A	GENERAL	E. <u>TELEPHONE SYSTEMS</u>
	SCOPE THE DRAWINGS AND THESE GENERAL NOTES DESCRIBE THE SCOPE OF WORK AND SYSTEMS. THE MATERIAL REQUIRED FOR THE WORK SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED, UNLESS SPECIFICALLY NOTED OTHERWISE. THE WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING PRINCIPAL SYSTEMS AND EQUIPMENT. ALL ITEMS NOTED ON THE PLAN WHICH ARE NOT EXPLICITLY STATED AS EXISTING SHALL BE NEW.	 NOT USED. F. <u>GROUNDING & BONDING</u> FURNISH AND INSTALL COMPLETE BONDING AND GROUNDIN MAINTAINED MECHANICALLY AND ELECTRICALLY THROUGHO CARRIED IN ALL CONDUITS.
2	<u>PERMITS AND CHARGES</u> OBTAIN AND PAY FOR ALL NECESSARY CONSTRUCTION PERMITS, INSPECTION FEES, AND OTHER CHARGES BY AGENCIES HAVING JURISDICTION.	 G. <u>INSTALLATION</u> 1. IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THE FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MACODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SERVICE AND AND AND AND AND AND AND AND AND AND
3	REGULATIONS AND CODES PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH THE 2019 C.E.C., CALIFORNIA ADMINISTRATIVE CODE TITLE 8, AND OTHER CODES AND REGULATIONS HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE REQUIREMENTS OF THE INSPECTING AUTHORITY AND THE MANUFACTURERS RECOMMENDATIONS.	 CONNECTORS AND HARDWARE. REFER ALSO TO WRITTEN SE PROCURE ALL PERMITS FROM LEGALLY CONSTITUTED AUTHOR AND TESTS IN CONNECTION THEREWITH. COMPLY WITH CO APPLICABLE CODES.
4	VERIFYING EXISTING CONDITIONS BEFORE SUBMITTING BID, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR THE WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT WILL BE CONSIDERED AS VALID, DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.	 DETERMINE EXACT ROUTING OF CONCEALED FEEDERS AND INSTALLATION WHEREVER POSSIBLE BUT SUBJECT TO APPRE DO NOT RUN ANY CONDUIT IN SLAB IF ITS OUTSIDE DIAMET THE MIDDLE OF THE SLAB. WHERE CONDUITS ARE GROUPED CROSS EACH OTHER, THICKEN SLAB PROPORTIONATELY OVER
5	<u>COORDINATION</u> COORDINATE ALL WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTION REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT. ELECTRICAL EQUIPMENT LOCATIONS INDICATED ARE SHOWN DIAGRAMMATICALLY, EXACT LOCATION SHALL BE VERIFIED. SCALING OFF OF DRAWINGS SHALL BE DONE AT CONTRACTORS RISK. DO NOT SCALE DEVICES, LIGHTING FIXTURES OR ANY EQUIPMENT FROM PLANS. LIGHTING FIXTURE QUANTITIES AND LENGTHS SHALL BE CONTRACTORS RESPONSIBILITY. FIXTURES ARE SHOWN FOR	 LARGEST CONDUIT. REFER ALSO TO DETAILS SHOWN 5. SIZE OUTLET BOXES IN CONFORMITY WITH CODE FOR NUME LARGER. MINIMUM BOX SIZE SHALL BE 4" SQUARE BY 1-1/2" 6. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE R REPAIRING. ALL CONDUIT SHALL BE CONCEALED WHERE POS
6	CIRCUITING ONLY. CONTRACTOR TO VERIFY SIZES & QUANTITIES PRIOR TO BID. <u>SERVICE CONTINUITY</u> UNINTERRUPTED EXISTING ELECTRICAL POWER SHALL BE MAINTAINED TO OTHER TRADES FOR TEMPORARY POWER AREAS OF THE SITE DURING CONSTRUCTION. PROVIDE ANY TEMPORARY SERVICES AS MAY BE REQUIRED. IDENTIFY AT BID TIME, ALL WORK TO BE DONE ON PREMIUM TIME AND THE TOTAL OVERTIME MAN-HOURS REQUIRED FOR COMPLETION.	OR AT RIGHT ANGLES TO, COLUMN LINES OR BEAMS AND SE THEY RUN LONG SIDE OR ACROSS SUCH LINES. CONDUIT SH SPECIFIC APPROVAL OF THE OWNERS REPRESENTATIVE. HAI TO PIPING. HANGERS AND SUPPORT SYSTEMS ARE AN INTEC EXPOSED TO PUBLIC VIEW MUST BE SHOWN IN DETAIL ON F HANGERS MUST BE UNIFORMLY SPACED AND NEATLY INSTAI SUPPORT FUNCTION. CONTRACTOR SHALL SELECT ACCESSO
7	<u>AS BUILT</u> PROVIDE RECORD DRAWINGS IN ACAD TO THE OWNER WITH ALL CHANGES NOTED THEREON AT THE COMPLETION OF THE PROJECT. RECORD DRAWINGS SHALL BE SIGNED AND DATED BY CONTRACTOR PRIOR TO RELEASE OF FINAL RETENTION OF ALL MONIES.	 PAINT ALL EXPOSED CONDUIT HANGERS TO MATCH THE ADJ CONTRACTOR SHALL EXAMINE PLANS AND VERIFY IN FIELD I CONTRACTOR SHALL SEAL ALL ELECTRICAL SYSTEM PENETRI LISTED MATERIAL APPROVED BY THE AUTHORITY HAVING JU
8	<u>GUARANTEE</u> CONTRACTOR SHALL UNCONDITIONALLY GUARANTEE ALL LABOR AND MATERIALS ON ALL WORK AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR.	 8. PANEL CIRCUIT DIRECTORY SHALL COMPLY WITH CEC 408.4. H. <u>ADDITIONAL NOTES</u> 1. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUI PLANS OR FROM PREVENTING ANY VIOLATION OF THE COL
9	SUBMIT SHOP DRAWINGS SUBMIT SHOP DRAWINGS AND MATERIAL LIST FOR REVIEW PRIOR TO COMMENCING ANY WORK. ALL EQUIPMENT TO BEAR U.L. LABEL OR THAT OF ANOTHER ACCEPTABLE TESTING LABORATORY. SHOP DRAWINGS MUST BE STAMPED BY THE CONTRACTOR FOR CONFORMANCE PRIOR TO SUBMITTAL. SUBMIT THREE HARD COPY SETS OF SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASING ALL BREAKER MOUNTING HARDWARE, DISCONNECT SWITCHES, FUSES, CONTROLLERS, LIGHTING FIXTURES, LIGHT SWITCHES, RECEPTACLES, ETC.	 PLANS OR FROM PREVENTING ANY VIOLATION OF THE COL REGULATIONS. FOR FIRE RATED WALL/CEILING PENETRATION AND/OR ME PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTIO PROVIDE SEPARATE SUBMITTAL; OBTAIN ALL REQUIRED PI
10	CONTRACTOR BID CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND AS SPECIFIED. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION OF THE OWNER AND ENGINEER PRIOR TO BID IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER IN WRITING. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHARGES RESULTING FROM HIS PROPOSED SUBSTITUTIONS WHICH AFFECT OTHER PARTS OF HIS OWN WORK, THE OWNER, ENGINEER OF RECORD OR THE WORK OF	 INSTALLATIONS AND/OR MODIFICATIONS FROM THE FIRE RACEWAY SEALS. CONDUITS OR RACEWAYS THROUGH WH EITHER OR BOTH ENDS. THE IDENTIFICATION OF EVERY CIRCUIT OF A PANEL BOAI EVIDENT, AND SPECIFIC PURPOSE OR USE AND SHALL INCL FROM ALL OTHERS. 2016 C.E.C 408.4 - PROVIDE MORE DET
В	OTHER CONTRACTORS. MATERIAL AND INSTALLATION ALL WORK AND MATERIAL SHALL CONFORM TO THE LATEST RULES OF THE GOVERNING ELECTRICAL CODE AND INSTALLATION SHALL BE OF THE LATEST INDUSTRY STANDARDS OF WORKMANSHIP.	 I. <u>FIRE ALARM SYSTEM</u> 1. CONTRACTOR SHALL PROVIDE AND INSTALL A FIRE ALARM A) SMOKE DETECTORS IN ALL REQUIRED AREAS
	ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L., NRTL OR LISTED AND APPROVED BY AN APPROVED TESTING LABORATORY.	 B) HEAT DETECTORS IN ALL REQUIRED AREAS C) DUCT DETECTORS IN ALL REQUIRED SPACES D) STROBES/SPEAKERS IN ALL REQUIRED AREAS E) PULL STATIONS AT ALL LEGAL FIRE EXITS
1.	CONDUITS CONDUIT SHALL BE EMT, PVC, IMC, RIGID OR FLEXIBLE STEEL TYPE. CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH UL-1. A GROUND WIRE IS REQUIRED IN ALL FLEXIBLE CONDUIT AND UNDERGROUND CONDUIT. BUSHINGS SHALL BE INSTALLED ON ALL COMMUNICATION, TELEPHONE & SPEAKER CONDUITS. PROVIDE 3/16" NYLON PULL STRING IN ALL EMPTY CONDUITS. NO MC, BX OR AC90 SHALL BE PERMITTED. FLEXIBLE STEEL CONDUIT RUNS SHALL BE LIMITED TO A MAXIMUM LENGTH OF 6 FOOT. ALL CONNECTIONS SHALL BE COMPRESSION & NOT SCREW TYPE.	 CONTRACTOR SHALL SUBMIT FOR THE OWNERS SIGNED A PROJECT SPACE. CONTRACTOR SHALL BE CAMPUS STANDARD - FCI. ALL DEVICES AND EQUIPMENT SHALL BE CALIFORNIA STAT
2	SWITCHES AND RECEPTACLES NOT USED.	 CONTRACTOR SHALL WARRANTY ALL DEVICES AND SYSTEM CONTRACTOR SHALL PROVIDE 6 (SIX) HARD COPY SETS OF
3	FEEDERS AND BRANCH CIRCUITS IDENTIFICATION IDENTIFY FEEDERS WITH THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, LOAD END, AND IN PULL BOXES WITH E-Z CODE OR OTHER APPROVED WIRE MARKER. IDENTIFY BRANCH CIRCUITS WITH I.D. MARKERS, THE CORRESPONDING CIRCUIT DESIGNATION AT THE OVER-CURRENT DEVICE, AT ALL SPLICES, IN JUNCTION BOXES, AND IN OUTLETS. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z CODE FOR IDENTIFICATION OF CONDUCTORS. IDENTIFY SIGNAL & COMMUNICATION CABLES AT TERMINAL AND OUTLET UNIQUELY WITH PERMANENT	 (SIX) HARD COPY SETS OF A SYSTEM OPERATIONAL MANU. 7. CONTRACTOR SHALL PROVIDE AN INDIVIDUALLY ADDRESS OF MONITORING INITIATING CIRCUITS PLUS 30 MINUTES 8. CONTRACTOR SHALL PROVIDE A SATISFACTORY SYSTEM T CONSULTING ENGINEER.
4	LABELING. <u>CONDUCTORS</u> DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, TYPE, MANUFACTURER, TRADE NAME AND THE DATE OF MANUFACTURE. (MUST BE MANUFACTURED WITHIN 6 MONTHS) PROVIDE COPPER CONDUCTORS #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. PROVIDE STRANDED COPPER CONDUCTORS FOR ALL WIRING. USE CONDUCTORS WITH 90°C THHN/THWN 600 VOLTS INSULATION, UNLESS	 9. CONTRACTOR SHALL PROVIDE ALL CONNECTION TO POWE AN OPERATIONAL FIRE ALARM SYSTEM. 10. UNIQUELY LABEL ALL ADDRESSABLE DEVICES TO MATCH FILABELED. 11. CONTRACTOR TO LABEL AS ASM/ED REVICE
	OTHERWISE NOTED. CONDUCTOR SIZE NO.1 AWG AND SMALLER WITH 90 DEGREE C INSULATION ARE TO USE THE 60 DEGREE COLUMN OF THE CODE, TABLE 310-16, TO DETERMINE AMPACITY. CONDUCTORS #1/0 AWG AND LARGER WITH 75 DEGREE AND 90 DEGREE INSULATION ARE TO USE THE 75 DEGREE COLUMN OF CODE, TABLE 310-16, TO DETERMINE AMPACITY. (110.14C) WHERE THE NUMBER OF CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED PER TABLE 310.15(B)(3)(a).	11. CONTRACTOR TO LABEL AS ASM/E3 DEVICE
5	LIGHTING FIXTURES NOT USED.	NEC #310-8 ADJUSTMENT FACTORS (a) MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN CONDUCTORS IN A RACEWAY OR CABLE EXCEEDS THREE, THE FOLLOWING TABLE:
6 7	PANELBOARDS NOT USED. STRUCTURAL SUPPORT	NUMBER OF CURRENT-CARRYING CONDUCTORS
	EACH SECTION OF FLOOR MOUNTED SWITCHBOARD, DISTRIBUTION BOARD, MCC, ETC. SHALL BE BOLTED TO THE CONCRETE HOUSEKEEPING PAD USING (6) 3/4"-10 GRADE 2 BOLTS AND CONICAL WASHERS TORQUED TO 70LB-FT. PROVIDE MINIMUM 4000 PSI STRENGTH CONCRETE BELOW ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT. TIE THE TOP OF ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT TO THE BUILDING STRUCTURE IN A SEISMICALLY APPROVED MANNER.	4 THROUGH 6 7 THROUGH 9 10 THROUGH 20 21 THROUGH 30 31 THROUGH 40 41 AND ABOVE
8	ELECTRICAL CERTIFICATION "ELECTRICIANS" PERFORMING WORK ON THIS PROJECT SHALL BE CURRENTLY CERTIFIED IN ACCORDANCE WITH THE STATE OF CALIFORNIA AB931 AND THE DIVISION OF APPRENTISHIP STANDARDS SECTION 3099. DEMOLITION	WHERE SINGLE CONDUCTORS OR MULTICONDUCTOR CABLES A MAINTAINING SPACING AND ARE NOT INSTALLED IN RACEWAYS SHOWN IN THE ABOVE TABLE.
1	NOTIFY THE OWNER IMMEDIATELY WHEREVER EXISTING EQUIPMENT IS ENCOUNTERED WHICH MUST BE RELOCATED DUE TO THE NEW CONSTRUCTION, AND WHICH IS NOT INDICATED ON THE PLANS. BEGINNING OF DEMOLITION MEANS CONTRACTOR ACCEPTS EXISTING CONDITIONS.	EXCEPTION NO. 1: WHERE CONDUCTORS OF DIFFERENT SYSTEM RACEWAY OR CABLE, THE DERATING FACTORS SHOWN ABOVE S 220, AND 230) CONDUCTORS ONLY.
C 1	EXECUTION CAREFULLY PROTECT ALL WALLS, TRIM, FLOORS, EQUIPMENT UTILITY LINES AND MATERIALS. WHEN WORKING ON FINISHED SURFACES, LIMIT DAMAGE TO THE CONFINES AS MUCH AS POSSIBLE AND RESTORE TO THE ORIGINAL CONDITION ALL SURFACES WHICH ARE DAMAGED BECAUSE OF THE INSTALLATION OF THIS WORK.	EXCEPTION NO. 2: FOR CONDUCTORS INSTALLED IN CABLE TRA EXCEPTION NO. 3: DERATING FACTORS SHALL NOT APPLY TO C (610mm).
2	EQUIPMENT, MATERIALS AND SUPPLIES REMOVED FOR PROTECTION SHALL BE REPLACED IN ORIGINAL LOCATIONS. ANY MATERIALS DAMAGED SHALL BE REPLACED WITH NEW MATERIALS OF LIKE KIND AND QUALITY. DO ALL DRILLING, CUTTING, CHANNELING AND PATCHING REQUIRED TO INSTALL ELECTRICAL WORK AS INDICATED OR HEREIN SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT	EXCEPTION NO. 4: DERATING FACTORS SHALL NOT APPLY TO U IF THOSE CONDUCTORS HAVE PHYSICAL PROTECTION IN THE F NONMETALLIC CONDUIT HAVING A LENGTH NOT EXCEEDING 10 EXCEED FOUR.
4. 5.	SPECIFIED. ALL HOLES, CURBS, ETC., IN FLOORS, CEILINGS AND WALLS SHALL BE PATCHED, UNLESS INDICATED OTHERWISE. PAINT ALL NEW ELECTRICAL RACEWAYS, CABINETS, ENCLOSURES AND FITTINGS PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC. ALL CONDUIT RUNS SHALL BE CONCEALED, UNLESS SHOWN OTHERWISE. PROVIDE A PULL WIRE IN ALL EMPTY CONDUITS. EXISTING CONDITION SHOWN IS FROM AVAILABLE RECORD DRAWINGS AND VISUAL FIELD SURVEY AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITION AT SITE.	EXCEPTION NO. 5: FOR OTHER LOADING CONDITIONS, ADJUSTI UNDER SECTION 310-15(b) (FNC): SEE APPENDIX B, TABLE B-310-11 FOR ADJUSTMENT FAC RACEWAY OR CABLE WITH LOAD DIVERSITY.
6.	ALL WORK SHOWN IS NEW UNLESS SPECIALLY INDICATED AS EXISTING (X). ALL ELECTRICAL EQUIPMENT MOUNTING AND ANCHORAGE MUST CONFORM WITH LOCAL AND STATE SEISMIC CODES.	(b) MORE THAN ONE CONDUIT, TUBE, OR RACEWAY. SPACING

