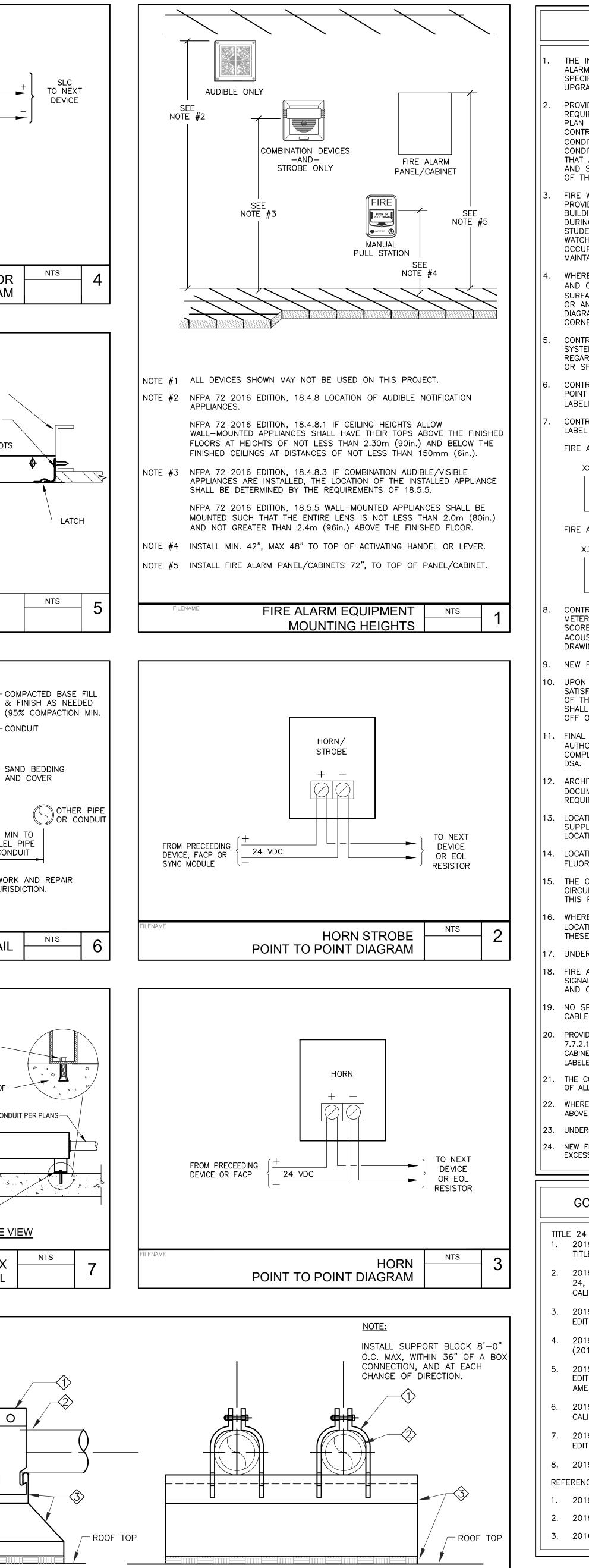


SLC LOOP

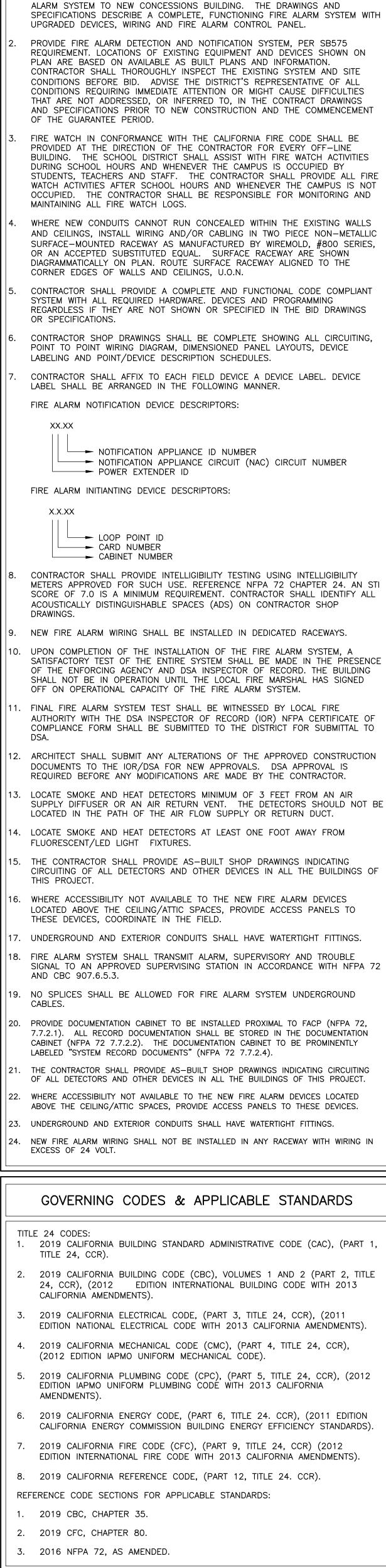
FROM PRECEEDING



<u>SIDE VIEW</u>

ROOF CONDUIT SUPPORT DETAIL

NTS



FIRE ALARM GENERAL NOTES

THE INTENT OF THE FIRE ALARM WORK SHOWN IS TO EXTEND EXISTING FIRE

FIRE ALARM						
SYM	MODEL #	MFG	DESCRIPTION	CSFM		
FACP EST-3 EST (E) FIRE ALARM CONTROL PANEL				7165-1657:0186		
FAPS BPS6A EST REMOTE BOOSTER POWER SUPPLY			REMOTE BOOSTER POWER SUPPLY	7300-1657:0229		
PF SIGA-CT1 EST INPUT MODULE			7300–1657:012			
SYNC	SIGA-CC1S	EST	SYNCHRONIZATION OUTPUT MODULE	7300–1657:012		
			INITIATING DEVICES			
0	SIGA-HRD	EST	HEAT DETECTOR 135 DEG.	7270-1657:0333		
Ū _A	302-194	THERMOTECH	HEAT DETECTOR 194 DEG.	7270-0021:000		
\bigcirc	SIGA-OSD	EST	PHOTO DETECTOR	7272-1657-051		
		MONIT	ORING CONTROL DEVICES			
ММ	SIGA-CT1	EST	MONITOR MODULE	7300-1657:012		
			INDICATING DEVICES			
🛛 ¹⁵	G1RF-VM	EST	STROBE (15cd, 30cd, 75cd, 110cd)	7125-1657:0218		
X 15	G1RF-HDVM	EST	HORN STROBE (15cd, 30cd, 75cd, 110cd)	7125-1657:0202		
Ě	757–1A–T	EST	EST HORN (WEATHER PROOF)			
	757A-WB	EST	WEATHERPROOF BOX, RED, SURFACE	7300–1657:019		
J	J-BOX					

FIRE ALARM CABLE SCHEDULE							
TYPE	DESCRIPTION		USE				
CABLES INSTALLED IN CONDUIT (MINIMUM 3/4" C.)							
Α	WEST PENN D980 (2#18 SOL, UTP, FPL)	SLC (ADD	RESSABLE LOOP) INTERIOR				
AE	WEST PENN AQ224 (2#18 STR, UTP, FPL)		RESSABLE LOOP) EXTERIOR				
М	ESSEX 2#14 THHN/THWN SOL	IDC (INITIA	TING DEVICE CIRCUIT) - INTERIOR/EXTERIOR				
R	WEST DENNI DO75 (2#18 SOL STD EDL)						
В	WEST PENN 998 (2#12 STR, FPLR) NAC (NOTIFICATION APPLIANCE CIRCUIT) INTERIOR						
С	WEST PENN 975 (2#18 SOL, STP)	•	PEAKER CABLE - INTERIOR				
CE	WEST PENN AQ294 (2#16 STR, STP, FPL)	AUDIO SP	PEAKER CABLE – EXTERIOR				
DE	WEST PENN AQ225 (2#16 SOL, UTP, FPL)	NETWORK	COMMUNICATION CABLE - EXTERIOR				
CABLE	DESCRIPTION ABBREVIATIONS						
ABBREV.	DEFINITION	ABBREV.					
FPL	FIRE ALARM POWER-LIMITED	STR	STRANDED CONDUCTOR				
FPLP	FIRE ALARM POWER-LIMITED, PLENUM	STP	SHIELDED TWISTED PAIR				
FPLR	FIRE ALARM POWER-LIMITED, RISER	US	UNSHIELDED CABLE				
OS	OVERALL SHIELDED CABLE	UTP	UNSHIELDED TWISTED PAIR				
SOL	SOLID CONDUCTOR						

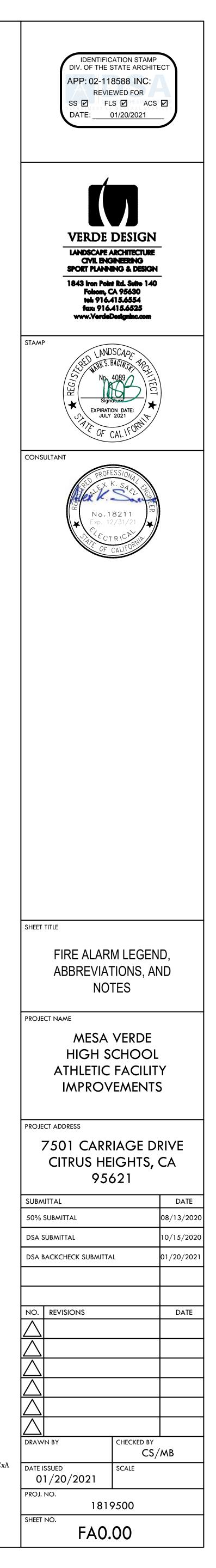
FIRE ALARM STROBE/HORN NOTES

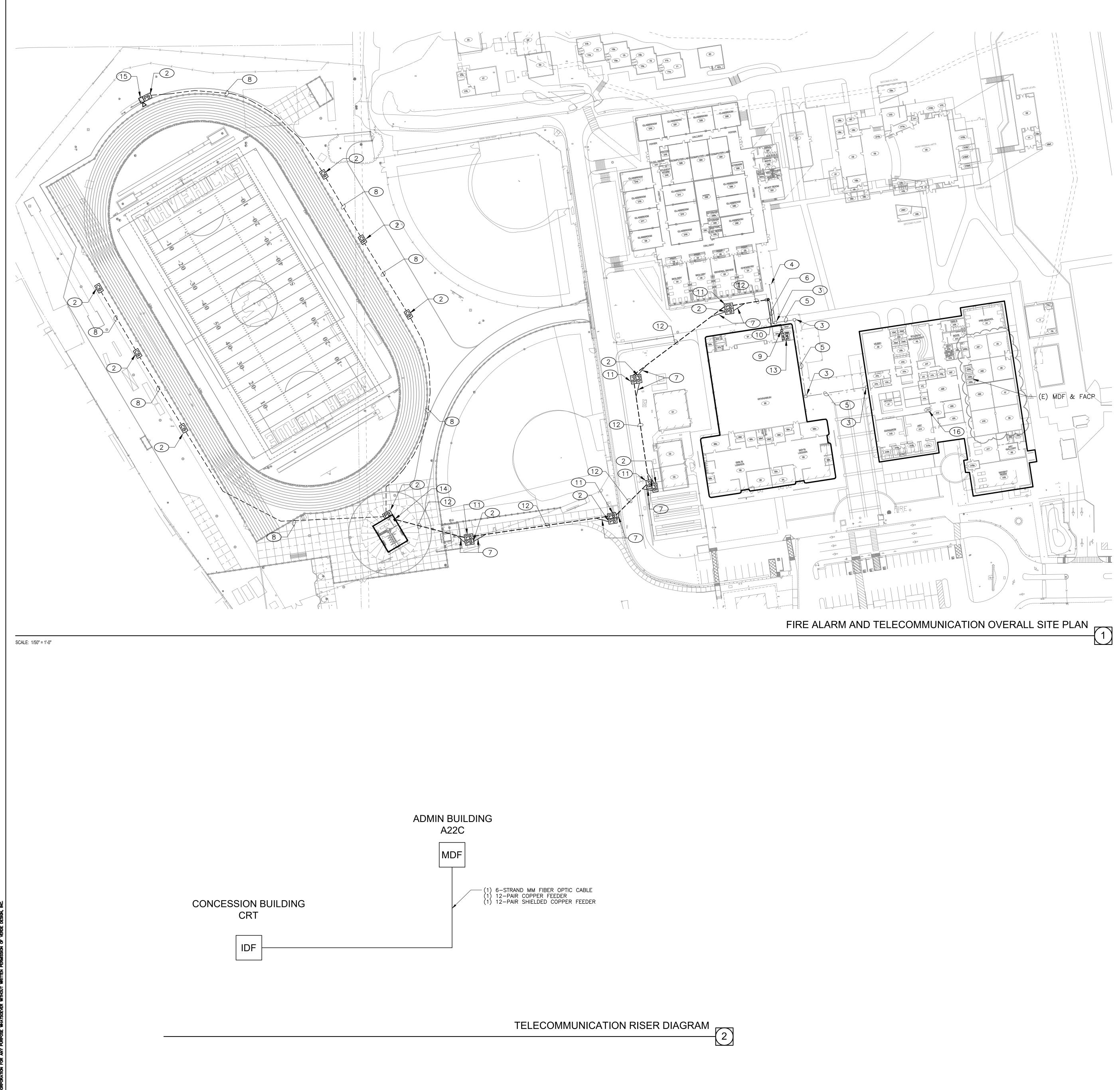
- PER NFPA 72 2016 SECTION 10.12.2: WHEN AN OCCUPANT NOTIFICATION ALARM SIGNAL DEACTIVATION MEANS IS ACTUATED, BOTH AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES SHALL BE SIMULTANEOUSLY DEACTIVATED.
- PER NFPA 72 2016 SECTION A10.12.2: WHERE IT IS DESIRED TO DEACTIVATE THE NOTIFICATION APPLIANCES FOR FIRE SERVICE OPERATIONS INSIDE THE BUILDING AND SIGNAL EVACUATED OCCUPANTS THAT AN ALARM IS STILL PRESENT, IT IS RECOMMENDED THAT A SEPARATE NON-SILENCEABLE NOTIFICATION RECOMMENDED THAT A SEPARATE NON-SILENCEABLE NOTIFICATION ZONE BE PROVIDED ON THE EXTERIOR OF THE BUILDING. THE AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES LOCATED AT THE BUILDING ENTRANCES COULD SERVE AS A WARNING TO PREVENT OCCUPANT RE-ENTRY.
- A FLASHING VISUAL WARNING DEVICE HAVING A FREQUENCY OF NOT MORE THAN TWO (2) FLASHES OR LESS THAN ONE (1) FLASH PER SECOND BE INSTALLED TO WARN THE HEARING IMPAIRED AS SHOWN ON THE DRAWINGS. (SEC. 2-7204)
- 4. ALL STROBE CIRCUITS SHALL BE SYNCHRONIZED NFPA 72 A.18,5.2.6

	FIRE ALARM SHEET INDEX
SHEET NO.	SHEET TITLE
FA0.00	FIRE ALARM LEGEND, ABBREVIATIONS, AND NOTES
FA1.00	FIRE ALARM AND TELECOMMUNICATION OVERALL SITE PLAN
FA2.00	FIRE ALARM PLAN, RISER DIAGRAM AND CALCULATIONS
T2.00	TELECOMMUNICATION PLAN



1209 Pleasant Grove Blvd. Roseville, CA 95678 p 916-771-0778





SW

DRAWING NAME: P:\1-Project files\2019 LP Projects\19-2245 BCA_Mesa Verde CRT bldg\Electrical\E-Sheets\192245_FA1_00 (FA_SITE).dwg PLOT DATE: 01-12-21 PLOTTED BY: Jessica

GENERAL NOTES

- 1. ALL DEVICES ARE EXISTING UNLESS OTHERWISE NOTED.
- 2. ALL EXISTING EQUIPMENT, DEVICES, CONDUIT, AND WIRING, ETC., WHERE SHOWN ON DEMO PLANS ARE BASED ON AVAILABLE EXISTING DOCUMENTS AND LIMITED SITE SURVEYS. a. REFER TO RECORD SET DSA A#02-105232 FOR
- 3. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK. REPORT TO ENGINEERS ANY DISCREPANCIES.

PREVIOUS FIRE ALARM SYSTEM.

- 4. THE CURRENT PROJECT SCOPE DOE NOT INCLUDE HVAC UPGRADES, THEREFORE, CARBON MONOXIDE DETECTION HAS BEEN OMITTED FROM THIS DESIGN PER THE FOLLOWING DSA INTERPRETATION OF CBC 915 THAT EXISTING BUILDINGS SHALL HAVE CO DETECTION INSTALLED IN THE FOLLOWING CIRCUMSTANCES:
- a. INSTALLATION OF NEW FUEL-BURNING APPLIANCE IN NEW AND EXISTING BUILDINGS.
- b. REPLACEMENT OF EXISTING FUEL-BURNING APPLIANCES IN EXISTING BUILDINGS.
- c. REPLACEMENT OF EXISTING FIRE ALARM SYSTEM WHERE CO DETECTION IS CURRENTLY INTEGRATED.

