

ADDENDUM NO. 06

DATE: 08-08-2025

PROJECT:

Mendota Elementary School -Inc. No.1: – Sitework for Modular Classroom Buildings
605 Bass Ave, Mendota, CA 93640

Revised Bid Date: August 14th, 2025 at 2:00 p.m.

OWNER:

Mendota Unified School District
115 McCabe Ave
Mendota, CA 93640

ARCHITECT:

DARDEN ARCHITECTS, INC.
Attention:
6790 N. West Avenue
Fresno, California 93711
T. (559) 448-8051
F. (559) 446-1765

DARDEN PROJECT NO. 2277
DSA File Nos. 10-89
DSA APPL. NO. 02-122955

It will be the responsibility of the General Contractor to submit the information contained in this addendum to all its subcontractors and suppliers. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

The following additions, deletions, and revisions to the SHEETS and Project Manual are hereby made and do become a part of these Contract Documents.

PROJECT: Mendota Elementary School -Inc. No.1: – Sitework for Modular Classroom Buildings

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PROJECT MANUAL:

BIDDING AND CONTRACT REQUIREMENTS:

CHANGES TO PRIOR ADDENDAAD6-CPA01
CHANGES TO BIDDING REQUIREMENTSAD6-CBR01

ATTACHMENTS:

DOCUMENTS OR SPECIFICATIONS:

INCREMENT 02 ELECTRICAL DRAWINGS.....(Pages 1 thru 11)

PROJECT MANUAL:

BIDDING AND CONTRACT REQUIREMENTS:

CHANGES TO PRIOR ADDENDA:

AD6-CPA01 Refer to Addendum No.4, ATTACHED INCREMENT 02 DRAWINGS:

1. This Addendum No. 06 revises and clarifies the scope of work for the site contractor as follows:
 - i. The site contractor shall include the following Increment 02 drawings in their scope of work: SD/E101, SD/E102, X/E101, X/E102, X/E201, X/E202, X/E203, X/E301, X/E302, A/E101, and A/E201.

CHANGES TO BIDDING REQUIREMENTS:

AD6-CBR01 Refer to Specification Section 211301.01, INSTRUCTIONS TO BIDDERS, BID PROTESTS:

1. 2. The protest shall be filed and received no later than 4:00 p.m. on the **fifth (5th)** business day after the deadline for submittal of the bids;

END OF ADDENDUM NO. 06



Sheet: _____ of: _____

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FIRE ALARM SYSTEM: ADDRESSABLE, CLASS B, AUTOMATIC.

2. ALL WORK SHALL CONFORM TO THE 2022 EDITION OF NFPA 72, AND THE 2022 EDITION OF CBC, CEC, AND CFC.

3. INSTALLATION OF THE FIRE ALARM SYSTEM (FAS) SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTS AND SPECIFICATIONS, INCLUDING STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.

4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR. (THE LOCAL FIRE AUTHORITY MAY WITNESS THE TEST).

5. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR THE INSTALLATION.

6. 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.

7. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/OR TESTING.

8. 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.

9. MICROPHONE ASSOCIATED WITH EMERGENCY VOICE ALARM COMMUNICATION SYSTEMS (EVAC) SHALL BE ACCESSIBLE FOR USE. INSTALLED IN COMPLIANCE WITH CBC SECTIONS 11B-305 AND 11B-308.

10. WALL MOUNTED VISUAL NOTIFICATION DEVICES SHALL HAVE THEIR ENTIRE LENSES WITHIN AT 80" MINIMUM AND 96" MAXIMUM FROM FINISHED FLOOR.

11. WALL MOUNTED AUDIBLE NOTIFICATION DEVICES SHALL HAVE THEIR TOPS MOUNTED AT 90" MINIMUM AND 100" MAXIMUM FROM FINISHED FLOOR AND NO CLOSERS THAN 6" TO A HORIZONTAL STRUCTURE.

12. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBELS (dBA) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL, LEAVING A DURATION OF AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY SPACE WITHIN A BUILDING THAT MAY BE OCCUPIED AND BE INTELIGIBLE.

13. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN, PRIOR TO "EVAC" ANNOUNCEMENT. THE CARBON MONOXIDE SIGNAL SHALL SOUND A FOUR-PULSE TEMPORAL PATTERN PER NFPA 72, 18.4.3.2.

14. THE CONTRACTOR SHALL ADJUST/INSTALL ALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.

15. VISUAL DEVICES SHALL NOT EXCEED 2 FLASHES PER SECOND AND SHALL NOT BE SLOWER THAN 1 FLASH PER SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.

16. UNDERGROUND AND EXTERIOR CONDUITS SHALL HAVE WATERTIGHT FITTINGS AND WIRE APPROVED FOR WET LOCATIONS.

17. 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 THWN.

18. PER CEC STANDARDS, ALL WIRING SHALL BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPlice WIRE. ANY CONNECTION SHALL BE BY LUG CONNECTION AT A DEVICE OR AT A FATIC TERMINAL BLOCK ONLY. ALL BOXES TO BE SIZED PER CEC.

19. SMOKE DETECTORS SHALL NOT BE CLOSER THAN 12" FROM FIRE SPRINKLERS NOR 36" FROM SUPPLY AIR DIFFUSERS, IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION, NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL THAT AREA IS READY TO BE TURNED OVER TO THE OWNER.

20. 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 MANNER AS INDICATED ON DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS. OWNER STANDARDS MAY BE MORE STRINGENT.

21. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS' SPECIFICATIONS. ANY SINGLE DEVICE SHALL NOT EXCEED A WEIGHT OF 20 LBS WITHOUT SPECIAL MOUNTING DETAILS.

22. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM THE COMMON USE AREA PANEL AND SHALL NOT BE ON OTHER OUTLETS. THE BREAKER SHALL HAVE A LOCKING DEVICE WITH RED MARKING PER NFPA 72, SECTION 10.8.5.4 AND 10.8.5.2.3 TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT". CIRCUIT ID TO BE LABELED AT THE FIRE PANEL/EXTENDERS.