ΓES	SYMBOLS
E SYSTEMS	SPECIAL OUTLET, TYPE AS REQUIRED BY EQUIPMENT. JUNCTION BOX (CEILING MTD.) SIZE PER TABLE AND NEC ARTICLE 370 JUNCTION BOX (WALL MTD.) SIZE PER TABLE AND NEC ARTICLE 370 TRANSFORMER BRANCH CIRCUIT PANELBOARD - 240/120V, 1Ø, 3W OR 3Ø, 3W, 240VAC CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS, CONDUIT RUN CONCEALED BELOW FLOOR OR UNDERGROUND FLEXIBLE CONDUIT (WITH GROUND CONDUCTOR, PROVIDE LIQUID TIG EXPOSED AREAS) HASH MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTORS. NO HASH MARKS INDICATE (2)#12AWG. (PROVIDE GROUND CONDUCTOR IN ALL CONDUITS.) WHERE NO NUMBER IS INDICATED, THE CONDUCTORS ARE #12AWG(MIN.) CONDUIT SIZE IS AS REQUIRED BY ELECTRICAL CODE. (3/4" CONDUIT MINIMUM). INDICATES A HOMERUN TO PNL 2LA, CKTS 1-3-5 WITH SHARED NEUTR/CKT 7 WITH DEDICATED NEUTRAL. 2LA 1-3-5,7 JUNCTION 3/4"C-2#12 & 1#12 GND JUNCTION 3/4"C-2#10 & 1#10 GND JUNCTION 3/4"C-2#10 & 1#10 GND JUNCTION 3/4"C-5#10 & 1#10 GND JUNCTION 3/4"C-5#10 & 1#10 GND
EXPOSED CONDUIT HANGERS TO MATCH THE ADJACENT FINISHES.	

. EXAMINE PLANS AND VERIFY IN FIELD LOCATIONS OF ALL FIRE RATED WALLS, CEILINGS AND FLOORS. SEAL ALL ELECTRICAL SYSTEM PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS AND FLOORS WITH U.L. PPROVED BY THE AUTHORITY HAVING JURISDICTION.

A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE REVENTING ANY VIOLATION OF THE CODES ADOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR

NALL/CEILING PENETRATION AND/OR MEMBRANE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE INSPECTOR AT THE TIME OF INSPECTION FOR THE LISTED RATED ASSEMBLY.

TE SUBMITTAL; OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM AND/OR MODIFICATIONS FROM THE FIRE DEPARTMENT.

CONDUITS OR RACEWAYS THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT ENDS.

TON OF EVERY CIRCUIT OF A PANEL BOARD AND SWITCHBOARD SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, ECIFIC PURPOSE OR USE AND SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED 5. 2016 C.E.C 408.4 - PROVIDE MORE DETAIL ON PANEL SCHEDULE CIRCUIT DESCRIPTIONS.

LL PROVIDE AND INSTALL A FIRE ALARM SYSTEM FOR THE PROJECT AREA TO INCLUDE:

ALL SUBMIT FOR THE OWNERS SIGNED APPROVAL, APPROVED FIRE DEPARTMENT FIRE ALARM DRAWINGS FOR THE

) EQUIPMENT SHALL BE CALIFORNIA STATE FIRE MARSHALL APPROVED AND CURRENTLY LISTED.

ALL WARRANTY ALL DEVICES AND SYSTEMS FOR A PERIOD OF TWO YEARS. ALL PROVIDE 6 (SIX) HARD COPY SETS OF FIRE ALARM MANUALS FOR ALL SYSTEMS AND DEVICES IN ADDITION TO 6 SETS OF A SYSTEM OPERATIONAL MANUAL TAILORED FOR THE PROJECT SPACE.

ALL PROVIDE AN INDIVIDUALLY ADDRESSABLE TOTALLY SUPERVISED SYSTEM WITH BATTERY BACK-UP FOR 24 HOURS INITIATING CIRCUITS PLUS 30 MINUTES OF ALARM WITH DUAL RATE BATTERY CHARGER.

ALL PROVIDE A SATISFACTORY SYSTEM TEST IN THE PRESENCE OF THE OWNER, FIRE PREVENTION BUREAU AND INEER.

ALL PROVIDE ALL CONNECTION TO POWER PANELS, CONDUIT AND WIRE AND CONNECTIONS REQUIRED TO PROVIDE FIRE ALARM SYSTEM.

ALL ADDRESSABLE DEVICES TO MATCH FIRE ALARM PROGRAMMING & AS BUILTS, EACH DEVICE TO BE UNIQUELY

DERATING TABLE

NEC #310-8 ADJUSTMENT FACTORS E CURRENT-CARRYING CONDUCTORS IN A RACEWAY OR CABLE. WHERE THE NUMBER OF CURRENT-CARRYING ACEWAY OR CABLE EXCEEDS THREE, THE ALLOWABLE AMPACITIES SHALL BE REDUCED AS SHOWN IN THE PERCENT OF VALUES IN TABLES AS ADJUSTED OF CURRENT-CARRYING FOR AMBIENT TEMPERATURE IF NECESSARY CONDUCTORS 4 THROUGH 6 7 THROUGH 9 10 THROUGH 20 21 THROUGH 30 31 THROUGH 40 41 AND ABOVE CTORS OR MULTICONDUCTOR CABLES ARE STACKED OR BUNDLED LONGER THAN 24 INCHES (610 mm) WITHOUT AND ARE NOT INSTALLED IN RACEWAYS, THE ALLOWABLE AMPACITY OF EACH CONDUCTOR SHALL BE REDUCED AS TABLE. ERE CONDUCTORS OF DIFFERENT SYSTEMS, AS PROVIDED IN SECTION 300-3, ARE INSTALLED IN A COMMON THE DERATING FACTORS SHOWN ABOVE SHALL APPLY TO THE NUMBER OF POWER AND LIGHTING (ARTICLES 210, 215, CTORS ONLY. CONDUCTORS INSTALLED IN CABLE TRAYS, THE PROVISIONS OF SECTION 318-11 SHALL APPLY. RATING FACTORS SHALL NOT APPLY TO CONDUCTORS IN NIPPLES HAVING A LENGTH NOT EXCEEDING 24 INCHES RATING FACTORS SHALL NOT APPLY TO UNDERGROUND CONDUCTORS ENTERING OR LEAVING AN OUTDOOR TRENCH S HAVE PHYSICAL PROTECTION IN THE FORM OF RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, OR RIGID T HAVING A LENGTH NOT EXCEEDING 10 FEET (3.05m) ABOVE GRADE AND THE NUMBER OF CONDUCTORS DOES NOT

OTHER LOADING CONDITIONS, ADJUSTMENT FACTORS AND AMPACITIES SHALL BE PERMITTED TO BE CALCULATED

, TABLE B-310-11 FOR ADJUSTMENT FACTORS FOR MORE THAN THREE CURRENT-CARRYING CONDUCTORS IN A ITH LOAD DIVERSITY.

CONDUIT, TUBE, OR RACEWAY. SPACING BETWEEN CONDUITS, TUBING, OR RACEWAYS SHALL BE MAINTAINED.

DUIT MINIMUM IF UN E DEDICATED NEUTR OMMON CIRCUIT HAI RCUITS) 3/4"C-5#10 & 1#10 GND $\langle 1 \rangle$ SEE KEY NOTE #1 AS INDICATED ON DRAWING (M)100A UTILITY METER (OR AS NOTED) 200AF MOLDED CASE CIRCUIT BREAKER 200 AMP FRAME, 150 AMP TRIP RATIN)150AT 3P

COLOR CODE FOR CONE

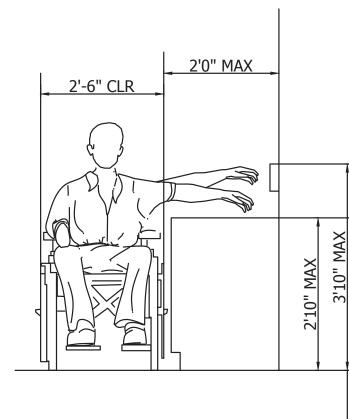
PROVIDE CONDUCTOR COLOR CODE AS FOLLOWS: 120/208VAC,3Ø,4W: BLUE,BLACK,RED FOR PHASE CONDUCTORS AND WHITE FO GROUND.

277/480VAC, 3Ø, 4W: ORANGE, BROWN, YELLOW FOR PHASE CONDUCTORS AND GROUND.