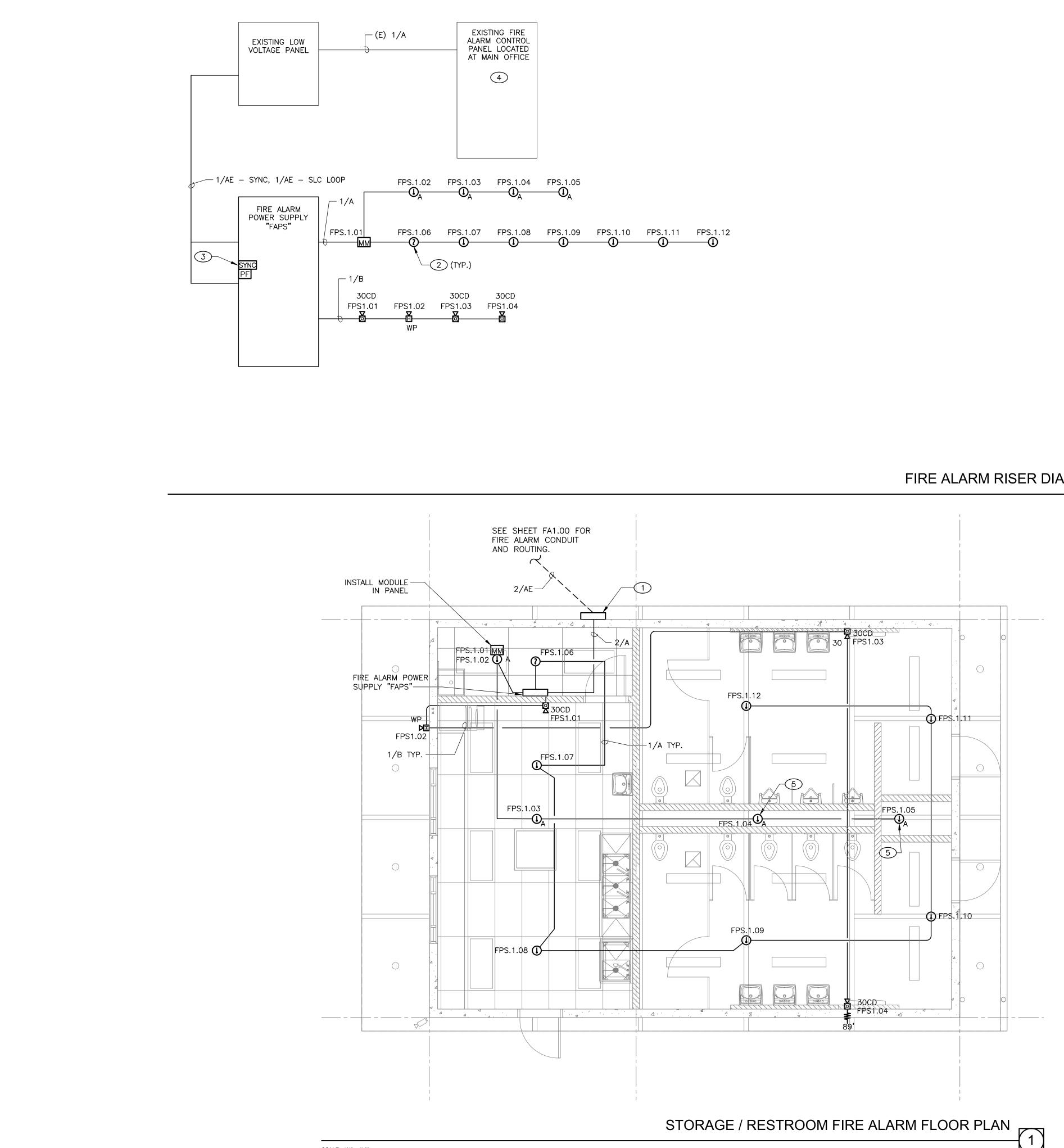
KEY NOTES

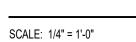
- (N) 360 DEGREE SECURITY CAMERA MOUNTED ON SCOREBOARD.
- 2 PROVIDE ELECTRICAL LOW VOLTAGE COMMUNICATION BOX 2'X3'. (TYPICAL).
- (E) ROOF MOUNTED J-BOX TO REMAIN. RE-USE TO PULL-IN NEW CONDUCTORS AS INDICATED.
- (4) (E) CONDUIT ON CANOPY TO REMAIN.
- (E) CONDUIT ON CANOPY TO REMAIN. RE-USE TO PULL-IN NEW CONDUCTORS AS INDICATED.
- (6) (3)2"C.O.(LV) ROUTED ON (E) CANOPY TO (N) J-BOX (12"x12"x10"D. NEMA 3R) LOCATED ON 9E) CANOPY. ROUTE DOWN (E) COLUMN TO (N) PULL BOX LOCATED ON SITE AS INDÍCATED. REFER TÓ DETAIL 7/FA0.00 AND 8/FA0.00 FOR ADDITIONAL INFORMATION.
- (5)2"C.O.(LV). INSTALL PER DETAIL 6/FA0.00.
- 8 (2)2"C.O.(LV). INSTALL PER DETAIL 6/FA0.00.
- 9 (1)2"C W/ 2/AE ROUTED UP TO (E) CEILING IN ROOM. TRANSITION TO (E) CANOPY WITH CORE THROUGH EXTERIOR WALL.
- (1) (1)2"C W/ 2/AE ROUTED ON (E) CANOPY TO (N) J-BOX. ROUTE DOWN (E) COLUMN TO (N) PULL BOX AS INDICATED.
- (11) PROVIDE N9 PULL BOX.
- (1)2"C W/ 2/AE(FA) AND (5)2"C.O.(LV). INSTALL PER DETAIL 6/FA0.00.
- (E) FAPS'S TO REMAIN. EXTEND FIRE ALARM CIRCUITS FROM THIS LOCATION. PROVIDE ALL NECESSARY PARTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- (14) (N) 'FAPS'. REFER TO DETAIL 1/FA0.00 FOR INSTALLATION REQUIREMENTS. PROVIDE ALL NECESSARY PARTS FOR A COMPLETE AND FULLY FUNCTIONING SYSTEM.
- 15 NEW SECURITY CAMERA MOUNTED ON SCOREBOARD. CAT6 CABLE WITH DATA EXTENDER. ROUTE CABLING TO CONCESSION BUILDING IDF.
- (16) BOGEN INTERCOM TERMINATION, CONTRACTOR TO PROVIDE END-TO-END TERMINATION, PROGRAMMING AND TESTING.



www.lpengineers.com Job #: 19-2245

	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITE APP: 02-118588 INC: REVIEWED FOR SS ☑ FLS ☑ ACS DATE: 01/20/2021	
	VERDE DESIGN VERDE DESIGN LANDSCAPE ARCHITECTURE CIVIL ENGINEERING SPORT PLANNING & DESIGN 1843 Iron Point Rd. Suite 140 Folsom, CA 95630 tol: 916.415.6554 faz: 916.415.6525 www.VerdeDesigninc.com	-
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	Exp. 12/31/21	
	SHEET TITLE	
	FIRE ALARM AND TELE OVERALL SITE PLA	
	PROJECT NAME MESA VERDE HIGH SCHOOL ATHLETIC FACILIT IMPROVEMENTS	
	PROJECT ADDRESS 7501 CARRIAGE DE CITRUS HEIGHTS, 9 95621	
	SUBMITTAL	DATE
	50% SUBMITTAL	08/13/2020
		10/15/2020
	DSA BACKCHECK SUBMITTAL	01/20/2021
	NO. REVISIONS	DATE
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	PROJ. NO. 1819500 SHEET NO.	
	FA1.00	







PRE-CAST CONCRETE WALL NOTES

- 1. ALL PENETRATIONS 12" OR LARGER TO BE CAST AT THE PRE—CAST MANUFACTURER'S PLANT AND WILL BE COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER PRIOR TO CASTING.
- 2. ALL PENETRATIONS SMALLER THAN 12" SHALL BE CORED IN THE FIELD AND COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER. PRIOR TO CORING, PRE-CAST ENGINEER TO REVIEW LOCATIONS TO ENSURE THE PENETRATIONS ARE NOT GOING THROUGH FLEXURAL REINFORCEMENT.

KEY NOTES

- 1 TERMINAL CAN FOR LOW VOLTAGE SYSTEMS, SEE KEY NOTE 5 SHEET E1.00
- 2 FIRE ALARM DEVICE IDENTIFICATION SHALL BE PER SJUSD STANDARD ON SHEET FA0.00 (TYPICAL FOR ALL INITIATING AND NOTIFICATION DEVICES).
- 3 NOTIFICATION DEVICES SHALL BE SYNCHRONIZED SITE-WIDE. CONNECT SYNCHRONIZATION OUTPUT MODULE TO FIRE ALARM CONTROL PANEL AND/OR ANOTHER FIRE ALARM POWER SUPPLY AS REQUIRED. PROVIDE ALL COMPONENTS AND PROGRAMMING AS REQUIRED.
- (4) VERIFY AVAILABLE CAPACITY ON EXISTING A SLC CARDS AND PROVIDE NEW CARD AS NECESSARY.
- 5 INSTALL DEVICE IN PLUMBING CHASE AND PROVIDE ACCESS PANEL PER 6/FA0.1 FOR MAINTENANCE AND TESTING. COORDINATE LOCATION OF ACCESS PANEL WITH ALL TRADES PRIOR TO EXECUTION OF WORK.

GENERAL NOTES

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- SURVEYS. a. REFER TO RECORD SET DSA A#02-105232 FOR PREVIOUS FIRE ALARM SYSTEM.
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- 4. THE CURRENT PROJECT SCOPE DOE NOT INCLUDE HVAC UPGRADES, THEREFORE, CARBON MONOXIDE DETECTION HAS BEEN OMITTED FROM THIS DESIGN PER THE FOLLOWING DSA INTERPRETATION OF CBC 915 THAT EXISTING BUILDINGS SHALL HAVE CO DETECTION INSTALLED IN THE FOLLOWING CIRCUMSTANCES:
- a. INSTALLATION OF NEW FUEL-BURNING APPLIANCE IN
- NEW AND EXISTING BUILDINGS. b. REPLACEMENT OF EXISTING FUEL-BURNING APPLIANCES
- IN EXISTING BUILDINGS. c. REPLACEMENT OF EXISTING FIRE ALARM SYSTEM WHERE CO DETECTION IS CURRENTLY INTEGRATED.

FIRE ALARM CONTROL PANEL (FACP) BATTERY CALCULATIONS

		STANDBY	CURRENT	ALARM CURRENT		
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL	
FACP (ADDRESSIBLE)	1	0.75	0.75	0.75	0.75	
ANNUNCIATOR	1	0.12	0.12	0.14	0.14	
HEAT DETECTOR	24	0.0003	0.0072	0.0065	0.156	
SMOKE DETECTOR	438	0.0003	0.1314	0.0065	2.847	
DUCT SMOKE DETECTOR	0	0.0003	0	0.012	0	
PULL STATIONS	17	0.0004	0.0068	0.0004	0.0068	
LINE ISOLATOR	40	0.000045	0.0018	0.056	2.24	
BEAM DETECTORS	4	0.02	0.08	0.05	0.2	
FLOW CONTACT MOD	3	0.0004	0.0012	0.0007	0.0021	
RELAY MODULE	2	0.0001	0.0002	0.0001	0.0002	
LAN INTERFACE	1	0.25	0.25	0.25	0.25	
INTRUSION	177	0.00006	0.01062		0	
	0		0	0	0	
TOTAL			1.0972		6.3398	
TOTAL 24 HR STANDBY			26.3328			
TOTAL 15 MIN ALARM					1.58495	
TOTAL REQUIRED AH	27.91775					
+20% SPARE	33.5013					
FACP BATTERY AH	55					

POWER BOOSTER PANEL (FAPS) BATTERY CALCULATIONS								
STANDBY CURRENT ALARM CURRENT								
DEVICE	QUANTITY	AMPS	TOTAL	AMPS	TOTAL			
DOSTER (ADDRESSIBLE)	1	0.056	0.056	0.056	0.056			
15CD HORN/STROBE	0		0	0.054	0			
30CD HORN/STROBE	3		0	0.074	0.222			
75CD HORN/STROBE	0		0	0.121	0			
110CD HORN/STROBE	0		0	0.162	0			
15CD STROBE	0		0	0.06	0			
30CD STROBE	0		0	0.083	0			
EXTERIOR HORN	1			0.075	0.075			

TOTAL		0.056	0.353
TOTAL 24 HR STANDBY		1.344	
TOTAL 15 MIN ALARM			0.08825
TOTAL REQUIRED AH	1.43225		
+20%SPARE	1.7187		
BOOSTER AH	7		

VOLTAGE DROP CALCULATIONS FAPS

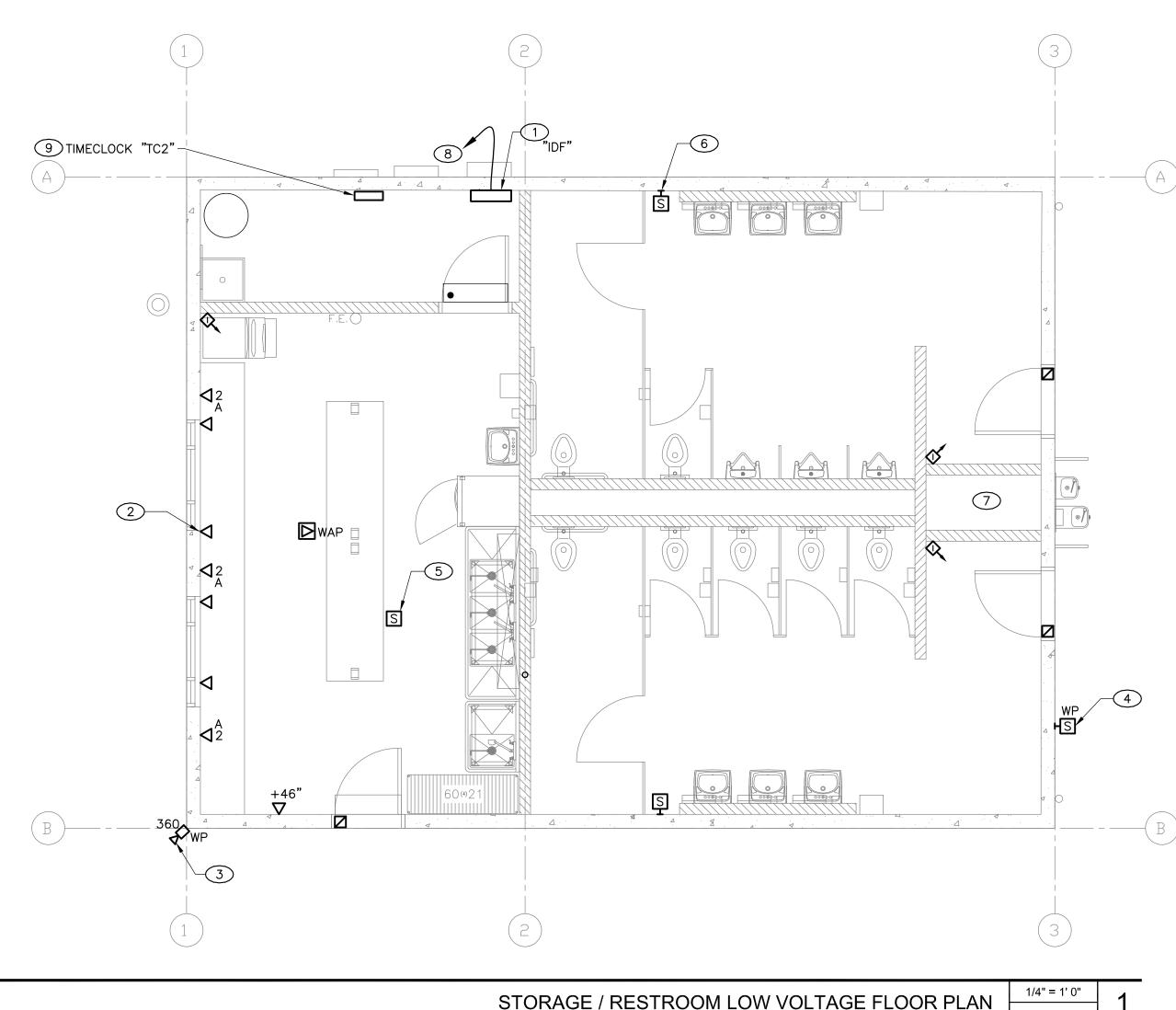
			INTERIOR	EXTERIOR	HORN	STROBE	STROBE						
CIRCUIT	BLDG	PANEL	HORN	HORN	STROBE	ONLY	ONLY	WIRE	RESISTANCE	LENGTH	TOTAL	VOLTAGE	% OF
NO.			96dBA	99dBA	30cd	15cd	30cd	SIZE	(IN OHMS/	(IN FEET)	CURRENT	DROP	VOLTAGE
			@ 0.075 A	@ 0.075 A	@ 0.074 A	@ 0.060 A	@ 0.083 A	(AWG)	1000FT)		(IN AMPS)		DROP
N1	1	FAPS		1	3			12	1.98	89	0.297	0.10	0.44%
N2	1	SPARE						12	1.98				
N3	1	SPARE						12	1.98				
N4	1	SPARE						12	1.98				



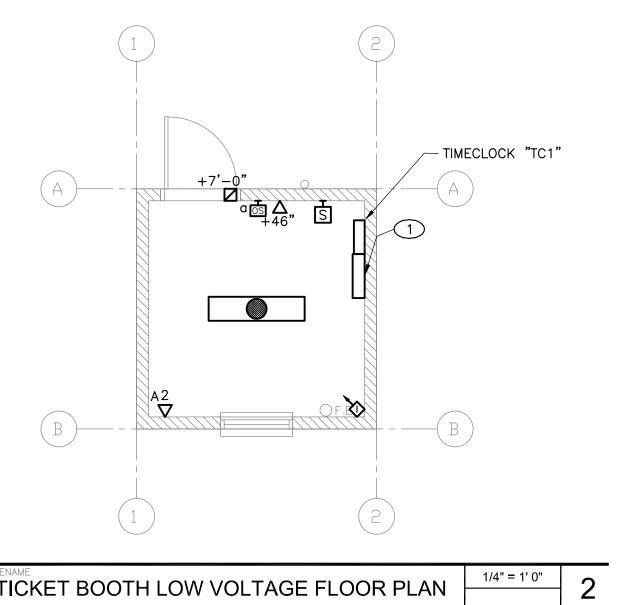
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	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITE APP: 02-118588 INC: REVIEWED FOR SS ☑ FLS ☑ ACS DATE: 01/20/2021	1				
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-	STAMP					
	No.18211 Exp. 12/31/21 PROFESSION No.18211 Exp. 12/31/21 OF CALLFORM					
-	SHEET TITLE FIRE ALARM FLOOR PLANS					
-	PROJECT NAME MESA VERDE HIGH SCHOOL ATHLETIC FACILIT IMPROVEMENTS					
-	PROJECT ADDRESS 7501 CARRIAGE DRIVE CITRUS HEIGHTS, CA 95621					
	SUBMITTAL 50% SUBMITTAL	DATE 08/13/2020				
	DSA SUBMITTAL	10/1 <i>5</i> /2020 01/20/2021				
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DRAWING NAME: P:\1-Project files\2019 LP Projects\19-2245 BCA_Mesa Verde CRT bldg\Technology\192245_T2_00 (TECHNOLOGY_PLAN) (1).dwg PLOT DATE: 01-12-21 PLOTTED BY: Jessica



STORAGE / RESTROOM LOW VOLTAGE FLOOR PLAN



TICKET BOOTH LOW VOLTAGE FLOOR PLAN

KEY	NOTES
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1 LOW VOLTAGE CABINET, SEE BOTTOM SHEET FA1.00 MOUNT CABINET @ +8'-0" TO BOTTOM OF CABINET

- (2) PROVIDE WALL MOUNTED DATA LOCATION PER SPECIFICATIONS.
- 3 PROVIDE EXTERIOR WALL MOUNTED CAMERA PER SPECIFICATIONS.
- (4) PROVIDE EXTERIOR OUT DOOR SPEAKER PER SPECIFICATIONS.
- 5 PROVIDE INTERIOR CEILING MOUNT SPEAKER PER SPECIFICATIONS.
- 6 PROVIDE INTERIOR WALL MOUNT SPEAKER PER SPECIFICATIONS.
- (7) PROVIDE INTERIOR WALL MOUNT MOTION SENSOR
- (8) PROVIDE (1) 2"C (DATA-FIBER) BACK TO MDF
- 9 TIMECARD LOCATION