23. THE INSTALLING CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION IN COMPLIANCE WITH NFPA 72, SECTION 7.5.6.

24. CONTROL PANELS AND REMOTE ANNUNCIATORS SHALL BE INSTALLED WITH THEIR BOTTOMS MOUNTED AT 48".

25. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC 901.6.2.

26. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTIONS WITH FINAL TEST. FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72. THE SUPERVISING STATIONS SHALL BE LISTED AS EITHER UHF (CENTRAL STATION) OR UUS (REMOTE AND PROPRIETARY) BY UNDERWRITERS LABORATORY (UL) OR SHALL COMPLY WITH THE REQUIREMENTS OF UL STANDARD FM 3011. A COPY OF ALL DEVICES REPORTED TO THE CENTRAL STATION SHALL BE PROVIDED TO THE OWNER'S ELECTRONIC DEPARTMENT.

27. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE ALARM SYSTEM MONITORING CONTRACTOR OR PROVISIONS.
28. ALL WIRING IS SHOWN DIAGRAMMATICALLY. SUBJECT TO ASO APPROVAL, CONTRACTOR MAY VARY SEQUENCE OF CIRCUITRY; HOWEVER, ALL CIRCUITS SHALL BE CONTINUOUS AND SUPERSERVED.
29. ALL CONNECTIONS SHALL BE PROPERLY LABELED BY CONDUCTOR AND SHALL HAVE STA-KON LUG CONNECTORS. PANDUIT TAG (THE WRAP) SEPARATELY.
30. FIRE ALARM TERMINAL CABINETS SHALL HAVE SUFFICIENT SPACE, TERMINAL BOARDS AND SCREW TERMINAL CONNECTORS TO ALLOW CONNECTION OF ALL CONDUCTORS SHOWN. PROVIDE BARRIER TO SEPARATE FIRE ALARM SYSTEM WHEN TERMINAL CABINET IS SHARED WITH NON-FIRE ALARM SYSTEMS. CONTRACTOR SHALL BE REQUIRED TO SUBMIT WITH HIS OTHER SHOP DRAWINGS DETAILED DRAWINGS OF HIS PROPOSED CONNECTIONS AT EACH FIRE ALARM TERMINAL CABINET PRIOR TO COMMENCING ANY WORK.
31. ALL NAC CIRCUIT CONDUCTORS SHALL BE #12 AWG, STRANDED (19 STRANDS OR LESS) COPPER, UNLESS OTHERWISE NOTED.
32. SET END-OF-LINE RESISTORS IN DISTRIBUTION TERMINAL CABINETS.
33. BATTERIES SHALL BE STAMPED WITH DATE OF MANUFACTURE.
34. INSTALLATION OF FAS EQUIPMENT SHALL BE BY AN AUTHORIZED ENGINEERED SYSTEM DISTRIBUTOR FOR THE EQUIPMENT SPECIFIED BY THE MANUFACTURER FOR SALES, SERVICE, INSTALLATION AND MAINTENANCE. PROVIDE CERTIFICATIONS WITH EQUIPMENT SUBMITTALS. SUBMITTALS BY FIRMS NOT FULFILLING THIS REQUIREMENT WILL BE AUTOMATICALLY REJECTED.
35. THE FAS INSTALLER SHALL BE NICET LEVEL 2 CERTIFIED.
36. THE FAS INSTALLER SHALL PROVIDE ALL FACTORY WARRANTIES TO THE OWNER AT THE CLOSE UP OF THE PROJECT.
37. THE FAS INSTALLER SHALL PROVIDE WRITTEN CERTIFICATION USING NFPA 72 INSPECTION AND TESTING FORMS AND SHALL CERTIFY THAT THE INSTALLATION, TESTING, AND OPERATION CONFORM IN ALL RESPECTS TO THE REQUIREMENTS AS SET FORTH IN TITLE 19 OF THE CALIFORNIA CODE OF REGULATIONS AND PART 3, ARTICLE 760 OF TITLE 24 OF THE C.C.R. AND C.B.C. SECTION 907. THE CONTRACTOR SHALL SUBMIT THE COMPLETED FAS CERTIFICATION AND DESCRIPTION FORM TO DIVISION OF STATE ARCHITECT.
38. INCLUDE ALL DEMOLITION OF EXISTING FIRE ALARM SYSTEM WHETHER SPECIFICALLY SHOWN OR NOT. REMOVE ALL CABLING & UNUSED EXPOSED RACEWAY & OUTLETS. BLANK OUT ALL UNUSED WALL & HARD CEILING OUTLETS. REMOVE ALL UNUSED OUTLETS IN TEE-BAR CEILING & REPLACE ACOUSTIC TILES. RETURN ALL DEVICES, APPLIANCES, & CONTROL PANELS TO OWNER IF REQUESTED BY OWNER DURING CONSTRUCTION.
39. WHEN FIRE ALARM WORK WILL DISABE PORTIONS OF THE EXISTING FAS, PROVIDE ALL REQUIRED OVERTIME AND FIRE WATCH IN SCOPE OF WORK.
40. WHERE FIRE ALARM DEVICES ARE BEING INSTALLED IN OTHERWISE INACCESSIBLE AREAS, PROVIDE AN ALLOWANCE FOR THE INSTALLATION OF ACCESS PANELS AND ALL WORK ASSOCIATED WITH THE INSTALLATION. THE CONTRACTOR SHALL CUT ALL THE OPENINGS, THE SIZE OF THE ACCESS PANEL BE DETERMINED BY THE MAN ACCESS REQUIREMENTS. PROVIDE PAINT GRADE ACCESS DOORS AND PAINT TO MATCH THE COLOR & SHEEN OF THE EXISTING CEILING.
41. FIRE ALARM SYSTEM INSPECTION, TESTING, AND MAINTENANCE SHALL COMPLY WITH NFPA 72, CHAPTER 14.
42. PROVIDE FIRE ALARM RECORD DOCUMENTS CABINET NFPA 72, 7.2.2
- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION.
 - THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "FIRE ALARM SYSTEM RECORD DOCUMENTS".
 - ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
 - THE CABINET SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
 - WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.
- PROVIDE SYSTEM DOCUMENTS AS APPLICABLE:
- RECORD DRAWINGS/AS BUILTS
 - EQUIPMENT CUT SHEETS & CSA SFM LISTINGS
 - ALTERNATIVE MEANS AND METHODS
 - PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
 - SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
 - EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8)
 - EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
 - RISK ANALYSIS DOCUMENTATION (NFPA 72, 7.3.9)
 - SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2)