APPLICABLE CODES AND S

- 1. 2019 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1
- 2. 2019 CALIFORNIA BUILDING CODE (CBC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE (IBC) W/CALIFORNIA AMENDMENTS)
- . 2019 CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE (NEC) W/CALIFORNIA AMENDMENTS)
- 4. 2019 CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6
- 5. 2019 CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE (IFC) W/CALIFORNIA AMENDMENTS)
- 6. 2019 CALIFORNIA REFERENCED STANDARDS CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 12
- AMERICANS WITH DISABILITIES ACT (ADA)
- TITLE II ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG) 1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE 8. CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCES
- CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19 9. 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
- (CAL GREEN), PART II, TITLE 24 C.C.R.
- 10. 2019 CALIFORNIA MECHANICAL CODE (CMC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE (UMC) W/CALIFORNIA AMENDMENTS) 11. 2019 CALIFORNIA PLUMBING CODE (CPC)
- CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 5 (2018 UNIFORM PLUMBING CODE (UPC) W/CALIFORNIA AMENDMENTS)
- 12. 2013 TITLE 19 CALIFORNIA CODE OF REGULATIONS (CCR) PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 13. 2016 NFPA 72 NATIONAL FIRE ALARM CODE

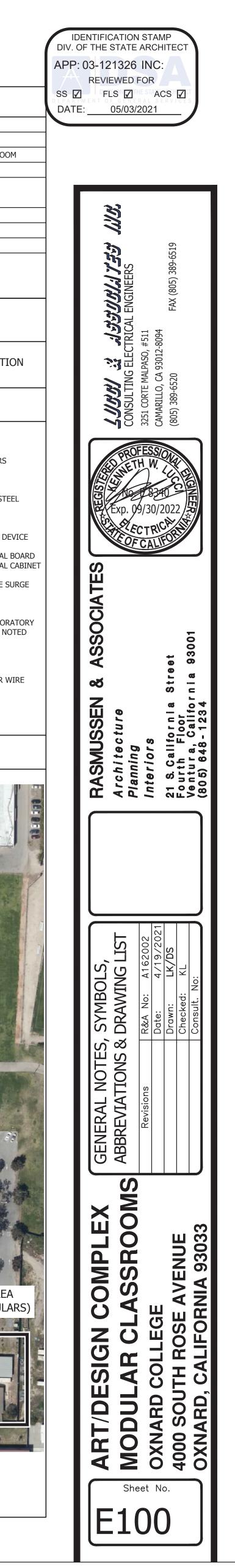
MOUNTING HEIGHT OVER OF

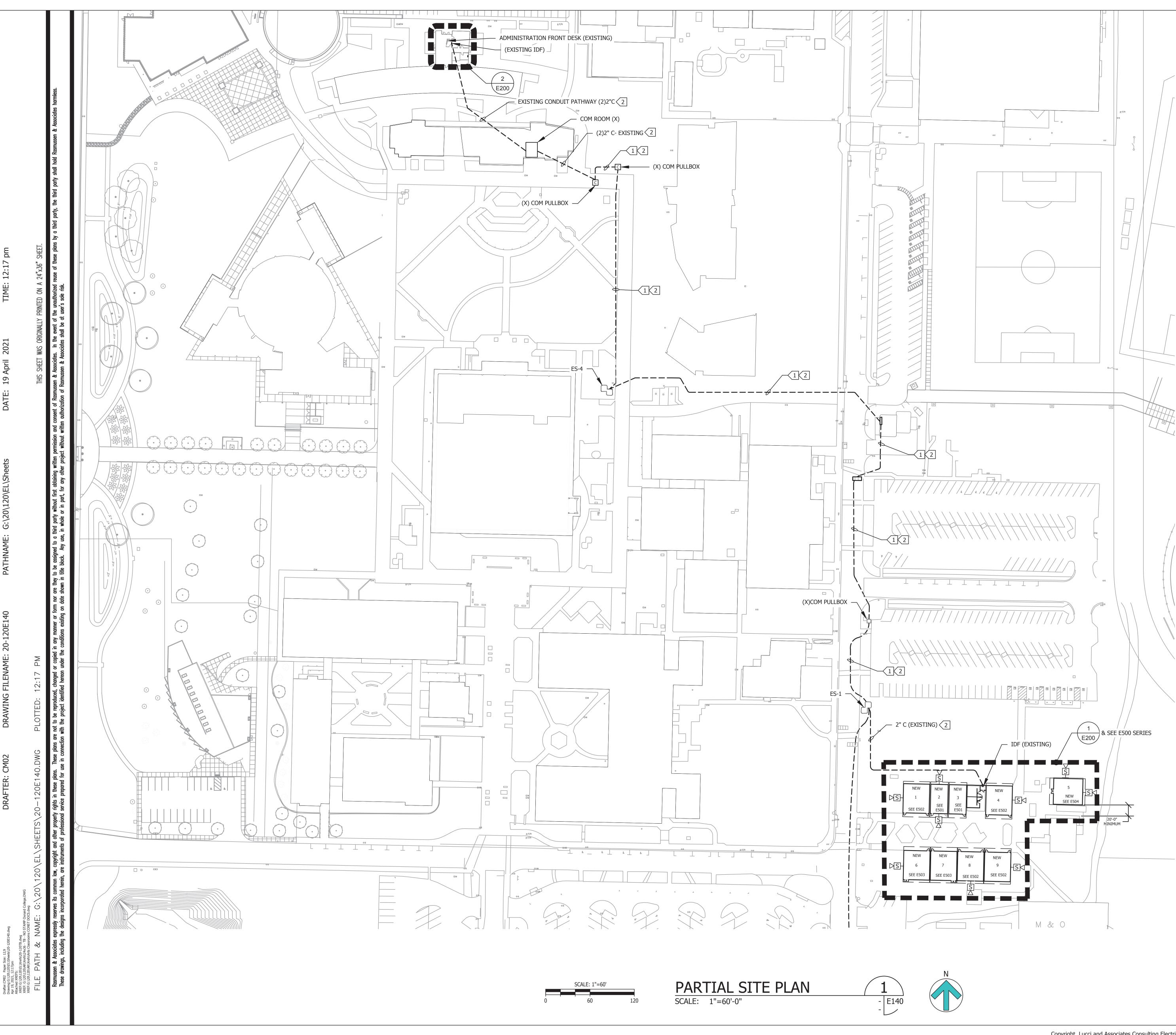


TOP OF THERMOSTAT, SWITCH, OUTLET, CONTROL -

ų THERMOSTAT, SWITCH, OUTLET, CONTROL

		LIST	OF	DRAWINGS
	SHEET E100	DESCRIPTION GENERAL NOTES, ABBREVIATIONS, SYMBOLS & DRAWING LIST	SHEET E503	DESCRIPTION 36'X40' MODULAR FIRE ALARM PLAN MODULAR #6 & 7
370	E140	PARTIAL SITE PLAN	E504	36'X40' MODULAR FIRE ALARM PLAN MODULAR #5 & RESTROOI
0	E200 E500	ELECTRICAL PANEL SCHEDULE FIRE ALARM GENERAL NOTES, SYMBOLS & ABBREVIATION	E510	FIRE ALARM DETAIL SHEET FIRE ALARM RISER DIAGRAM, VOLTAGE DROP, AND
DVAC OR 120/208VAC, 3Ø, 4W.	E501 E502	24'X40' MODULAR FIRE ALARM PLAN MODULAR #2 & 3 36'X40' MODULAR FIRE ALARM PLAN MODULAR #1, 4, 8 & 9		BATTERY CALCULATION CALCULATION
TIGHT CONDUIT IN ALL				
H ALL				
DE.		SCOPE OF WORK		
UTRAL &	1	PROVIDE F.A. PLANS FOR 9 NEW MODULAR BUILDINGS PER BUILDING.	SITE PLAN	& 2 WAY COMMUNICATIONS TO ADMINISTRATION
		ABBREVIATIONS		
UNDERGROUND (CONTRACTOR TO JTRALS FOR CIRCUITS WHICH DO NOT HANDLE TIES ON BREAKERS FEEDING	A AF AFC AFF AIC ARCH AS ASTM AT ATS AWG	AMP INTERRUPTING CURRENTGFIGROUND FAARCHITECTGNDGROUNDAMP SWITCHHPHORSEPOWAMERICAN SOCIETY OFIDIDENTIFICATESTING MATERIAL(S)IDFINTERMEDIAMP TRIPFRAMEAUTOMATIC TRANSFER SWITCHIGISOLATED CAMERICAN WIRE GAGEJBJUNCTION I	ONTRACTOR AULT INTERRU TER TION ATE DISTRIBU	PVPHOTO VOLTAIC(R)REMOVEDRGSRIGID GALVANIZED STEIJTIONCONDUITRMROOMSNSYSTEM NEUTRALSPDSURGE PROTECTION DE
ATING, 3 POLE	BKBD C CB CONT CKT	CIRCUIT BREAKERLCLIGHTING CCONTINUATIONLCLLONG CONTCIRCUITLVLOW VOLTA	TINUOUS LOA	D TTC TELEPHONE TERMINAL (D TR TRANSFORMER TVSS TRANSIENT VOLTAGE SU
DUCTORS	CLG CO CTV (CU)	CEILINGMMETERCONDUIT ONLYMCMETAL CLAICABLE TELEVISIONMDFMAIN DISTRCOPPERMIN.MINIMUM	D RIBUTION FRA	SUPPRESSOR TYP TYPICAL ME UG UNDERGROUND UL UNDERWRITERS LABOR/
FOR NEUTRAL, GREEN FOR	CW DIS DS DWG	COLD WATER PIPEMTDMOUNTEDDISCONNECTMTBMAIN TELEFDISCONNECT SWITCHMTGMOUNTINGDRAWINGMVMEDIUM VC		OARD UON UNLESS OTHERWISE NO UNSW UNSWITCHED V VOLTS/VOLTAGE VA VOLT AMPS
D WHITE FOR NEUTRAL, GREEN FOR	ECD EM EMT EOR	ELECTRICAL CONTRACTORMHMAN HOLEEMERGENCY LIGHT/FEEDERMFGMANUFACTUELECTRICAL METAL TUBINGNECNATIONAL EENGINEER OF RECORD(N)NEW	URER ELECTRICAL C	CODE VD VOLTAGE DROP W WATTS/WATTAGE OR W WP WEATHERPROOF W/ WITH
STANDARDS	EPR EVCS	ETHYLENE PROPYLENE RUBBER NIC NOT IN COM ELECTRIC VEHICLE CHARGING NL NIGHT LIGH STATION NORMALLY	IT OPEN	(X) EXISTING PHASE EA MAP
G) CESSIBILITY STANDARDS		<image/>		





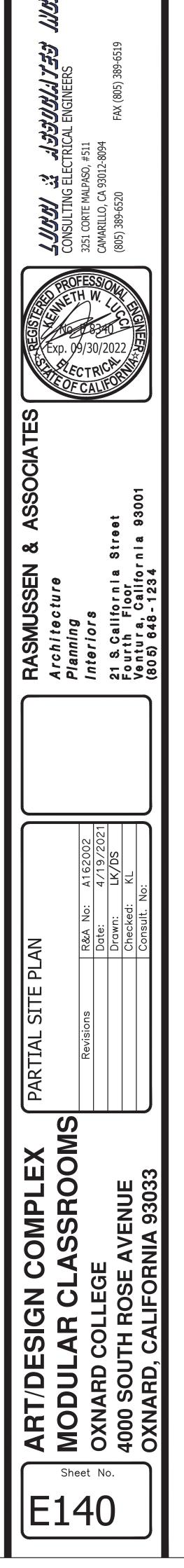
SHEET NOTES:

- 1. ALL SITE ELECTRICAL WORK TO BE COMPLETED UNDER SEPARATE PERMIT (EXCEPT FIRE ALARM).
- 2. MODULAR BUILDING TO BE PROVIDED BY MODULAR COMPANY.
- 3. ALL LIGHTING & POWER IN MODULAR BUILDINGS TO BE PROVIDED BY MODULAR COMPANY AND APPROVED BY DSA UNDER SEPARATE PERMIT.

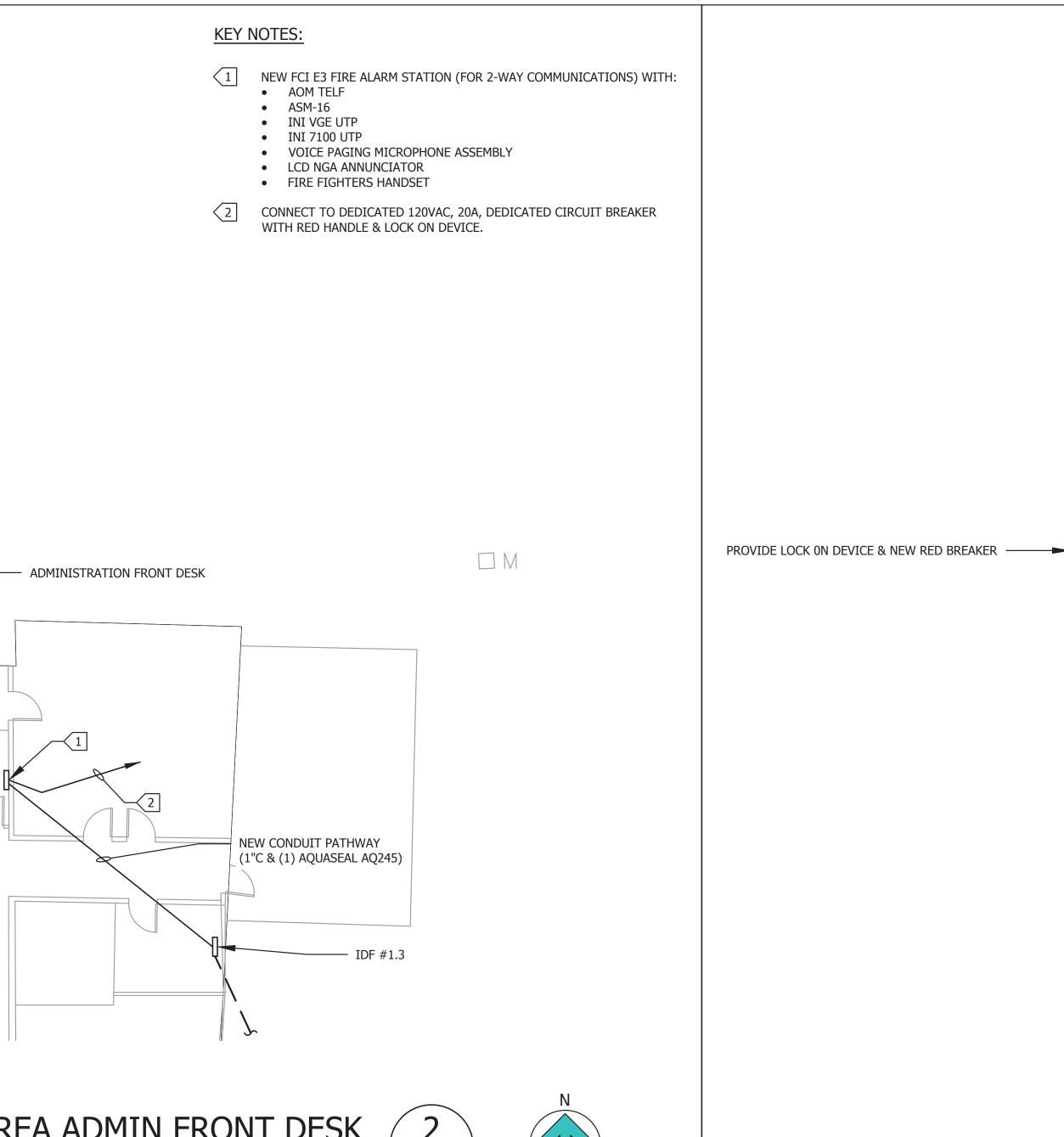
KEY NOTES:

- (1) EXISTING (9) 4"C.O. COM.
- 2 PROVIDE NEW WEST PENN AQ 245 (2 PAIR #16 UTP AQUASEAL) FROM NEW MODULAR BUILDING #1 (FA) SYSTEM (E3) TO ADMINISTRATION BUILDING (E3) FOR 2-WAY COMMUNICATIONS.