GENERAL NOTES

- 1. ANY SHEETNOTES OR OTHER CALLOUTS IN THESE DRAWINGS THAT ASSIGN RESPONSBILITY OF WORK TO SPEPCIFIC DISCIPLINES IS TO BE CONSDIERED AS A RECOMMENDATION ONLY.
- 2. REFER TO DISTRICT SPECIFICATION FOR PRODUCT SPECS AND INSTALLTION REQUIREMENTS
- 3. DRAWINGS REPRESENT CONCEPTUAL LOCATIONSS OF DEVICES. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC LOCATIONS AS REQUIRED
- 4. REFER TO RESPECTIVE DISCIPLINES FOR EXACT MOUNTING LOCATIONS OF DEVICES UNLESS OTHERWISE NOTED. COORDINATE THOSE DISCIPLINES FOR TERMINATION REQUIREMENTS WITH DISTRICT IT REPRESENTITIVE.
- 5. COMPLY WITH ADA REQUIREMENTS FOR MOUNTING HEIGHTS OF ALL DEVICES
- 6. ALL WORK TO BE DONE BY DIVISION 27 AND 28 UNLESS OTHERWISE NOTED
- 7. REFER TO DIVISION 26 FOR POWER AND LIGHTING REQUIREMENTS
- 8. REFER TO DIVISION 23 FOR ALL COOLING REQUIREMENTS
- 9. ALL UTP CABLING IS CAT6 PLENUM
- CONDUIT AND BOXES
- 1. PROVIDE 1-1/4 INCH CONDUIT TO TELECOMMUNICATIONS 5' SQUARE BACKBOXES, 2-7/8 DEEP WITH SINGLE GANG MUDING UNLESS OTHERWISE NOTED IN DETAILS
- 2. PROVIDE J HOOK PATHWAY FROM CONDUIT CHASE TO NEW IDF
- 3. MAXIMUM NUMBER OF BENDS IN CONDUIT BETWEEN PULLPOINTS NOT TO EXCEED 180 DEGREES
- TELECOMMUNICATION ROOM
- 1. COMMUNICATION SYSTEM CONTRACTOR IS RESPONSBILE FOR ALL DATA CABLING THAT IS TO BE INSTALLED IN IDF
- 2. TELECOM ROOM FLOORS TO BE ANTISTATIC SEALED. ALL FLOORS SHALL BE CLEANED AND SEALED PRIOR TO INSTALLATION OF ANY ELECTRONICS AND ACTRIVE EQUIPMENTY
- 3. PROVIDE 3/4' FIRE TREATED PLYWOOD BACKBOARDS WITH 2 COATS OF FIRE RETARDANT PAINT (COLOR-WHITE). LEAVE FIREPROOF SEALS EXPOSED/ UNPAINTED
- 4. BUSBAR SHALL BE BONDED TO BUILDING STRUCTURAL STEEL, WHEN AVAILABLE

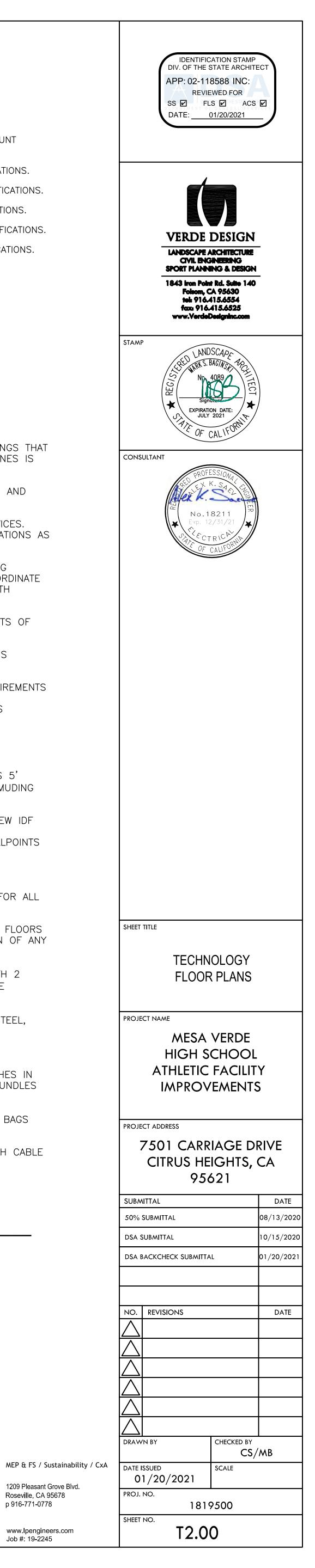
HANGERS AND SUPPORT FOR COMMUNICATION SYSTEMS

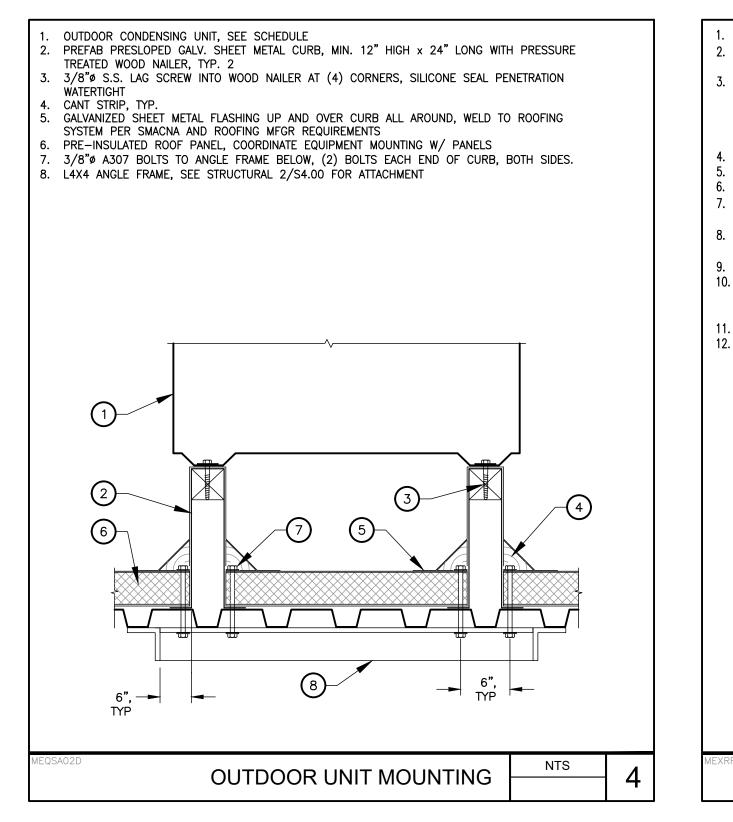
- 1. J HOOKS SHALL BE SPACED AT A MAXIMUM OF 48 INCHES IN THE MAIN BUNDLE, 48 TO 60 INCHES IN SECONDARY BUNDLES AND WITHIN 6 INCHES OF AN EMT CONDUIT STUB UP
- 2. MAIN BUNDLE SHALL EMPLOY 4 INCH JHOOKS/ SADDLE BAGS AND SEOCNDARY CAN EMPLOY 2 INCH J HOOKS
- 3. 3.CABLES SHALL NOT BE SECURED TO THE J HOOK WITH CABLE TIES OR VINYL TAPE

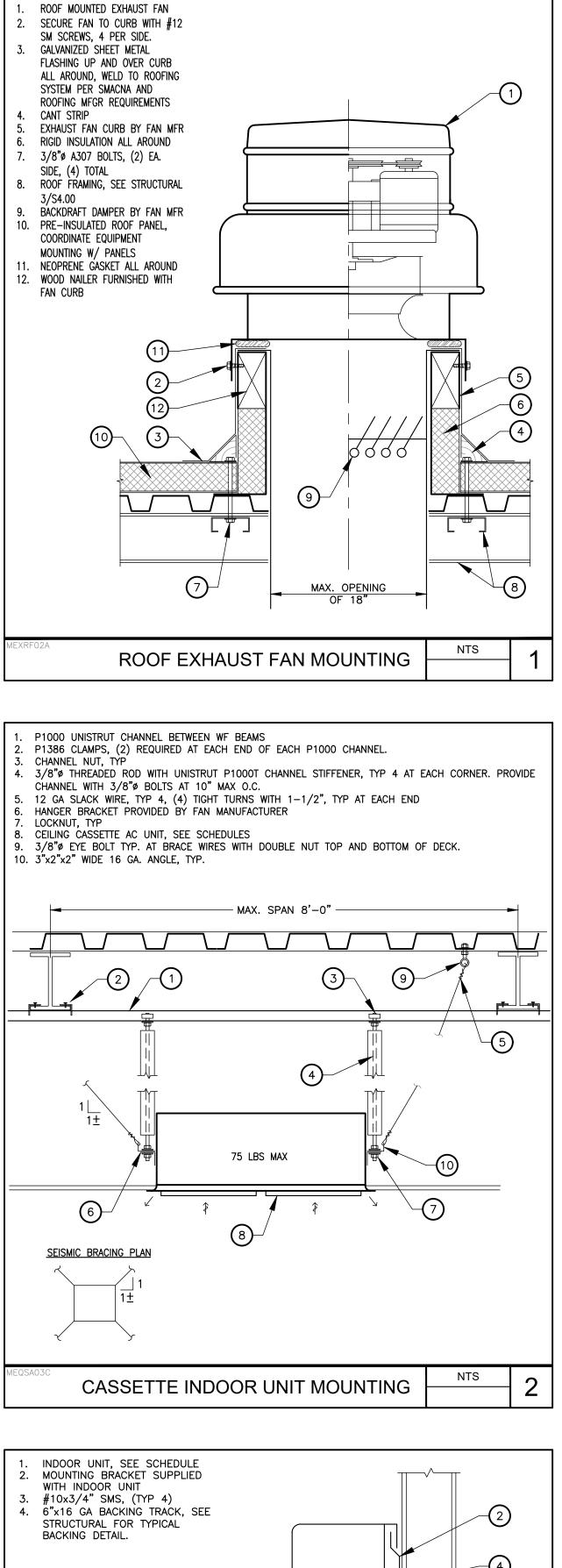
TECHNOLOGY SYMBOLS

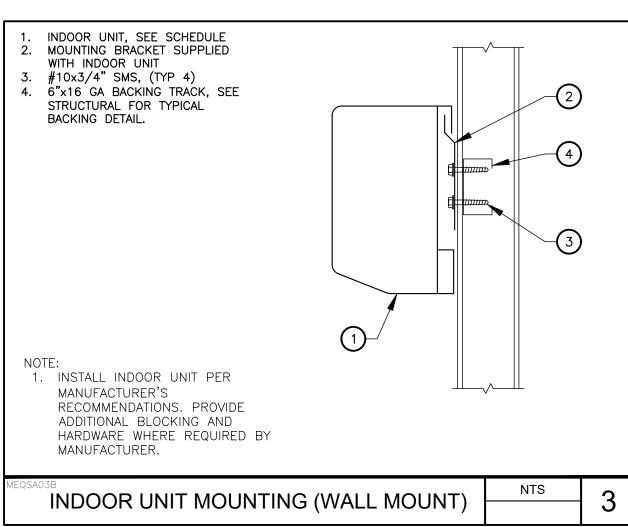
- ◀ DATA LOCATION
- S CEILING MOUNT INTERIOR SPEAKER
- S WALL MOUNT INTERIOR SPEAKER
- S WALL MOUNT EXTERIOR SPEAKER
- \bigotimes Wall mount interior motion sensor
- 360⊡A WALL MOUNT EXTERIOR CAMERA
- DOOR CONTACT











OUTDOOR UNIT SCHEDULE					
ODU-1	ODU-2				
PROP FAN	PROP FAN				
ROOF	ROOF				
11 / 28	11 / 28				
208/1	208/1				
20.8 / 12.0	20.8 / 12.0				
10.2	11.0				
	4.28				
12.0	18.0				
14.0	19.0				
SEE PLAN	SEE PLAN				
SEE NOTES	SEE NOTES				
95	100				
MANUFFCTURER MITSUBISHI MITSUBISHI MODEL PUZ-A12NKA7 PUZ-A18NKA7					
	ODU-1 PROP FAN ROOF 11 / 28 208/1 20.8 / 12.0 10.2 4.31 12.0 14.0 SEE PLAN SEE PLAN SEE NOTES 95 MITSUBISHI				

RICAL CUNTRACTOR TO PROVIDE DISCONNECT SWITCH. PROVIDE CONDENSER COIL HAIL GUARDS.

INDOOR UNIT SCHEDULE						
NUMBER	IDU-1	IDU-2				
TYPE	DUCTLESS	DUCTLESS				
MOUNTING	WALL	CEILING				
MCA/MOCP	1 / 15	1 / 15				
VOLTS/PHASE	208/1	208/1				
DRIVE	DIRECT	DIRECT				
CFM	370	570				
OUTSIDE AIR (CFM)	<u> </u>	_				
COOLING CAP. (MBH)	12.0	18.0				
HEATING CAP. (MBH) @47°F	14.0	19.0				
SERVICE	SEE PLAN	SEE PLAN				
ACCESSORIES	SEE NOTES	SEE NOTES				
OPER. WT. (LBS.)	30	60				
MANUFACTURER	MITSUBISHI	MITSUBISHI				
MODEL	PKA-A12HA7	PLA-A18EA7				

PROVIDE OPTIONAL SAUERMANN CONDENSATE PUMP, COORDINATE VOLTAGE WITH ELECTRICAL CONTRACTOR. PROVIDE MITSUBISHI PAR-33MAA-J WIRED PROGRAMMABLE T-STAT. INDOOR UNIT POWERED FROM OUTDOOR UNIT.

NOTES:

. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.

	MECHANICAL GENERAL NOTES
	S CONTRACTOR SHALL COMPLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE, INCLUDING, BUT
NO A.1.	LIMITED TO: 2019 CALIFORNIA BUILDING CODE
A.2.	2019 CALIFORNIA MECHANICAL CODE
A.3.	2019 CALIFORNIA PLUMBING CODE
A.4.	2019 CALIFORNIA ELECTRICAL CODE
A.5. A.6.	2019 CALIFORNIA GREEN BUILDING STANDARDS 2019 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS – TITLE 24
A.7.	NATIONAL FIRE PROTECTION ASSOCIATION
A.8.	CALIFORNIA STATE FIRE MARSHAL
ME(AC(MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL CHANICAL, ELECTRICAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL CEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED ITEMS INSTALL DER THIS CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
C. THE	MECHANICAL CONTRACTOR SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND PREVENTATIVE NTENANCE MANUALS FOR EACH MODEL AND TYPE OF MECHANICAL EQUIPMENT.
C01	ICK AND VERIFY EXISTING CONDITIONS AT THE JOB SITE BEFORE BEGINNING WORK. ADJUST THE LOCATION AND IFIGURATION OF THE WORK NECESSARY TO SUIT ACTUAL CONDITIONS AND OTHER TRADES. ANY CHANGES REQUIRE ST FIRST BE APPROVED BY THE ARCHITECT OR ENGINEER.
e. The Sha	LOCATIONS OF EQUIPMENT, PIPING, DUCTWORK AND SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND LL BE FOLLOWED AS CLOSELY AS POSSIBLE. CHANGES REQUIRED TO SUIT EXISTING CONDITIONS AND DUE TO DRDINATION WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST TO THE OWNER.
F. SUE OPT	MIT MANUFACTURER'S PRODUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, CAPACITY, IONS, DIMENSIONS, WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES SCHEDULED ARE
	IMUM CAPACITY, AIR FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA SCHEDULED IS MAXIMUM ILABLE OR ALLOWABLE.
AVA EQL COI	EQUIPMENT IS TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY EQUIPMENT ILABLE FROM THE MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE SYSTEM. ALL IPMENT OR ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED AND INSTALLED BY THIS ITRACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL CONTROLS AND VERIFY THAT ALL SAFET ICES ARE FUNCTIONING PROPERLY.
I. PRO CON ACO	INVIDE ACCESS DOORS WHERE ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS MECHANIC ITROL SYSTEM COMPONENTS, FIRE/SMOKE DAMPERS, SMOKE DETECTORS, ETC., OR OTHER SYSTEMS REQUIRING SESS FOR MAINTENANCE, TESTING OR OBSERVATION. COORDINATE THE EXACT TYPE AND LOCATION OF ACCESS ORS TO PROVIDE PROPER ACCESS TO THE ITEM CONCEALED.
SO	ICK ALL PIPE AND DUCTWORK FOR LEAKS AND EXCESSIVE AIR LOSS AND NOISE. CORRECT ANY DEFICIENCIES AS ON AS DISCOVERED. OPERATE THE SYSTEMS AS A TEST AND DEMONSTRATE TO THE OWNER AND ARCHITECT OR INEER THAT THE SYSTEM IS FUNCTIONING PROPERLY.
	VANIZED STEEL DUCTS SHALL BE ASTM A 653/A 653M GALVANIZED STEEL SHEET, FORMING STEEL (FS) IGNATION, WITH G90/Z275 ZINC COATING.
sta Fof	RICATE, SUPPORT AND SEAL DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION NDARDS — METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GAGES, REINFORCING, AND SEALIN 2: 4" STATIC PRESSURE UPSTREAM OF TERMINAL UNITS (VAV, CAV BOXES) AND 2" STATIC PRESSURE DOWNSTREAM TERMINAL UNITS (VAV, CAV BOXES).
. COI CEN	ISTRUCT DUCTWORK T'S, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1–1/2 TIMES WIDTH OF DUCT (ITERLINE. WHERE NOT POSSIBLE RECTANGULAR ELBOWS MUST BE USED, PROVIDE AIR FOIL TURNING VANES. WHEI DUSTICAL LINING IS INDICATED, PROVIDE TURNING VANES OF PERFORATED METAL WITH GLASS FIBER INSULATION.
M. COI	IBINATION FIRE AND SMOKE DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA 90A, UL 555, UL 555S, AND A CATED. PROVIDE FACTORY SLEEVE AND COLLAR FOR EACH DAMPER.
	INSULATION AND LINER PRODUCTS SURFACE BURNING CHARACTERISTICS: FLAME SPREAD/SMOKE DEVELOPED INDI 25/50, MAXIMUM, WHEN TESTED IN ACCORDANCE WITH ASTM E 84, NFPA 255, OR UL 723.
	T INSULATION BLANKET (INTERIOR APPLICATIONS):
0.1.	INSULATION: ASTM C553; FLEXIBLE, NONCOMBUSTIBLE BLANKET. 'K' ('KSI') VALUE: 0.31 AT 75 DEGREES F (0.0 AT 24 DEGREES C), WHEN TESTED IN ACCORDANCE WITH ASTM C 518. MAXIMUM SERVICE TEMPERATURE: 250 DEGREES F (121 DEGREES C). MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME. DUCT APPLICATION: 2" THICK, 3/4 LB. DENSITY.
0.2.	VAPOR BARRIER JACKET: KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E 96; 0.02 PERM. SECURE WITH PRESSURE SENSITIVE TAPE.
	T INSULATION BOARD (EXTERIOR APPLICATIONS):
P.1.	INSULATION: ASTM C 612; RIGID, NONCOMBUSTIBLE BLANKET. 'K' ('KSI') VALUE: 0.24 AT 75 DEGREES F (0.03 AT 24 DEGREES C), WHEN TESTED IN ACCORDANCE WITH ASTM C 518. MAXIMUM SERVICE TEMPERATURE: 250 DEGREES F (121 DEGREES C). MAXIMUM MOISTURE ABSORPTION: 0.20 PERCENT BY VOLUME. DENSITY: 3.0 LB, FT (48 KG/CU M).
P.2.	VAPOR BARRIER JACKET: KRAFT PAPER WITH GLASS FIBER YARN AND BONDED TO ALUMINIZED FILM. MOISTURE VAPOR TRANSMISSION: ASTM E 96; 0.04 PERM. SECURE WITH PRESSURE SENSITIVE TAPE.
P.3.	ALUMINUM JACKET: ASTM B 209 (ASTM B 209M). THICKNESS: 0.016 INCH (0.40 MM) SHEET. FINISH: SMOOTH. JOINING: LONGITUDINAL SLIP JOINTS AND 2 INCH (50 MM) LAPS. FITTINGS: 0.016 INCH (0.4 MM) THICK DIE SHAPED FITTING COVERS WITH FACTORY ATTACHED PROTECTIVE LINER. METAL JACKET BANDS: 3/8 INCH (10 MM WIDE; 0.015 INCH (0.38 MM) THICK ALUMINUM.
Q. DUO	T LINER:
Q.1.	INSULATION: INCOMBUSTIBLE GLASS FIBER COMPLYING WITH ASTM C 1071; FLEXIBLE BLANKET; WITH ACRYLIC POLYMER SHOWN TO BE FUNGUS AND BACTERIA RESISTANT BY TESTING TO ASTM G 21 IMPREGNATED SURFACE AND EDGE COAT. APPARENT THERMAL CONDUCTIVITY: MAXIMUM OF 0.31 AT 75 DEGREES F (0.045 AT 24 DEGREES C). DUCT APPLICATION: $1-1/2$ " THICK, $1-1/2$ POUND DENSITY. SERVICE TEMPERATURE: UP TO 250 DEGREES F (121 DEGREES C). RATED VELOCITY ON COATED AIR SIDE FOR AIR EROSION: 5,000 FPM (25.4 M/
Q.2.	MINIMUM. LINER FASTENERS: GALVANIZED STEEL, SHEET METAL WELD PINS OR CLINCH PINS AND WASHERS.

