## SPECIFICATIONS (APPLY TO BUILDING "C" ALSO) **ABBREVIATIONS LEGEND** REVISIONS SYMBOL **DESCRIPTION** △\ 05–24–10 GENERAL PRODUCTS AMPS OR AMPERES **B** 08-02-10 PANELBOARDS AND TERMINALS NORMALLY OPEN/NORMALLY CLOSED ABOVE FINISHED FLOOR PRIOR TO SUBMISSION OF BID, THE ELECTRICAL CONTRACTOR 1. MAIN SWITCHBOARD: HEALTH DEPT PLAN CHECK 08-26-10 SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING NOT IN CONTRACT MANUFACTURERS: SIEMENS, GENERAL ELECTRIC, SQUARE D CONDITIONS. NIGHT LIGHT DISTRIBUTION BOARD OR MOTOR CONTROL CENTER CIRCUIT BREAKER OR CUTLER-HAMMER. NTS NOT TO SCALE /D\ 09-22-10 CONDUIT MAIN BREAKERS: MOLDED CASE 22,000AIC MIN BRANCH CIRCUIT PANEL, FLUSH OR SURFACE MOUNTED, (120/208V, 3ø, 4W) 2. ALL ELECTRICAL SERVICE WORK SHALL COMPLY WITH PG&E ON CENTER CONDUIT ONLY (EMPTY CONDUIT) BRANCH BREAKERS: 10,000AIC MIN REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OVERLOAD ∕E\ 10–07–10 COPPER NEUTRAL BUS: COPPER FULL LENGTH WITH LUGS PROVIDE ALL COMPONENTS, MEANS AND METHODS OF INSTALLATION PHASE GROUND BUS: FULL SIZE (D) D DEMOLISH AS REQUIRED BY PG&E GREENBOOK AND PUC REQUIREMENTS PANEL EQUIPMENT CONNECTION OTHERS: 60HZ, 22,000AMP BUS BRACINGS DEMAND FACTOR BRING TO THE ATTENTION OF THE ARCHITECT ANY CONFLICTING PANELBOARDS: RELOCATED INFORMATION. OR MISSING INFORMATION FROM THE MANUFACTURERS: SIEMENS. GENERAL ELECTRIC. SQUARE D **EMERGENCY** REMOVE JUNCTION BOX. WALL OR CEILING MOUNTED DOCUMENTS PRIOR TO START OF CONSTRUCTION. OR CUTLER-HAMMER. **RENAME** Р PULLBOX. MOUNTING AND SIZE AS INDICATED BRANCH BREAKERS: 10,000AIC MIN FIRE ALARM REUSED PROVIDE REQUIRED COOPERATION AND COORDINATION WITH NEUTRAL BUS: COPPER FULL LENGTH WITH LUGS P = POWER: T = TELECOMMFIRE SMOKE DAMPER OTHER TRADES TO MAXIMIZE CONSTRUCTION EFFICIENCY. GROUND BUS: FULL SIZE SEE ARCHITECTURAL DRAWINGS FURNISHED BY OTHERS SEE MECHANICAL DRAWINGS OTHERS: 60HZ, 10,000AMP BUS BRACINGS KILOWATT-HOUR METER WITH CURRENT AND POTENTIAL TRANSFORMERS. ORDINANCES AND REGULATIONS: ALL SYSTEMS SHALL BE SLD SEE LANDSCAPE DRAWINGS INSTALLED WITHIN STRICT ACCORDANCE WITH ALL APPLICABLE G GFCI GROUND FAULT CIRCUIT SEE PLUMBING DRAWINGS CITY, STATE AND NATIONAL CODES AND ORDINANCES. INTERRUPTER CONDUITS: TELEPHONE TERMINAL BOARD MANUFACTURERS: ALLIED TUBE & CONDUIT CORP., TRIANGLE TESTING AND ADJUSTING: UPON COMPLETION FO THE WORK HAND/OFF/AUTO TYP TYPICAL PWC INC., WHEATLAND TUBE CO., INC. OR APPROVED EQUAL. SIGNAL TEST AND REGULATE ALL SYSTEMS TO THE INTENT OF THEIR TRANSIENT SURGE METALLIC TYPE: RSC, IMC, EMT AND FLEXIBLE. JUNCTION BOX DESIGN AND TO THE OWNER'S SATISFACTION. SUPPRESSOR SYSTEM TELECOMM WALL OUTLET, +18" AFF U.O.N. NON-METALLIC TYPE: PVC SCHEDULE 40. T/S TS TIME SWITCH LIGHT EMITTING DIODE WARRANTEE: ALL MATERIALS, AND EQUIPMENT FURNISHED AND CONDUCTORS: COPPER MINIMUM 75-DEG.C INSULATION (THW, THWN). UNLESS OTHERWISE NOTED LOCKABLE INSTALLED SHALL BE NEW, UNLESS OTHERWISE NOTED, AND MANUFACTURED BY ROME CABLE, GRAYBAR FREE OF ALL DEFECTS AND SHALL BE WARRANTED FOR ONE VOLTS MOTOR CONTROL CENTER VERIFY IN FIELD YEAR FROM DATE OF ACCEPTANCE. METALLIC CLAD CABLE: ALUMINUM-CLAD, COPPER MINIMUM 75-DEG.C MTD MOUNTED RACEWAYS **WIRE** MAIN LUG/S ONLY INSULATION (THW, THWN) MEETS UL STANDARD 1569 AND NEC 334. LICENSES, PERMITS AND FEES: PROVIDE, PROCURE AND PAY **WEATHERPROOF** MANUFACTURED BY ALFLEX CORP. CONDUIT RUN EXPOSED IN CEILING OR WALL FOR ALL PERMITS SERVICES, LICENSES, FEES, ETC., REQUIRED CONDUIT RUN CONCEALED IN CEILING OR WALL FOR PERFORMANCE OF THIS WORK UPON COMPLETION OF THE TITLE 24 MANDATORY MEASURES 5. BOXES: CONDUIT RUN CONCEALED IN SLAB, UNDERSLAB OR GROUND WORK, DELIVER TO THE OWNER, ALL CERTIFICATES OF MANUFACTURERS: T&B STEEL CITY, WIREMOLD WALKERBOX APPROVAL SIGNED BY THE CONTROLLING AUTHORITIES. TYPE: STEEL-STAMPED. SUITABLE FOR ENVIRONMENT. CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET EXTERIOR AND SITE BOXES: CHRISTY OR FORNI SUBMITTAL: ☐ LIGHT SWITCHES (OR OTHER CONTROL) IN EACH ROOM [§131(A)] CONDUIT UP <del>----</del> NO INTERIOR LIGHTING IN SCOPE OF WORK. SIX CATALOG CUTS FOR ALL MATERIALS AND EQUIPMENT DEVICES: CONDUIT DOWN ☐ MULTI-LEVEL CONTROL FOR LIGHTING SYSTEMS > 0.8 W/SF [§131(B)] FIRE ALARM: SHOP DRAWINGS AS REQUIRED BY FIRE SWITCHES 15A-120V: LUTRON MAESTRO OR EQUAL. NO INTERIOR LIGHTING IN SCOPE OF WORK. CONDUIT OR DUCT STUB RECEPTACLES 15A/20A-120V: LEVITON DECORA PLUS OR MARSHALL DAYLIGHTING CONTROLS [§131(C)] GROUND WIRING, SIZE AS INDICATED NO INTERIOR LIGHTING IN SCOPE OF WORK. 10. COORDINATE EXACT HVAC LOCATION AND VERIFY ELECTRICAL WALL PLATES: LEVITON DECORA PLUS OR EQUAL ☐ SEPARATE SWITCHES WHEN SKYLIT OR PRIMARY SIDELIT ZONE > 250 FT2. LOADS WITH THE MECHANICAL CONTRACTOR PRIOR TO SPECIALTY TYPE: NEMA CONFIGURATIONS AS SHOWN ON PLANS. CROSSMARKS (SHOWN IN HOMERUN ONLY) INDICATE THE FOLLOWING: INSTALLATION. ☐ AUTOMATIC MULTI-LEVEL DAYLIGHTING CONTROLS WHEN SKYLIT OR PRIMARY 1. NUMBER ADJACENT TO CROSSMARKS INDICATES WIRE SIZES. and 7. SWITCHBOARD MOUNTED SECONDARY SURGE ARRESTERS: UL LISTED, MEET SIDELIT ZONE > 2.500 FT2. 11. INSTALL ALL DEVICES AND EQUIPMENT PER MANUFACTURERS NO NUMBER INDICATES SIZE #12 WIRE. ANSI/IEEE C62.11-1987, SUITABLE FOR SERVICE ENTRANCE LOCATIONS RECOMMENDATIONS. 2. NO CROSSMARKS INDICATES 2#12 AWG CONDUCTORS. AND FOR SINGLE OR THREE PHASE SYSTEMS. 650VAC PHASE TO GROUND □ CONTROLS CALIBRATED SO THAT SPACE ALWAYS MEETS OR EXCEEDS DESIGN FOOTCANDLES AND ELECTRIC LIGHTING IS FULLY DIMMED WHEN DAYLIGHT IS MAXIMUM. SAME AS SWITCHBOARD MANUFACTURER. 12. PROVIDE SUPPORTS, VIBRATION ISOLATION, AND SEISMIC BRACING. 3. SHORT CROSSMARK IS PHASE WIRE, LONG CROSSMARK IS NEUTRAL 150% OF DESIGN ILLUMINANCE. WIRE, AND LONG WITH DOT IS ISOLATED GREEN GROUND CONDUCTOR. NORMAL GROUND WIRE IS USUALLY NOT SHOWN. 13. FIRE ALARM: DEVICES SHOWN ON PLANS TO SHOW MINIMUM OCCUPANCY SENSOR: □ AUTOMATIC SHUT-OFF CONTROLS – A TIME SWEEP WITH AN OVERRIDE SWITCH OR REQUIREMENTS FOR THIS BUILDING. IT IS THE RESPONSIBILITY A. WALL BI-LEVEL: WATTSTOPPER WI-300 4. 3/4" EMT CONDUIT MINIMUM. UPSIZE AS REQUIRED FOR CIRCUITS WITH OF THE DESIGN-BUILD CONTRACTOR TO PROVIDE REQUIRED AND OCCUPANCY SENSOR TO ASSURE LIGHTS ARE OFF AFTER BUSINESS HOURS. B. CEILING: WATTSTOPPER A-1000/A-2000 WITH RELAY MODULE OVERSIZED NEUTRAL. COMPLETE DOCUMENTS FOR DEFERRED PERMIT SUBMITTAL NO INTERIOR LIGHTING IN SCOPE OF WORK. FLEXIBLE WIRING CONNECTION TO LUMINAIRE OR EQUIPMENT 9. LUMINAIRES: AS SCHEDULED 14. THE TERM PROVIDE AS USED IN THESE DOCUMENTS IS DEFINED AS DISPLAY LIGHTING IS SEPARATELY SWITCHED. [§131(E)] TO FURNISH AND INSTALL NO INTERIOR LIGHTING IN SCOPE OF WORK. POWER WHEN THE TAILORED LIGHTING METHOD IS USED TO SHOW COMPLIANCE, GENERAL MATERIAL AND METHODS LIGHTING MUST BE ON A SEPARATE SHUT-OFF CONTROL FROM DISPLAY LIGHTING DUPLEX RECEPTACLE OUTLET, NEMA 5-20R, WALL MOUNTED +18" AFF UON. G (GFCI) = GROUND FAULT CIRCUIT INTERRUPTER TYPE 1. ALL EQUIPMENT SHALL BE LISTED BY AN ACCEPTED TESTING NO INTERIOR LIGHTING IN SCOPE OF WORK. STORES LARGER THAN 50,000 SF MUST HAVE AUTOMATIC CONTROLS TO SHED 1=ASSOCIATED CIRCUIT. D=DEDICATED CIRCUIT LABORATORY AND SHALL BE INSTALLED PER LISTING OR 15% OF LIGHTING LOAD WHEN AN AUTOMATED DEMAND RESPONSE SIGNAL IS RECEIVED FROM THE LOCAL UTILITY. CONDUIT ROUTING SHOWN IS DIAGRAMMATIC. CONTRACTOR NO INTERIOR LIGHTING IN SCOPE OF WORK. Ajmani & Pamidi Inc. SHALL LAY OUT RUNS TO SUIT FIELD CONDITIONS AND THE Méchanical & Electrical Engineers 101 California St. Suite 2025 San Francisco, California 94111 Ph (415) 543-9344 Fax (415) 543-0 E-mail: Mail@APincSF.com 090 ALL OUTDOOR LUMINAIRES WITH LAMPS RATED OVER 100 WATTS MUST EITHER: HAVE A LIGHTING COORDINATION REQUIREMENTS OF OTHER TRADES. LAMP EFFICACY OF AT LEAST 60 LUMENS PER WATT OR BE CONTROLLED BY A MOTION SENSOR. [§132(A)] THE NEW PORTICO WILL HAVE FOUR 70 WATT LUMINAIRES. OUTDOOR LUMINAIRES THAT USE LAMPS RATED GREATER THAN 175 WATTS IN THE 3. PROVIDE A CODE SIZE GROUND WIRE IN ALL CONDUITS UNLESS OTHERWISE NOTED. □ □ □ POLE MOUNTED PARKING LOT LIGHTING LUMINAIRE — SINGLE OR TWIN HEAD. 4. ALL OUTLETS AND JUNCTION BOXES MOUNTED IN RATED WALL COMPACT FLUORESCENT LUMINAIRE — WALL MOUNTED FOLLOWING AREAS ARE REQUIRED TO BE OF THE CUTOFF TYPE: (A) HARDSCAPE AREAS SHALL BE FIRE RATED. INCLUDING PARKING LOTS AND SERVICE STATIONS HARDSCAPE (B) BUILDING ENTRANCES FLUORESCENT STRIP - SURFACE OR CEILING MOUNTED (C) ALL SALES AND NON-SALES CANOPIES (D) OUTDOOR DINING (E) ALL OUTDOOR 5. MOUNTING HEIGHT SHOWN ARE FROM FINISHED FLOOR TO SALES AREAS. [§132(B)] CENTERLINE OF THE OUTLET OR RACEWAY. ALL MOUNTING SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES CIRCUIT OR HEIGHTS SHALL BE AS SHOWN ON THE SYMBOL LIST UNLESS ALL PERMANENTLY INSTALLED OUTDOOR LIGHTING MUST BE CONTROLLED BY A LAMPS CONTROLLED BY SWITCH, +48"AFF U.O.N. OTHERWISE NOTED. PHOTOCONTROL OR ASTRONOMICAL TIME SWITCH THAT AUTOMATICALLY TURNS OFF THE 6. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE. [§132(C1)] ELECTRICAL I DRAWING I AND DETAILS. PROVIDE REQUIRED LIGHTING FIXTURE OUTDOOR MULTI-LEVEL SWITCHING FOR BUILDING FACADES, PARKING LOTS, SALES AND ENCLOSURE, TRIMS AND MOUNTING ACCESSORIES. REFER TO NON-SALES CANOPIES, OUTDOOR SALES AREAS AND STUDENT PICK-UP/DROP-OFF APPLICABLE BUILDING CODES. PROVIDE REQUIRED FIXTURE ZONES, WHERE TWO OR MORE LUMINAIRES ARE USED, AUTOMATIC TIME SWITCH SUPPORTS. MAINTAIN CEILING FIRE RATINGS. CONTROLS ARE REQUIRED TO HAVE THE ABILITY TO TURN OFF THE LIGHTING WHEN IT IS MISCELLANEOUS NOT NEEDED, AND TO REDUCE THE LIGHTING POWER BY AT LEAST 50 PERCENT BUT RUN ALL CONDUITS CONCEALED. IF CONDUITS ARE RUN EXPOSED, RUN NOT EXCEEDING 80 PERCENT WHEN THE LIGHTING IS NOT NEEDED. [\$132(C2)] PARALLEL WITH BUILDING LINES, GROUPED TOGETHER IN ORDERLY AND LIGHTING FIXTURE TAG, "L1" = FIXTURE TYPE WORKMANLIKE MANNER, AND FANNED-OUT OF ELECTRICAL ROOM AND OR RESPECTIVE PANELBOARDS TO INDIVIDUAL DEVICES. THE ROUTING SHALL BE FOR ALL OTHER TITLE 24 FORMS, SEE DRAWING T24.1. SHEET NOTES TAG APPROVED BY ARCHITECT. 8. ALL WIRES SHALL BE COPPER #12 AWG MINIMUM. **EQUIPMENT IDENTIFICATION** $\frac{1}{1}$ 9. ALL WIRING SHALL BE IN CONDUIT. 3/4" MINIMUM. DRAWING INDEX EQUIPMENT NUMBER FLEXIBLE CONDUIT: STEEL 05/28/10 EMT CONNECTORS: SET SCREW (NO COMPRESSION) NO. DWG. NO DESCRIPTION PULL CORD IN ALL EMPTY CONDUIT. CONVENTIONS AS NOTED EMT: STEEL DRAWN BY: E-10 | ELECTRICAL LEGEND & DRAWING INDEX INSULATION BUSHING ON 1-1/4" AND LARGER CONDUITS. INDIVIDUAL CIRCUITS TO INDIVIDUAL OR MULTI-POLE BREAKERS PROJECT: EXTERIOR AND CONCRETE EMBEDS" PVC SCH. 40. E-11 | ELECTRIC ONE-LINE DIAGRAM AND SCHEDULES PANELBOARD NOMENCLATURE: ARROWHEAD METALLIC CLAD CABLE MAYBE USED WHERE SUITABLE, EXCEPT FOR FIRE ALARM SYSTEM. E-12 | ELECTRICAL SITE PLAN AND DETAILS PANEL SEQUENCE 10. THE WIRING OF LUMINAIRES, WIRING DEVICES AND CONTROL DEVICES, E-10 BUILDING WITHIN EACH INTENDED CONTROL SCHEME. SHALL BE FULLY IMPLEMENTED No. E10472 一覧 VOLTAGE I.D. USING THE PROPER TYPE AND NUMBER OF WIRES WITH CONNECTIONS AS **★**\ Exp. 12/31/10 /★// $_{-}$ = 120/208 VOLTS REQUIRED.