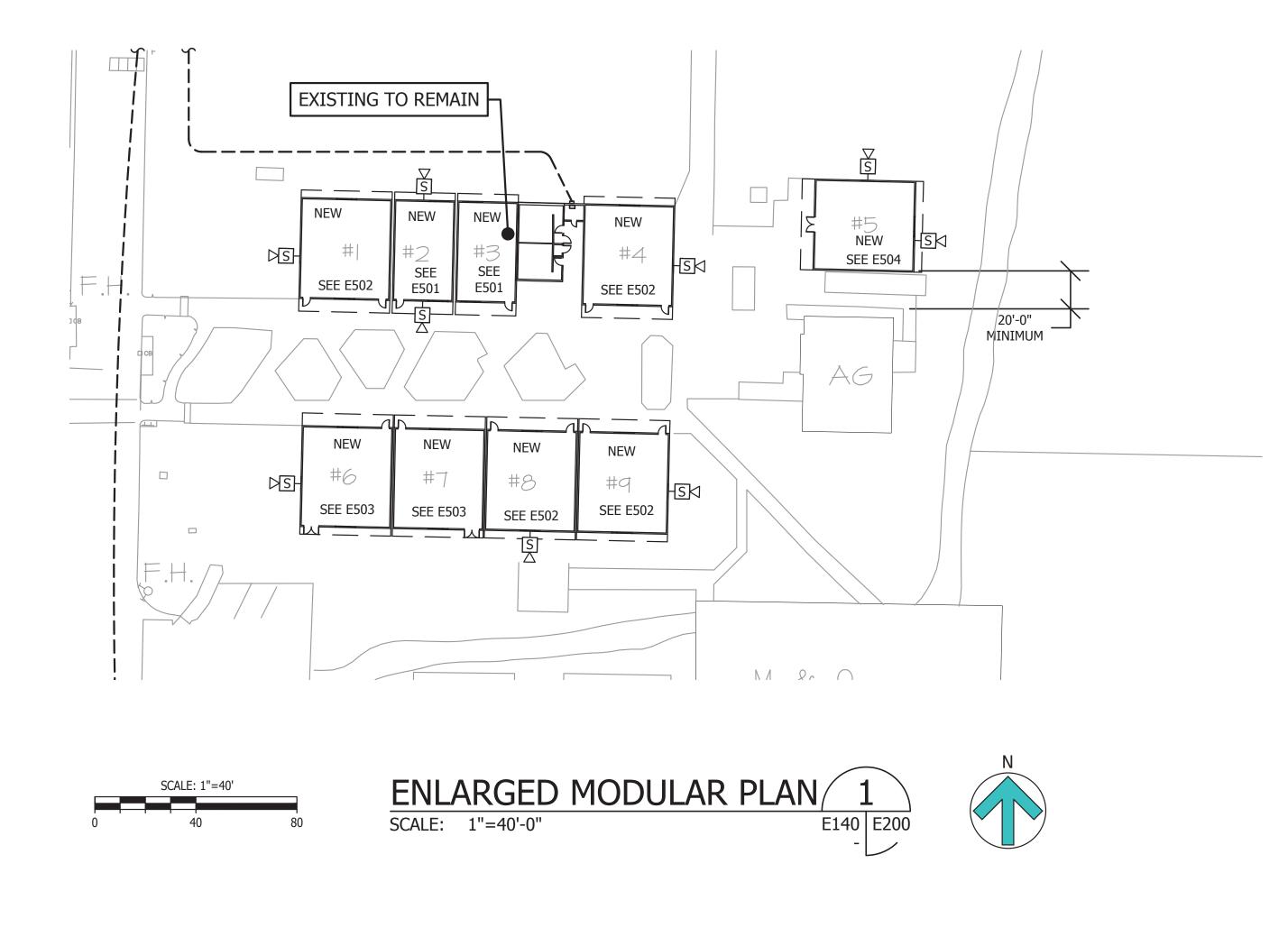


	a third party, the third party shall hold Rasmussen & Associates harmless.	SEE E500 SERIES FOR EQUIPMENT AND RISER DIAGRAM
TIME: 12:17 pm		
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PATHNAME: G:\20\120\EL\Sheets	are they to be assigned to a third party without first obtaining written permis shown in title block. Any use, in whole or in part, for any other project with	SCALE: 1"=10' SCALE: 1'=10' SCALE: 1'=10' SCALE:
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DRAFTER: CM02	\120\EL\SHEETS\20-120E200.DWG mon law, copyright and other property rights in these plans. These plans are herein, are instruments of professional service prepared for use in connection v	
Drafter:CM02 Paper Size: 12,9 Drawing:G:\201120\EL\Sheets\20-120E200.dwg Apr 19, 2021, 12:17pm Attached XREFS: XREF:G:\201120\EL\Xrefs\20-120TB.dwg XREF:G:\201120\RL\Xrefs\24x56 - TB - NO STAMP Oxnard College.DWG XREF:G:\201120\RL\Xrefs\4rts Classrooms CONST DOCS.dwg	FILE PATH & NAME: G:\20 Rasmussen & Associates expressly reserves its comm These drawings, including the designs incorporated her	



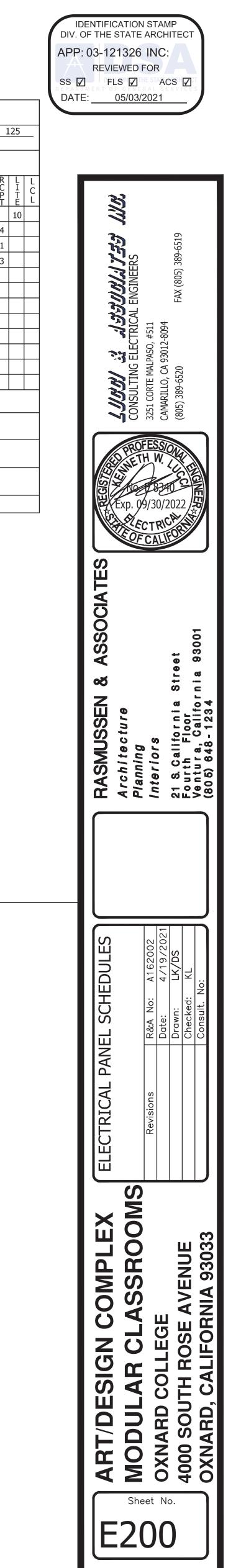
REA ADMIN FRONT DESK





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				DB				I.C. <u>1</u>									MAIN CIRC	UIT BREAKER		
				CATION INSIDE UNIT (SE	E E50	1)	BU	IS AM	PER	E RAT	ING		125				FLUSH MOU	JNTING		
L C L	M I S C	R C P T	L I T E	CIRCUIT DESCRIPTION	LOAD	D(VA) B	BR POLE	KR AMP	СКТ	PHASE A B	СКТ	BR AMP	KR POLE	LOAD A	D(VA) B		CIRCUIT DESCR	IPTION	M I S C	R C P T
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				HVAC UNIT		7360	2		3		4	20	1		720		OUTLETS	5	+	4
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				SPACE	•				21		22	40				FUT	URE SOLAR PV	ELECTRICAL		
				FIRE ALARM		100	1	20	23		24	\nearrow	2			FUT	URE SOLAR PV	ELECTRICAL		
				TOTALS	7360	7460								1620	1260	тот	ALS			
L	.C.L	VC)LT A	MPS: . PHASE	A .					PHASE I	3				·				-	
Т	OTA	AL V	OLT	AMPS: 17700 PHASE	A 89	980				PHASE I	3	8720								
		Т	OTAL	AMPS: 73.75 PHASE	A 74	ł.8				PHASE I	3	72.6								

TYPICAL PANEL IN EACH MODULE



DATE: 19 April 2021 TIME: 12:18 pm	\triangleleft	ed to a third party without inst obtaining written permission and consent of Kasmussen & Associates. In the event of the unauthorized reuse of these plans by a third party, the third party shall hold Kasmussen & Associates harmless. Any use, in whole or in part, for any other project without written authorization of Rasmussen & Associates shall be at user's sole risk.	HANDAET Acano-TP AE3 FIRE ALARM CONTECT PANEL WITH EVOS Admin Z-WAY VOICE COM FLU	E3 JA FIRE ALARM HANDSET CONTROL PAWEL WITH EVCS
PATHNAME: G:\20\120\EL\Sheets		are they to be assigned to a third party without first obtaining written permission and shown in title block. Any use, in whole or in part, for any other project without writte writte provide the providence of		
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DRAFTER: CM02	G:\20\120\EL\SHEETS\20-120E500.DWG	, copyright and other property rights in these plans. These plans are instruments of professional service prepared for use in connection		
Drafter:CM02 Paper Size: 35.9686584,24.0000059 Drawing:G:\20120\EL\Sheets\20-120E500.dwg Apr 19, 2021, 12:18pm Attached XREFS: XREF:G:\20120\EL\Xrefs\20-120TB.dwg XREF: G:\201120\R\Xrefs\20-120TB.dwg XREF: G:\201120\R\Xrefs\24x36 - TB - NO STAMP Oxnard College.DWG	FILE PATH & NAME: G:\20\120	Kasmussen & Associates expressly reserves its common law. These drawings, including the designs incorporated herein, arr		

SCOPE OF WORK

PROVIDE A STAND ALONE FIRE ALARM SYSTEM WITH EVACS TO ACCOMMODATE NEW MODULAR CLASSROOMS. NEW FIRE ALARM SYSTEM WILL INCLUDE MANUAL AND AUTOMATIC DETECTION AND VOICE

EVACUATION. NEW FIRE ALARM SYSTEM WILL BY MONITORED BY A UL LISTED CENTRAL STATION PER CFC 907.6.6 AND UTILIZE ALTERNATE MEANS OF COMMUNICATIONS PER NFPA 72 CHAPTER 26 Provide two way voice communication between a new E3 fire alarm station handset in Administration Building at main desk and new E3 Fire Alarm master panel in Building 1, plus provide at both new E3 Fire Alarm panels (Administration and new Modulars) the ability to provide paging over the new modular building speakers on interior and exterior of project buildings as a portion of this scope of work.

PROJECT DATA	
APPLICABLE CODES:	 A. 2019 CALIFORNIA BUILDING CODE (CBC) B. 2019 CALIFORNIA ELECTRICAL CODE (CEC) C. 2019 CALIFORNIA MECHANICAL CODE (CMC) D. 2019 CALIFORNIA PLUMBING CODE (CPC) E. 2019 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.; F. TITLE 19, CCD, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS G. NFPA 72-2016 EDITION H. CAL/OSHA CONSTRUCTION SAFETY ORDERS J. ADA, ADAAG, ARS, TITLE 24, CHAPTER 11
BUILDING CLASSIFICATION:	A. OCCUPANCY TYPE: E B. OCCUPANCY LOAD: – C. CONSTRUCTION TYPE: – D. FIRE SPRINKLERS: NO
DSA TRACKING #	
AGENCIES:	DSA

DSA REQUIRED NOTES

THWN.