Q.2. LINER FASTENERS: GALVANIZED STEEL, SHEET METAL WELD PINS OR CLINCH PINS AND WASHERS. R. SEAL ALL STANDING SEAMS AND TRANSVERSE JOINTS IN ALL SHEETMETAL DUCTWORK WITH HARDCAST IRON GRIP PREMIUM FLEXIBLE WATER BASED DUCT SEALANT.

S. DURING CONSTRUCTION PROVIDE TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM. . ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS WITH ACCESSIBLE LOCKING TYPE QUADRANT. WHERE DAMPER IS INACCESSIBLE, PROVIDE YOUNG REGULATOR MODEL 270-301 CABLE KIT WITH EITHER 830A-CC (RECTANGULAR) OR

5020–CC (ROUND) DAMPER.

	AIR D	IST
SYMBOL	TYPE	
	DOOR LOUVER	SIGH 1/2" TITUS
E	SURFACE CEILING EXHAUST	EGGC SURF TITUS
	THE MECHANICAI ER (IF REQUIREI	

E	EXHAUST FAN SCHEDULE									
NUMBER	REF-1	REF-2	REF-3							
TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL							
MOUNTING	ROOF	ROOF	ROOF							
HP / WATTS	1/8 / -	1/8 / -	1/60 / -							
VOLTS / PHASE	115 / 1	115 / 1	115 / 1							
CFM	600	600	100							
E.S.P. (IN.WC.)	0.2	0.2	0.2							
DRIVE	DIRECT	DIRECT	DIRECT							
FAN RPM	1194	1194	1358							
SONES/TIP SPD.(FPM)	5.5/-	5.5/-	2.8/-							
SERVICE	SEE PLAN	SEE PLAN	SEE PLAN							
CONTROL	LIGHT CIRCUIT	LIGHT CIRCUIT	LIGHT CIRCUIT							
OPER. WT. (LBS.)	50	50	35							
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK							
MODEL	G-095-D	G-095-D	G-060-D							
NOTES: 1. PROVIDE FACTORY BACKDRAFT DAMPER. 2. PROVIDE FACTORY PREWIRED DISCONNECT SWITCH. 3. PROVIDE FACTORY PREWIRED FAN SPEED CONTROLLER. 4. PROVIDE FACTORY PRESLOPED ROOF CURBS WITH DAMPER TRAY.										

MECHANICAL GENERAL NOTES

. PERFORM TOTAL SYSTEMS BALANCE IN ACCORDANCE WITH AABC, ASHRAE STD 111, OR NEBB PROCEDURAL STANDARDS FOR TESTING, BALANCING AND ADJUSTING OF ENVIRONMENTAL SYSTEMS.

TRIBUTION SCHEDULE

IT PROOF DOOR RETURN GRILLE, INVERTED-V BLADES WITH BLADE SPACING, AUXILIARY FRAME FOR DOOR MOUNTING S MODEL CT-700 SERIES. SCRATE GRILLE WITH 1/2"x1/2"x1/2" GRID, FRAME FOR RFACE MOUNTING. S MODEL 50F.

ANS FOR NECK SIZE, CFM, AIR DIFFUSION PATTERN, AND

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS
- ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7–16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

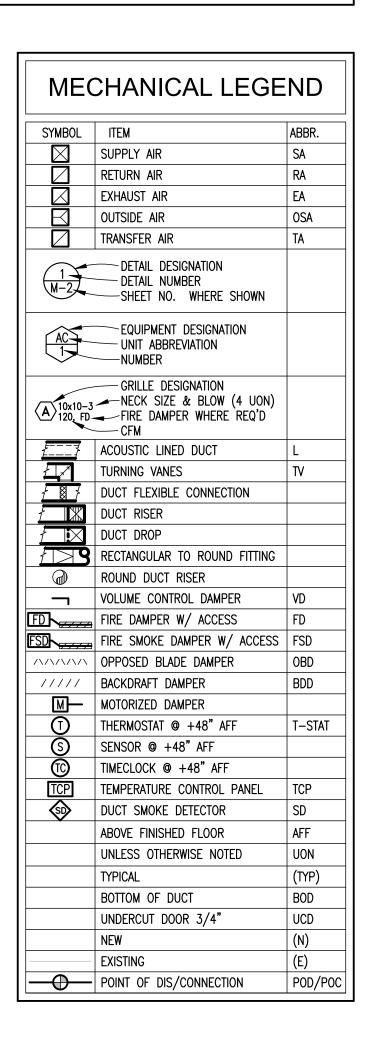
MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT □ 🛛 □ SPECIFIC NOTES AND DETAILS.

MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL □ □ □ □ (OPM#) #0043−13.

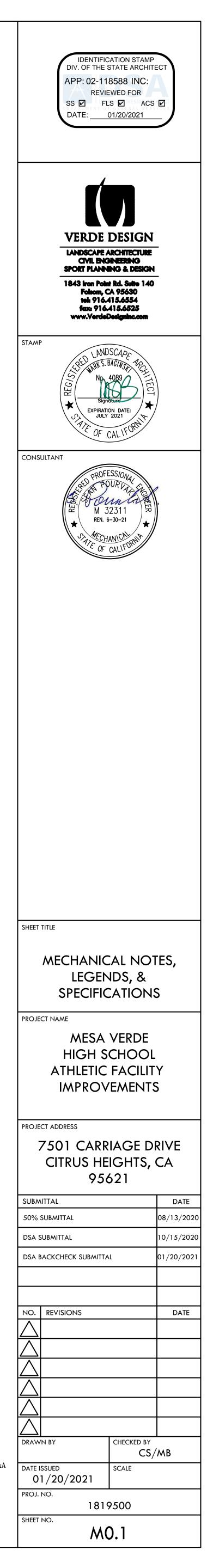
MECHANICAL SHEET INDEX

SHEET TITLE

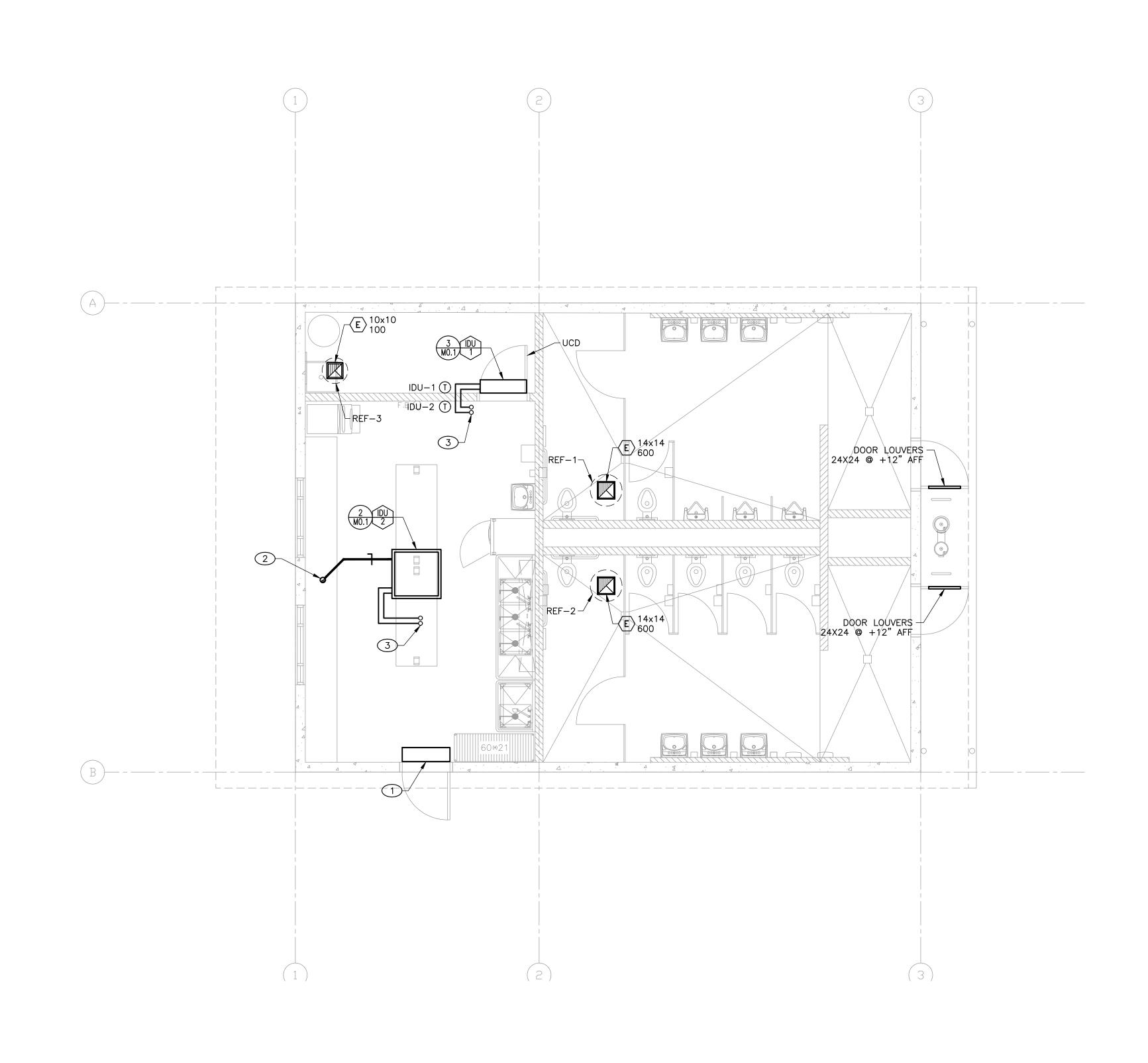
SHEET NO. MECHANICAL NOTES, LEGENDS, & SPECIFICATIONS M0.1 MECHANICAL FLOOR PLAN M2.1 M3.1 MECHANICAL ROOF PLAN







DRAWING NAME: P:\1-Project files\2019 LP Projects\19-2245 BCA_Mesa Verde CRT bldg\Mechanical\MP Sheets\192245_M2_1_(FP).DWG



SCALE: 1/4" = 1'-0"

PRE-CAST CONCRETE WALL NOTES

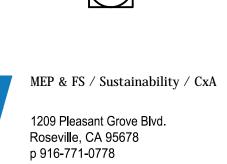
- ALL PENETRATIONS 12" OR LARGER TO BE CAST AT THE PRE-CAST MANUFACTURER'S PLANT AND WILL BE COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER PRIOR TO CASTING.
- ALL PENETRATIONS SMALLER THAN 12" SHALL BE CORED IN THE FIELD AND COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER. PRIOR TO CORING, PRE-CAST ENGINEER TO REVIEW LOCATIONS TO ENSURE THE PENETRATIONS ARE NOT GOING THROUGH FLEXURAL REINFORCEMENT.

KEY NOTES

- 1 AIR CURTAIN. SEE FOOD SERVICE DRAWINGS FOR REQUIREMENTS.
- 2 4"Ø OSA UP THROUGH ROOF WITH CAP AND FLASHING. BALANCE OSA TO 60 CFM. MAINTAIN MINIMUM 10FT FROM ANY EXHAUST OR PLUMBING VENT.
- 3 REFRIGERANT PIPING UP THROUGH ROOF TO ODU.

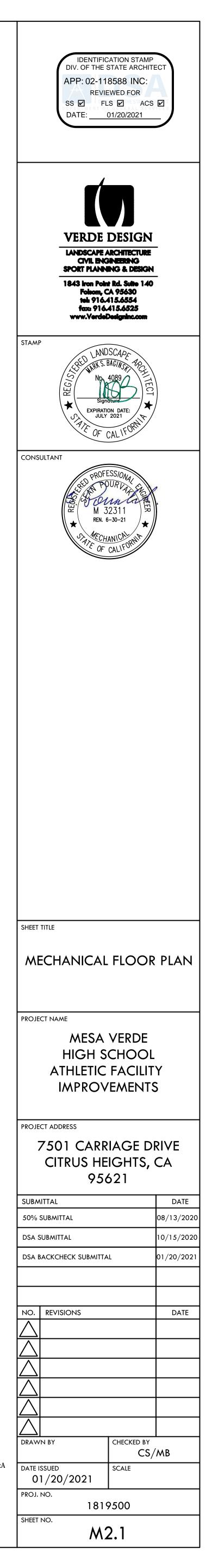
MECHANICAL FLOOR PLAN

CONSULTING Engineers

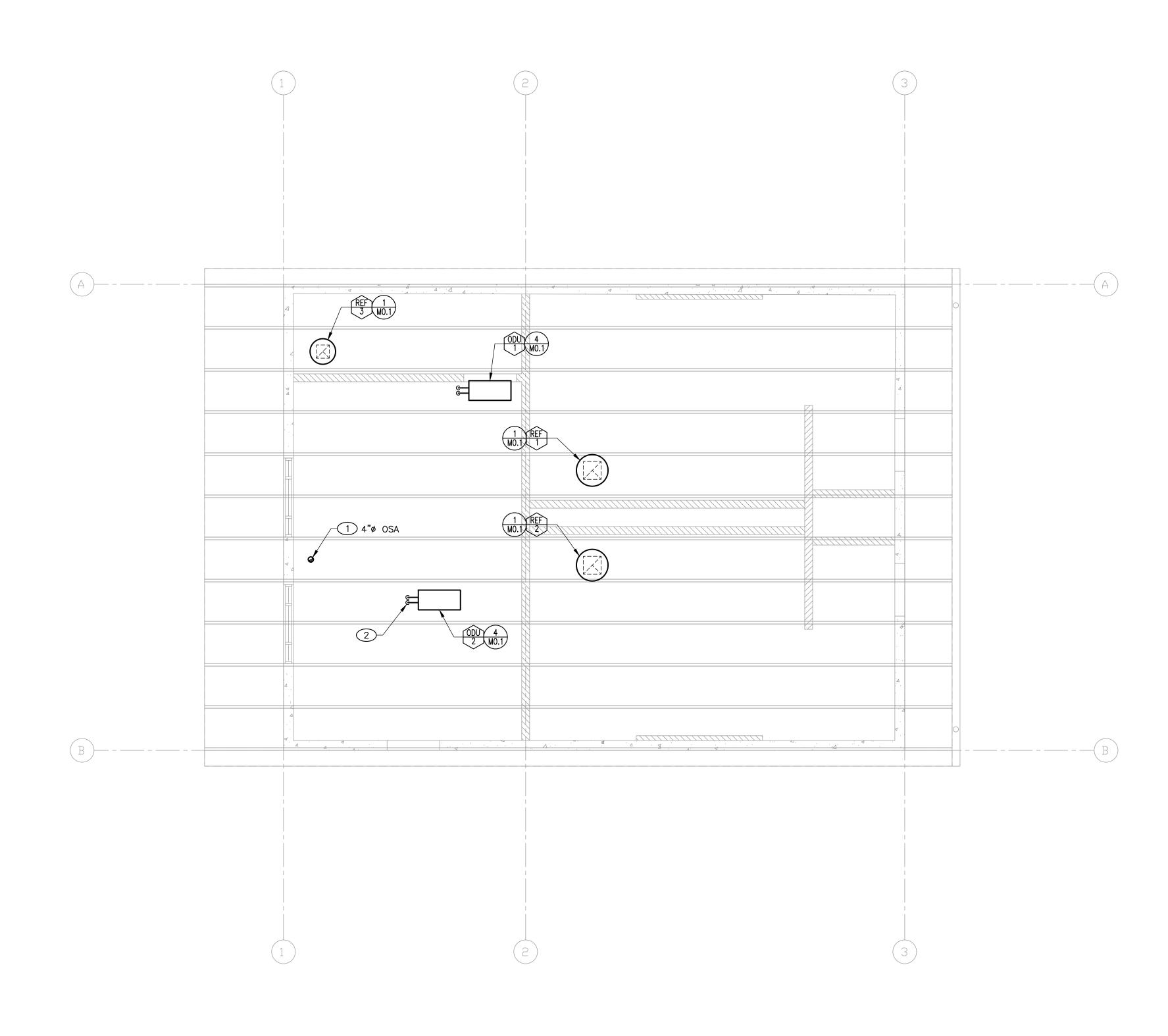


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DRAWING NAME: P:\1-Project files\2019 LP Projects\19-2245 BCA_Mesa Verde CRT bldg\Mechanical\MP Sheets\192245_M3_1_(RP).dwg



SCALE: 1/4" = 1'-0"

PRE-CAST CONCRETE WALL NOTES

- ALL PENETRATIONS 12" OR LARGER TO BE CAST AT THE PRE-CAST MANUFACTURER'S PLANT AND WILL BE COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER PRIOR TO CASTING.
- ALL PENETRATIONS SMALLER THAN 12" SHALL BE CORED IN THE FIELD AND COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER. PRIOR TO CORING, PRE-CAST ENGINEER TO REVIEW LOCATIONS TO ENSURE THE PENETRATIONS ARE NOT GOING THROUGH FLEXURAL REINFORCEMENT.