1. FIRE ALARM CABLING SHALL BE INSTALLED IN A RACEWAY SYSTEM, EXCEPT AS NOTED BELOW.
2. IT SHALL BE ACCEPTABLE TO INSTALL FIRE ALARM CABLING FOR SLC, NAC, E/VAC, AND FA NETWORK OPEN AIR IN ATTIC SPACES ABOVE T-BAR CEILINGS. FIRE ALARM CABLING SHALL BE INSTALLED ON DEDICATED J-HOOKS, SEPARATE FROM OTHER SYSTEMS.
3. WHEREVER A HARD LID CEILING SYSTEM IS PRESENT, THE FIRE ALARM CABLING SHALL BE INSTALLED IN CONDUIT IN THE ATTIC SPACE ABOVE THE CEILING.

SYMBOL	DESCRIPTION	EQUIPMENT	CSFM LISTING
	(N) FIRE ALARM CONTROL PANEL MASTER W/ EMERGENCY VOICE/ALARM COMMUNICATION	EDWARDS/UTC #E#ST4 W/ 4-CPU, 4-NET-SM, 3-MODCOM, (2)3-SDDC2, 4-MIC, 4-AUTDELS, 4-LCD, 4-PPS/M	7170-1657-0508, 7300-1657-0519
	NETWORK FIRE ALARM CONTROL PANEL W/ EMERGENCY VOICE/ALARM COMMUNICATION	EDWARDS/UTC #E#ST4 W/ 4-CPU, 4-NET-SM, (2)3-SDDC2 (3)3-ZA20B, 4-LCD, 4-PPS/M	7170-1657-0508, 7300-1657-0519
	LOCAL OPERATING CONSOLE W/ ANNUNCIATOR & PAGING MICROPHONE	EDWARDS/UTC #4-6ANN W/ 4-6ANNMT, 4-ANNCPU, 4-NET-SM, 4-LCDANN, 4-24L12S, 4-MIC, 4-ANNAUTDEL	7170-1657-0508
	NAC EXPANDER PANEL W/ INPUT MODULE SYNCHRONIZATION OUTPUT MODULE	EDWARDS/UTC #BPS10A W/ EDWARDS/UTC #SIGA-CT1 EDWARDS/UTC #SIGA-CC1S	7300-1657-0229 7300-1657-0121 7300-1657-0121
	(E) MANUAL PULL STATION	EDWARDS/UTC #SIGA-278	7150-1657-0129
	SMOKE DETECTOR, PHOTOELECTRONIC DETECTOR BASE	EDWARDS/UTC #SIGA-OSD EDWARDS/UTC #SIGA-SB	7272-1657-0511 7300-1657-0120
	CEILING HEAT DETECTOR, 135°F DETECTOR BASE	EDWARDS/UTC #SIGA-HFD EDWARDS/UTC #SIGA-SB	7270-1657-0333 7300-1657-0120
	MONITOR MODULE	EDWARDS/UTC #SIGA-MM1	7300-1657-0121
	RELAY MODULE	EDWARDS/UTC #SIGA-CR	7300-1657-0121
	SPEAKER/VISIBLE NAC DEVICE, CEILING MTD' (WATTS & cd INDICATED ON PLANS)	EATON/WHEELCOK #ELSPSTWC	7320-0785-0505
	SPEAKER/VISIBLE NAC DEVICE, WALL MTD' (WATTS & cd INDICATED ON PLANS)	EATON/WHEELCOK #ELSPSTR	7320-0785-0505
	EXTERIOR SPEAKER, W.P., WALL MTD' (WATTS INDICATED ON PLANS)	EATON/WHEELCOK #ET-1010-R	7320-0785-0105
	SPRINKLER POST INDICATOR VALVE	SPECIFIED BY FIRE PROTECTION ENG.	
	SPRINKLER RISER TAMPER SWITCH	SPECIFIED BY FIRE PROTECTION ENG.	
	SPRINKLER RISER FLOW SWITCH	SPECIFIED BY FIRE PROTECTION ENG.	
	SPRINKLER RISER BELL	SPECIFIED BY FIRE PROTECTION ENG.	

<u>SYMBOL</u>	<u>NAME</u>	<u>DESCRIPTION</u>
A	SIGNALING LINE CIRCUIT (SLC) CABLE WEST PENN #D390	16/2 TWISTED PAIR, STRANDED, LOW CAPACITANCE FA POWER LIMITED, RISER CABLE (FPLR)
AW	SIGNALING LINE CIRCUIT (SLC) CABLE, OSP WEST PENN #AQCC225	16/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
B	NOTIFICATION APPLIANCE CKT (NAC) CABLE WEST PENN #9985	12/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
BW	NOTIFICATION APPLIANCE CKT (NAC) CABLE, OSP WEST PENN #AQD27	12/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
C	EM. VOICE/ALARM COMM. (EV/AC) CABLE WEST PENN #HF995	18/2 SHIELDED TWISTED PAIR, STRANDED FA POWER LIMITED CABLE (FPL)
CW	EM. VOICE/ALARM COMM. (EV/AC) CABLE, OSP WEST PENN #AQCC295	16/2 SHIELDED TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
D	INITIATING DEVICE CIRCUIT (IDC) CABLE WEST PENN #9945	14/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)
DW	INITIATING DEVICE CKT (IDC) CABLE, OSP WEST PENN #AQCC226	14/2 TWISTED PAIR, STRANDED, AQUASEAL FA POWER LIMITED CABLE (FPL)
F	NETWORK COMM CABLE	ARMORED, 4-STR SM ISP FIBER OPTIC CABLE
FW	SITE NETWORK COMM CABLE	ARMORED, 4-STR SM OSP FIBER OPTIC CABLE
G	POWER CABLE WEST PENN #9985	12/2 TWISTED PAIR, STRANDED FA POWER LIMITED, RISER CABLE (FPLR)