- 1. APPLICABLE STANDARD 2016 NFPA 72
- 2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATION, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
- 3. UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
- 4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. 5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL
- BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF THE PROJECT.
- 6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.
- 7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH A PENETRATION FIRE STOP SYSTEM AS IDENTIFIED IN CBC CHAPTER 7, UL OR OTHER LAB TESTING CRITERIA. APPROVED TYPE OF MATERIALS SHALL BE IDENTIFIED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
- 8. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR BOTTOMS MOUNTED AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.
- 9. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSER THAN 6" TO A HORIZONTAL STRUCTURE.
- 10. AUDIBLE DEVICES TO BE AT LEAST 15 DBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL BUT NOT LESS THAN 75 DBA AT 10 FEET OR MORE THAN 110 DBA AT THE MINIMUM HEARING DISTANCE. SOUND LEVEL SHALL BE MAINTAINED FOR DURATION OF AT LEAST 60 SECTIONS 5 DBA MUST BE MAINTAINED.
- 11. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
- 12. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS. 13. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER
- THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED. 14. UNDERGROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRE TO BE
- APPROVAL FOR WET LOCATIONS. 15. ALL FIRE ALARM WIRING SHALL BE FLP OR FPLP (FIRE POWER LIMITED OR FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR
- 16. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE IN UNDERGROUND LOCATIONS. THERE MUST BE AT LEAST 6' OF LEAD WIRE FROM THE BOX TO THE DEVICE. ALL BOXES TO BE SIZED PER CEC.
- 17. SMOKE DETECTORS SHALL NOT BE ANY CLOSER THAN 1' FROM FIRE SPRINKLERS OR 3' FROM ANY SUPPLY DIFFUSER. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION ON NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.
- 18. ALL FIRE ALARM CIRCUITS SHALL BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
- 19. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
- 20. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXTENDERS.
- 21. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
- 22. CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".
- 23. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
- 24. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
- 25. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.

		EVACS LEGEND		
SYMBOL	DESCRIPTION	MODEL #	C.S.F.M. #	BACK BOX REQUIREMENTS
FACP	FIRE ALARM CONTROL PANEL W/ EVACS *	GAMEWELL-FCI E3	7165–1703: 0125	SURFACE MOUNT
CELL	HONEYWELL CELL/IP COMMUNICATOR	HONEYWELL HWF2V-COM	7300-1645:0511	SURFACE MOUNT
DOC	FIRE ALARM DOCUMENT BOX	SPACE AGE		SURFACE MOUNT
ΗP	MANUAL PULL STATION	GAMEWELL-FCI MS-7AF	7160-1703: 0170	SINGLE GANG BOX
SD	SMOKE DETECTOR W/ BASE	GAMEWELL-FCI ASD-LS3	7272-1703: 0504	4" SQ. BOX W/ 3" ROUND RING
Ð	HEAT DETECTOR W/ BASE	GAMEWELL-FCI ATD-L3H	7272-1703: 0502	4" SQ. BOX W/ 3" ROUND RING
-sv	SPEAKER/STROBE COMBO, WALL MOUNT	SYSTEM SENSOR SPSRL	7320-1653: 0505	4" SQ. DEEP BOX
DSH	OUTDOOR SPEAKER, RED	SYSTEM SENSOR SPRK	7320-1653: 0201	SURFACE MOUNT BOX

	WIRE CHART											
SYMBOL	CIRCUIT DESCRIPTION	CONDUCTOR COLOR	WIRE IN CONDUIT	NO CONDUIT NO PLENUM	NO CONDUIT IN PLENUM	UNDERGROUND / WET SYMBOL	WIRE IN CONDUIT UNDERGROUND/WET	CLASS				
SPUS	SBUS COMM CIRCUIT - POWER		2 CONDUCTOR 2/14 STRANDED TYPE THHN	2 CONDUCTOR 2/14 FPLR SOLID OR STRANDED TWISTED/ UNSHIELDED	2 CONDUCTOR 2/14 FPLP SOLID OR STRANDED TWISTED/ UNSHIELDED	SBUSU	2 CONDUCTOR 2/14 TYPE THWN	В				
SBUS	SBUS COMM CIRCUIT – DATA	RED / BLACK	2 CONDUCTOR 2/18 FPL SOLID TWISTED/ SHIELDED	2 CONDUCTOR 2/18 FPLR SOLID TWISTED/ SHIELDED	2 CONDUCTOR 2/18 FPLP SOLID TWISTED/ SHIELDED	36030	2 CONDUCTOR 2/16 FPL STRANDED TWISTED/ SHIELDED WEST PENN#AQ294	В				
Z	SIGNAL LINE CIRCUIT (SLC)	RED / BLACK	2 CONDUCTOR 2/16 FPL SOLID TWISTED/UNSHIELDED	2 CONDUCTOR 2/16 FPLR SOLID TWISTED/UNSHIELDED	2 CONDUCTOR 2/16 FPLP SOLID TWISTED/UNSHIELDED	ZU	2 CONDUCTOR 2/16 FPL STRANDED TWISTED/ SHIELDED WEST PENN#AQ225	В				
v	VISUAL APPLIANCE CIRCUIT		2 CONDUCTOR 2/12 STRANDED TYPE THHN	2 CONDUCTOR 2/12 FPLR SOLID TWISTED/UNSHIELDED	2 CONDUCTOR 2/12 FPLP SOLID TWISTED/UNSHIELDED	VU	2 CONDUCTOR 2/12 STRANDED TYPE THWN	В				
S		RED / BLACK	2 CONDUCTOR 2/16 FPL STRANDED TWISTED/ SHIELDED	2 CONDUCTOR 2/16 FPLR STRANDED TWISTED/ SHIELDED	2 CONDUCTOR 2/16 FPLP STRANDED TWISTED/ SHIELDED	SU	2 CONDUCTOR 2/16 FPL STRANDED TWISTED/ SHIELDED WEST PENN#AQ294	В				
Y	HANDSET/COM CIRCUIT	RED/BLACK/ BROWN/BLUE	2 PAIR 2/16 FPC TWISTED/UNSHIELDED	2 PAIR 2/16 FPC TWSTED/UNSHIELDED	2 PAIR 2/16 FPC TWISTED/UNSHIELDED	SU	2 PAIR 16/4 FPC TWISTED/UNSHIELDED WEST PENN#AQ245	В				

FIRE	ΔI	ARM

	FIRE ALARM OUTPUTS																								
	СО	CONTROL UNIT ANNUNCIATION NOTIFICATION											REQUIRED FIRE SAFETY CONTROL												
	COMMON ALARM SIGNAL INDICATOR	AUDIBLE ALARM SIGNAL	COMMON SUPERVISORY SIGNAL INDICATOR	COMMON SUPERVISORY SIGNAL	COMMON TROUBLE SIGNAL INDICATOR	COMMON TROUBLE SIGNAL	IGE OF STATUS MESSAGE ON LCD DISPLAY	SAGE ON LCD DISPLAY	E ALARM SIGNAL TO SUPERVISING STATION	SUPERVISORY SIGNAL TO SUPERVISING STATION	TROUBLE SIGNAL TO SUPERVISING STATION	CARBON MONOXIDE DETECTOR SUPERVISORY SIGNAL	VAC SPRINKLER BELL	INTELLIGENT VOICE EVACUATION		MANUAL OVER RIDE OF SPEAKERS "ALL CALL"		BE 100% OPERATIONAL ON BATTERY BACK UP							
FIRE ALARM INPUTS	ш				I 111		Y CHANGE	Y MESSAGE	AIT FIRE				TE 120VAC		USED	TE MAN	ED		USED	D	USED	USED	USED	USED	D
CONTROL MATRIX	ACTUATI	ACTUATE	ACTUATE	ACTUATE	ACTUATI	ACTUATE	DISPLAY	DISPLAY	TRANSMIT	TRANSMIT	TRANSMIT	TRANSMIT	ACTIVATE	ACTIVATE	NOT US	ACTIVATE	NOT USED	SYSTEM WILL	NOT US	NOT USED	NOT US	NOT US	NOT US	NOT US	NOT USED
MANUAL PULL STATION	•	•					٠	•	•					•											
AREA SMOKE / ATTIC HEAT DETECTOR								•						٠											
MICROPHONE KEY																									
FIRE ALARM SYSTEM AC POWER FAIL								•										٠							
FIRE ALARM SYSTEM LOW BATTERY					•	•					•														
FIRE ALARM AMPLIFIER AC POWER FAIL					•						•							•							
FIRE ALARM AMPLIFIER SYSTEM LOW BATTERY					•			•			•														
GROUND FAULT					•	•	•	•			•														
SIGNAL LINE "SHORT"					•	•	•	•			•														
NOTIFICATION "OPEN" CIRCUIT					•	•	•	•			•														
CELLULAR PANEL "FAIL TO COMMUNICATE"					•			•			•														
CELLULAR PANEL "TELCO LINE CUT"					•	٠	•	•			•														

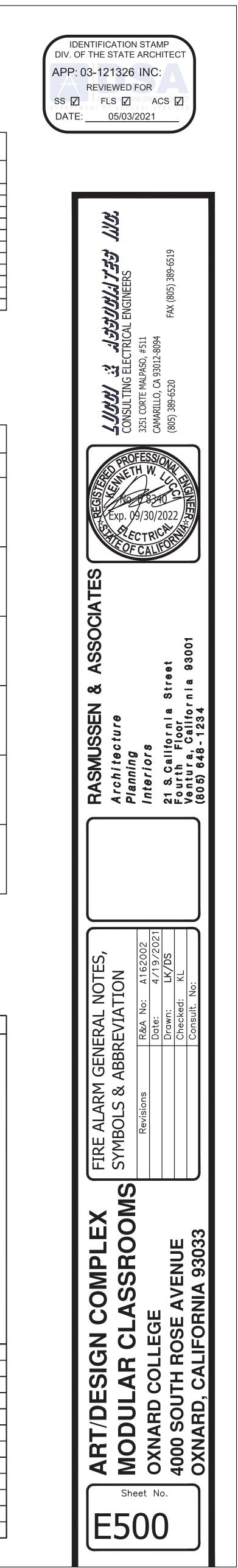
* INCLUDES: AOM TELF

 ASM-16 INI VGE UTP

 INI 7100 UTP VOICE PAGING MICROPHONE ASSEMBLY

 LCD NGA ANNUNCIATOR FIRE FIGHTERS HANDSET

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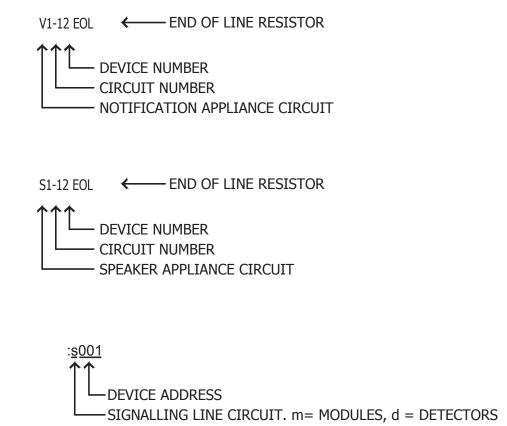
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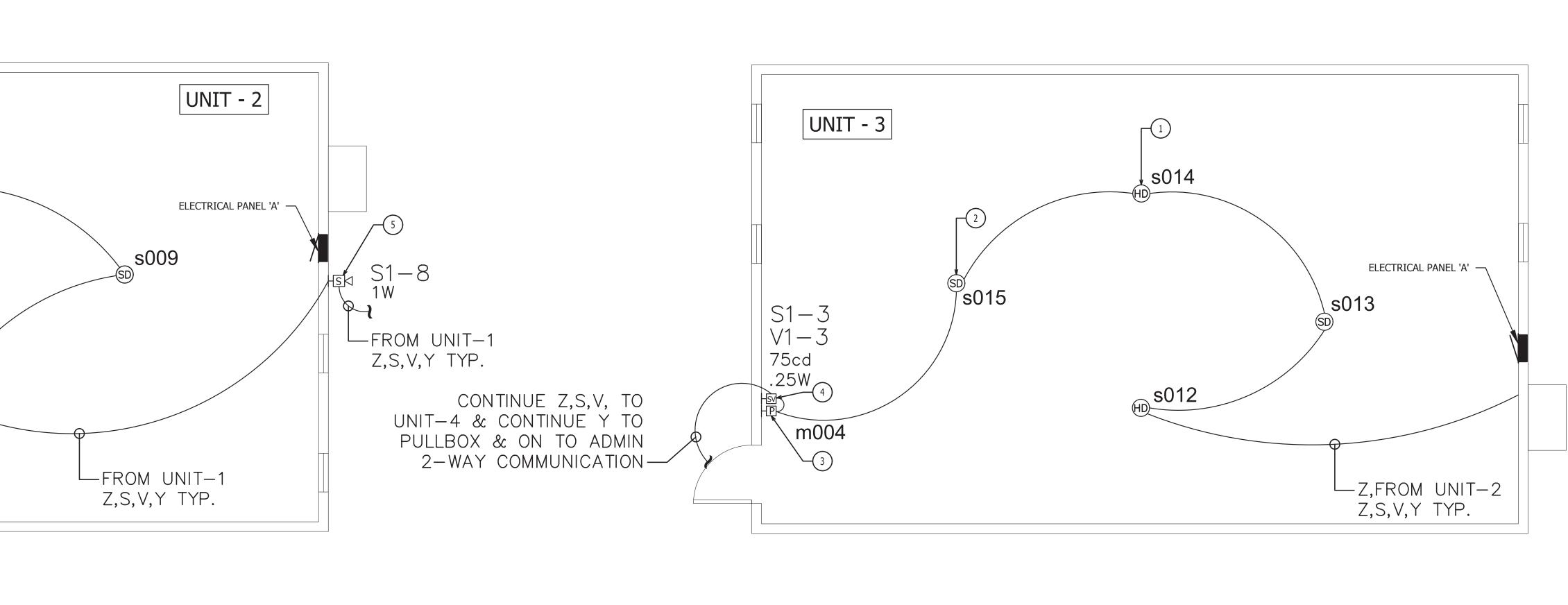
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SYMBOL LEGEND:

SYMBOLS:	
	AQUA SEAL CABLE IN CONDUIT BELOW GRADE
	FIRE ALARM CABLE IN CONDUIT ABOVE GRADI
FACP	EXISTING FIRE ALARM CONTROL PANEL W/ EV
AMP	50 WATT AMPLIFIER
RPS	REMOTE POWER SUPPLY
HP	ADDRESSABLE MANUAL PULL STATION
SD	ADDRESSABLE PHOTOELECTRIC SMOKE DETEC
HD	ADDRESSABLE HEAT DETECTOR
DSH	OUTDOOR SPEAKER ONLY
HSV	SPEAKER STROBE, WALL MOUNT

CIRCUIT DESCRIPTION:







KEYED NOTES:

1 ABOVE CEILING HEAT DETECTOR. TYPICAL

2 SMOKE DETECTOR. TYPICAL

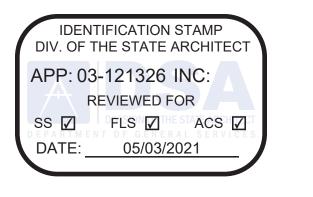
3 PULL STATION. TYPICAL

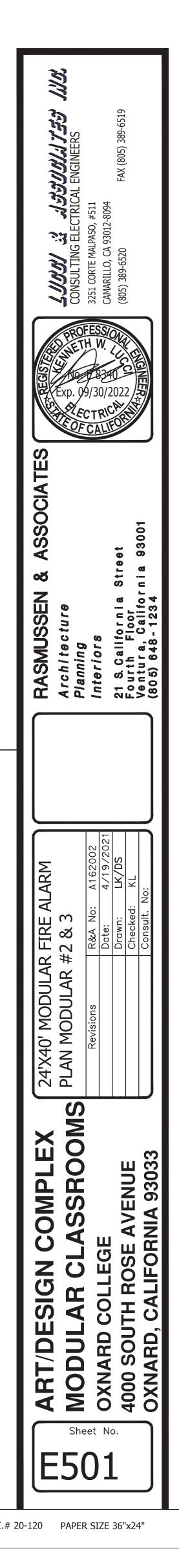
4 SPEAKER STROBE. TYPICAL

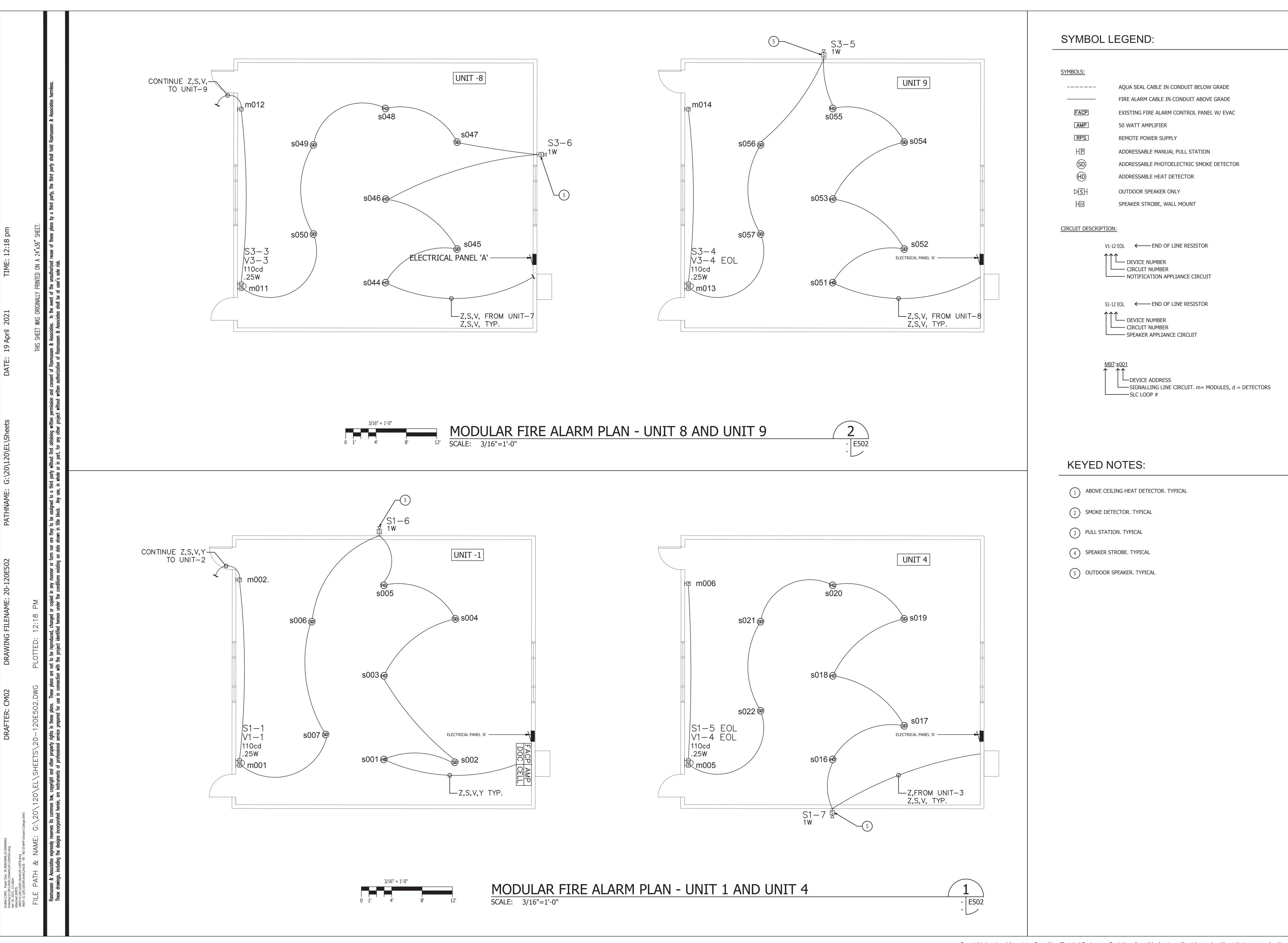
5 OUTDOOR SPEAKER. TYPICAL

ECTOR

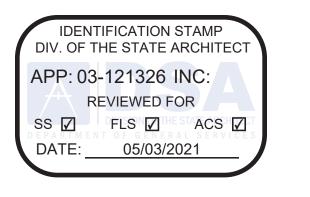


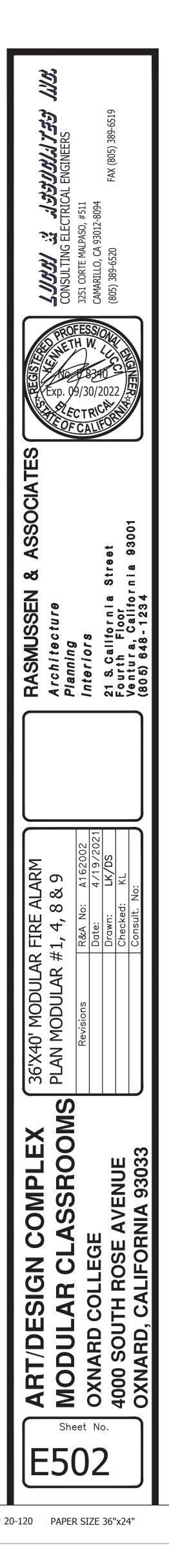


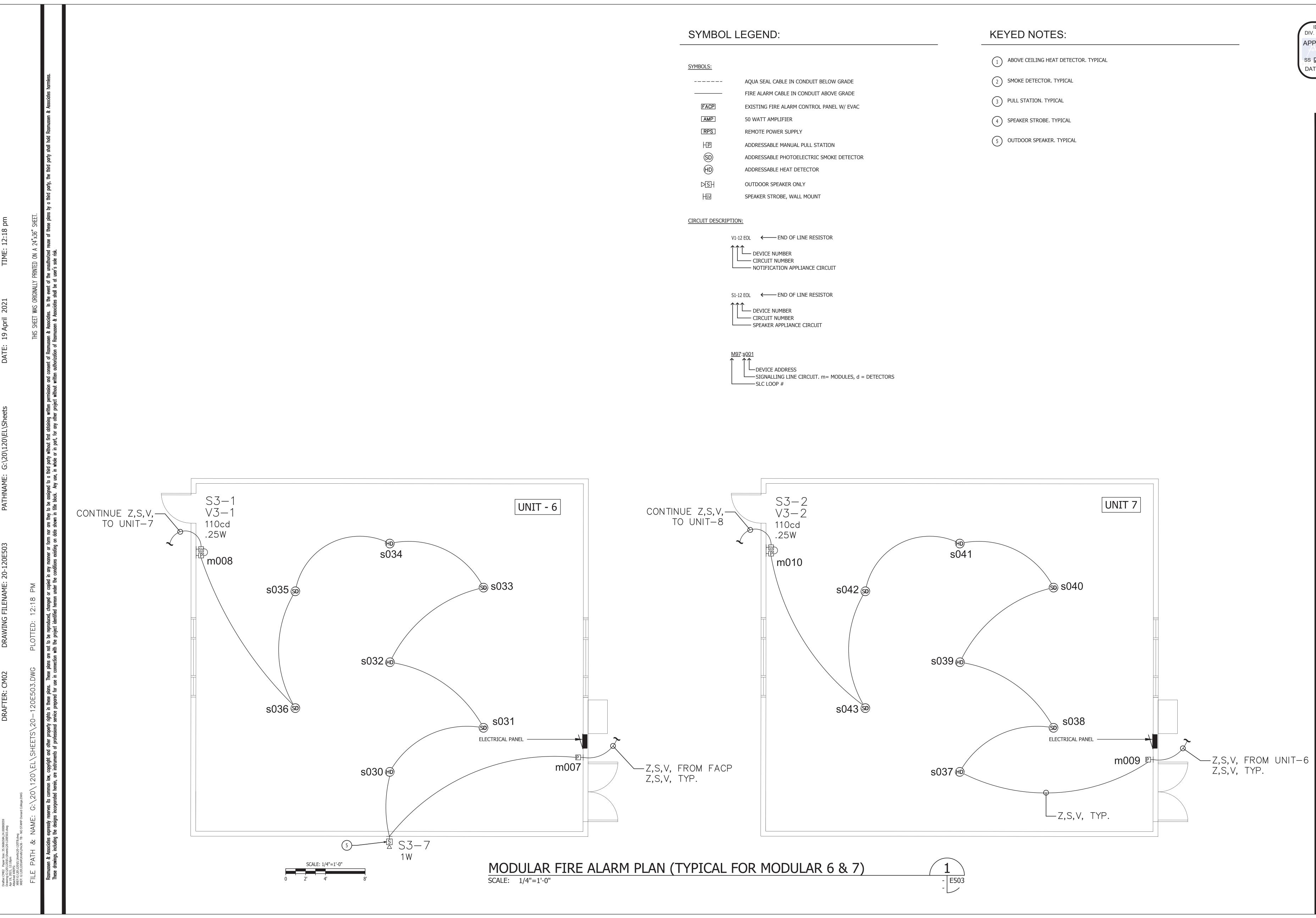




Drafter: CM01: G:\20\120\EL\Sheets\20-120E502.dwg: DATE: APR 16, 2021 TIME: 3:49 PM