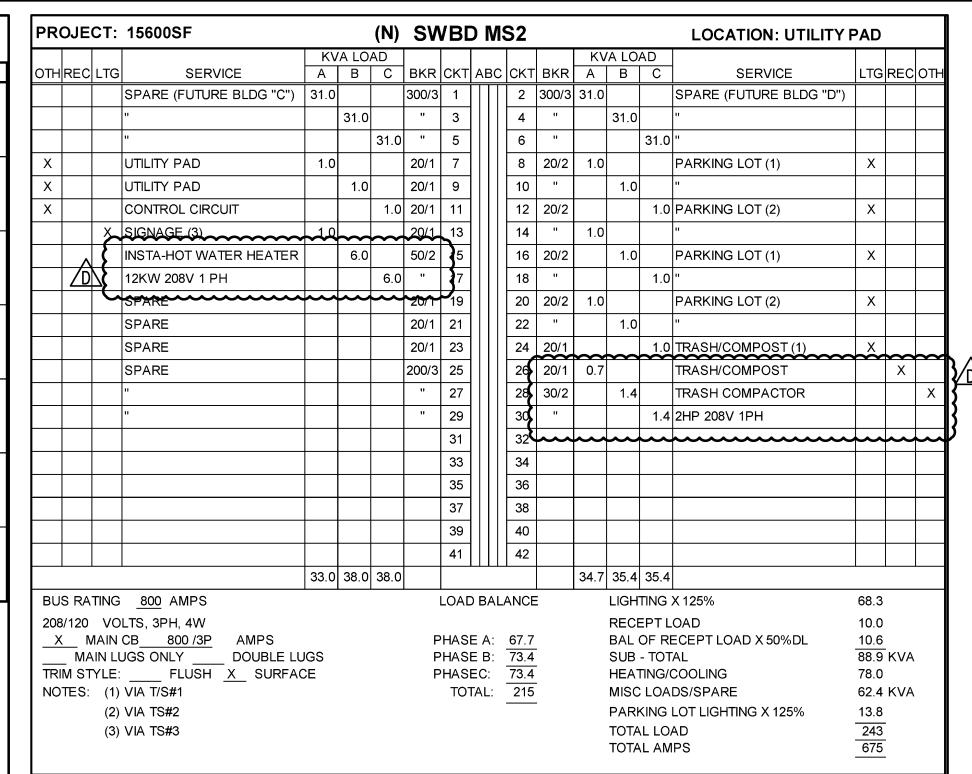
	ABBRE	VIATIO	NS
A AFF	AMPS OR AMPERES ABOVE FINISHED FLOOR	(N) N NO/NC	NEW NORMALLY OPEN/NORMALLY CLOSED
CKT	CIRCUIT	ŃIC NL	NOT IN CONTRACT
CB C	CIRCUIT BREAKER CONDUIT	NTS	
C.O. CU	CONDUIT ONLY (EMPTY CONDUIT) COPPER	OC OL	
(D) D	DEMOLISH	PH, ø	
DF	DEMAND FACTOR	PNL	PANEL
(E) E EM	EXISTING EMERGENCY	(RL) RL (R) (RN)	REMOVE
FA	FIRE ALARM	R	REUSED
FSD FBO	FIRE SMOKE DAMPER FURNISHED BY OTHERS	SAD SMD	
G GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SPD	SEE MECHANICAL DRAWINGS SEE PLUMBING DRAWINGS
НОА	HAND/OFF/AUTO	TTB TYP	TELEPHONE TERMINAL BOARD TYPICAL
JB	JUNCTION BOX	TVSS	TRANSIENT SURGE SUPPRESSOR SYSTEM
LED	LIGHT EMITTING DIODE	T/S TS	
L	LOCKABLE	UON	UNLESS OTHERWISE NOTED
MCC	MOTOR CONTROL CENTER	٧	VOLTS
MTD MLO	MOUNTED MAIN LUG/S ONLY	VIF W WP	VERIFY IN FIELD WIRE WEATHERPROOF
	LUMINAIRE SCHEDUL	<u> </u>	
	CATALOG NO LAMPS		MATTS MOLINTINGS PEMARKS