ACTION	INITIATION CONDITION	FIRE SPRINKLER TAMPER SWITCH, POST INDICATOR VALVE	SMOKE, HEAT, FIRE SPRINKLER FLOW SWITCH	POWER LOSS, SHORT CIRCUIT, GROUND FAULT
ANNUNCIATE TROUBLE				●
ANNUNCIATE ALARM			●	
ANNUNCIATE SUPERVISORY	●	●	●	
INITIATE VISUAL NOTIFICATION APPLIANCES		●	●	
INITIATE EVAC SPEAKER APPLIANCES		●	●	
TRANSMIT TO CENTRAL STATION	●	●	●	●

AUDIBLE DEVICES, WHERE CEILING HEIGHT'S PERMIT
WALL MOUNTED APPLIANCES SHALL HAVE THEIR TOPS
AT HEIGHTS ABOVE FINISHED FLOORS OF NOT LESS
THAN 90" (2.30 M) AND BELOW THE FINISHED
CEILINGS OF NOT LESS THAN 6" (0.15m).

AUDIO/VISUAL & VISUAL-ONLY DEVICES
WALL MOUNTED APPLIANCES SHALL HAVE
THEIR BOTTOMS AT HEIGHTS ABOVE THE
FINISHED FLOOR OF NOT LESS THAN 80" (2m),
AND TOPS NO GREATER THAN 96" (2.4m).

LOCAL OPERATING CONSOLE OR
SEPARATE ANNUNCIATOR &
MICROPHONE

MANUAL PULL
STATION

TO TOP OF LEVER

FLOOR LINE

CEILING LINE

6" MIN.

80" MIN. AT BOTTOM OF LENS

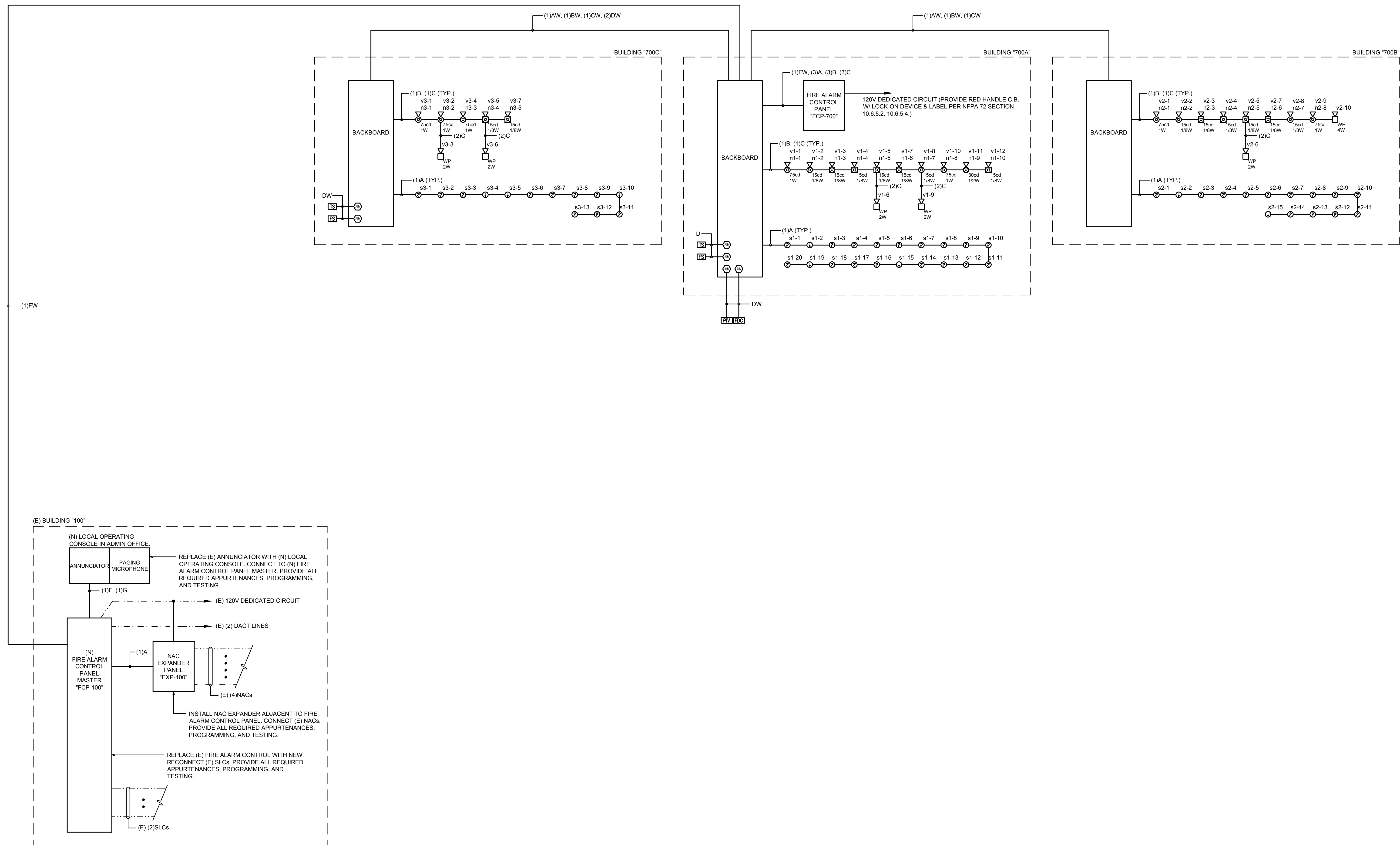
96" MAX. AT TOP OF LENS

90" MIN.