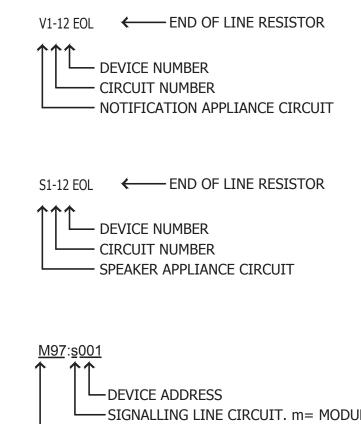




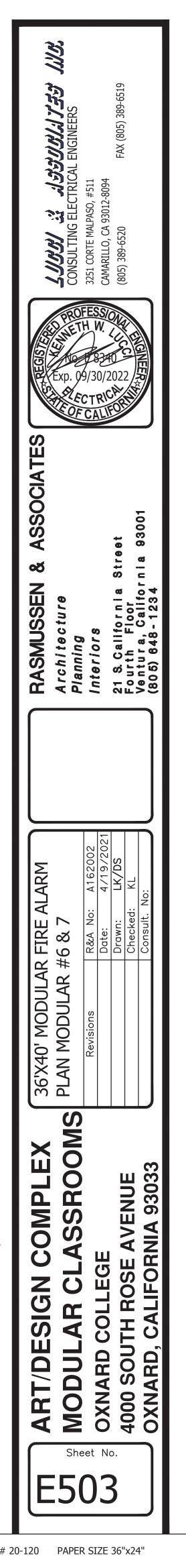


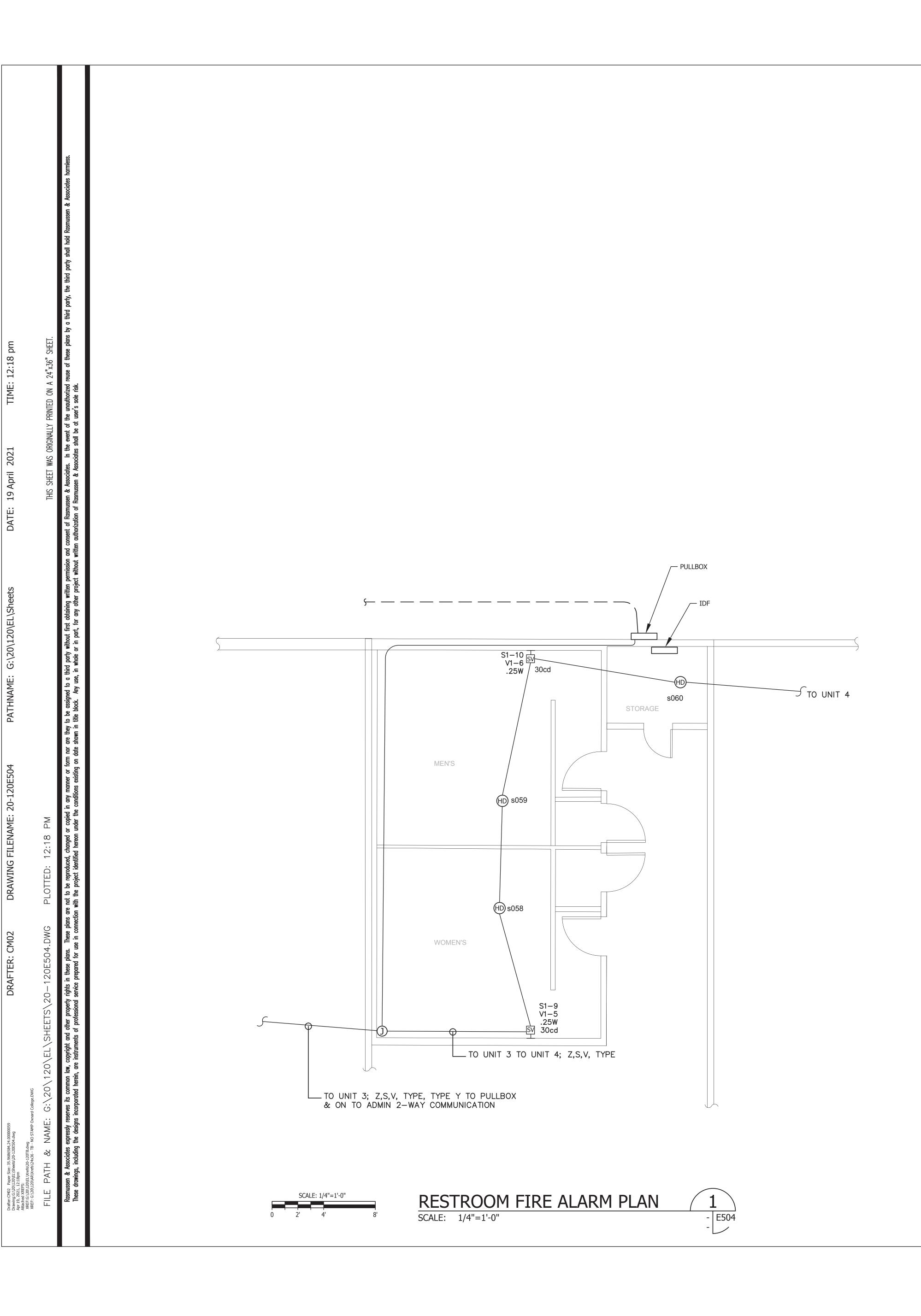
SYMBOLS:

	AQUA SEAL CABLE IN CONDUIT BELOW GRA
	FIRE ALARM CABLE IN CONDUIT ABOVE GRA
FACP	EXISTING FIRE ALARM CONTROL PANEL W/
AMP	50 WATT AMPLIFIER
RPS	REMOTE POWER SUPPLY
HP	ADDRESSABLE MANUAL PULL STATION
SD	ADDRESSABLE PHOTOELECTRIC SMOKE DET
HD	ADDRESSABLE HEAT DETECTOR
DSH	OUTDOOR SPEAKER ONLY
HSV	SPEAKER STROBE, WALL MOUNT









SYMBOL LEGEND:

SYMBOLS:

FACP AMP

RPS

ΗP

SD HD

DSH -sv

CIRCUIT DESCRIPTION:

AQUA SEAL CABLE IN CONDUIT BELOW GRADE FIRE ALARM CABLE IN CONDUIT ABOVE GRADE EXISTING FIRE ALARM CONTROL PANEL W/ EVAC 50 WATT AMPLIFIER REMOTE POWER SUPPLY

- ADDRESSABLE MANUAL PULL STATION
- ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR
- ADDRESSABLE HEAT DETECTOR
- OUTDOOR SPEAKER ONLY
- SPEAKER STROBE, WALL MOUNT

NOTIFICATION APPLIANCE CIRCUIT

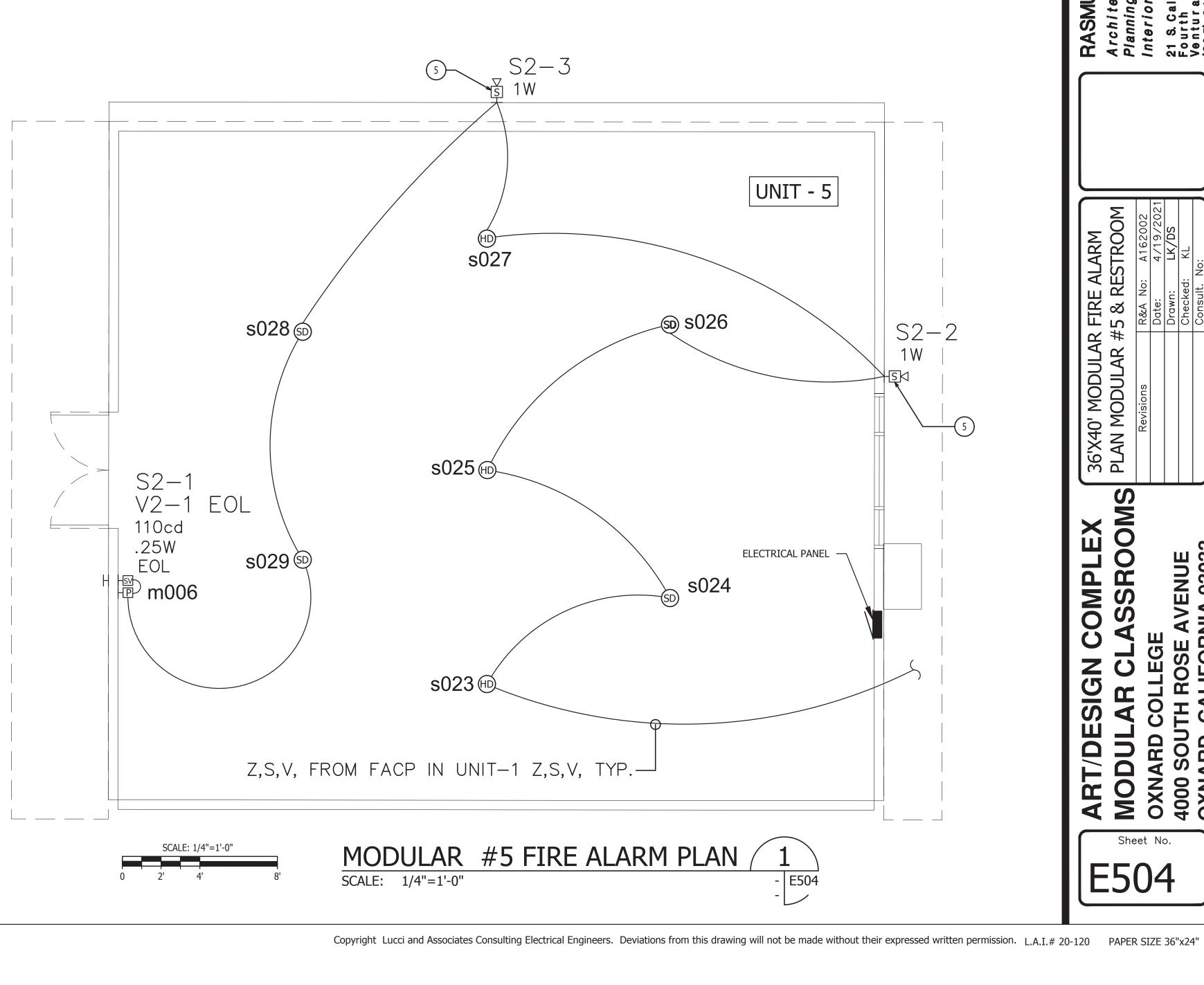
1	ኮ ተተ
	CIRCUIT NUMBER

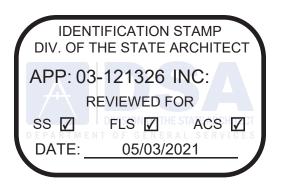
<u>M97:s001</u> ↑ ↑↑

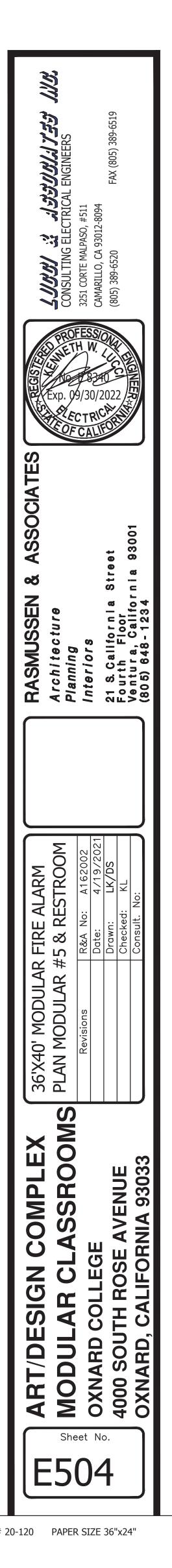
DEVICE ADDRESS SIGNALLING LINE CIRCUIT. m= MODULES, d = DETECTORS

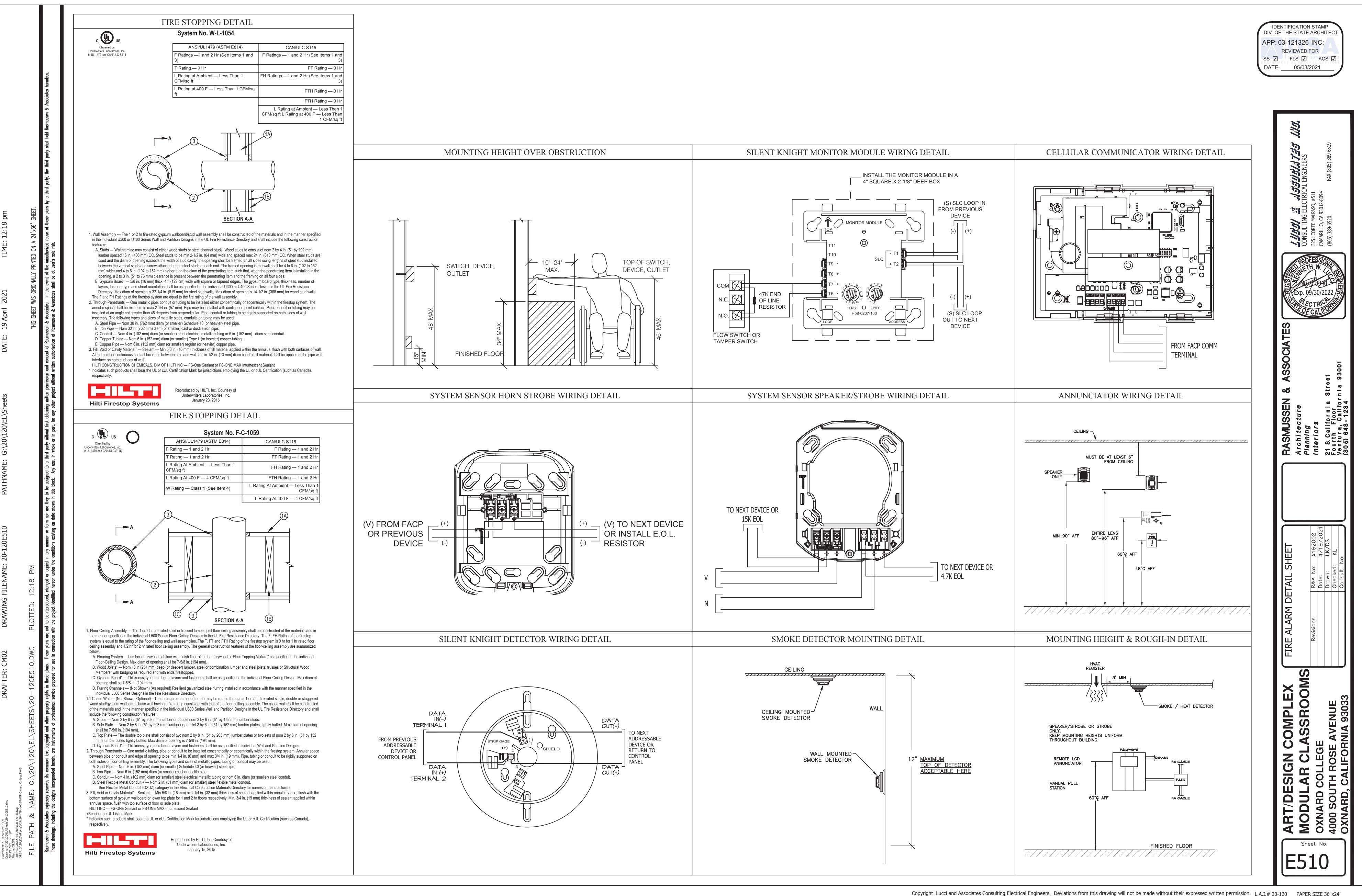
KEYED NOTES:

- (1) Above ceiling heat detector. Typical
- 2 SMOKE DETECTOR. TYPICAL
- 3 PULL STATION. TYPICAL
- (4) SPEAKER STROBE. TYPICAL
- 5 OUTDOOR SPEAKER. TYPICAL