PΕ	DESCRIPTION	CATALOG NO.	LAMPS	VOLTS	WATTS	MOUNTINGS	REMARKS
.1			2- F028/T5/835	120	60	RECESSED	
2		# 2AV-G14T5-MDRMVOLT	2- F014/T5/835	120	30	RECESSED	
3	DOWNLIGHT WITH ELECTRONIC BALLAST.	LITHONIA # AF-126-DTT-6AR-LD-MVOLT GEB10IS	1- 26DTT	120	30	RECESSED	
4	DOWNLIGHT WITH ELECTRONIC BALLAST.	LITHONIA # AF-226-DTT-6AR-LD-CGL-MVOLT GEB10IS	2- 26DTT	120	54	RECESSED	
5	NOT USED.						
6	SURFACE MOUNTED COMPACT FLUORESCENT CANOPY LIGHTING WITH ELECTRONIC BALLAST DAMP LABEL. DARK BRONZE FINISH.		2- 26DTT	120	54	SURFACE CAST-IN CONCRETE BOX	
7	2-T5 LAMP FLUORESCENT STRIP LUMINAIRE WITH SYMMETRIC REFLECTOR AND WIRE GUARD.	LITHONIA # Z5SMR-46-MVOLT-GEB10PS	2- F028/T5/835	120	60	48" CHAIN- HUNG	
8		LITHONIA # CF10-226DTT-6AR-120-GEB10- DDB	2- 26DTT	120	54	CEILING	
9	LUMINAIRE WITH ELECTRONIC BALLAST.	LITHONIA # MRW-226-DTT-MD-MVOLT- GEB10LPI-	2- 26DTT	120	54	WALL	
.L	LOW LEVEL EXIT SIGN - NON ELECTRIFIED. PROVIDE WHERE CEILING MOUNTED EXIT	ACTIVE SAFETY	NONE			WALL	
V	SIGNAGE IS SHOWN.	LITHOMA	INOLLIDED	400		OFILINIO MARKET	
X	LED-TYPE EXIT SIGNAGE ARROWS, MOUNTING TYPE AND FACES AS SHOWN ON PLAN.	LITHONIA # EDG1/2-G-120/277-ELN	INCLUDED	120	5	CEILING/WALL	
	COLOR AND FINISHES BY ARCHITECT.     PROVIDE EMERGENCY BATTERY PACK OR BALL	AST AS RECHIRED		1			

SYME	<u>3∩i T</u>	LEGEND DESCRIPTION
JIME	JUL	POWER
1 G	<b>⊭</b>	DUPLEX RECEPTACLE OUTLET, NEMA 5-20R, WALL MOUNTED +18" AFF UON.  G (GFCI) = GROUND FAULT CIRCUIT INTERRUPTER TYPE  1=ASSOCIATED CIRCUIT. D=DEDICATED CIRCUIT
$\oplus$	<sub>∺</sub>	DUPLEX RECEPTACLE — WALL MOUNTED ABOVE COUNTER
1,3		DOUBLE DUPLEX (QUAD) RECEPTACLE, NEMA 5-20R, WALL MTD +18"AFF 1,3 ASSOCIATED CIRCUIT
$\ominus$	,	DUPLEX RECEPTACLE OUTLET - FLUSH MOUNTED ON CEILING
		DUPLEX RECEPTACLE OUTLET - FLUSH FLOOR MOUNTED
		<u>LIGHTING</u>
$\geq$		2X4 FLUORESCENT LUMINAIRE - RECESSED MOUNTED
$\boxtimes$	]	2X2 FLUORESCENT LUMINAIRE - RECESSED MOUNTED
0		FLUORESCENT DOWNLIGHT LUMINAIRE - RECESSED MOUNTED
		FLUORESCENT DOWNLIGHT LUMINAIRE — SURFACE MOUNTED
<b>⊢</b> o-		FLUORESCENT STRIP - SURFACE OR CEILING MOUNTED
⊢δ-		FLUORESCENT STRIP/WRAPAROUND - WALL MOUNTED
5		COMPACT FLUORESCENT LUMINAIRE - WALL MOUNTED
<b>→</b>	•	POLE MOUNTED PARKING LOT LIGHTING LUMINAIRE — SINGLE OR TWIN HEAD.
		<u>SWITCHES</u>
\$		SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES CIRCUIT OR LAMPS CONTROLLED BY SWITCH, +48"AFF U.O.N. "L" DENOTES LOCKABLE "3" DENOTES THREE—WAY "D" DIMMER TYPE
\$		MOTOR RATED SWITCH WITH THERMAL OVERLOAD ELEMENT.
08-	-l a	OCCUPANCY SENSOR SWITCH — WALL MOUNTED: SUITABLE UP TO 300SF BI—LEVEL OR SINGLE LEVEL TYPE
OS	a	OCCUPANCY SENSOR SWITCH - CEILING MOUNTED: SUITABLE UP TO 1000SF
		<u>MISCELLANEOUS</u>
<u>L1</u>		LIGHTING FIXTURE TAG, "L1" = FIXTURE TYPE
1	)	SHEET NOTES TAG
SF 1		EQUIPMENT IDENTIFICATION EQUIPMENT NUMBER
		<u>CONVENTIONS</u>
1, 3,	5	INDIVIDUAL CIRCUITS TO INDIVIDUAL OR MULTI-POLE BREAKERS
- <del> </del>		PANEL SEQUENCE
		PANEL SEQUENCE BUILDING
		VOLTAGE I.D. _ = 120/208 VOLTS
		,
		DRAWING INDEX
NO.	DWG. N	
	E-10E	
2	E-11E	
3	E-12E	B ELECTRIC SITE PLAN
4	E-13E	B LIGHTING PLAN
	E-14E	
6	E-15E	B ELECTRICAL ROOF PLAN
•		

		LEGEND	REVISIONS BY
	SYMBOL	DESCRIPTION	<u> </u>
		PANELBOARDS AND TERMINALS	08-02-10 BPC
N.		DISTRIBUTION BOARD OR MOTOR CONTROL CENTER	HEALTH DEPT PLAN CHECK 08-26-10
		BRANCH CIRCUIT PANEL, FLUSH OR SURFACE MOUNTED, (120/208V, 3ø, 4W)	<u>∕</u> D 09−22−10 BPC
	<b>≱</b>	TERMINAL CABINET (TYPE AS INDICATED), FLUSH OR SURFACE MTD.	10-07-10 HCCC
	<b>Z</b>	TERMINAL BOARD. 3/4" THICK MARINE PLYWOOD	
		<u>EQUIPMENT CONNECTION</u>	vanaya
		MOTOR  JUNCTION BOX, WALL OR CEILING MOUNTED	o Nara)
	P	PULLBOX. MOUNTING AND SIZE AS INDICATED	m Nam
		P = POWER; T = TELECOMM	, io
		MAGNETIC STARTER	ivaya
	☐ A15	SAFETY DISCONNECT SWITCH-30A SIZE. LETTER DENOTES OTHER SIZES: $A = 30 \text{ AMPS}$ $15 = 15 \text{ AMP FUSES}$ $= NON-FUSIBLE TYPE$	mah Sh
		B = 60  AMPS $30 = 30  AMP FUSES$ $C = 100  AMPS$ $40 = 40  AMP FUSES$	7m Nai
	$\boxtimes$ 1	COMBINATION STARTER - FVNR HOA, NUMBER INDICATES NEMA SIZE	~
	⊠ <sub>FBO</sub>	PACKAGE CONTROLLER OR STARTER FURNISHED AND INSTALLED UNDER ANOTHER SECTION BUT WIRED UNDER THIS SECTION.	T E
	PVI	PHOTO-VOLTAIC INVERTER	$\mathbf{Z}$
		KILOWATT-HOUR METER WITH CURRENT AND POTENTIAL TRANSFORMERS.	$\Box$
),	FSD	FIRE SMOKE DAMPER, SMD	AL AL
·			3 1B JRA 94551
			PHASE JLTU IORE, CA
		SIGNAL_	PH UL
		TELECOMM WALL OUTLET, +18" AFF U.O.N.; RING AND STRING ONLY	NG "C" - PH/ 7 and CUL AVE. LIVERMORE,
	$\blacktriangleright$	TELECOMM WALL OUTLET, MOUNTED ABOVE COUNTER	OING "C" Y and ( D ave. live
	FANN	FIRE ALARM REMOTE ANNUNCIATOR	
	FACP	FIRE ALARM CONTROL PANEL	JILI (IT) VHEA
		SMOKE DETECTOR, CEILING MOUNTED. "R" DENOTES WITH RELEASING CONTACT	NEW BUILD] AMUNITY 1200 ARROWHEAD
			IEW IM
	(D)—	SMOKE DETECTOR, DUCT MOUNTED. FURNISHED AND WIRED BY DIV 16, INSTALLED BY DIV 15	
	HD	HEAT DETECTOR, CEILING MOUNTED.	J C
	[SI] <del>-</del> 1	FIRE ALARM STROBE UNIT +80"AFF	DC
	HSH	FIRE ALARM HORN/STROBE UNIT +80"AFF	Z
	M\$-1	FIRE ALARM MINI-HORN/STROBE UNIT +80"AFF	Ajmani & Pamidi Inc.
	E+	FIRE ALARM PULL STATION +48"AFF	Mechanical & Electrical Engineers 101 California St. Suite 2025 San Francisco, California 94111 Ph (415) 543-9344 Fax (415) 543-0670 E-mail: Mail@APincSF.com 09021
	TS-1	FIRE ALARM TAMPER SWITCH	
	<u>ws</u> ⊣	FIRE ALARM WATER FLOW SWITCH	
		RACEWAYS	0
		CONDUIT RUN EXPOSED IN CEILING OR WALL	-EGEND NDEX
		CONDUIT RUN CONCEALED IN CEILING OR WALL	LEGE
		CONDUIT RUN CONCEALED IN SLAB, UNDERSLAB OR GROUND  CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET	1 .=
		CONDUIT UP	ELECTRICAL DRAWING
		CONDUIT DOWN	LEC
		CONDUIT OR DUCT STUB	Ш
	G	GROUND WIRING, SIZE AS INDICATED  CROSSMARKS (SHOWN IN HOMERUM ONLY) INDICATE THE FOLLOWING:	
	<del>        </del> #10	CROSSMARKS (SHOWN IN HOMERUN ONLY) INDICATE THE FOLLOWING:  1. NUMBER ADJACENT TO CROSSMARKS INDICATES WIRE SIZES.	
		NO NUMBER INDICATES SIZE #12 WIRE.  2. NO CROSSMARKS INDICATES 2#12 AWG CONDUCTORS.	DATE 05/28/10
		3. SHORT CROSSMARK IS PHASE WIRE, LONG CROSSMARK IS NEUTRAL	SCALE: AS NOTED
		WIRE, AND LONG WITH DOT IS ISOLATED GREEN GROUND CONDUCTOR. NORMAL GROUND WIRE IS USUALLY NOT SHOWN.	DRAWN BY:
		4. 3/4" EMT CONDUIT MINIMUM. UPSIZE AS REQUIRED FOR CIRCUITS WITH OVERSIZED NEUTRAL.	PROJECT: ARROWHEAD
	$\parallel$	FLEXIBLE WIRING CONNECTION TO LUMINAIRE OR EQUIPMENT	
		No. E10472	E-10B
		Exp. 12/31/10 /*	
		OF CALIFORNIA	