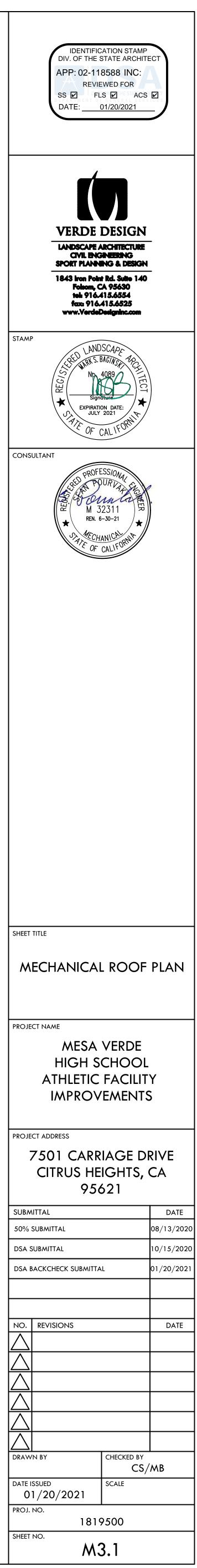
KEY NOTES

- 1 OUTSIDE AIR DUCT UP THROUGH ROOF WITH CAP AND FLASHING. COORDINATE FLASHING REQUIREMENTS WITH ROOFING. SEE ARCHITECTURAL DETAILS.
- 2 REFRIGERANT PIPE DROP THROUGH ROOF WITH FLASHING BOOT. SEE ARCHITECTURAL DETAIL 8/A8.21.

MECHANICAL ROOF PLAN







	PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	S or W	V	CW	HW	DESCRIPTION				
WC 1	ADULT WATER CLOSET CBC ACCESS	4"	2"	1"		AMERICAN STANDARD MODEL 2257.101, "AFWALL" ADA COMPLIANT WALL MOUNTED VITREOUS CHINA ELONGATED BOWL, 1.28 GPF WITH SLOAN ROYAL MODEL 111–1.28 MANUAL FLUSH VALVE, PROVIDE OLSONITE 10SSCT OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGE, PROVIDE JR SMITH WATER CLOSET SUPPORT MODEL 0240 OR EQUAL. INSTALL NOTED ADA PER CBC ACCESS REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.				
	ADULT URINAL CBC ACCESS	2"	2"	1"		AMERICAN STANDARD MODEL 6590.001, "WASHBROOK" ADA COMPLIANT WALL MOUNTED VITREOUS CHINA BOWL, 0.125 GPF WITH SLOAN ROYAL MODEL 186-0.125 MANUAL FLUSH VALVE, PROVIDE STAINLESS STEEL STRAINER MODEL 047068-0070A, PROVIDE JR SMITH MODEL 0635 WALL CARRIER SYSTEM. INSTALL NOTED ADA PER CBC ACCESS REQUIREMENTS. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.				
	ADULT LAVATORY CBC ACCESS	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD MODEL 0356.015, "LUCERNE" ADA COMPLIANT WALL HUNG 20"X18" VITREOUS CHINA LAVATORY, SINGLE HOLE FOR CHICAGO MODEL 404-VE2805-665ABCP PUSH BUTTON METERING FAUCET WITH 0.5 GPM AERATOR, PROVIDE SUPPLIES, STOPS AND 17 GAGE CHROME PLATED BRASS P-TRAP. METERING FAUCETS SHALL BE ADJUSTED TO FLOW FOR 10 SECONDS MINIMUM. WRAP SUPPLIES, STOPS AND P-TRAP PER CBC ACCESS REQUIREMENTS. INSTALL PER CBC ACCESS REQUIREMENTS.				
DF 1	DRINKING Fountain CBC Access	2"	1-1/2"	1/2"		MOST DEPENDABLE FOUNTAINS MODEL 440 SMFA, FLOOR MOUNT HI-LO, 14 GAUGE, TYPE 304, NO. 10 STAINLESS STEEL DRINKING FOUNTAIN WITH PUSH BUTTON VALVES AND BOTTLE FILLER. PROVIDE WITH FILTER. INSTALL PER ADA REQUIREMENTS. FINISH BY ARCHITECT. SET BUBBLER JET TO 4" HEIGHT.				
JS 1	Service Sink	3"	2"	3/4"	3/4"	WILLIAMS MODEL SBC-1700-BP, 6" DROP FRONT CORNER FLOOR MOUNTED SERVICE SINK, 24"x24"x12" WITH WILLIAMS MODEL T-35 HOSE AND BRACKET AND MODEL T-40 STAINLESS STEEL MOP HANGER. PROVIDE CHICAGO MODEL 445-VBRRCF, FAUCET WITH VACUUM BREAKER AND PAIL HOOK.				
	HOSE BIBB			3/4"		ACORN MODEL 8151, RECESSED WALL HYDRANT WITH VACUUM BREAKER AND SCREW-DRIVER OPERATED STOP VALVE.				
HB 2	HOSE BIBB			3/4"		ACORN MODEL 8121, BENT NOSE WITH VACUUM BREAKER, POLISHED CHROME FINISH, VANDAL RESISTANT, REMOVABLE LOOSE KEY HANDLE.				
WH 1	ELECTRIC WATER HEATER			3/4"	3/4"	A.O. SMITH MODEL DSE-50A, STORAGE TANK TYPE, 50 GALLON CAPACITY, 82 GPH RECOVERY AT 90°F RISE. UNIT WEIGHS 291 LBS. EMPTY AND 725 LBS. FILLED. (1) 18 KW ELEMENT. 208V/30, 50 FLA ELECTRICAL SERVICE. UL LISTED. SET WATER HEATER OUTLET TEMPERATURE TO 140°F.				
ET 1	EXPANSION TANK			1/2"		BELL & GOSSETT MODEL PT-5, STEEL SHELL, BUTYL DIAPHRAGM TYPE EXPANSION TANK PRE-CHARGED TO 40 PSI WITH 2.0 GALLON TANK CAPACITY, 0.9 GALLON ACCEPTANCE CAPACITY.				
FD 1	FLOOR DRAIN	2"	1-1/2"	TP		JR SMITH MODEL 2005Y, 5" DIAMETER ROUND NICKEL BRONZE TOP WITH 2" PIPE, FLANGE AND SEEPAGE PAN. PROVIDE TRAP PRIMER CONNECTION.				
FS 1	Floor Sink	3"	2"	TP		ZURN MODEL Z1902, COATED CAST IRON, ACID RESISTANT PAINTED INTERIOR, 12" SQUARE TOP WITH 1/2 GRATE, 10" DEEP SUMP, DOUBLE DRAINAGE FLANGE BOTTOM CAULK OUTLET, & DOME STRAINER. PROVIDE TRAP PRIMER CONNECTION.				
TP 1	TRAP PRIMER			1/2"		PRECISION PLUMBING PRODUCTS, INC. #PR-500 PRIME-RITE. PROVIDE 12"X12" WALL ACCESS PANEL PER SPECIFICATIONS, FINISH BY ARCHITECT.				
WHA 1	WATER HAMMER ARRESTOR			PER PDI		SIOUX CHIEF SERIES 650, TYPE 'L' COPPER TUBE PISTON TYPE WATER HAMMER ARRESTOR, SUITABLE FOR CONCEALED INSTALLATION, SIZE PER PDI REQUIREMENTS. ASSE 1010 LISTED. INSTALL PER MANUFACTURER RECOMMENDATIONS. PROVIDE 14"X14" WALL ACCESS PANEL PER SPECIFICATIONS, FINISH BY ARCHITECT.				
GT	GREASE TRAP	3"	2"			JR. SMITH MODEL 8220 GREASE TRAP, RECESSED FLUSH WITH GRADE, 20 GPM, 40 LBS GREASE CAPACITY, 3" NO-HUB ADAPTER INLET/OUTLET, WITH FLOW CONTROL DEVICE (MUST BE VENTED). PROVIDE H-20 TRAFFIC RATED LID AND EXTENSIONS AS NEEDED.				
1 1	THERMOSTATIC MIXING VALVE			3/4"	3/4"	POWERS MODEL LFMM432, LEAD-FREE MASTER THERMOSTATIC MIXING VALVE, MINIMUM 0.5 GPM FLOW, MAXIMUM 9.49 GPM FLOW AT 1 PSI PRESSURE LOSS, ASSE 1017 LISTED, CA AB-1953 COMPLIANT. SET OUTLET TEMPERATURE TO 105°F. PROVIDE TRERICE THERMOSTAT DOWNSTREAM OF MIXING VALVE.				
PRV 1	Pressure Reducing Valve			1/2"–2"		WATTS SERIES LFU5B, LEAD FREE, DIRECT OPERATED WATER PRESSURE REDUCING VALVE. PROVIDE WITH STRAINER. SET PRV TO 75 PSI. SEE PLAN FOR SIZE.				

PL	PLUMBING LEGEND						
SYMBOL	ITEM	ABBR.					
	-FIXTURE DESIGNATION						
	NUMBER						
	- DETAIL DESIGNATION						
$\left \left(\begin{array}{c} P - 1 \end{array} \right) \right $	DETAIL NUMBER						
	SHEET NO. WHERE SHOWN	0.11					
-CW—-—	DOMESTIC COLD WATER	CW					
-HW	DOMESTIC HOT WATER	HW					
-TW	DOMESTIC TEMPERED WATER	TW					
	DOMESTIC HOT WATER SUPPLY	HWS					
	DOMESTIC HOT WATER RETURN	HWR					
V	VENT	V					
G	GAS	G					
— MG —	MEDIUM PRESSURE GAS	MG					
LPG	LIQUID PROPANE GAS	LPG					
— s —	SEWER	S					
—-GW—	GREASE WASTE	GW					
—0S—	OIL/SAND WASTE	0S					
	ACID WASTE	AW					
— SD —	STORM DRAIN	SD					
	ROOF DRAIN	RD					
	OVERFLOW DRAIN	OD					
	CONDENSATE DRAIN	С					
D	SECONDARY DRAIN	D					
	TEMPERATURE & PRESSURE RELIEF						
	FIRE SPRINKLER	FS					
	PIPE CAP						
0	PIPE RISER/DROP	(R)/(D)					
— <u> </u>	, SHUT-OFF VALVE IN BOX	SOV					
FCO O	FLOOR CLEANOUT	FC0					
	CLEANOUT TO GRADE	COTG					
ୁୁ	WALL CLEANOUT	WCO					
	CLEANOUT	CO					
○ +	HOSE BIBB @ +18" AFF	HB					
⊷⊳	OVERFLOW DRAIN OUTLET						
၊ပ်၊	BALL VALVE						
	GATE VALVE						
ZZ	CHECK VALVE						
	MIXING VALVE						
	SHUT-OFF COCK						
v ©	CIRCULATION PUMP						
ki ki	BALANCING VALVE						
	TRAP PRIMER	TP					
	TYPICAL	(TYP)					
	VENT THRU ROOF	VTR					
	UNDERGROUND	UG					
	CONTINUATION						
	NEW	(N)					
	EXISTING	(N) (E)					
	POINT OF DIS/CONNECTION	POD/POC					
	WHA SIZING						

VVHA S	SIZING FIXTURE UNITS (PER FIXTURE) 8 4 2 FIXTURE UNITS (PER ARRESTOR) 1–11 12–32 33–60				
FIXTURE TYPE					
WATER CLOSET	8				
URINAL	4				
LAVATORY	2				
PDI SIZE					
A	1-11				
В	12-32				
С	33-60				
D	61-113				
E	114-154				
F	155-330				

NOTES: 1. PROVIDE WATER HAMMER ARRESTORS AS REQUIRED IN SPECIFICATIONS. . WATER HAMMER ARRESTOR SIZING SHALL BE THE MORE STRINGENT OF THE TABLE ABOVE AND CURRENT PDI (PLUMBING & DRAINAGE INSTITUTE)

REQUIREMENTS. 3. LOCATE WATER HAMMER ARRESTORS AS CLOSE TO BRANCH PIPING AS POSSIBLE.

		F	۷L۷	MB	IN
	THIS CONTR/ INCLUDING, I				WITH
		Californi, Californi,			
A	.3. 2019 (Californi, Californi,	A PLUM	BING C	ODE
A	.5. 2019 (Californi, Californi,	A GREE	n buil	DINC
A	.7. NATION	AL FIRE F	PROTEC	rion as	SS0(
	ALL MATERIA		EQUIPMI	ENT INS	STAL
	MECHANICAL, ACCEPTANCE ITEMS INSTAI	. THE CC	ONTRACT	OR SH	ALL
C.		NG CONTI	RACTOR	SHALL	PR
D.	CHECK AND LOCATION AN	VERIFY E	XISTING	COND	ITIOI
	ANY CHANGE	S REQUI	RED MU	IST FIR	ST I
	SHALL BE F	OLLOWED	AS CLO	OSELY .	AS
	SUBMIT MAN CAPACITY, O	UFACTURE	ER'S PF	RODUCT	DA
	SCHEDULED	ARE MINI	MUM C	APACITY	, Fl
	ALL EQUIPMI	ENT IS TO	D BE IN	ISTALLE	DA
	SYSTEM. ALL AND INSTALL	. Equipmi	ENT OR	ACCES	SOF
H.	CONTROLS A	ND VERIF	Y THAT	ALL S	AFE
	PLUMBING C OBSERVATION	I. COORD	INATE T	HE EX/	SY: ACT
١.	ACCESS TO CHECK ALL	SYSTEMS	FOR L	EAKS. (
	SYSTEMS AS	ING PROF	PERLY.		
	BEFORE COM) ENSURE	E THAT	THESE	CAN
	TO AVOID FF	RE NOT A	IS SHOW	VN.	
K.	COORDINATE WORK PERFO	DRMED N	OT IN A	CCORD	ANC
	INSTALL PIPI CONNECTED	NG TO AI	LLOW F		
	MAKE ALL C TRAPS, DRAI	ONNECTIC	NS TO		
	REFER TO A	RCHITECT	URAL D	RAWING	
0.	PIPING INSU	LATION (II	NTERIOF	r appli	
0	WHEN '	FIBER IN: TESTED IN M MOISTU	N ACCO	RDANCE	E WI
0	.2. VAPOR	BARRIER RE VAPOF	JACKET	: WHIT	ΕK
0	.3. INSULA 0.3.1. D(rion thic	KNESS	SCHED	ULE
	0.3.1.1.	1-1/2	2 INCH	THICKN	IESS
	0.3.1.2. 0.3.2. D(DMESTIC		ATER L	AOO.
	0.3.2.1. 0.3.2.2.	3/4	H THICH NCH TH	IICKNES	SS F
Ρ.	INSULATE DO	TH MOLDI	ed sing	GLE PIE	CE
Q.	OR EQUAL. I FIXTURES, D	OMESTIC	WATER	PIPING	AN
	WITH CALIFO WATER SYST	EM COMP	ONENTS	.	
	PROVIDE CO AT PIPE CO	NECTION	ON WA	ATER SI	UPP
	PROVIDE CHI FIXTURE FITT				
	PROVIDE WA		MER AR	RESTOR	S F
	PROVIDE PIP PARTITIONS.	FINISH FI	LUSH A	t both	I EN
W.	SPACE BETW				
	FEET (6 MET PROVIDE NO	rers) an	d at li	east o	NCE
	ALL PLUMBIN TO THE BUI	NG VENTS			
	ALL EXPOSE	d materi			
	PROVIDE VIB AND HAS WA				
		KIT	СН	EN	E

	KITCHEN EQUIPMENT SCHEDULE								
EQUIP. NO.	DESCRIPTION	S or W	IND. WASTE	V	CW	HW	GAS (MBH)		
P2	HAND SINK	2"		1-1/2"	1/2"	1/2"			
P3	POTWASH SINK		2"		3/4"	3/4"			
P4	PREP SINK		2"		1/2"	1/2"			
P5	ICE MAKER		1/2"		1/2"				
 NOTES: 1. COORDINATE CLOSELY WITH KITCHEN EQUIPMENT COMPANY FOR EQUIPMENT LOCATIONS, CONNECTION SIZES AND REQUIREMENTS. 2. SEE KITCHEN EQUIPMENT PLANS FOR EQUIPMENT SCHEDULE AND REQUIREMENTS. 3. PROVIDE INDIVIDUAL SHUT-OFF VALVES AT ALL CW, HW & GAS CONNECTIONS. 4. COORDINATE WITH KITCHEN EQUIPMENT PLUMBING PLAN FOR PLUMBING ROUGH-IN DIMENSIONS. 									