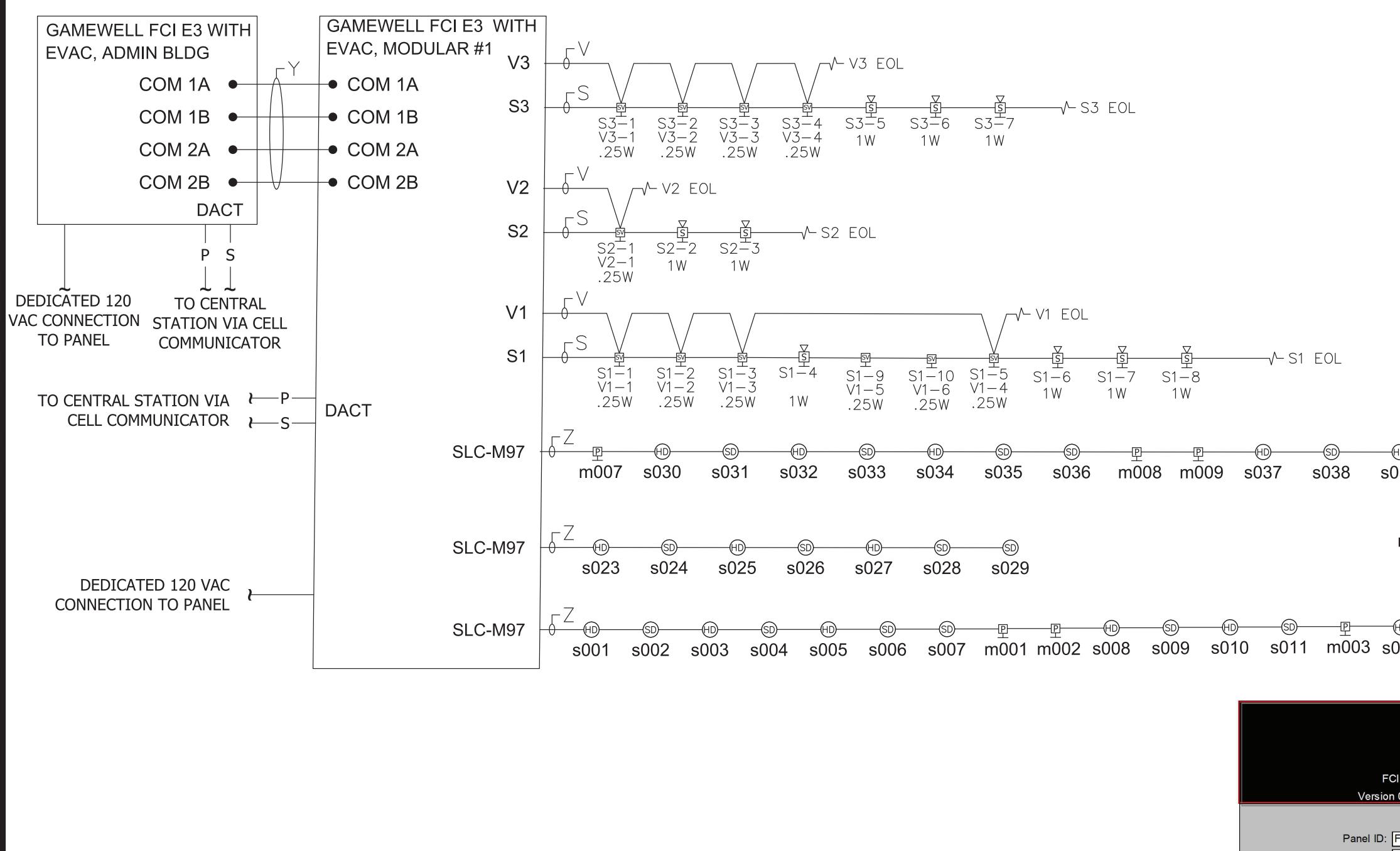




Drafte Drawi Apr 19 Attach XREF XREF







		15 - J (TRODE	20-1-0	TRODE			110 - 1 67		15cd H		30cd H		75cd H		110cd				(1)				CIR	VOLTO			%
PANEL ID	СКТ #		STROBE 043	30cd S 0.0	TROBE		TROBE	110cd ST 0.14		STR0 0.0		STR 0.0		STRO 0.13		STR 0.1		0.0	00	TOTAL	LENGTH	x 21.6		MILS =	VOLTS DROPPEI	÷ 240	(V) x 10	
		QTY.		QTY.		QTY.				QTY.		QTY.					AMP	QTY.	AMP	CURRENT			1	L4awg				DR
RPS	S1		0.000	2	0.126		0.000		0.000		0.000		0.000	2	0.274	2	0.370		0.000	0.770	350	× 21.6	i x 4	4110 =	= 1.416	÷ 2	24 × 10	5 .
RPS	S2		0.000		0.000		0.000		0.000		0.000		0.000		0.000	1	0.185		0.000	0.185	40	× 21.6	x 4	4110 =	0.136	÷ 2	24 × 10	o 0 .
RPS	S3		0.000		0.000		0.000		0.000		0.000		0.000		0.000	4	0.740		0.000	0.740	× 500	x 21.6	x 4	4110 =	1.945	÷ 2	4 x 10	0 8 .
	21.6 = F	ONE W ORMU CROSS <u>ZE</u>	AY DISTA LA CONS	ANCE IN STANT IAL ARE ESISTA	EA OF CO NCE																							
	AWG 12 AWG 14 AWG 16 AWG 18	5	2.52 PE 4.02 PE 6.39 PE	R 1000'		4110 2580 1620)																					
	AWG 14 AWG 16 AWG 18	3	4.02 PE 6.39 PE	R 1000' R 1000'		2580 1620 VO				PC		ULA		NS -		EAK		APP			IENGTH			CIR	VOLTS			
	AWG 14 AWG 16 AWG 18	5 3 1/4 \ 0.0	4.02 PE 6.39 PE	R 1000' R 1000' 	VATT 34	2580 1620 VO 1 W 0.0	LTA /ATT 268	2 WA 0.13	ATT 32	- 0.0	00	0.0	000	- 0.00	00	0.0	00	0.0	00	(I) TOTAL	IENGTH		÷١	MILS =	VOLTS) ÷ 24((V) x 10	
PANEL ID	AWG 14 AWG 16 AWG 18	1/4 \	4.02 PE 6.39 PE WATT 017 AMP	R 1000' R 1000' 	VATT 34 AMP	2580 1620 VO 1 W 0.0 QTY.	о LTA ИАТТ Обав АМР	2 WA 0.13 QTY.	ATT 32 AMP	0.0 QTY.	00 AMP	_	000 AMP	0.00 QTY.	00 AMP	0.0 QTY.	000 AMP	-	00 AMP	(I) TOTAL > CURRENT	LENGTH FT.	x 21.6	÷ 14	MILS = .4awg	DROPPED)		0 VOLT
PANEL ID AMP	AWG 14 AWG 16 AWG 18 CKT #	5 3 1/4 \ 0.0	4.02 PE 6.39 PE	R 1000' R 1000' 	VATT 34 AMP 0.000	2580 1620 VO 1 W 0.0 QTY. 1	ATT 068 AMP 0.068	2 WA 0.13 QTY.	ATT 32 AMP 0.000	0.0 QTY.	00 AMP 0.000	0.0	000 AMP 0.000	0.00 QTY.	00 AMP 0.000	0.0 QTY.	000 AMP 0.000	0.0	00 AMP 0.000	(I) TOTAL CURRENT 0.153	LENGTH FT. 350	x 21.6	÷ 1 1/	MILS = 4awg 2580 =	0.448	÷ 24	4 × 10	0 VOLT DR(0 1.
PANEL ID	AWG 14 AWG 16 AWG 18	5 3 1/4 \ 0.0	4.02 PE 6.39 PE WATT 017 AMP	R 1000' R 1000' 	VATT 34 AMP	2580 1620 VO 1 W 0.0 QTY.	о LTA ИАТТ Обав АМР	2 WA 0.13 QTY.	ATT 32 AMP	0.0 QTY.	00 AMP	0.0	000 AMP	0.00 QTY.	00 AMP	0.0 QTY.	000 AMP	0.0	00 AMP	(I) TOTAL > CURRENT	LENGTH FT.	x 21.6	÷ 1 14 × 22 × 2	MILS = .4awg	DROPPED)	4 × 10 4 × 10	VOLT DR 0 1. 0 0.

1620

6.39 PER 1000'

AWG 18

NAC #4	
	Mini
	FC
	Version
	Panel ID:
	Location:
Part.#	
FOI 52	
FCI-E3	
	Mini

Location

Part.#

FCI-E3 MS-7AF

ASD-LS3 ATD-L3H

NAC #1 NAC #2

NAC #3

AS NOTED ON E140 ALL NEW MODULAR BUILDINGS ARE MORE THAN 20 FEET FROM ANY ADJACENT STRUCTURES

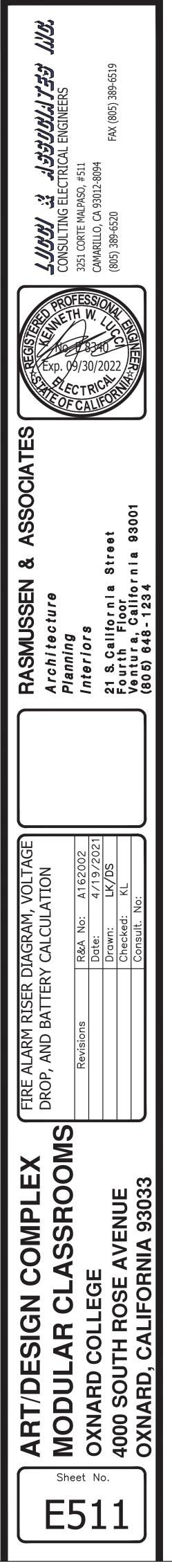
PER 907 2.3.1 "SYSTEM CONNECTION"

EXCEPTION: INTERCONNECTION OF FIRE ALARM CONTROL UNITS IS NOT REQUIRED WHEN ALL THE FOLLOWING ARE PROVIDED: BUILDINGS THAT ARE SEPARATE A MINIMUM OF 20 FEET (6096MM) AND IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE; AND THERE IS A METHOD OF TWO WAY COMMUNICATION BETWEEN EACH CLASSROOM AND THE SCHOOL ADMINISTRATIVE OFFICE APPROVED BY THE FIRE ENFORCING AGENCY; AND A METHOD OF MANUAL ACTIVATION OF EACH FIRE ALARM SYSTEM IS PROVIDED.

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		— Globa	l Project Va	lues:					
		Proje	ct Name:			Stan	dby Hours:		÷
		P	roject ID:			А	larm Mins:	15	÷
		Prep	pared By:			Derat	ing Factor:	1.2	
CI E3			Date:			Voltage Dr	op Warning		
n 04.16.18						Th	reshold % :	10	
FACP - MODULARS		Model	IEP-300/	ECS Fire Alarm C	ontrol Panol	Max NA	C Current:	30 Amps	
			24 VDC				el Current:		
		j vons.	24 000				er Gunent.	0.0 Amps	
Description	Qty	Curren	t Draw	Wire AWG	Ohms Per	Length(ft)	Actual	Volts @	%Drop
		Standby		& Type	1000 Ft.	One-Way	Ohms	EOL	700100
Fire Alarm Control Unit	1	0.190	0.250						
Smoke detector Fire-CO detector	16 32	0.0048	0.0048			#REE!			
Heat detector	28	0.0098	0.2304						
Notification Appl Circuit	cfg.	0.000	0.644	#12 Solid	▼ 1.59		0.00	20.40	0.00%
Notification Appl Circuit	cfg.	0.000	0.185	#12 Solid	 1.50 ▼ 1.59 		0.00	20.40	0.00%
Notification Appl Circuit	cfg.	0.000	0.740	#12 Solid	 1.50 ▼ 1.59 		0.00	20.40	0.00%
Notification Appl Circuit	cfg.	0.000	0.000		 1.50 ▼ 1.59 		0.00	20.40	0.00%
Total Standby Current (A			2.063	Total Alarm Curre			0.00	20.10	0.0070
Standby Time In				Alarm Time In Mi		(15 Mins)			
Total Standby AH Re				Total Alarm AH R		(10 11110)			
Total Combined AH Re			62						
Multiply By The Derating R			20						1
imum Battery AmpHours Re				Config	ure Circuits		Print	t Page	
	auired	6.	75	Cornig	ule circuits				
•			75 Ah	Coning					
Battery size to be su									
•		18							
•		18 Globa	Ah	lues:		Stan	dby Hours:	24	▲ ▼
•		18 Globa Proje	Ah I Project Va	lues:		_		24 15	÷
•		18 Globa Projec P	Ah I Project Va ct Name:	lues:		A	dby Hours:	15	
•		18 Globa Projec P	Ah I Project Va ct Name: roject ID:	lues:		A Derat Voltage Dr	dby Hours: larm Mins: ing Factor: op Warning	15 1.2	
Battery size to be su		18 Globa Projec P	Ah I Project Va ct Name: roject ID: pared By:	lues:		A Derat Voltage Dr	dby Hours: larm Mins: ing Factor:	15 1.2	
Battery size to be su		18 Globa Projec P	Ah I Project Va ct Name: roject ID: pared By:	lues:		A Derat Voltage Dr	dby Hours: larm Mins: ing Factor: op Warning	15 1.2	
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Battery size to be su CI E3 n 04.16.18		18 Globa Projec P Prep	Ah I Project Va ct Name: roject ID: bared By: Date:	lues:		A Derat Voltage Dr Th Max NA	dby Hours: larm Mins: ing Factor: op Warning reshold % :	15 1.2 10 3.0 Amps	
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