TYPE	DESCRIPTION	CATALOG NO.	LAMPS	VOLTS	WATTS	MOUNTINGS	REMARKS
LS1	SINGLE HEAD POLE MOUNTED METAL HALIDE LUMINAIRE WITH HOUSE SHIELD AND FULL CUT-OFF.	LITHONIA # OMERO MR2-250M-SR3- SCWA-HS	1- 250WMH	208	297	18 FT MOUNTING HEIGHT	16 FOOT POLE SEE DETAIL 3 THIS SHEET
LS1-ALT	SINGLE HEAD POLE MOUNTED METAL HALIDE LUMINAIRE WITH HOUSE SHIELD AND FULL CUT-OFF.	LITHONIA # KC1-250-16C-R3-4CSCWA-HS	1- 250WMH	208		18 FT MOUNTING HEIGHT	16 FOOT POLE SQUARE POLE SEE DETAIL 3 THIS SHEET
LS2	TWIN HEAD POLE MOUNTED METAL HALIDE LUMINAIRE AND FULL CUT-OFF.	LITHONIA # OMERO MR2-250M-SR3-TWIN SCWA	2- 250WMH	208	594	18 FT MOUNTING HEIGHT	16 FOOT POLE SEE DETAIL 3 THIS SHEET
LS2-ALT	TWIN HEAD POLE MOUNTED METAL HALIDE LUMINAIRE AND FULL CUT-OFF.	LITHONIA # KC2-250-16C-R3-4CSCWA	2- 250WMH	208		18 FT MOUNTING HEIGHT	16 FOOT POLE SQUARE POLE SEE DETAIL 3 THIS SHEET
LS3	4 FT FLUORESCENT LUMINAIRE ENCLOSED IN FIBERGLASS HOUSING. WET LABEL.	LITHONIA # DWM-2-32-AR-MVOLT-GEB10RS	2- 32W-T8-735	120	62	SURFACE	
LS4	SAME AS LS3 ABOVE EXCEPT WALL MOUNTED	LITHONIA # DWM-2-32-AR-MVOLT-GEB10RS	2- 32W-T8-735	120	62	WALL	6'-6"AFF TO BOTTOM