48"

48"





DSA File No.:
10-89

DSA Application No.:
02-122955

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122955 INC: 02
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 05/28/2025

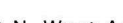
Agency Approval



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Mendota Elementary School - Inc. No. 02: Modular Classroom Buildings Mendota Unified School District 605 Bass Ave, Mendota CA 93640		Project
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TYPICAL INFORMATION
FIRE ALARM SYSTEM - SINGLE LINE DIAGRAM AND
CALCULATIONS Drawing _____

 ARCHITECTUR
PLANNING
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Professional Engineer Seal for Grant E. Dods, State of California, No. C-20,307, Exp. 6-30-25.

No.	Revision/Submission	Date
		Revision
	Designed By: SD	Copyright 2025 Darden Architects
Scale: As indicated	Drawn By: EN	X/E202
Project Number: 2277	Checked By: SD	
Date: 4/30/2025	Reviewed By: SD	
		Sheet: _____ of: _____

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																				DSA Application No.: 02-122955		Agency Approval	

BATTERY CALCULATION

F.A. Control Panel 'FCP-100'

POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
4-CPU (Main Board)	0.2300	0.2300
4-NET-SM (Network Controller)	0.0050	0.0050
3-MODCOM (DACT Communicator)	0.0600	0.0950
3-SDDC2 (Driver Controller)	0.2640	0.3360
4-LCD (Panel Display Module)	0.0500	0.1100
4-PPS/M (Power Supply)	0.0450	0.0450
4-6ANN, 4-6ANNMT, 4-ANNCPU (Local Operation Console w/ Annunciator)	0.1450	0.1450
4-LCDAUDTELANN (Display Module)	0.0400	0.0930
4-24L12S (Control Display Module)	0.0040	0.0100
4-NE1-SM (Network Controller)	0.0050	0.0050
4-MIC (Paging Microphone)	0.0080	0.0380
4-ANNAUDTEL (Audio Interface Module)	0.0980	0.0980
TOTALS	0.9540	1.2100

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 0.954A	=	22.896 AHr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 1.21A	=	0.303 AHr
TOTAL POWER REQUIREMENT = 23.199 AHr			
MINIMUM BATTERY CAPACITY (includes 25% safety factor) = 29 AHr			

BATTERY CALCULATION

F.A. Control Panel 'FCP-700'

POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
4-CPU (Main Board)	0.2300	0.2300
4-NET-SM (Network Controller)	0.0050	0.0050
(2)3-SDDC2 (Driver Controller)	0.5280	0.6720
(3)3-ZA20B (Zoned Audio Amplifier)	0.1860	3.3600
4-LCD (Panel Display Module)	0.0500	0.1100
4-PPS/M (Power Supply)	0.0450	0.0450
NAC Circuits	-	0.7800
TOTALS	1.0440	5.2020

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 1.044A	=	25.056 AHr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 5.202A	=	1.301 AHr
TOTAL POWER REQUIREMENT = 26.357 AHr			
MINIMUM BATTERY CAPACITY (includes 25% safety factor) = 33 AHr			

BATTERY CALCULATION

NAC Expander 'EXP-100'

POWER REQUIREMENTS

	CURRENT [A]	
	SUPERVISORY	ALARM
Panel Overhead	0.0700	0.2700
SIGA-CT1 (Input Module)	0.0003	0.0004
SIGA-CC1S (Syn Output Module)	0.0002	0.0001
(E) NAC Circuits	-	8.0000
TOTALS	0.0705	8.2705

BATTERY CAPACITY

SUPERVISORY POWER (24 HOURS)	= 24 Hr * 0.0705A	=	1.691 AHr
ALARM POWER (15 MINUTES)	= 0.25 Hr * 8.2705A	=	2.068 AHr
TOTAL POWER REQUIREMENT = 3.759 AHr			
MINIMUM BATTERY CAPACITY (includes 25% safety factor) = 7 AHr			

VOLTAGE DROP CALCULATION

NAC Circuit 'n1'

VD = Voltage Drop [V]	
I = Current [A] (0.304A)	
K = 12.9 (Copper Constant)	
L = Distance to Load [ft.] (320')	
CM = Circular Mils (#12 AWG = 6530)	
V = Voltage [V] (24VDC)	
VD= $K * I * 2L = 12.9 * 0.304 * 2 * 320 = 0.384 \text{ V}$	
CM	6530
VD%= $\frac{VD}{24} = 1.6\%$	

VOLTAGE DROP CALCULATION

NAC Circuit 'n2'

VD = Voltage Drop [V]	
I = Current [A] (0.252A)	
K = 12.9 (Copper Constant)	
L = Distance to Load [ft.] (335')	
CM = Circular Mils (#12 AWG = 6530)	
V = Voltage [V] (24VDC)	
VD= $K * I * 2L = 12.9 * 0.252 * 2 * 335 = 0.334 \text{ V}$	
CM	6530
VD%= $\frac{VD}{24} = 1.4\%$	

VOLTAGE DROP CALCULATION

NAC Circuit 'n3'

VD = Voltage Drop [V]	
I = Current [A] (0.224A)	
K = 12.9 (Copper Constant)	
L = Distance to Load [ft.] (275')	
CM = Circular Mils (#12 AWG = 6530)	
V = Voltage [V] (24VDC)	
VD= $K * I * 2L = 12.9 * 0.224 * 2 * 275 = 0.243 \text{ V}$	
CM	6530
VD%= $\frac{VD}{24} = 1.0\%$	