MBING GENERAL NOTES

PLY WITH ALL CODES AND REGULATIONS IN EFFECT AT THE JOB SITE,

- CODE NICAL CODE
- G CODE ICAL CODE
- BUILDING STANDARDS ENERGY EFFICIENCY STANDARDS - TITLE 24 ASSOCIATION
- RSHAL I INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ALL DAMAGED CONTRACT WITHOUT ADDITIONAL COST TO OWNER.
- SHALL PROVIDE THE OWNER COPIES OF OPERATION, MAINTENANCE AND ANUALS FOR EACH MODEL AND TYPE OF PLUMBING EQUIPMENT.
- CONDITIONS AT THE JOB SITE BEFORE BEGINNING WORK. ADJUST THE OF THE WORK NECESSARY TO SUIT ACTUAL CONDITIONS AND OTHER TRADES. FIRST BE APPROVED BY THE ARCHITECT OR ENGINEER. , PIPING, AND SYSTEMS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND ELY AS POSSIBLE. CHANGES REQUIRED TO SUIT EXISTING CONDITIONS AND
- THER TRADES SHALL BE MADE AT NO EXTRA COST TO THE OWNER. DUCT DATA INCLUDING NAME OF MANUFACTURER, TRADE NAME, MODEL, , WEIGHTS, INSTALLATION AND STARTUP DATA. EQUIPMENT PERFORMANCES ACITY, FLOW, EFFICIENCY, ETC. REQUIRED. WEIGHTS AND ELECTRICAL DATA
- ABLE OR ALLOWABLE. ALLED AS RECOMMENDED BY THE MANUFACTURER. USING ALL ACCESSORY E MANUFACTURER FOR SUPPORTS, CONTROLS, ETC., TO MAKE A COMPLETE ACCESSORIES NEEDED AND NOT SHOWN OR SPECIFIED SHALL BE FURNISHED RACTOR. ADJUST THE EQUIPMENT FOR PROPER OPERATION, CHECK ALL _ SAFETY DEVICES ARE FUNCTIONING PROPERLY.
- ACCESS THROUGH FLOORS, WALLS OR CEILINGS IS REQUIRED TO ACCESS THER SYSTEMS REQUIRING ACCESS FOR MAINTENANCE, TESTING OR EXACT TYPE AND LOCATION OF ACCESS DOORS TO PROVIDE PROPER
- S. CORRECT ANY DEFICIENCIES AS SOON AS DISCOVERED. OPERATE THE ONSTRATE TO THE OWNER AND ARCHITECT OR ENGINEER THAT THE SYSTEM
- HECK INVERT ELEVATIONS REQUIRED FOR SEWER CONNECTIONS, CONFIRM HESE CAN BE PROPERLY CONNECTED WITH SLOPE FOR DRAINAGE AND COVER LOCATION OF ALL SERVICES. NO EXTRA COSTS SHALL BE ALLOWED IF
- NGING UTILITY SERVICES WITH UTILITY PROVIDER AS SOON AS POSSIBLE. ALL CORDANCE WITH THE UTILITY COMPANIES REQUIREMENTS PRIOR TO Y COMPANY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. R EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS, OR
- QUIPMENT AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER AS FAR AS INECTIONS, ETC. AND AS REQUIRED BY THE EQUIPMENT AND LOCATION. WINGS FOR EXACT LOCATIONS, FIXTURE MOUNTING HEIGHTS AND ADA
- PPLICATIONS): ASTM C 547 AND ASTM C 795. 'K' ('KSI') VALUE: 0.24 AT 75 DEGREES F. DANCE WITH ASTM C 177. MAXIMUM SERVICE TEMPERATURE: 850 DEGREES F. RPTION: 0.20 PERCENT BY VOLUME. WHITE KRAFT PAPER WITH GLASS FIBER YARN, BONDED TO ALUMINIZED FILM;
- ISSION WHEN TESTED IN ACCORDANCE WITH ASTM E 96/E 96M OF 0.02. CHEDULES: TEMPERED WATER SUPPLY:
- ICKNESS FOR PIPING 1 INCH AND LARGER. ESS FOR PIPING LESS THAN 1 INCH.
- FER LOCATED IN UNHEATED AREAS:
- ESS FOR PIPING 1-1/2 INCHES AND LARGER. KNESS FOR PIPING 1 INCHES AND SMALLER.
- TEMPERED WATER AND WASTE PIPING BELOW HANDICAPPED PLUMBING PIECE REMOVABLE INSULATION COVERS, FOAM, FIRE RESISTANT, TRUEBRO, I COVERS IN ACCORDANCE WITH CBC ACCESS REQUIREMENTS. IPING AND COMPONENTS SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE ISLATION WHICH LIMITS THE ALLOWABLE LEAD CONTENT IN CERTAIN DOMESTIC
- CONTROL STOP VALVES WITH IPS INLETS AND THREADED BRASS NIPPLES SUPPLIES TO EACH FIXTURE.
- INISH ON FITTINGS AND ACCESSORIES EXPOSED TO VIEW. CONFORM TO ASME A112.18.1M AND ASME A112.19.5, AS APPLICABLE. STORS PER SPECIFICATIONS AND IN ACCORDANCE WITH PDI-WH201
- PIPES AND TUBING PASS THROUGH WALLS, FLOORS, ROOFS, AND BOTH ENDS. EXTEND 2 INCHES (50 MM) ABOVE FINISHED FLOORS. PACK NG AND SLEEVE, AND CALK.
- DECALS. INSTALL LABELING ON PIPE AT INTERVALS OF NOT MORE THAN 20 ONCE IN EACH ROOM AND EACH STORY TRAVERSED BY PIPELINE. LECTRIC CONNECTIONS WHEREVER JOINTING DISSIMILAR METALS. ERMINATE NOT LESS THAN 10' FROM ANY OUTSIDE AIR INTAKE OR OPENING
- . BE PREPARED WITH A PRIME COAT AND THEN PAINTED. E PIPE ISOLATION CLAMPS WHERE PLUMBING PIPE IS CONNECTED TO WALL

EQUIPMENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY
- ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.
- THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:
- A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT. B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING AND DUCTWORK DISTRIBUTION SYSTEM **BRACING NOTES**

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7–16 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

- MP MD PP E OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT □ □ 🛛 □ SPECIFIC NOTES AND DETAILS.
- MP MD PP E OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL □ □ □ □ (OPM#) #0043−13.

PLUMBING SHEET INDEX

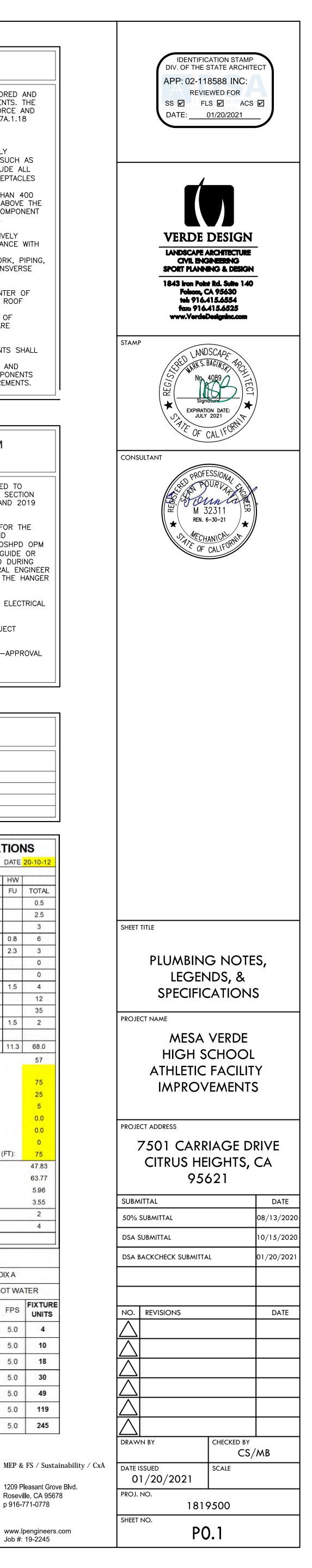
	SHEET NO.	SHEET TITLE
	P0.1	PLUMBING NOTES, LEGENDS, & SPECIFICATIONS
	P0.2	PLUMBING DETAILS
	P2.1	PLUMBING FLOOR PLAN
	P3.1	PLUMBING ROOF PLAN
L		

_	JOB NAME	: Mesa \				1	DATE	20-10-12	
ш	FIXTURE TYPE	NO.	WAS	STE	WAT				
USH USH			FU	TOTAL	BOTH FU	CW FU	HW FU	TOTAL	
1	DRINKING FOUNTAIN	1	0.5	-	0.5	0.5	FU		
-		-	0.5	0.5	2.5	2.5		0.5	
+	HOSE BIBB (FIRST)	1			121.04			2.5	
+		3	0	0	1	1.0	0.0	3	
+	LAVATORY (SINGLE)	6	1	6	1	0.8	0.8	6	
9	SERVICE SINK	1	3	3	3	2.3	2.3	3	
-	FLOOR DRAIN	4	2	8	0			0	
	FLOOR SINK RECEPTOR	3	3	9	0			0	
J	SINK, 2" TRAP	2	4	8	2	1.5	1.5	4	
U	URINAL	3	2	6	4	4.0		12	
U	WATER CLOSET, FLUSH VALVE	7	4	28	5	5.0	1	35	
-	3-COMPARTMENT SINK	1	4	4	2	1.5	1.5	2	
	TOTAL FIXTURE UNITS			72.5			11.3	68.0	
ſ	EQUIVALENT COLD WATER FLOW	RATE (GI	PM):	1.1				57	
	ADDITIONAL WATER DEMAND LOAD	D (GPM)							
	AVAILABLE STATIC PRESSURE IN WATER MAIN (PSI)								
	MINIMUM REQUIRED FIXTURE PRE	SSURE	(PSI):					25	
	ELEVATION RISE (FT):							5	
	METER LOSS (PSI):							0.0	
	BACKFLOW PREVENTER LOSS (PS	SI):						0.0	
	ADDITIONAL LOSSES (PSI):							0	
	EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):								
-	FRICTION LOSS PRESSURE AVAIL	ABLE (PS	SI):					47.83	
	MAXIMUM ALLOWABLE FRICTION L	OSS (PS	/100 F	Г):				63.77	
	WATER FLOW VELOCITY (FPS):							5.96	
	CALCULATED FRICTION HEAD LOSS (PSI/100 FT):							3.55	
	MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES):							2	
	MINIMUM REQUIRED 'WASTE' PIPE SIZE (INCHES):							4	
_	(CALCULATIONS PER THE UPC/CPC)								

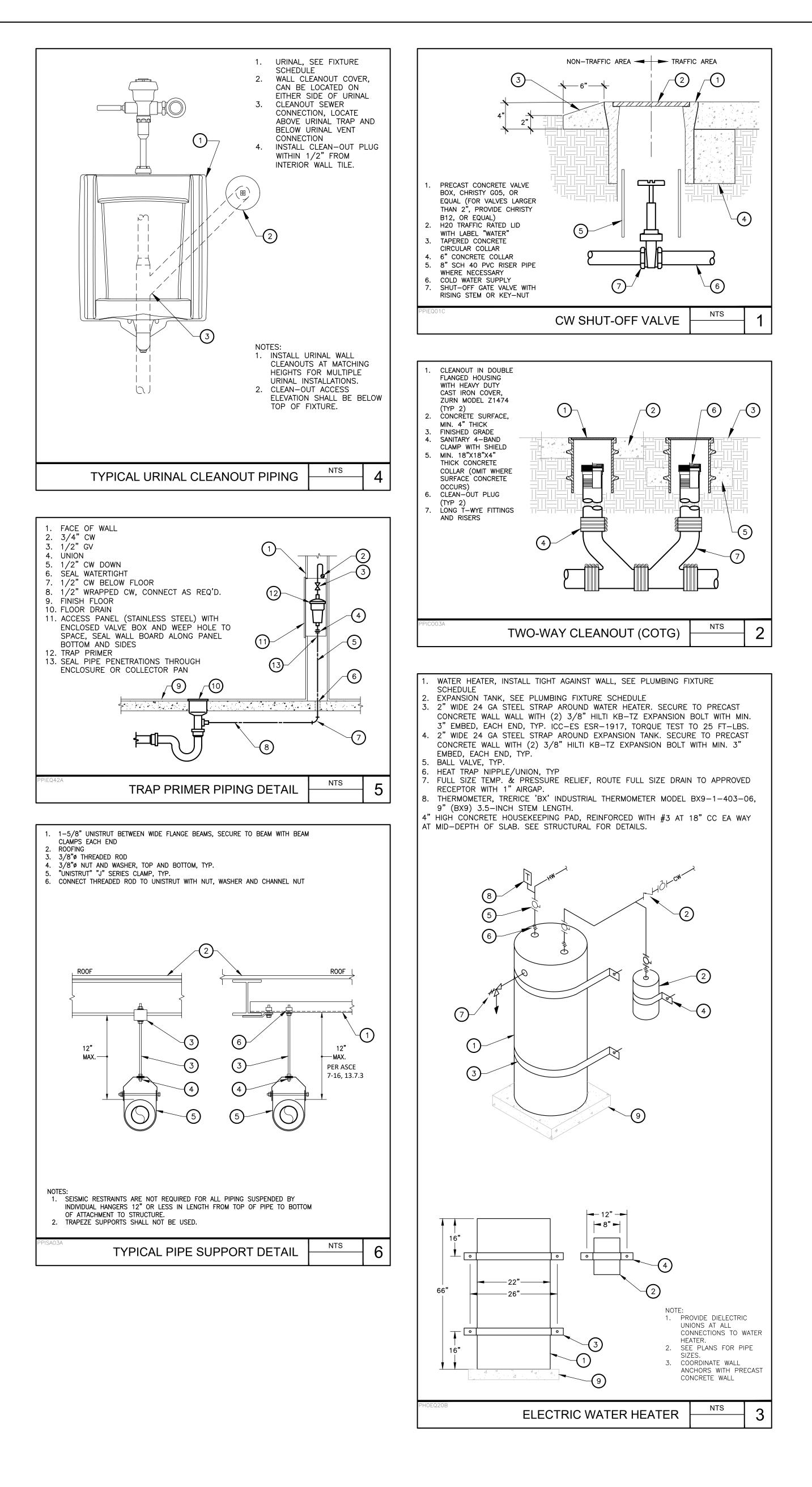
	VV F	AILK I		SIZIN	GCHA	NI.		
	PIPE SIZES	CALCULA	TED BAS	SED ON	UPC/CPC	APPEN	DIXA	
SIZE: TYPE	L COPPER		COLD	WATER	1	H	IOT WA	TER
NOMINAL DIAMETER	INTERNAL DIAMETER	GPM	FD FPS	TANK	NITS VALVE	GPM	FPS	FIXTURE
1/2"	0.545	5.8	8.0	7	0	3.6	5.0	4
3/4"	0.785	12.1	8.0	16	0	7.5	5.0	10
1"	1.025	20.6	8.0	32	0	12.9	5.0	18
1-1/4"	1.265	31.3	8.0	56	14	19.6	5.0	30
1-1/2"	1.505	44.4	8.0	103	35	27.7	5.0	49
2"	1.985	77.2	8.0	259	136	48.2	5.0	119
2-1/2"	2.465	119.0	8.0	474	358	74.4	5.0	245



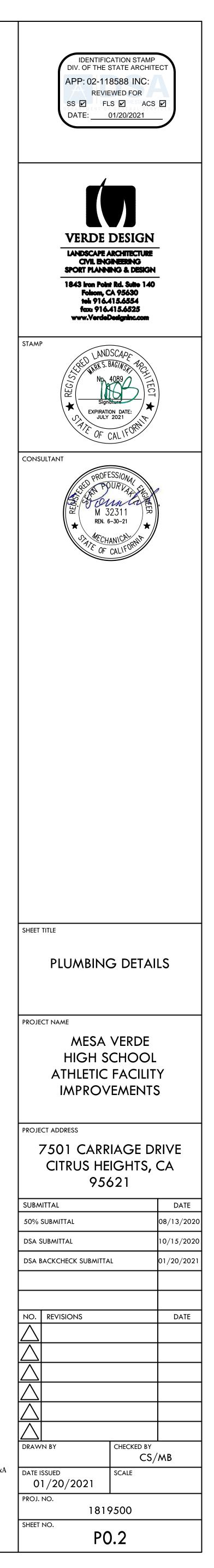
1209 Pleasant Grove Blvd. Roseville, CA 95678 p 916-771-0778

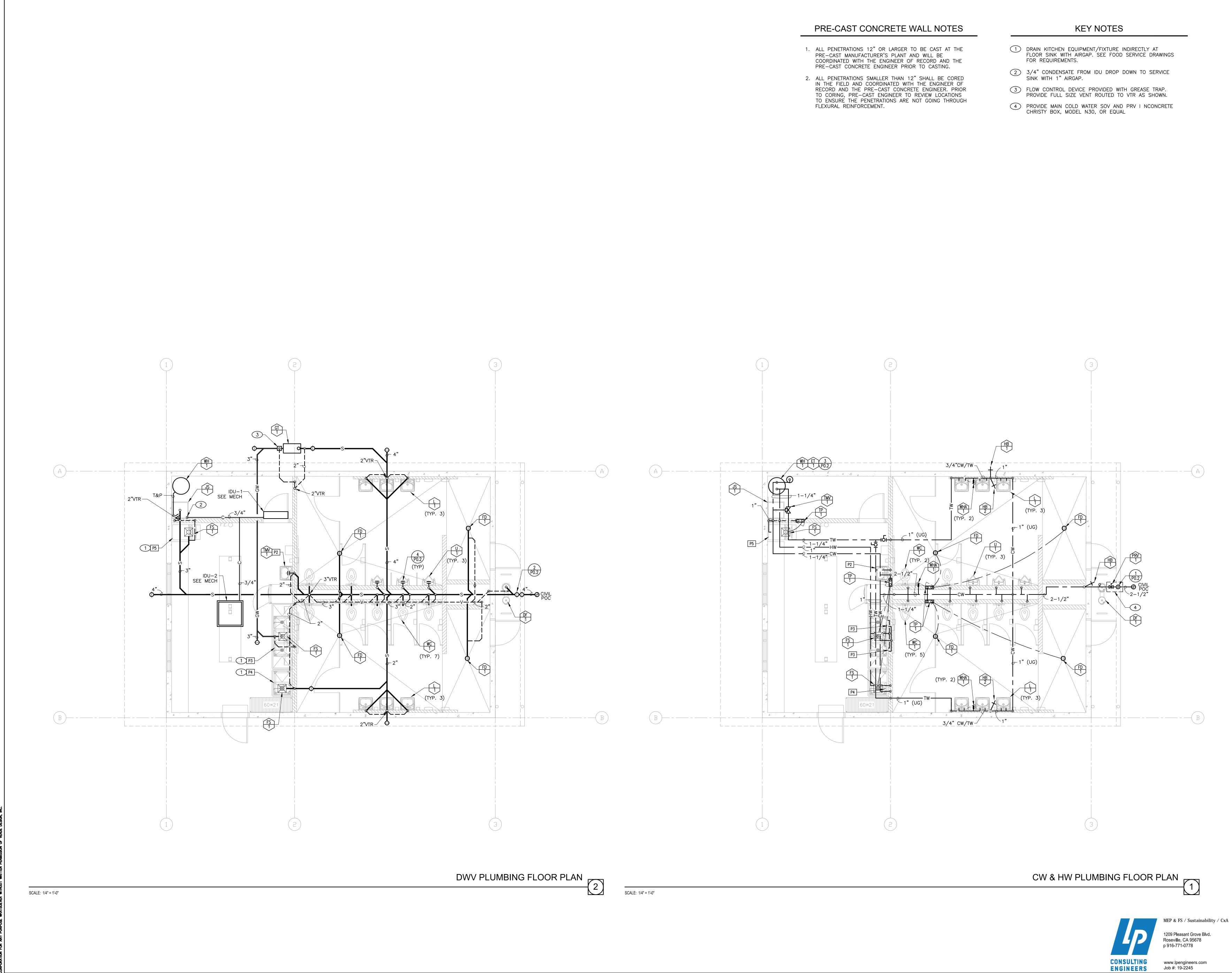


DRAWING NAME: P:\1-Project files\2019 LP Projects\19-2245 BCA_Mesa Verde CRT bldg\Mechanical\MP Sheets\192245_P0_2_(DETAILS).dwg