PULLSECTION

REVISIONS

**Ά**\ 05–24–10

<u>B</u> 08-02-10

<u>^</u>0 09-22-10

∕E∖ 10–07–10 HCCC

and (

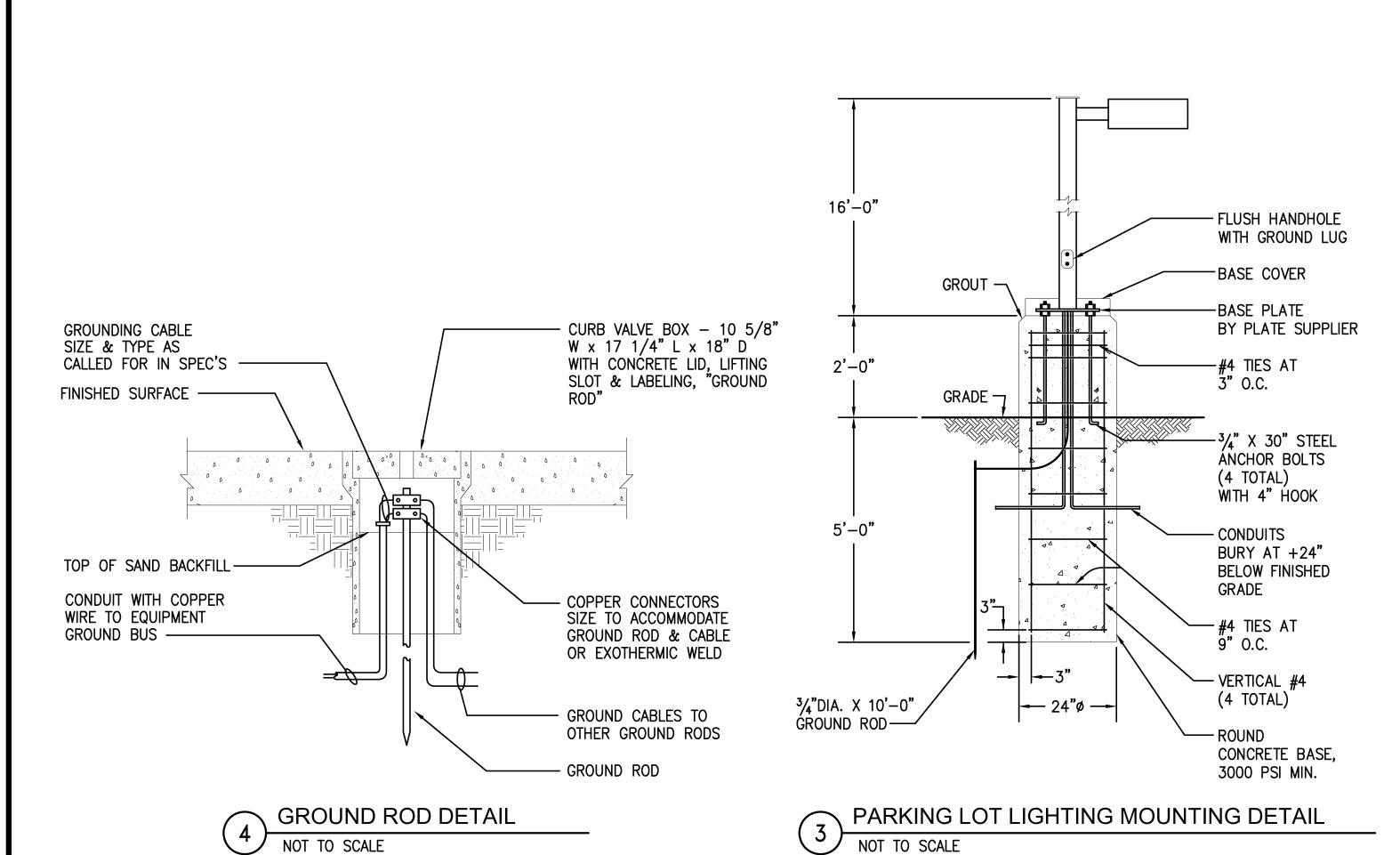
-PARKING LOT LIGHTING

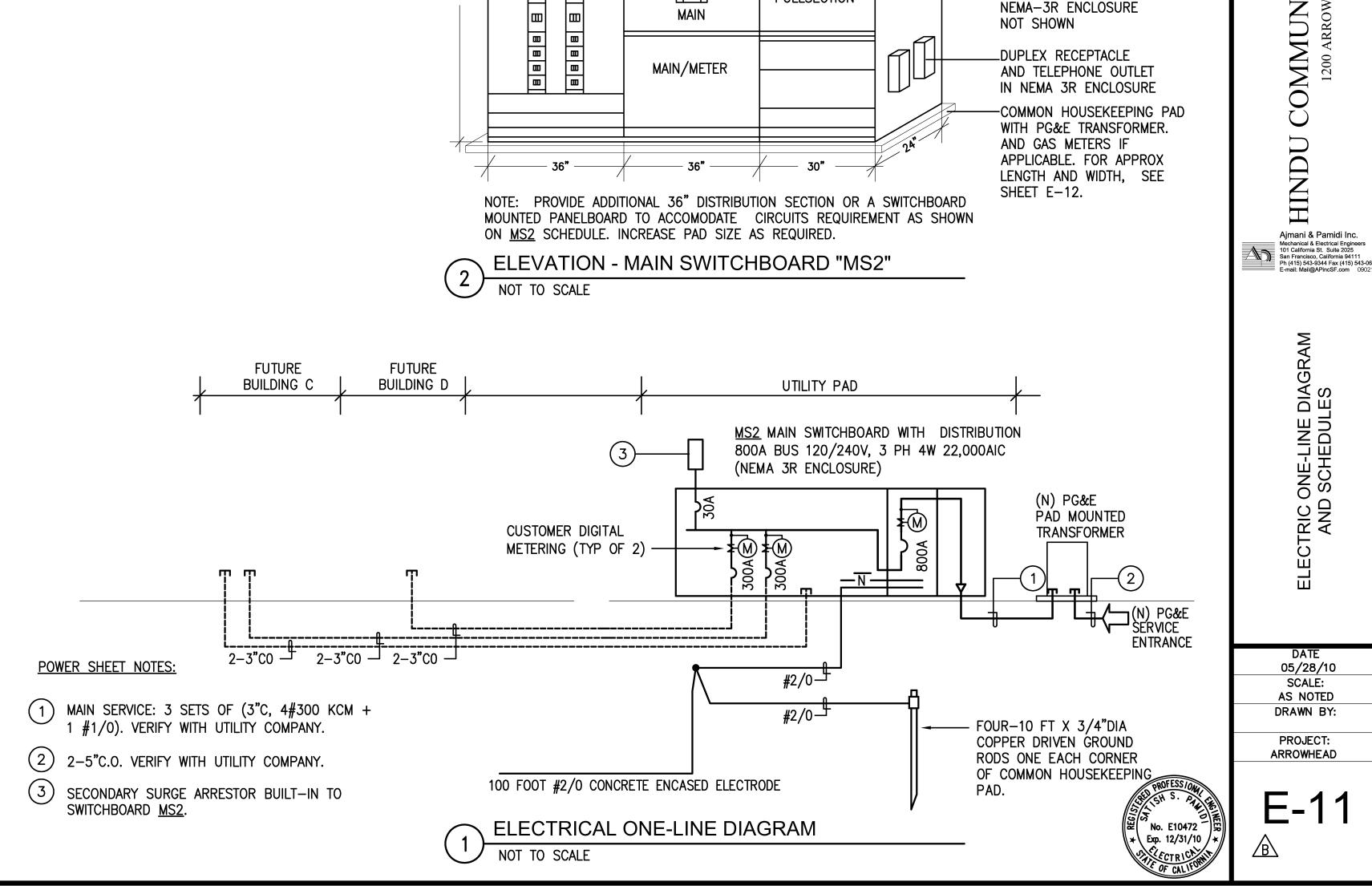
CONTROLLER IN NEMA 3R

ENCLOSURE. SEE DETAIL

2 SHEET E-12.

-NON-WALK-IN TYPE

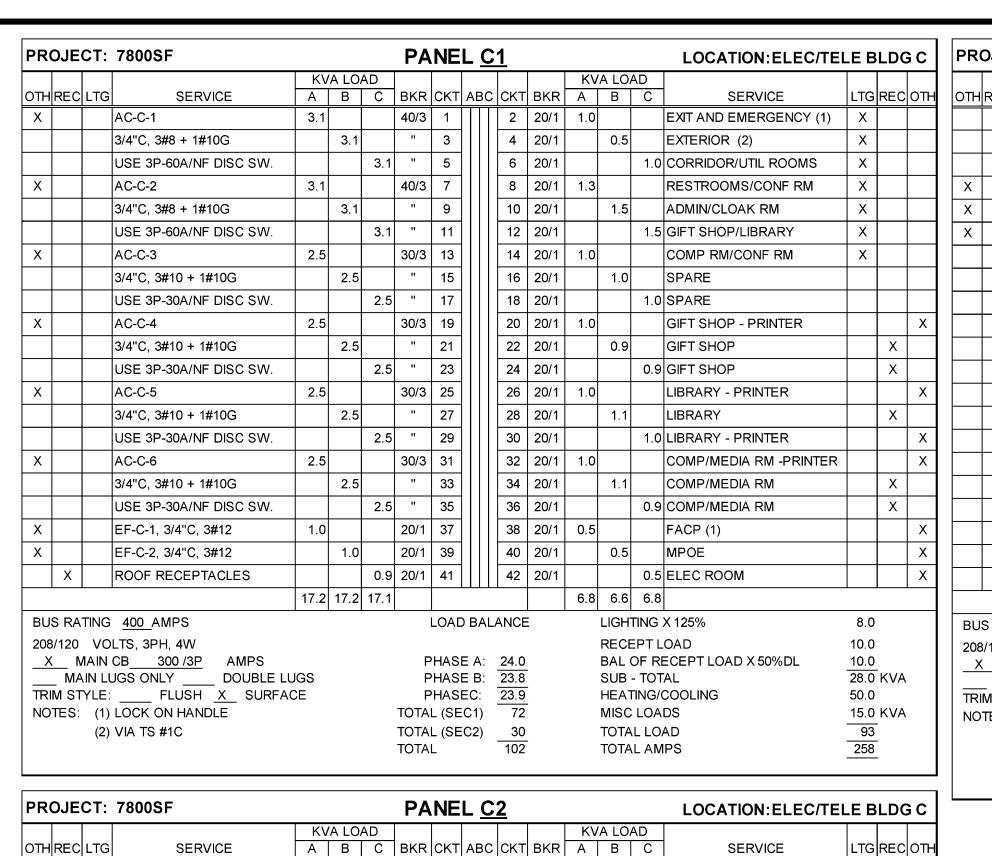




OMETERO

BLDG-C BLDG-D

CUSTOMER METERS



				KV	A LO	AD.				T		KV	A LO	AD				
НТС	REC	LTG	SERVICE	Α	В	С	BKR	CKT	ABC	СКТ	BKR	Α	В	С	SERVICE	LTG	REC	ОП
Χ			PV#1 13.2KW				50/3	43		44	20/1	1.1			CONF ROOM		Χ	
			GRID-TIED INVERTER				:	45		46	20/1		0.4		CORRIDOR/EXTERIOR		Χ	
			"				•	47		48	20/1			1.1	CONF ROOM		Χ	
Χ			PV#2 13.2KW				50/3	49		50	20/1	1.1			RESTROOMS/JANITOR		Χ	
			GRID-TIED INVERTER				=	51		52	20/1		1.0		DRINKING FOUNTAIN			Х
			II .				=	53		54	20/1			1.0	SPARE			
Χ			PV#3 13.2KW				50/3	55		56	20/1	1.1			ADMIN OFFICE		Χ	
			GRID-TIED INVERTER					57		58	20/1		1.1		ADMIN OFFICE		Χ	
			II .				"	59		60	20/1			1.1	ADMIN OFFICE		Χ	
Χ			PV#4 13.2KW				50/3	61		62	20/1	1.1			ADMIN OFFICE		Χ	
			GRID-TIED INVERTER				:	63		64	20/1		1.0		ADMIN OFFICE - COPIER			Х
			II .					65		66	20/1			1.1	ADMIN OFFICE		Χ	
Χ			DRINKING FOUNTAIN	1.0			20/1	67		68	20/1	1.1			ADMIN OFFICE		Χ	
Х			FIRE DOOR (1)		0.5		20/1	69		70	20/1		0.9		CLOAK ROOM		Χ	
Χ			FIRE DOOR (1)			0.5	20/1	71		72	20/1			1.0	CLOAK ROOM			Х
Χ			COPIER	1.0			20/1	73		74	20/1	0.4			CORRIDOR/EXTERIOR		Χ	
	Х		COPIER		1.0		20/1	75		76	20/1		0.5		SPARE			
			SPARE			1.0	20/1	77		78	20/1			0.5	FIRE/SMOKE DAMPER (1)			Х
			SPARE	1.0			20/1	79		80	15/1	0.8			CP-1			Х
			SPARE		1.0		20/1	81		82	15/1		0.8		CP-2			Х
			SPARE			1.0	20/1	83		84	20/1			1.0	SPARE			
				3.0	2.5	2.5				-		6.6	5.6	6.7				

	FEEDER SCHEDULE													
FEEDER	FEEDER DESCRIPTION	CONDUIT	SPARE	CONDUCTORS (	DEMARKS									
TAG	TELDEN DESCRIPTION	CONDUIT	CONDUIT	PHASE/NEUTRAL	GROUND	REMARKS								
603	60AMP, 3 PHASE, 4 WIRE	1-11/4°C		4-#6	1-#8									
1003	100AMP, 3 PHASE, 4 WIRE	1-11/4°C		4-#2	1-#8									
2003	200AMP, 3 PHASE, 4 WIRE	1-3 1/2°C		4-3/0	1-#6									
3003	300AMP, 3 PHASE, 4 WIRE	1-3"C	1-3"C EA	4-300KCM	1-#4	1								

PR	OJE	CT:	15600SF			(E)	PA	NE	L	M	<b>S2</b>					LOCATION: UTILIT	Y PAD		
				KV	A LO									'A LO					
ОТН	REC	LTG		A	В	С	BKR	CKT	AE	BC			Α	В	С	SERVICE	LTG	REC	C
			(N) PANEL "C" (1)	34.0			300/3	1			2	300/3	31.0			(E) SPARE			
			"		34.0		:	3			4	"		31.0		"			_
						34.0		5			6	"			31.0				_
X			(E) CIRCUIT	1.0			20/1	7			8	20/2	1.0			(E) CIRCUIT	X		_
X			(E) CIRCUIT		1.0		20/1	9			10	"		1.0					
X			(E) CIRCUIT			1.0		11			12	20/2			1.0	(E) CIRCUIT	X		
		Χ	(E) CIRCUIT	1.0			20/1	13			14	"	1.0			II .			
			SPARE		1.0		20/1	15			16	20/2		1.0		(E) CIRCUIT	X		
			SPARE			1.0	20/1	17			18	"			1.0	II .			
			SPARE				20/1	19			20	20/2	1.0			(E) CIRCUIT	X		
			SPARE				20/1	21			22	=		1.0		п			
			SPARE				20/1	23			24	20/1			1.0	SPARE			
			SPARE				200/3	25			26	20/1				SPARE			
			11				"	27			28	20/1				SPARE			
			11				"	29			30	20/1				SPARE			
								31			32								
								33			34								
								35			36								
								37	1		38								
								39			40								
								41			42								
		I		36.0	36.0	36.0							34.0	34.0	34.0		· ·		
ВU	S RA	TING	8 <u>00_</u> AMPS	l l		ı		LOAI	) B	ALA	ANCE			LIGH	TING	X 125%	68.3		
208	3/120	VO	LTS, 3PH, 4W											RECE	EPT L	.OAD	10.0	ı	
_×			CB 800 /3P AMPS								70.0					ECEPT LOAD X 50%DL	10.6	_	
			JGS ONLY DOUBLE $$ FLUSH X SURI								70.0 70.0			SUB		AL COOLING	88.9 78.0		4
I			(E) 300A CB	AUL			Г				210					DS/SPARE		KVA	١
		(2)	. ,													LOT LIGHTING X 125%	13.8		
														TOTA			243	_	
														TOTA	LAM	IPS	675	_	

POWER SHEET NOTES:

CONTRACTOR.

REQUIRED.

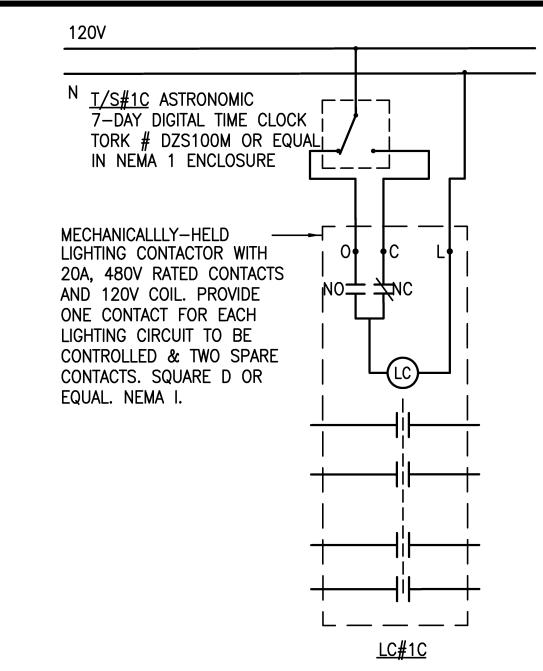
(1) (E) SYSTEM GROUND

(N) SECONDARY SURGE ARRESTOR

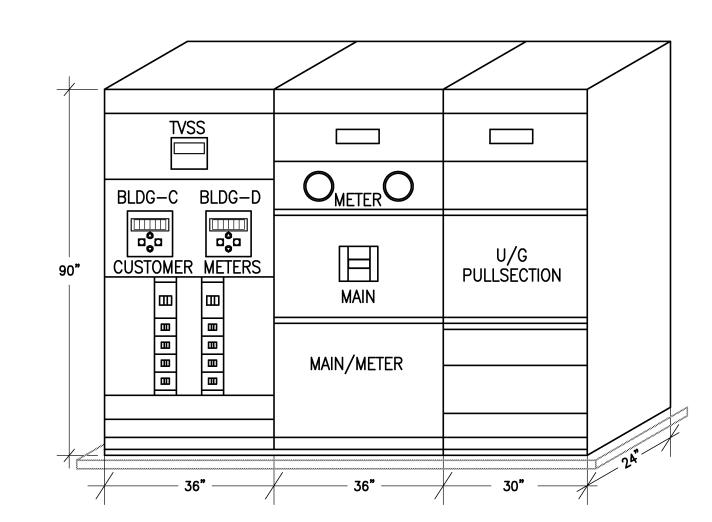
PROVIDE SYSTEM GROUND AS FOLLOWS:

RESISTANCE TO SOLID EARTH GROUND SHALL NOT EXCEED 5

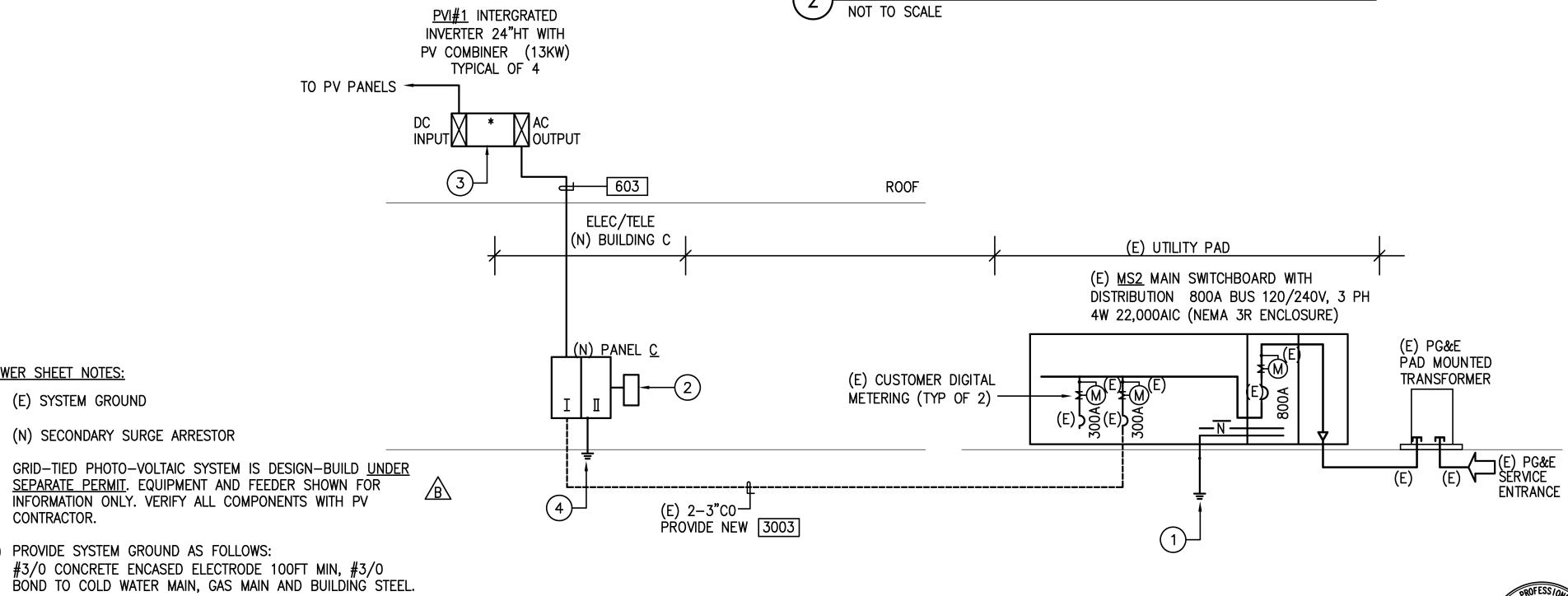
OHMS. PROVIDE ADDITIONAL DRIVEN GROUND RODS AS