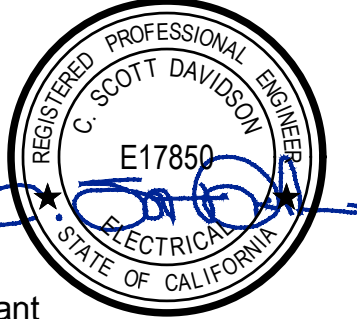
VOICE EVACUATION SPEAKER VOLTAGE DROP

Volt Drop Common Parameters

										Volts		70.7	Volts					
										Wire Size		18	AWG					
										Wire Resistance		8.45	ohm/Kft					
										INDOOR			OUTDOOR			CIRCUIT LENGTH		
Type												Total Watts		Max Length		Actual Length		
Wattage Tap		1/8 W	1/4 W	1/2W	1W	2W	1W	2W	4W	8W								
v1		7		1	2		2					7.375		4752		370		
v2		6			2		1					8.75		4006		392		
v3		2			3		2					11.25		3115		353		



Hardin-Davidson Engineering
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Mendota Elementary School - Inc. No. 02:
Modular Classroom Buildings
Mendota Unified School District
605 Bass Ave, Mendota CA 93640

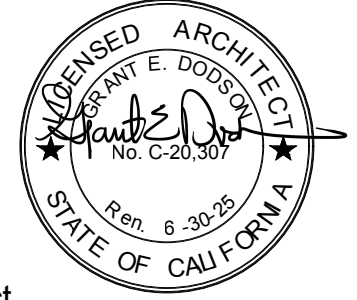
Project

TYPICAL INFORMATION

FIRE ALARM SYSTEM - CALCULATIONS

Drawing

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PLANNING
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6790 N. West Ave. • Fresno, CA 93711 • T. 559.448.8051



Architect

No.	Revision/Submission	Date
Revision		
	Designed By: SD	Copyright © 2025 Darden Architects
Scale: As indicated	Drawn By: EN	X/E203
Project Number: 2277	Checked By: SD	
Date: 4/30/2025	Reviewed By: SD	
Sheet: _____ of: _____		

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STATE OF CALIFORNIA										CALIFORNIA ENERGY COMMISSION									
Solar And Battery																			
CERTIFICATE OF COMPLIANCE										NRCC-SAB-B-7003B									
Project Name: Mendota Elementary School - Inc. 02: Modular Classroom Buildings										Report Page: (Page 2 of 5)									
7003B										Date Prepared: 4/22/2025									
Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamily and hotel/ motel occupancies only)																			
01																			
☐ The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in 110.10(b).																			
C. COMPLIANCE RESULTS																			
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Specified Conditions" refer to Table D, for guidance or see the applicable Table referenced below.																			
Allocated Solar Zone				Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure				Compliance Results			
01		02		OR	03		04		OR	05		06		OR	07		08		COMPLIES
Required Minimum Area (ft ²)	<=	Designated Area (ft ²)	Required Minimum DC Power Rating (Watts)		<=	Designed DC Power Rating (Watts)	Required Minimum Solar Savings Fraction	<=		Designed/Rat ed Solar Savings Fraction	JAS Compliant	Alternative Energy Efficiency Measure	Thermostat		Energy Efficiency Measure				
(See Table F)					(See Tables G or J)					(See Table H)					(See Table I)				
		<=		OR	4,740		<=		4,800	OR			<=		OR				
Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/plumbing to the electrical service/water heating system per §110.30(c).																			
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.																			
COMPLIES																			
D. EXCEPTIONAL CONDITIONS																			
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.																			
										Generated Date/Time:									
										Documentation Software: EnergyPro									
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance										Report Number: 2022.0.000 Schema Version: rev 20220101									
										Compliance ID: EnergyPro-7514-0425-1401 Report Generated: 2025/04/22 09:45 AM									

STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Solar And Battery			
CERTIFICATE OF COMPLIANCE		NRCC-SAB-4	
Project Name:	Mendota Elementary School - Inc. 02: Modular Classroom Buildings 700B	Report Page:	(Page 3 of 5)
		Date Prepared:	4/22/2022
E. ADDITIONAL REMARKS			
This table is includes remarks made by the permit applicant to the Authority Having Jurisdiction.			
Campus PV system credit per DSA PR 23-04.			
F. ALLOCATED SOLAR ZONE			
This section does not apply to this project.			
G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION			
This section does not apply to this project.			
H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS			
This section does not apply to this project.			
I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION			
This section does not apply to this project.			

Generated Data/Time:

Documentation Software: EnergyPro

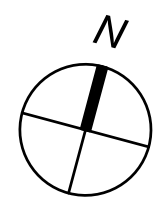
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000
Schema Version: rev 20220101

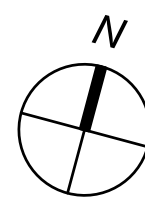
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Report Generated: 2022-04-22 09:45:34

_____	A
_____	E
_____	C
_____	D
_____	E

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Scale: 1/8" = 1'-0"



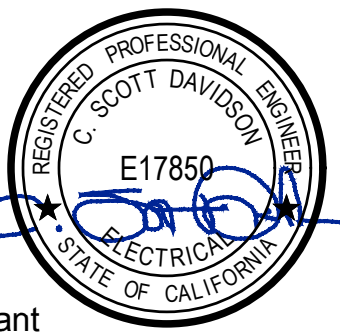
AN AUTOMATIC FIRE SPRINKLER SYSTEM IS PROVIDED AT OVERHANGS (NON-COMBUSTIBLE SPACE) AND AT ATTIC SPACES (CONCEALED COMBUSTIBLE SPACE). HEAT DETECTORS ARE OMITTED PER DSA GI-2 1 2 7.