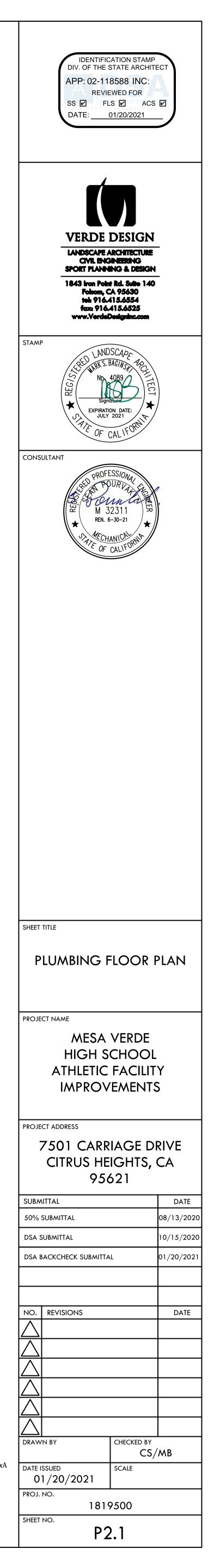




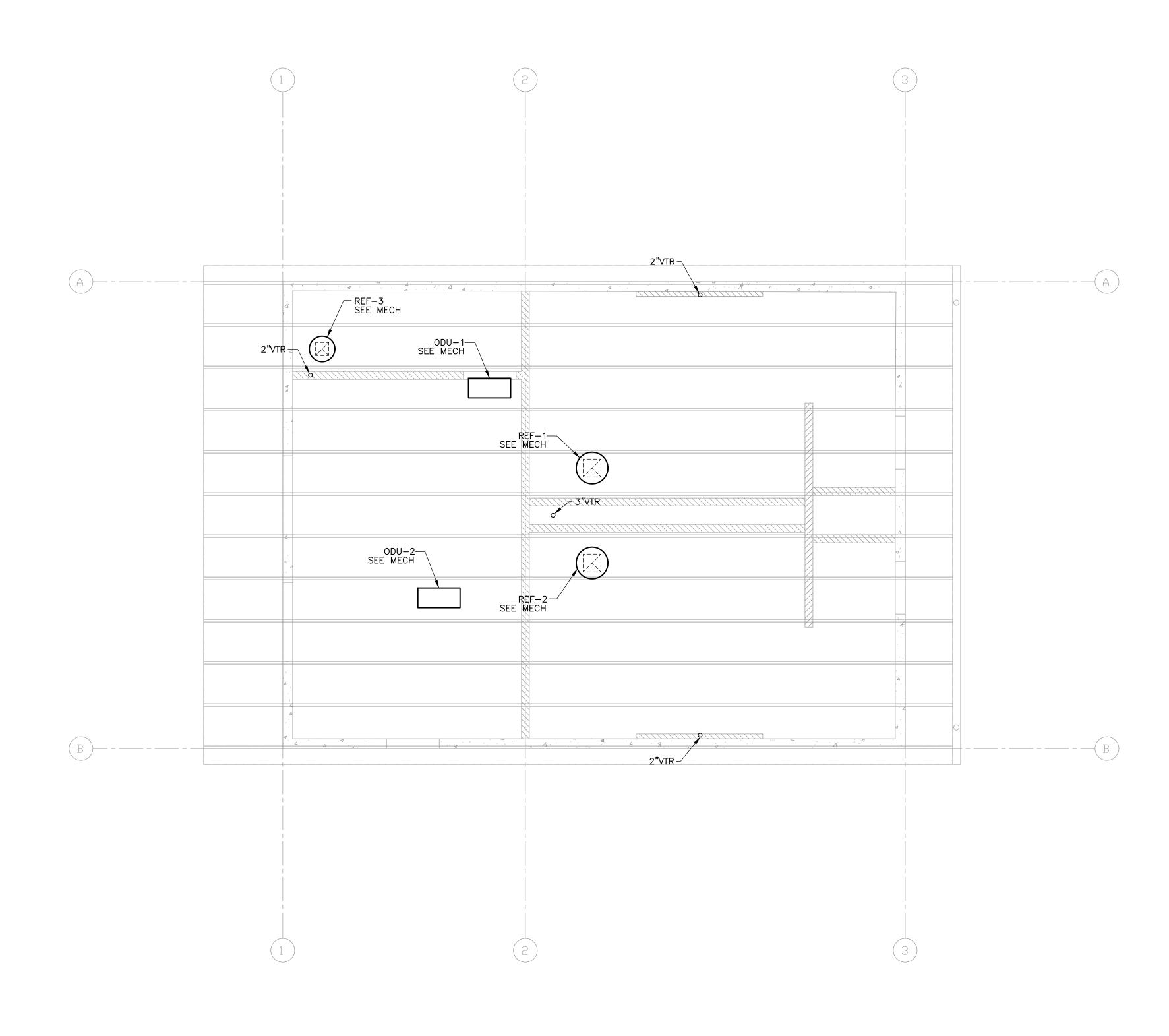








DRAWING NAME: P:\1-Project files\2019 LP Projects\19-2245 BCA_Mesa Verde CRT bldg\Mechanical\MP Sheets\192245_P3_1_(RP).dwg



SCALE: 1/4" = 1'-0"

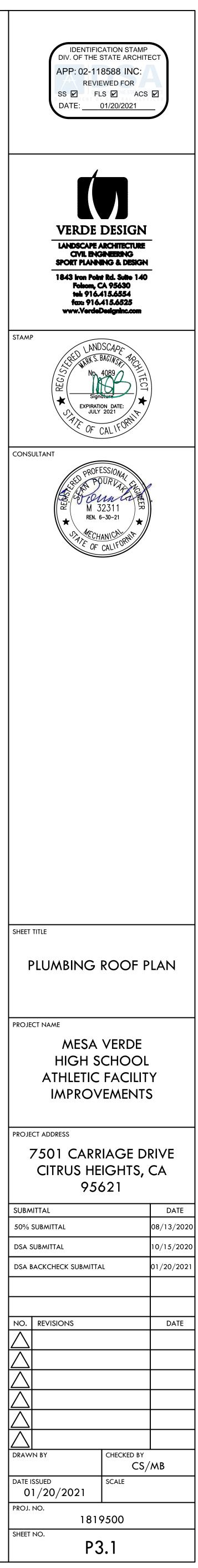
PRE-CAST CONCRETE WALL NOTES

- 1. ALL PENETRATIONS 12" OR LARGER TO BE CAST AT THE PRE-CAST MANUFACTURER'S PLANT AND WILL BE COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER PRIOR TO CASTING.
- ALL PENETRATIONS SMALLER THAN 12" SHALL BE CORED IN THE FIELD AND COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER. PRIOR TO CORING, PRE-CAST ENGINEER TO REVIEW LOCATIONS TO ENSURE THE PENETRATIONS ARE NOT GOING THROUGH FLEXURAL REINFORCEMENT.



【1】

PLUMBING ROOF PLAN



roject Name:	Mesa Verde Concession Stand	NRCC-PRF-01-E	Page 3 of 15
roject Address:	7501 Carriage Drive Citrus Heights 95621	Calculation Date/Time:	08:35, Wed, Oct 07, 2020
nput File Name:	192245_Concession Stand Mesa Verde.cibd19x		

This Section Does Not Apply

G. ENVELOPE GENERAL INFORMATION

1	2	3	
Opaque Surfaces & Orientation	Total Gross Surface Area (ft ²)	Total Fenestration Area (ft ²)	Wind
North-Facing ¹	138 ft ²	0 ft²	
East-Facing ²	0 ft ²	0 ft ²	
South-Facing ³	138 ft ²	0 ft ²	
West-Facing ⁴	266 ft ²	0 ft ²	
Total	542 ft ²	0 ft ²	
of	453 ft ²	0 ft ²	

¹ North-Facing is oriented to within 45 degrees of true north, including 45°00'00" east of north (NE), but excluding 45°00'00" west of north (NW). ² East-Facing is oriented to within 45 degrees of true east, including 45°00'00" south of east (SE), but excluding 45°00'00" north of east (NE). ³ South-Facing is oriented to within 45 degrees of true south, including 45°00'00" west of south (SW), but excluding 45°00'00" east of south (SE). ⁴ West-Facing is oriented to within 45 degrees of true west, including 45°00'00" north of due west (NW), but excluding 45°00'00" south of west (SW).

H. FENESTRATION ASSEMBLY SUMMARY §110.6

This Section Does Not Apply

. ENVELOPE DETAILS §120.7 & §1	40.3					
1. OPAQUE SURFACE ASSEMBLY SUN	MMARY					
1	2	3	4	5	6	7
Surface Name	Surface Type	Description of Assembly Layers	Area (ft ²)	Framing Type	Cavity R-Value	Continuo R-Value
8 Concrete Wall8	ExteriorWall	Concrete - 140 lb/ft3 - 8 in.	1213	NA	0	NA
Slab On Grade11	UndergroundFloor	Slab Type = UnheatedSlabOnGrade Insulation Orientation = None Insulation R-Value = R0	1233	NA	0	NA
Metal Roof13	Roof	Metal Standing Seam - 1/16 in. Metal standing seam roof, R-30	1233	NA	30	NA

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206

Project Name:	Mesa Verde C	oncession Stand				NRCC-PRF-01	-Е	Page 6 o	of 15	
Project Address:	7501 Carriage	Drive Citrus Height	s 95621			Calculation D	ate/Time:	08:35, W	Ved, Oct 07, 2020	
Input File Name:	192245_Conc	ession Stand Mesa	Verde.cibd1	9x						
K5. SYSTEM FEATU	RES §120.2						-			_
1		2		3)	4		5		
System Nam	ne O	ptimum Start		Interlocks per 40.4(n)	Evaporati	ve Cooling	н	leat Recov	very	
IDU/ODU-1	l. No	Optimum Start		NA	No Evapora	ative Cooler	No	Heat Rec	overy	N No
IDU/ODU-2	2 No	Optimum Start		NA	No Evapora	ative Cooler	No	Heat Rec	overy	N No
WH-11 - SHV	N	NA		NA	N	IA		NA	F	ixed 1
Notes: This table includes co	ontrols related to the per	formance path only. For p	projects using th	e prescriptive path, n	nandatory and press	criptive controls requ	uirements are d	locumented o	on the NRCC-MCH-E.	
K6. MECHANICAL V	ENTILATION AN	D REHEAT §120.1								
1		2		3	4	5	6		7	11
					Mecha	nical Ventilatio	on .			
Zone N	lame	Ventilation Fu	unction	# hotel rooms	# of people	# of bedrooms	Supply O	DA CFM	Exhaust CFM	C
1-Commercial S	torage - Gene	General - Occupia rooms for liquid	State and the state of the stat	0	0.09	0	14	L)	0	

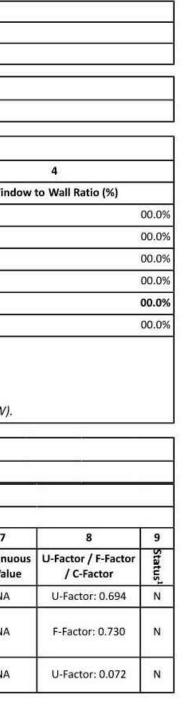
4-Kitchenette	Exhaust - Kitchenettes	0	0.91	0	0	120	1
K7. DISTRIBUTION SUMMARY §	120.4/140.4(I)						
This Section Does Not Apply							
Multifamily or Hotel/Motel Occupa	ncy? (if "Yes", see DOMESTIC/SERVI	CE HOT WATE	R SYSTEM SUMM	MARY)			

Does the Project include Zonal Systems?

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206

Project Name:	Mesa Verd	e Concession Stand				NRCC-PR	F-01-E	P	age 9 of 15	
Project Address:	7501 Carria	age Drive Citrus Heights 95621				Calculati	on Date/Tim	e: 0	8:35, Wed, Oct 07, 202	20
Input File Name:	192245_Co	ncession Stand Mesa Verde.cib	d19x							
N6. GENERAL LIGHT	ING POWER	§ 140.6-D			1					
This Section Does Not	Apply									
N7. GENERAL LIGHT	ING FROM SE	PECIAL FUNCTION AREAS § 1	40.6(c)	3H	-					
Room Number	Pr	imary Function Area	Illun	ninance Value (LUX)	Room Cav (Tabl	State of the second second	Allowed	LPD	Floor Area (ft ²)	Allow
NA		NA		NA	N	A	NA		NA	
Note: Tailored Method for Sp	ecial Function Areas	is not currently implemented								
N8. ROOM CAVITY	RATIO									
				Rect	angular Spa	aces				
Room Number	,	ask/Activity Description	Ro	om Length (ft)	(Room Wic	ith (ft)	Roor	m Cavity Height (ft)	
NA		NA		NA		NA			NA	
Non-Rectangular Sp	aces									
This Section Does Not	Apply									
Note: All applicable spaces ar	e listed under the N	on-Rectangular Spaces table								
N9. ADDITIONAL "L	ISE IT OR LOS	E IT"								
1.		2.			3.		1		4.	1
Wall Disp	lay	Combined Floor Display an Lighting	d Task	Combined O Eff	rnamental fects Lightin		al Ve	ry Valu	able Merchandise	Allo
0		0			0				0	
N10. Wall Display			5	11						
This Section Does Not	Apply		-							
N11. Floor Display a	and Task Light	ing						2		
This Section Does Not	Apply									

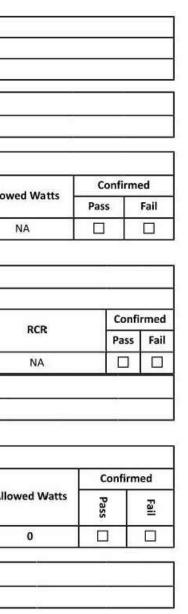
CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206



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6 Other Controls No DCV Controls, No DDC No Economizer o Supply Air Temp. Control No DCV Controls, No DDC No Economizer o Supply Air Temp. Control Temperature Control, No DDC 8 9 DCV or Occupant Conditioned Sensor Controls, or Both Area (sf) Alter The sectors 7 91 NA 362 NA No No

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Project Name:	Mesa Verde Concession Stand	NRCC-PRF-01-E	Page 2 of 15	
Project Address:	7501 Carriage Drive Citrus Heights 95621	Calculation Date	e/Time: 08:35, Wed, Oct 07, 2020	
Input File Name:	192245_Concession Stand Mesa Verde.cibd19x			
C1. COMPLIANCE F	RESULTS FOR PERFORMANCE COMPONENTS (A	nnual TDV Energy Use, kBtu/ft ²-yr)		
		COMPLIES		
	Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ¹
Space Heating		73.71	72.35	1.:
Space Cooling		91.46	69.63	21.8
Indoor Fans		213.66	84.35	129.5
Heat Rejection				
Pumps & Misc.				
Domestic Hot Water		42.38	102.89	-60.5
Indoor Lighting		54.11	54.11	
ENERGY STAN	IDARDS COMPLIANCE TOTAL	475.32	383.33	91.99 (19.4%
				() ()
¹ Notes: The numbe	er in parenthesis following the Compliance Marg	in in column 4. represents the Percent Bett	er than Standard.	
	er in parenthesis following the Compliance Marg	in in column 4. represents the Percent Bett	er than Standard.	
	ABOVE CODE' QUALIFICATIONS ¹		er than Standard. This project is pursuing CalGreen Tier 2	2
C2. RESULTS FOR '/	ABOVE CODE' QUALIFICATIONS ¹			2 Compliance Margin (TDV) ¹
C2. RESULTS FOR '/	ABOVE CODE' QUALIFICATIONS ¹ uing CalGreen Tier 1		This project is pursuing CalGreen Tier 2	
C2. RESULTS FOR '/	ABOVE CODE' QUALIFICATIONS ¹ uing CalGreen Tier 1	Standard Design (TDV)	This project is pursuing CalGreen Tier 2 Proposed Design (TDV)	
C2. RESULTS FOR '/ This project is purs Receptacle	ABOVE CODE' QUALIFICATIONS ¹ uing CalGreen Tier 1	Standard Design (TDV) 95.52	This project is pursuing CalGreen Tier 2 Proposed Design (TDV) 95.52	
C2. RESULTS FOR 'A	ABOVE CODE' QUALIFICATIONS ¹ uing CalGreen Tier 1	Standard Design (TDV) 95.52 86.70	This project is pursuing CalGreen Tier 2 Proposed Design (TDV) 95.52 86.70	
C2. RESULTS FOR '/ This project is purs Receptacle Process Other Ltg Process Motors	ABOVE CODE' QUALIFICATIONS ¹ uing CalGreen Tier 1	Standard Design (TDV) 95.52 86.70	This project is pursuing CalGreen Tier 2 Proposed Design (TDV) 95.52 86.70	Compliance Margin (TDV) ¹
C2. RESULTS FOR '/ This project is purs Receptacle Process Other Ltg Process Motors COMPLIANCE TOTAL	ABOVE CODE' QUALIFICATIONS ¹ uing CalGreen Tier 1 Miscellaneous Energy Component	Standard Design (TDV) 95.52 86.70 76.21 733.75	This project is pursuing CalGreen Tier 2 Proposed Design (TDV) 95.52 86.70 76.21 	
C2. RESULTS FOR '/ This project is purs Receptacle Process Other Ltg Process Motors COMPLIANCE TOTAL	ABOVE CODE' QUALIFICATIONS ¹ uing CalGreen Tier 1 Miscellaneous Energy Component PLUS MISCELLANEOUS COMPONENTS s used to document compliance with programs of	Standard Design (TDV) 95.52 86.70 76.21 733.75	This project is pursuing CalGreen Tier 2 Proposed Design (TDV) 95.52 86.70 76.21 	Compliance Margin (TDV) ¹