BUILDING MOUNTED EXTERIOR LIGHTING CONTROLLER



ELEVATION - MAIN SWITCHBOARD "MS2" (EXISTING)



**ELECTRICAL ONE-LINE DIAGRAM** NOT TO SCALE

No. E10472

\* Exp. 12/31/10

\*
\*\*CTRICK\*\*\*

.d "C { and ( ave. 1" NEV OMM Ajmani & Pamidi Inc. Mechanical & Electrical Engineers
101 California St. Suite 2025
San Francisco, California 94111
Ph (415) 543-9344 Fax (415) 543-06
E-mail: Mail@APincSF.com 0902 ELECTRIC ONE-LINE DIAGF DETAILS, SCHEDULES

05/28/10 SCALE:

AS NOTED

DRAWN BY:

PROJECT:

ARROWHEAD

REVISIONS

<u>/A\</u> 05-24-10

**B** 08-02-10

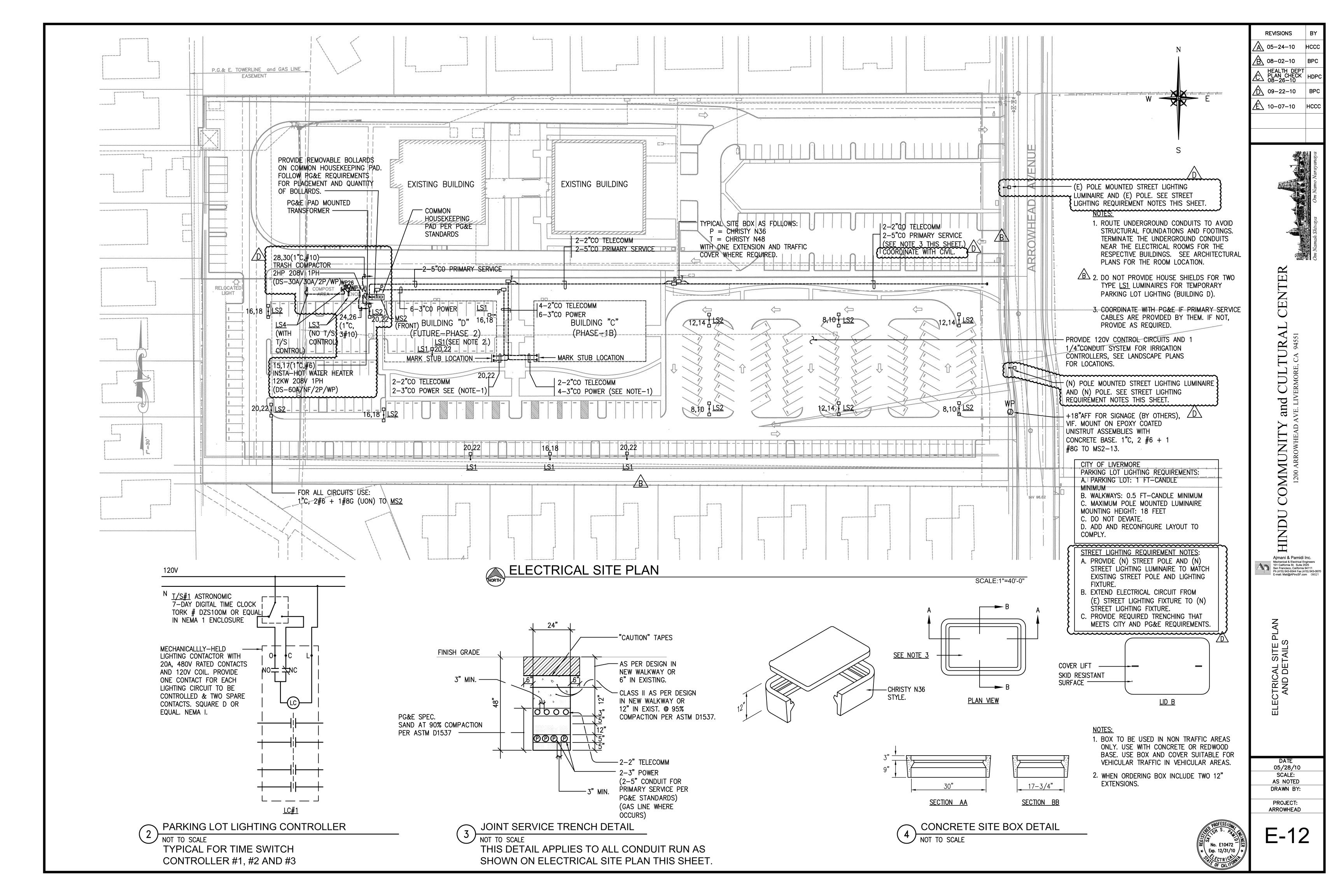
HEALTH DEPT PLAN CHECK 08-26-10

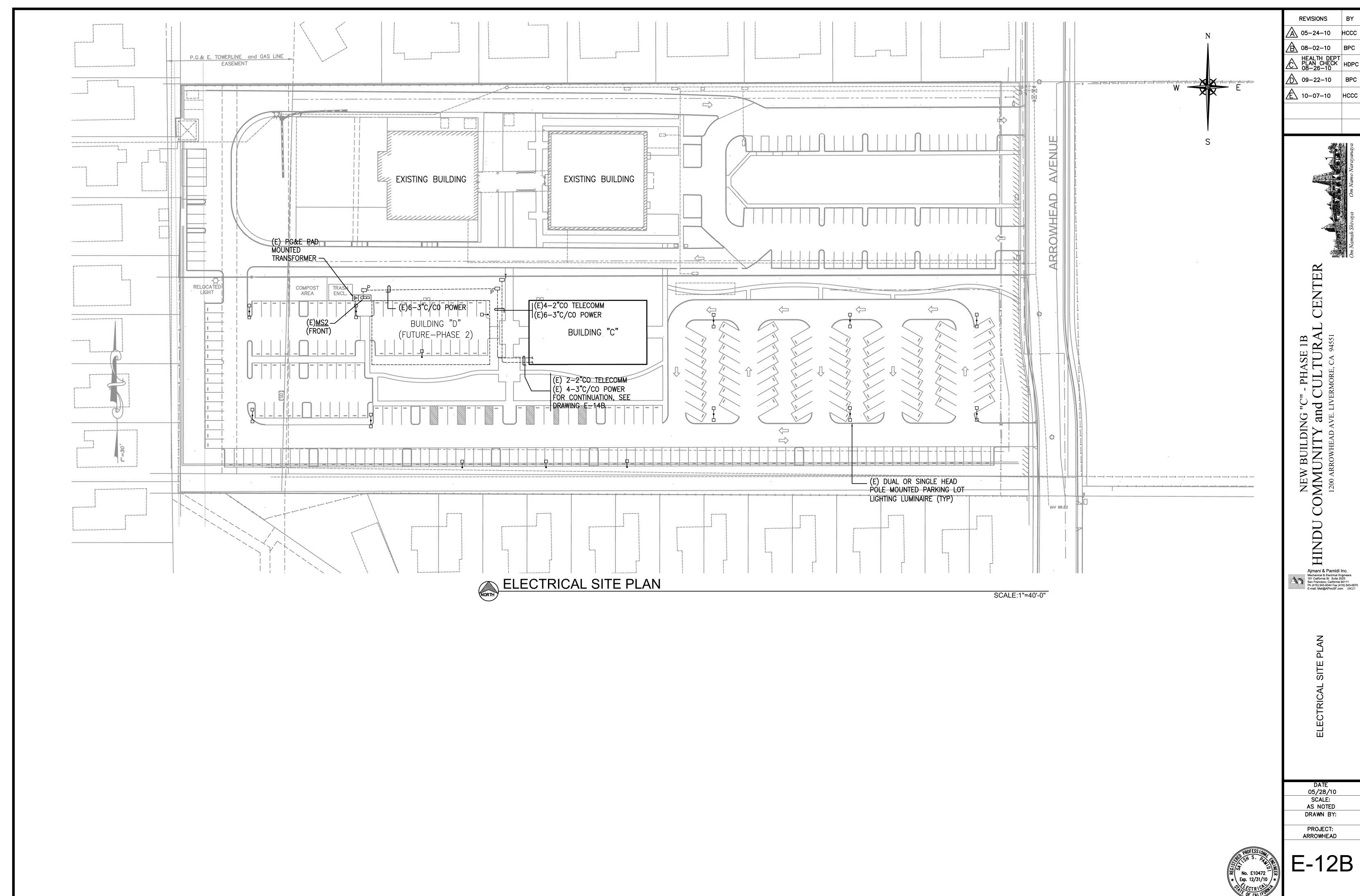
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<u>∕E</u>\ 10−07−10

1B RA

- PHASE ULTUI

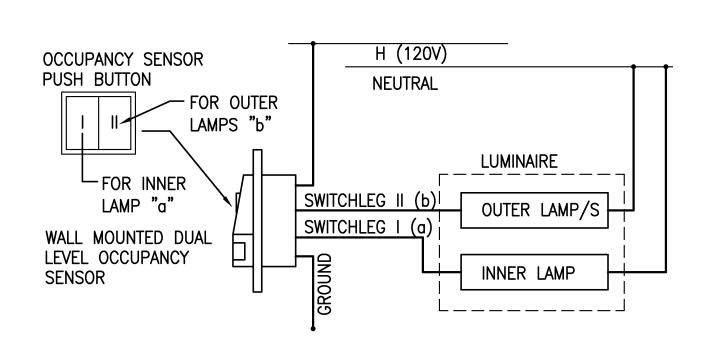






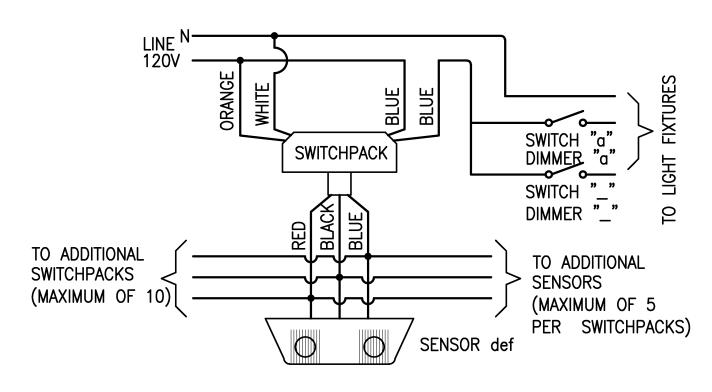
- 1) FOR CONTROLS OF BUILDING MOUNTED EXTERIOR LIGHTING, SEE DETAIL 3 DRAWING E-11B.
- FOR EGRESS LUMINAIRE WITH BATTERY PACK SHOWN SWITCHED, CONNECT SWITCHLEG AHEAD OF BATTERY CHARGER.
- 3 PROVIDE WALL OR CEILING MOUNTED BI-LEVEL OCCUPANCY SENSOR AS SHOWN. CEILING MOUNTED OCCUPANCY SENSORS SHALL HAVE WALL MOUNTED BI-LEVEL OVERRIDE SWITCHES. SEE DETAIL 2 AND 3 THIS SHEET.
- 4 ALL CIRCUITS ARE SUPPLIED FROM PANEL "C". THE CIRCUITING OF LUMINAIRES, WIRING DEVICES AND CONTROL DEVICES, WITHIN EACH INTENDED CONTROL SCHEME, SHALL BE FULLY IMPLEMENTED USING THE PROPER TYPE AND NUMBER OF WIRES WITH CONNECTIONS AS REQUIRED. "ROUNDHOUSE" METHOD SHALL BE USED FOR ALL MULTI-CIRCUIT RUNS IN COMMON CONDUIT.
- RUN CONDUIT/S FOR CANOPY LIGHTING EMBEDDED IN CONCRETE CEILING SLAB, DOWN THRU COLUMN, THEN UNDERGROUND AND UP TO PANEL C VIA TS #1C.