Scale: 1/8" = 1'-0"

Agency Approval

KEYNOTES

1. BUILD PANELBOARD PRE-INSTALLED BY BUILDING MANUFACTURER AND GROUND PER DETAIL E1XK101 AND JS5X101. BOND ALL BUILDING MODULES TOGETHER PER DETAIL A1XK101.
2. PV VERIFIABLE AC DISCONNECT SWITCH PROVIDE MAP WITH LOCATION OF ALL PV SWITCHES AT MAIN BREAKER AT MSB. SEE A10XK103.
3. PV / BESS INVERTER. SEE A10XK103.
4. BESS BATTERY CABINET. MAINTAIN SEPARATION FROM PENETRATIONS PER CEC 1207.8.4, CONDITION 5. SEE A10XK103.
5. NEMA 3R CABINET WITH TERMINAL BLOCKS. SEE KEYNOTE 9. DETAIL A10XK101.
6. 3/4" THICK X 8FT HIGH, FIRE RESISTANT PLYWOOD BACKBOARD. SECURE PLYWOOD TO (2) WOOD STUDS WITH #10 X 3" COUNTERSUNK WOOD SCREWS AT 6" CENTERS WITH MIN. (4) SCREWS AT 6" CENTERS AT EACH WALL STUD. WITH 1/2" EMBEDMENT INTO STUD. PROVIDE TMGB PER A11XK102, A14XK102.
7. ID# WALL RACK PER DETAIL M1XK101.
8. FIRE ALARM CONTROL PANEL. CONNECT FA PER FIRE ALARM SINGLE LINE DIAGRAM A1XK202.



