregate Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf		E300					
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								ENGINEERS
								CONSULTING ELECTRICAL ENGINEERS 1238 7th Street, Santa Monica, Ca. 90401 Tel: (424) 272-6709
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STATE OF CALIFORNIA						60500 N	-	LA LA C P. PERCON
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Project Name: FIRE STATION 4 Project Address: 5205 CALLE MAN		d may be of a	Report Page: Date Prepared:			Page 3 of 5 08/12/2021		PAE OF CALIFORNIA
² Method 1: Switchboards/ motor Method 2: Switchboards/ motor Method 3: Branch circuits serve Method 4: Complete metering sy	control centers/ panelboard loads disaggi control centers/ panelboard supply other load types individually & provisions for add stem measures and reports loads by type tial Compliance Manual for more detail on	regated for e distribution e ding future br	ach load type quipment with loads disaggreg ranch curcuit monitoring	ated for each le	oad type			BDLG. OWNER:
	ete this table for entirely new or complete a nonstrate compliance with <u>§130.5(c)</u> . For							
01 Electrical Service	02 Combined Voltage Drop on Installed Fe	eder/Branch	03 Location of Voltage Drop	Sheet N	04 umber for Voltage Drop ations in Construction	05 Field Inspector		
Designation/ Description METERED SERVICE 'MSA'	Circuit Conductors Compliance M Permitted ✓Voltage drop < 5% Code (Exc	by CA Elec	Calculations ¹		E300	Pass Fail		
NOTES If "Permitted by CA Elec C	Sode" is selected under Compliance Meth lations may be attached to the permit app	* od above, ple	ase indicate where the exception	on applies in th	e space provided below.			
	lations may be attached to the permit app ations will be the responsibility of the insta				ne Authority Having Jurisc	diction. Select		PROJECT:
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01 Room Name	02 Location/ Type of Controlled		03 Shut-Off Controls	04 Permanent Durable	05 ocation of Requirements in Construction	06 Field Inspector		
or Description	Receptacles NA: No applicable space types on		Shut-On Controis	Marking Will be Used	Documents	Pass Fail		FIRE STATION 4 RENOVATION
	this service				Add Row	Remove Last		
								TORRANCE, CA 90505
								ISSUE OR REVISION NOTES: NO. DATE DESCRIPTION
								08.31.21 ISSUED FOR PLAN CHECK
								The above drawings, specifications, ideas, designs and arrangeme represented thereby are and shall remain the property of the design
								and no part thereof shall be copied, disclosed to others or used connection with any work or project other than the specified project which they have been prepared and developed without the written cons of the designer. Visual contact with these plans or specifications s constitute conclusive evidence of acceptance of these restrictions.
								Written dimensions on these drawings shall have precedence over sca dimensions. Contractor shall verify and be responsible for all dimensions conditions on the job and this office must be notified of any variations from dimensions and conditions shown by these drawings. Shop details must
								submitted to this office for approval before proceeding with fabrication. PROJECT NO: 21-108
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								DRAWING SCALE: AS NOTED
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