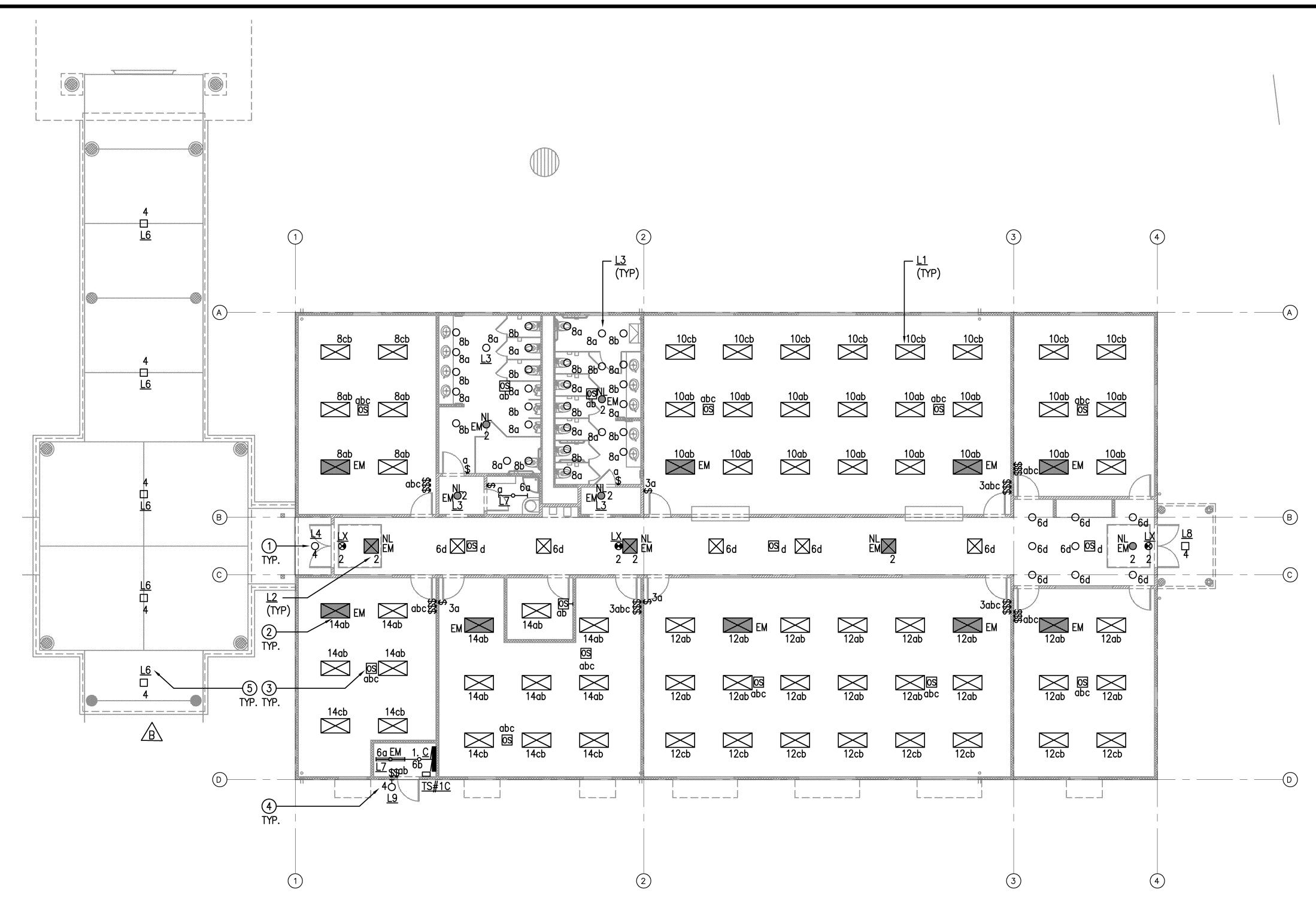
WALL MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM

SCALE: NOT TO SCALE



CEILING MOUNTED OCCUPANCY SENSOR WIRING DIAGRAM

SCALE: NOT TO SCALE



BUILDING C - PHASE 1-B
LIGHTING PLAN

PROFESS/ONAL STATE OF CALIFORNIA PROFESS/ONAL STATE OF CALIFORNIA

E-13B

DATE 05/28/10

AS NOTED

DRAWN BY:

PROJECT: ARROWHEAD

NEV OMM

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LIGHTING PL

REVISIONS

A\ 05-24-10

<u>B</u> 08-02-10

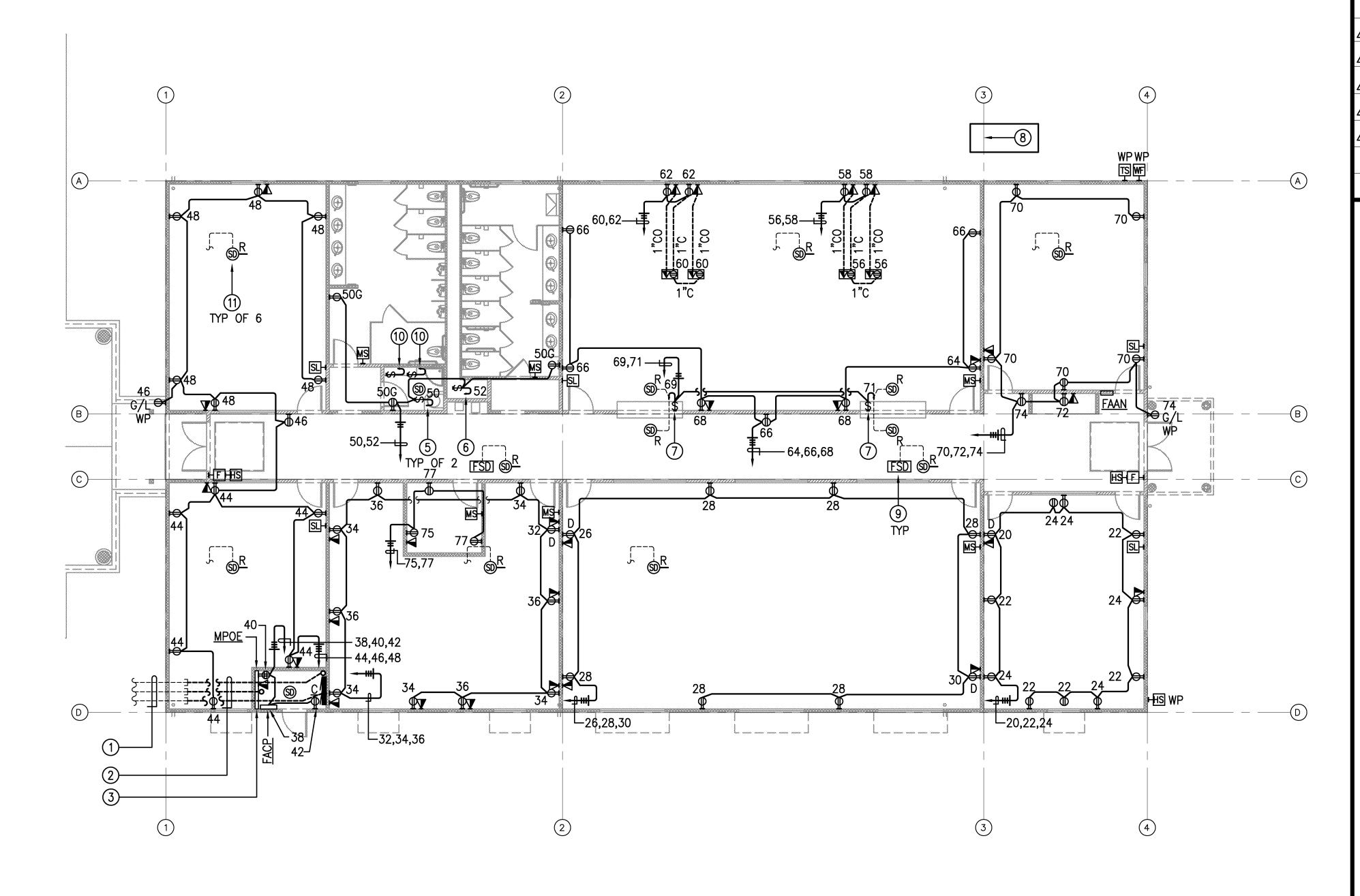
HEALTH DEPT PLAN CHECK 08-26-10

09-22-10

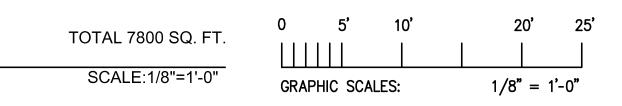
<u>∕E</u>\ 10–07–10

## SHEET NOTES

- (E) 2-2"CO (TELECOMM) AND (E) 2-3"CO (POWER) PLUS (E) 2-3"CO SPARE CONDUITS. FOR CONTINUATION, SEE PHASE 1A DRAWING E-12 AND E-12B (THIS PHASE).
- 2 EXTEND SYSTEM CONDUITS RESPECTIVELY AS SHOWN.
- 3 FOR MPOE, PROVIDE AS FOLLOWS:
  - PROVIDE 8'HX PLYWOOD BACKBOARD (+6"AFF BOTTOM OF PLYWOOD ON WALL AS SHOWN) FIRE RETARDANT—TYPE PAINTED TO MATCH ROOM OR BIEGE. EDGES OF BOARD SHALL BE SMOOTH AND SPLINTER FREE.
  - PROVIDE 2-4"¢CO SLEEVE TO RUN FROM 6" BELOW CEILING TO 6" ABOVE CEILING. COORDINATE EXACT LOCATION WITH TENANT AND CABLING VENDOR
- 4 ALL CIRCUITS ARE SUPPLIED FROM PANEL "C". THE CIRCUITING OF LUMINAIRES, WIRING DEVICES AND CONTROL DEVICES, WITHIN EACH INTENDED CONTROL SCHEME, SHALL BE FULLY IMPLEMENTED USING THE PROPER TYPE AND NUMBER OF WIRES WITH CONNECTIONS AS REQUIRED. "ROUNDHOUSE" METHOD SHALL BE USED FOR ALL MULTI-CIRCUIT RUNS IN COMMON CONDUIT.
- (5) FOR HOT WATER HEATER CONTROLS.
- (6) FOR DRINKING FOUNTAIN.
- 7 FOR FIRE DOOR OPERATOR. PROVIDE CONNECTION TO RELEASING CONTACT OF NEAREST SMOKE DETECTOR/S.
- 8 ALL HOMERUNS TO RIGHT OF THIS GRID LINE SHALL BE #10 MIN.
- 9 LOOP FIRE/SMOKE DAMPERS INTO ONE 120V CONTROL CIRCUIT. USE C-78. PROVIDE FSD CONNECTION TO RELEASING CONTACT OF ASSOCIATED DUCT MOUNTED SMOKE DETECTOR.
- 10 FOR CP-1 AND CP-2, SPD. USE CIRCUIT C-80 AND C-82 RESPECTIVELY.
- 1) DUCT MOUNTED SMOKE DETECTOR WITH RELEASING CONTACT TO SHUT DOWN ASSOCIATED ROOFTOP UNIT ON ACTIVATION. PROVIDE CONNECTION TO SHUT-DOWN CIRCUIT OF ROOFTOP UNIT.