Consultant

Project

Drawing



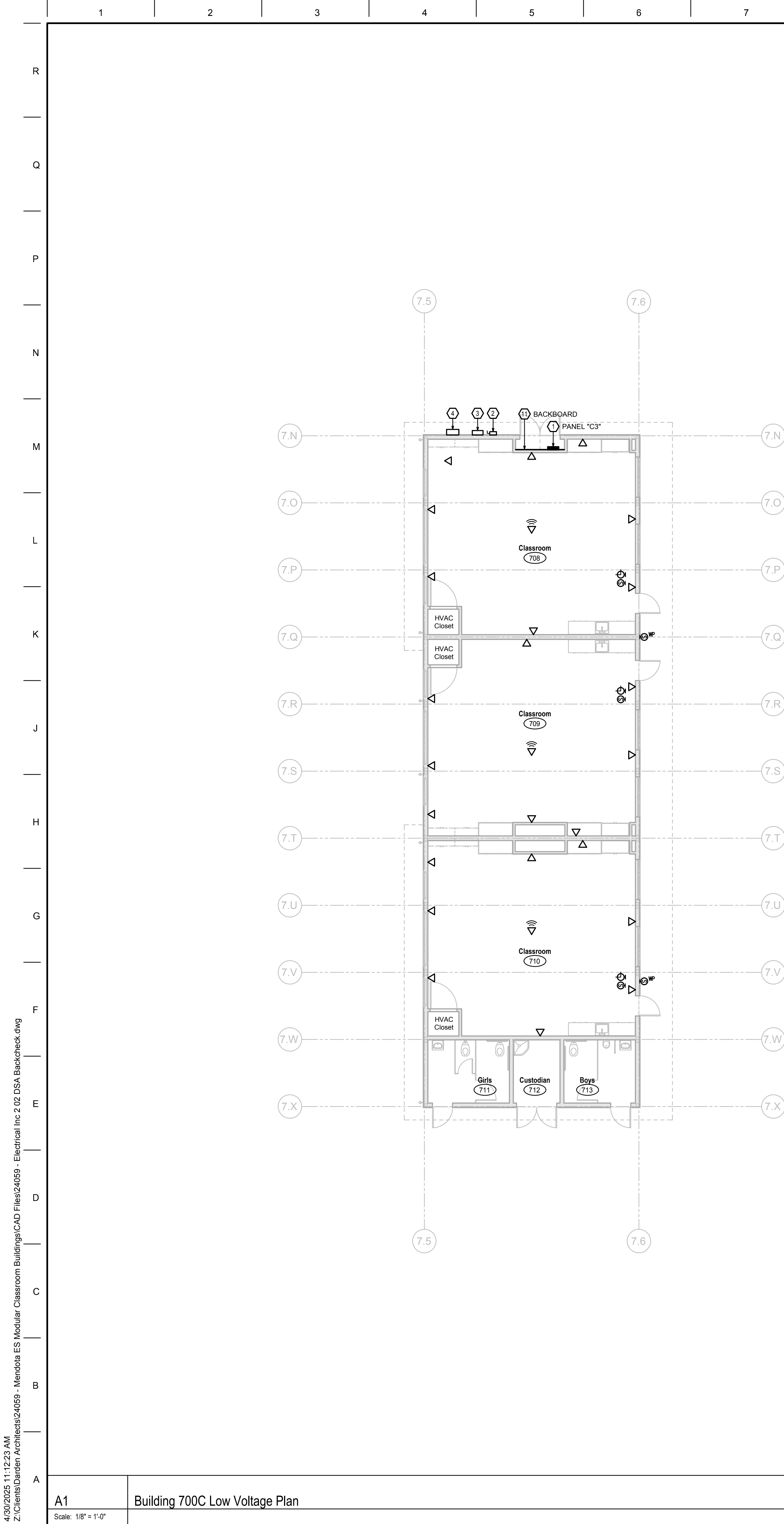
Architect

A/E101

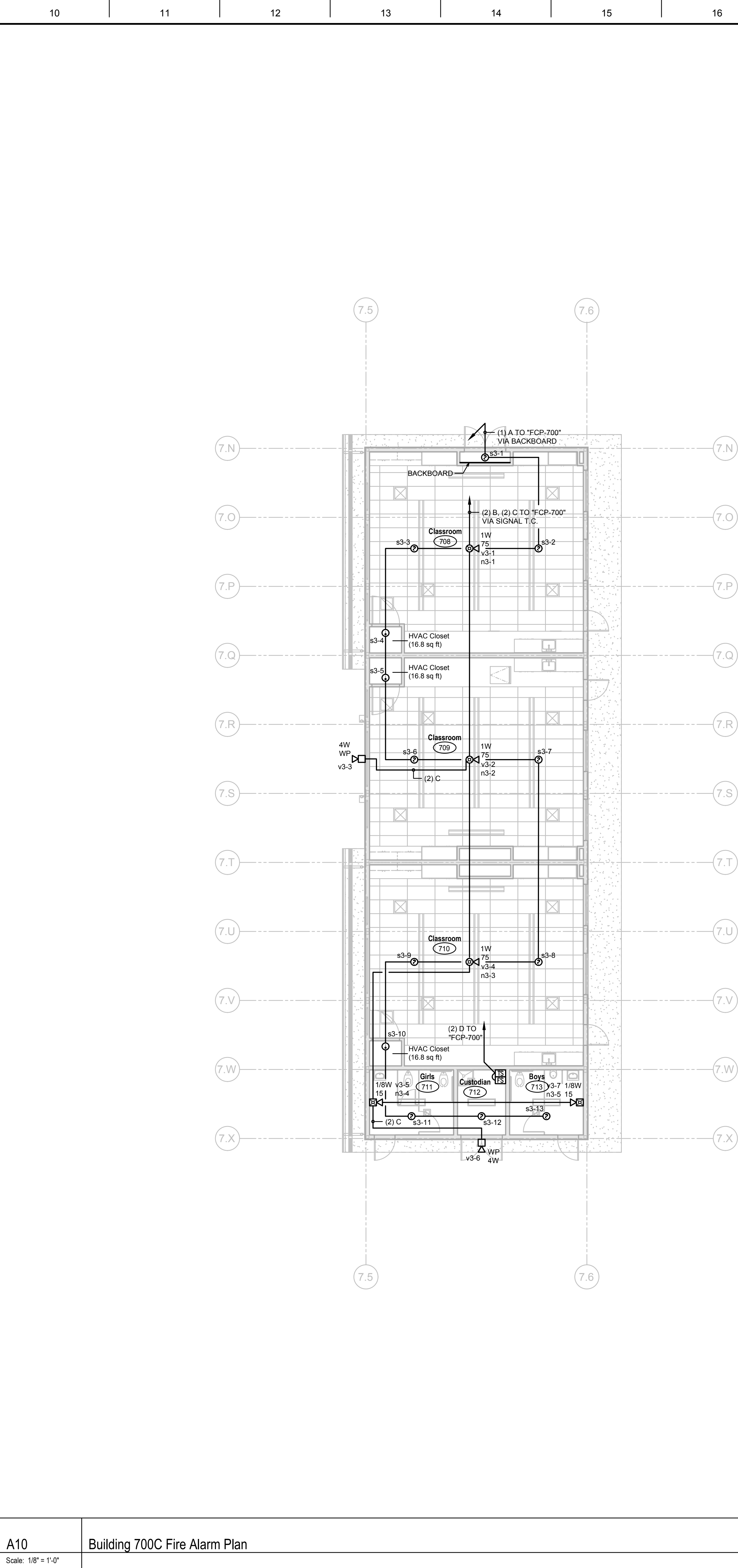
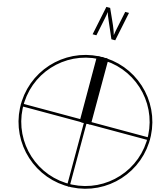
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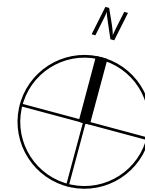
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A1 Building 700C Low Voltage Plan
Scale: 1/8" = 1'-0"



A10 Building 700C Fire Alarm Plan
Scale: 1/8" = 1'-0"



DSA File No.:
10-89

DSA Application No.:
02-122955

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-122955 INC. 02
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 05/28/2025

Agency Approval

KEYNOTES

- BUILDING PANELBOARD PRE-INSTALLED BY BUILDING MANUFACTURER AND GROUND PER DETAIL E1/X/E101 AND J5/X/E101. BOND ALL BUILDING MODULES TOGETHER PER DETAIL A1/X/E101.
- PV. VERIFIABLE AC DISCONNECT SWITCH. PROVIDE MAP WITH LOCATION OF ALL PV SWITCHES AT MAIN BREAKER AT MSB. SEE A10/X/E103.
- PV / BESS INVERTER. SEE A10/X/E103.
- BESS BATTERY CABINET. MAINTAIN SEPARATION FROM FENESTRATIONS PER CFC 1207.8.4, CONDITION 5. SEE A10/X/E103.
- NEMA 3R CABINET WITH TERMINAL BLOCKS. SEE KEYNOTE 9, DETAIL A10/X/E103.
- 3/4" THICK x 8FT HIGH, FIRE RESISTANT PLYWOOD BACKBOARD. SECURE PLYWOOD TO (2) WOOD STUDS WITH #10 x 3" COUNTERSUNK WOOD SCREWS AT 8" CENTERS, WITH MIN. (4) SCREWS AT 6" CENTERS AT EACH WALL STUD. WITH 2-1/2" EMBEDMENT INTO WALL STUD. PROVIDE TMGB PER A11/X/E102, A14/X/E102.
- IDF WALL RACK PER DETAIL M1/X/E101.
- FIRE ALARM CONTROL PANEL. CONNECT FA PER FIRE ALARM SINGLE LINE DIAGRAM A1/X/E202.

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Consultant

Mendota Elementary School - Inc. No. 02:
Modular Classroom Buildings
Mendota Unified School District
605 Bass Ave, Mendota CA 93640
Project

BUILDING 700C
ELECTRICAL PLANS
Drawing

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