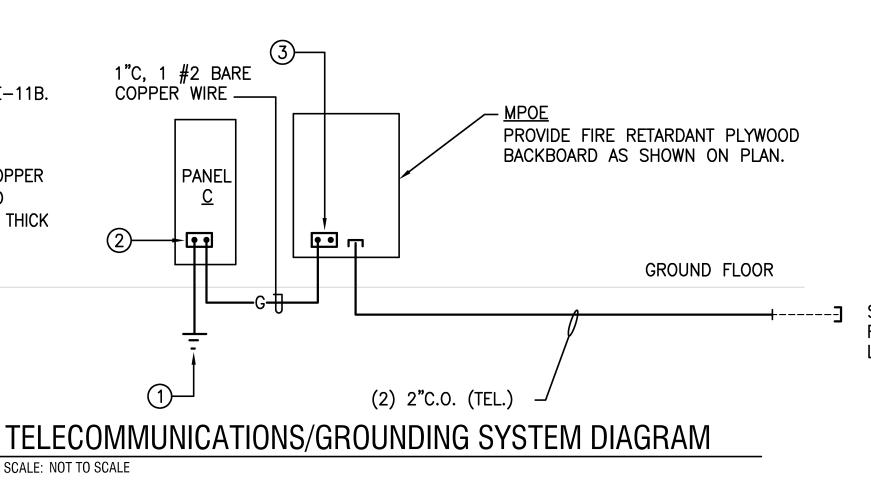


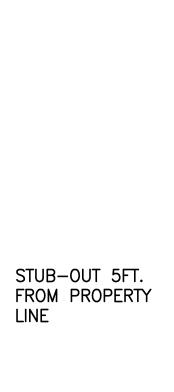


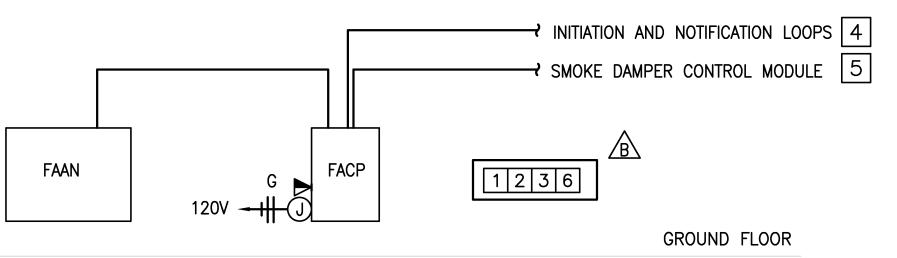


## **TELECOMM SHEET NOTES:**

- 1) SYSTEM GROUND. SEE DETAIL 1 SHEET E-11B.
- ② GROUND BUS IN PANEL.
- 3 EQUIPMENT GROUND BUS. 1/4"x4"x12" COPPER GROUND BUS WITH 20-1/4" PRE-DRILLED HOLES, MOUNTED TO THE BOARD WITH 1" THICK RUBBER/PORCELAIN SPACERS.





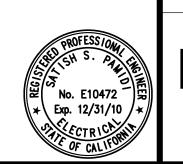


FIRE ALARM SYSTEM DIAGRAM

SCALE: NOT TO SCALE

## FIRE ALARM SYSTEM SHEET NOTES:

- ALL INSTALLATION SHALL BE IN CONDUIT. WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATION. MINIMUM CONDUIT SIZE SHALL BE 3/4".
- 2 SUBMIT SHOP DRAWINGS TO LOCAL FIRE MARSHAL FOR APPROVAL PRIOR TO START OF ANY WORK.
- NO WORK TO BE STARTED WITHOUT THE APPROVAL OF THE FIRE MARSHAL.
- PROVIDE FIRE ALARM SYSTEM DEVICES AS SHOWN ON PLAN AND REQUIRED BY AUTHORITY HAVING JURISDICTION.
- FOR LOCATION AND QUANTITY OF DEVICES, SMD.
- 6 FIRE ALARM SYSTEM SHALL BE UNDER DEFERRED PERMITTING.



REVISIONS BY

\$\int 05-24-10 \quad \text{HCCC}\$

\$\int 08-02-10 \quad \text{BPC}\$

\$\int \text{PLAN CHECK} \\ 08-26-10 \quad \text{BPC}\$

\$\int 09-22-10 \quad \text{BPC}\$

\$\int 10-07-10 \quad \text{HCCC}\$

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NEW BUILDING "C" - PHASE 1B

NEW BUILDING "C" - PHASE 1B

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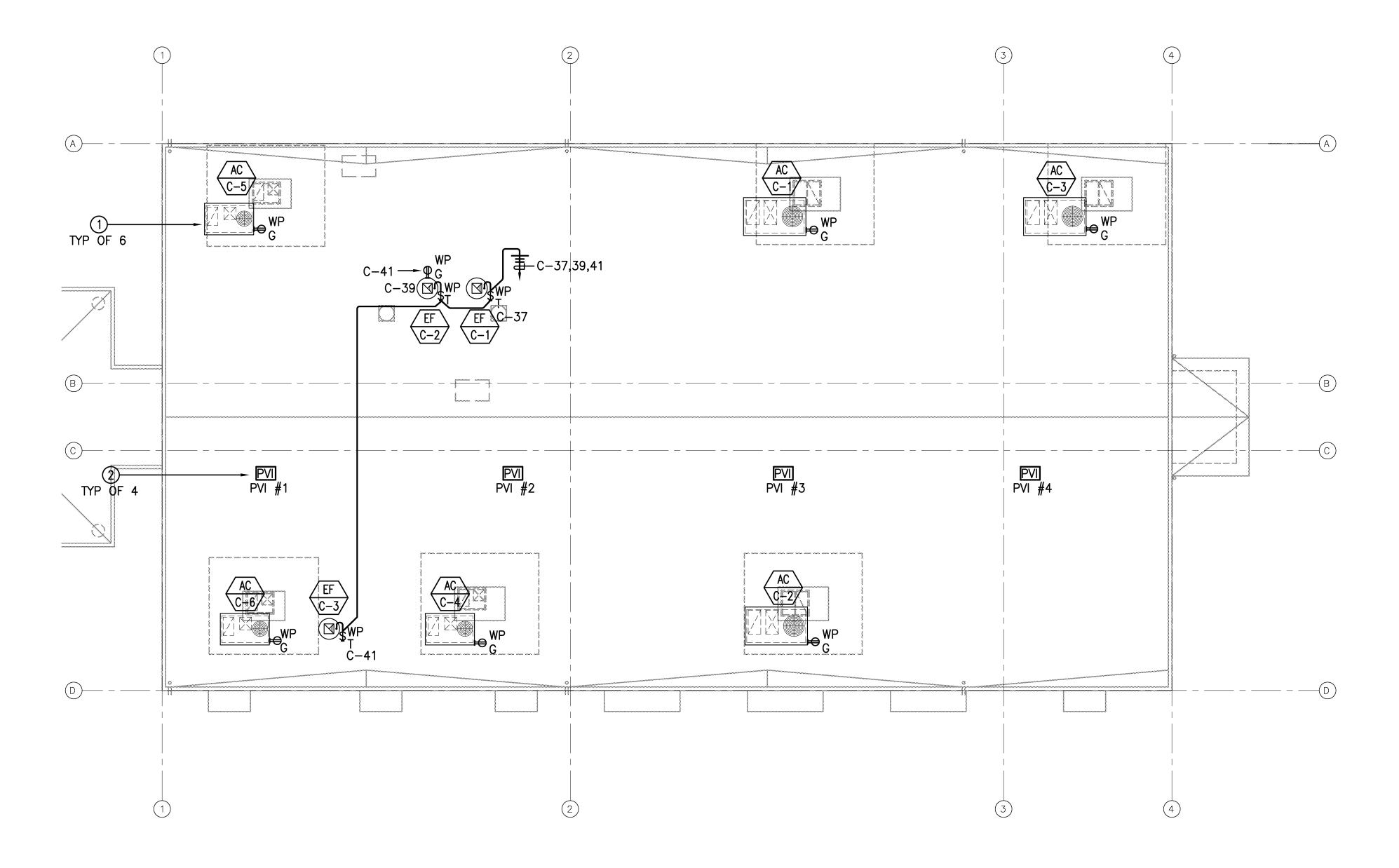
POWER AND SIGNAL PLAN TELECOMM/FIRE ALARM SYSTEM DIAGRAMS

DATE
05/28/10
SCALE:
AS NOTED
DRAWN BY:
PROJECT:
ARROWHEAD

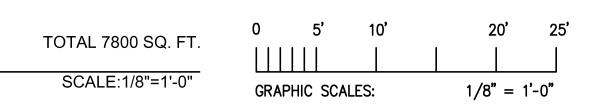
E-14B

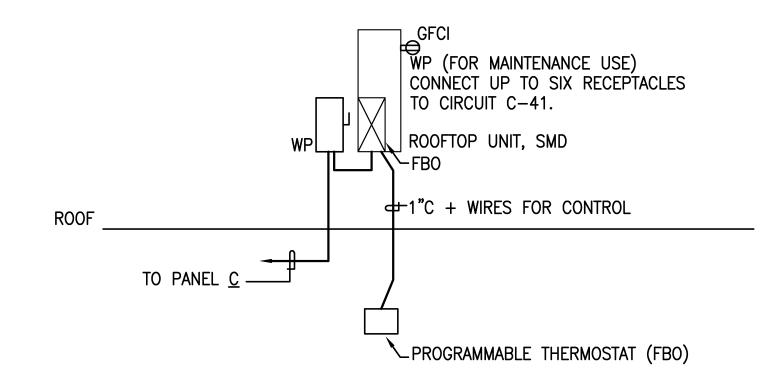


- 1 FOR WIRING AND DISCONNECT SWITCH REQUIREMENTS FOR HVAC ROOF TOP UNITS, SEE DETAIL 2 THIS SHEET AND SCHEDULE PANEL "C".
- 2 PHOTO-VOLTAIC SYSTEM IS DESIGN-BUILD UNDER SEPARATE PERMIT. LOCATION OF SYSTEM INVERTERS SHALL BE VERIFIED WITH PROVIDER.



BUILDING C - PHASE 1B
ELECTRICAL ROOF PLAN





DATE
05/28/10
SCALE:
AS NOTED
DRAWN BY:
PROJECT:
ARROWHEAD

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REVISIONS

<u>/</u>A 05–24–10

<u>B</u> 08-02-10

£ 10-07-10

ROOFTOP HVAC UNIT WIRING DIAGRAM - TYPICAL

SCALE: NOT TO SCALE