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This Section Does Not Apply

Project Name:	Mesa Verde C	oncession Sta	ind				NF	RCC-PRF-01-E	E.	Page	5 of 15			
Project Address:	7501 Carriage	Drive Citrus l	Heights !	95621			Ca	lculation Dat	te/Time:	08:35	5, Wed, Oct	07, 2020		
Input File Name:	192245_Conc	ession Stand	Mesa Ve	erde.cibd19x										
K1. Dry System Eq	uipment (furnace	s, air handli	ng unit	s, heat pumps	, VRF, et	c.)							1 1	
			ĵ	Dry System Equi	oment ¹ (I	an & Economiz	er info	o included be	elow in Ta	ble N)			· ·	
1	2		3	4		5		6			7	8	9	10
				1			Heatin	ng				Cooli	ng	s
Equipment Name	Equipmer	it Type	Qty	Total Heating (kBtu/h	200 Contraction of the second	Supp Heat Sou (Y/N)	urce	Supp Heat ((kBtuh		Effi	ciency	Total Cooling Output (kBtu/h)	Efficiency	Status ⁵
IDU/ODU-1	SZHP (Split	3Phase)	1	15		No		0		HSP	F-10.20	12	SEER-20.80 / EER-12.00	N
IDU/ODU-2	SZHP (Split	3Phase)	1	20		No		0		HSP	F-11.00	17	SEER-24.60 / EER-14.40	N
K2. ECONOMIZER	& FAN SYSTEMS S	SUMMARY §	140.4 ¹ 4	5	6	7		8	9	1	10	11	12	13
-	System Type	Design OA		<u></u>	pply Fan			Ť	-	Re	eturn Fan			
Name or Item Tag	packaged, DOAS, etc.	CFM	CFM	1	Watts	1	ol	CFM	вн	1	Watts	Control	Economizer Typ (if present)	Status ⁵
IDU/ODU-1	SZHP	14	370	0.040	34.9	ConstantV	olume	NA	NA	5	NA	NA	NoEconomizer	N
IDU/ODU-2	SZHP	0	570	0.067	58.4	ConstantV	olume	NA	NA	8	NA	NA	NoEconomizer	N
Status: N - New, A – Alter	ed, E – Existing					11								
K3. EXHAUST FAN	SUMMARY													
1				2		3	4	4	5		6		7	
System	n ID		Zon	e Name		Qty	CF	M	Motor	внр	Motor	Watts Total St	atic Pressure (in H	20)
Riter	0.7.40.0.0.4957.400		Vg II. Marian	decenter.			112.6	20	0.10	2	100	27513	4.20	

Sta		mps	Pun		Standby Loss	Efficiency	Rateu capacity	Vol (gal)	Qty	Equipment Type	Name or Item Tag
					e		Rated Capacity	e			
12	11	10	9	8	7	6	5	4	3	2	1
- *	(4) (4)		5) j		W -			rs, etc.)	ng towei	boilers, chillers, coolir	. Wet System Equipment (
_	4.30			109.0	0.125	120			4-Kitcher	-	Kitchenette28

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	Mesa Verde Concession Stand		NRCC-PRF-01-E	Page 8 of 15		
Project Address:	7501 Carriage Drive Citrus Heights	s 95621	Calculation Dat	te/Time: 08:35, Wed, Oct 0	7, 2020	
Input File Name:	192245_Concession Stand Mesa \	/erde.cibd19x				
N. INDOOR LIGHTING	SUMMARY §140.6					
N1. INDOOR CONDITIO	DNED LIGHTING GENERAL INFO	§ 140.61				
				-		C
1	2	3	4		5	Î
	Conditioned Floor Area ²	Installed Lighting Power	Lighting Control Credits	Additional (Cu	stom) Allowance	
Occupancy Type ¹	(ft ²)	(Watts)	(Watts)	Area Category Footnotes (Watts)	Tailored Method (Watts)	1
Commercial/Industrial Storage (Warehouse)	91	41	0	0	0	1
	2	10.000	7.6	1.4	12	
Kitchenette or Residentia Kitchen	362	344	0	0	0	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi	362 als: 453 aned spaces	344 385	0 0	0	0 0	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi Lighting information for existing	362 als: 453 aned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE § 13	385		8	-	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi Lighting information for existing N2. INDOOR CONDITIO This Section Does Not Ap	362 als: 453 aned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE § 13	385	0	8	-	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi Lighting information for existing N2. INDOOR CONDITIO This Section Does Not Ap If lighting power densities were to	362 als: 453 aned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE § 13 ply	385 30.0 tments will need to check prescriptive fi	0	8	-	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi Lighting information for existing N2. INDOOR CONDITIO This Section Does Not Ap If lighting power densities were to	362 als: 453 aned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE § 13 ply rsed in the compliance model Building Depar DNED LIGHTING CONTROL CREI	385 30.0 tments will need to check prescriptive fi	0	8	-	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi Ughting information for existing N2. INDOOR CONDITION This Section Does Not Ap If lighting power densities were to N3. INDOOR CONDITION This Section Does Not Ap	362 als: 453 aned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE § 13 ply rsed in the compliance model Building Depar DNED LIGHTING CONTROL CREI ply	385 30.0 tments will need to check prescriptive fi DITS § 140.6	O orms for Luminaire Schedule details.	8	-	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi Ughting information for existing N2. INDOOR CONDITION This Section Does Not Ap If lighting power densities were to N3. INDOOR CONDITION This Section Does Not Ap	362 als: 453 aned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE § 13 ply rsed in the compliance model Building Depar DNED LIGHTING CONTROL CREI	385 30.0 tments will need to check prescriptive fi DITS § 140.6	O orms for Luminaire Schedule details.	8	-	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi Ughting information for existing N2. INDOOR CONDITION This Section Does Not Ap If lighting power densities were N3. INDOOR CONDITION This Section Does Not Ap N4: INDOOR CONDITION This Section Does Not Ap	362 als: 453 aned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE § 13 ply rsed in the compliance model Building Depar DNED LIGHTING CONTROL CREI ply DNED LIGHTING MANDATORY L ply	385 30.0 tments will need to check prescriptive fi DITS § 140.6	0 orms for Luminaire Schedule details.	8	-	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi Ughting information for existing N2. INDOOR CONDITION This Section Does Not Ap If lighting power densities were N3. INDOOR CONDITION This Section Does Not Ap N4: INDOOR CONDITION This Section Does Not Ap	362 als: 453 aned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE § 13 ply rsed in the compliance model Building Depar DNED LIGHTING CONTROL CREI ply DNED LIGHTING MANDATORY L	385 30.0 tments will need to check prescriptive fi DITS § 140.6	0 orms for Luminaire Schedule details.	8	-	
Kitchen Building Tot See Table 140.6-C See NRCC-LTI-01-E for unconditi Lighting information for existing N2. INDOOR CONDITIO This Section Does Not Ap If lighting power densities were to N3. INDOOR CONDITIO This Section Does Not Ap N4: INDOOR CONDITIO This Section Does Not Ap S130.1(a) = Manual area controls	362 als: 453 aned spaces spaces modeled is not included in the table DNED LIGHTING SCHEDULE § 13 ply rsed in the compliance model Building Depar DNED LIGHTING CONTROL CREI ply DNED LIGHTING MANDATORY L ply	385 30.0 tments will need to check prescriptive for DITS § 140.6 .IGHTING CONTROLS § 130.	0 orms for Luminaire Schedule details. 1 1 ; \$130.1(e) = Demand Responsive	0	-	

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Additional "use it or lose it" (See Table G)

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

	1209 Pleasant Grove Blvd Roseville, CA 95678 p 916-771-0778
CONSULTING	www.lpengineers.com
Engineers	Job #: 19-2245

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MEP & FS / Sustainability / CxA 1209 Pleasant Grove Blvd. Roseville, CA 95678 р 916-771-0778

TITLE 24 SHEET INDEX

SHEET TITLE

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206

L. DOMESTIC/SERVICE HOT WATER SYSTEM SUMMARY L1. DHW EQUIPMENT SUMMARY 3 4 5 6 7 8 9 10 11 1 2 **Tank Insulation** Tank Location Heat Pump Tank Vol **Rated Input** Standby Loss leater Elemer **DHW Name** Tank Type Efficiency **R-value** or Ambient (gal) (kBtu/h) Fraction Туре Type (Int/Ext) Condition 50.00 18.0 (kW) Thrml. Eff.: 0.99 NA 50 Gallon Electric2 Storage SBLF: 0.020 NA Electricity NA L2. MULTI-FAMILY CENTRAL DHW SYSTEM DETAILS This Section Does Not Apply L3. SOLAR HOT WATER HEATING SUMMARY This Section Does Not Apply M. COVERED PROCESS SUMMARY §140.9 This Section Does Not Apply

SHEET NO.

T24.2

T24.3

T24.1 TITLE 24 COMPLIANCE CALCULATIONS

T24.4 TITLE 24 COMPLIANCE CALCULATIONS

TITLE 24 COMPLIANCE CALCULATIONS

TITLE 24 COMPLIANCE CALCULATIONS

Mesa Verde Concession Stand

Project Name:

Project Address:	7501 Carriage Drive	Citrus Heights 95621	5			Calculation Date/Time:	08:35, Wed, Oct 07, 2	2020			
Input File Name:	192245_Concession	Stand Mesa Verde.ci	bd19x								
K8. ZONAL SYSTEM AN	ID TERMINAL UNIT	SUMMARY § 140.	4				24				
1	2	3	4	5	6	7	8	9	10	11	12
Sustan ID	Zana Nama	Custom Tuno	72236 W.A	Capacity tuh)		Airflow (cfm)			F	an	
System ID	Zone Name	System Type	Heating	Cooling	Design	Min.	Min. Ratio	BHP	Watts	Cycles	ECM Motor
1-Commercial Storage - Gene-Trm	1-Commercial Storage - Gene	Uncontrolled	NA	NA	370	NA	0.00	NA	NA	NA	
4-Kitchenette-Trm	4-Kitchenette	Uncontrolled	NA	NA	570	NA	0.00	NA	NA	NA	

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R-13 Wall151	ExteriorWall	Vapor permeable felt - 1/8 in. Wood framed wall, 16in. OC, 3.5in., Gypsum Board - 1/2 in.	R-13 360	Wood	13	NA	U-Factor: 0.102	N
Status: N - New, A – Altered, E – Existing								
12. OVERHANG DETAILS								
This Section Does Not Apply								
13. OPAQUE DOOR SUMMARY								
1		2			(p) = () () = (p		3	
Assembly Name		Overall L	l-factor				Status ¹	
Metal Door32		0.70	00				N	
	- 28							
J. CRRC ROOFING PRODUCT SUMM	ARY 5140.3							
1		2	3		4		5	
Assembly	Name	Roof Pitch A	ged Solar Reflectan	e Ther	mal Emittance	8	SRI	
Metal Ro	of13	Low-Slope	0.65		0.75		Not Provided	
K. HVAC SYSTEM SUMMARY §110.1	& §110.2							
3								

NRCC-PRF-01-E Page 4 of 15 Project Name: Mesa Verde Concession Stand Calculation Date/Time: 08:35, Wed, Oct 07, 2020 Project Address: 7501 Carriage Drive Citrus Heights 95621 Input File Name: 192245_Concession Stand Mesa Verde.cibd19x I. ENVELOPE DETAILS §120.7 & §140.3 **11. OPAQUE SURFACE ASSEMBLY SUMMARY** 4 5 6 7 8 1 2 3 Framing Type Cavity Continuous U-Factor / F-Factor Surface Name Surface Type **Description of Assembly Layers** Area (ft²) R-Value R-Value / C-Factor Stucco - 7/8 in. Vapor permeable felt - 1/8 in. R-13 Wall15 Wood 13 U-Factor: 0.095 InteriorWall 266 NA Wood framed wall, 16in. OC, 3.5in., R-13 Gypsum Board - 1/2 in. Stucco - 7/8 in. Vapor permeable felt - 1/8 in.

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Not Included Solar Ready S110.10 NRCC-SRA-E is required

Mesa Verde Concession Stand

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Project Name:

Proje	ect Address:	7501 Carria	ge Drive Citrus	Heights 95621			Calculation D	Date/Time:	08:35, Wed	. Oct 07, 2020	
Inpu	t File Name:	192245_Co	ncession Stand	d Mesa Verde.cibd19x			_				
2 23											
A. G	ENERAL INFORMAT	ION		,			1				
1.	Project Location (cit	y)		Citrus Heights		8.	Standards Ve	ersion		Compliance2019	
2.	CA Zip Code			95621	1111	9.	Compliance !	Software (ve	rsion)	EnergyPro 8.1	
3.	Climate Zone			12		10.	Weather File			SACRAMENTO-ME	FRO_724839_CZ2010.epw
4.	Total Conditioned FI	loor Area in	Scope	453 ft ²	1	11.	Building Orie	entation (deg)	(N) 0 deg	
5.	Total Unconditioned	l Floor Area		780 ft ²		12.	Permitted Sc	ope of Work	1	NewComplete	
6.	Total # of Stories (Ha	abitable Abo	ove Grade)	1		13	Building Type	e(s)		Nonresidential	
7.	Total # of dwelling u	inits		0	1	14	Gas Type			NaturalGas	
	÷				8						
B. P	ROJECT SUMMARY										
	e Instructions: Table B nit application.	shows whic	h building con	ponents are included in the performance of	alcula	ation.	. If indicated a	as not include	ed, the projec	t must show complie	ance prescriptively if within
		Buile	ding Compone	nts Complying via Performance					Building (Components Comply	ing Prescriptively
			Performance			Per	formance				eligible for prescriptive
Enve	lope		Not Included	Covered Process: Commercial Kitchens		Not	t Included		permit appli		e NRCC form listed if within the ce will not be shown on the
			Performance			Per	formance	Indoor Light	ing (Uncondi	tioned)§140.6	NRCC-LTI -E is required
Mec	hanical		Not Included	Covered Process: Computer Rooms		Not	t Included	Outdoor Lig	hting §140.7		NRCC-LTO-E is required
0.000			Performance			Per	rformance	Sign Lighting	g §140.8		NRCC -LTS-E is required
Dom	estic Hot Water		Not Included	Covered Process: Laboratory Exhaust	\boxtimes	Not	t Included			Mandatory Meas	ures
Light	ing (Indoor Condition	ed)	Performance					mandatory (and should be		solar ready requirements are NRCC form listed if applicable C-PRF-E.)
			Not Included					Electrical Po	wer Distribut	ion \$110.11	NRCC-ELC-E is required
Color	Thermal Water Heati		Performance					Commission	ing S120.8		NRCC-CXR-E is required
pola	mermai water neati	ing N	New Inchesters				1	Calax Decide	C110.10		AIRCO CRA E is serviced

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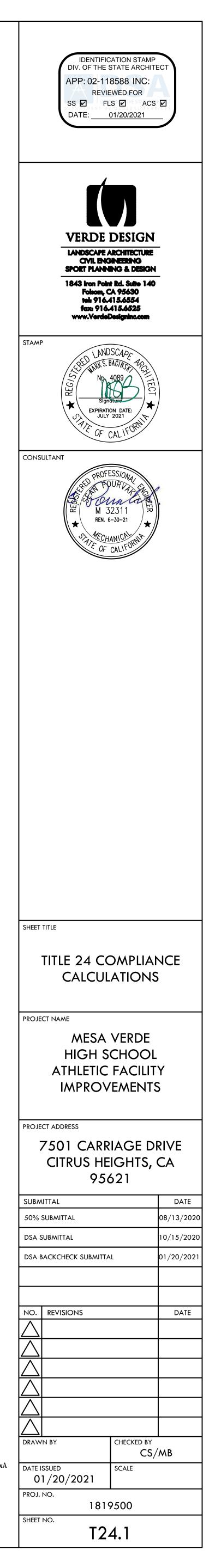
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0

0

Total watts

Report Generated at: 2020-10-07 08:35:45



Project Name:	Mesa Verde Concessi	on Stand			NRCC-PRF-01-E	Page 12 of 15
Project Address:	7501 Carriage Drive C	itrus Heights 9	5621		Calculation Date/Time:	08:35, Wed, Oct 07, 2020
Input File Name:	192245_Concession S	tand Mesa Ver	de.cibo	119x	- V 100 - 78	
P. DECLARATION O	F REQUIRED CERTIFICAT	ES OF ACCEP	TANCE			
compliance. These	documents must be prov	ided to the b	uilding	inspector during construc	ertificates of Acceptance mu tion and must be completed ndards/2019_compliance_d	through an Acceptance Test
Buil	ding Component	YES	NO		Form/Tit	tle
	Constant			NRCA-ENV-02-F - NRFC labe	abel verification for fenestration	
	Envelope			NRCA-ENV-03-F - Daylighting	g Design PAFs	
1				NRCA-LTI-02-A - Occupancy	Sensors and Automatic Time Sv	vitch Controls
	a da cant fakatan			NRCA-LTI-03-A - Automatic	Daylight Controls	
	ndoor Lighting			NRCA-LTI-04-A - Demand Re	sponsive Lighting Controls	
				NRCA-LTI-05-A - Institutiona	Tuning Power Adjustment Fac	tor (PAF)
				NRCA-PRC-02-F - Kitchen Ex	haust	
				NRCA-PRC-03-F - Garage Ext	aust	
	and the second se			NRCA-PRC-12-F - Elevator Li	ghting and Ventilation Controls	e
	overed Process			NRCA-PRC-13-F -Escalator a	nd Moving Walkways Speed Co	ntrol
				NRCA-PRC-14-F – Lab Exhau	st Ventilation System	
				NRCA-PRC-15-F - Fume Hood	d Automatic Sash Closures Syste	em

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

Project Name: Mesa Verde Concession Stand		NRCC-PRF-01-E	Page 15 of 15
Project Address:	7501 Carriage Drive Citrus Heights 95621	Calculation Date/Time:	08:35, Wed, Oct 07, 2020
Input File Name:	192245_Concession Stand Mesa Verde.cibd19x		
l certify that this Certific	AUTHOR'S DECLARATION STATEMENT ate of Compliance documentation is accurate and complete or Name: Sean Pourvakil		
Company: LP Consult		Signature: 5 Pour let	
Address: 1209 Pleasa	nt Grove Blvd.	Signature Date: 2020-10-07	
City/State/Zip: Rosev	ille CA 95678	CEA/ HERS Certification Identific	ation (if applicable):
Phone: 916-771-0778	3		

Report Version: NRCC-PRF-01-E-04282020-6206

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsib 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Complian of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance document plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcer inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at o

Responsible Envelope Designer Name:	et al sector a	
Company: BCA Architects	Signature:	
Address: 980 9th St Suite 2050	Date Signed:	
City/State/Zip: Sacramento CA 95814		
Phone:	Title:	License #:
Responsible Lighting Designer Name: Alex K. Saev	1 10	
Company: LP Consulting Engineers	Signature: Alex K.S	Same
Address: 1209 Pleasant Grove Blvd.	Date Signed: 2020-10-07	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title:	License #: 18211
Responsible Mechanical Designer Name: Sean Pourvakil	Signature: 5 Reader	
Company: LP Consulting Engineers	Signature: S (retain the l	
Address: 1209 Pleasant Grove Blvd.	Date Signed: 2020-10-07	
City/State/Zip: Roseville CA 95678		
Phone: 916-771-0778	Title:	License #: M3231

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206

STATE OF CALIFORNIA Nonresidential Building Commissioning

CERTIFICATE OF COMPLIANCE Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared: Project Name: Project Address:

F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)1 and demonstrates compliance with design review kickoff requirements per <u>§120.8(d)2</u>. This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details					
01 Date of Design Review Kickoff Meeting	> T			4 T	0001-
02 Meeting Attendees: (one person may p	lay multiple roles)				
Owner/Facility Manager:			Design Reviewer(s)		
Project Manager:			Design Architect/ En	gineer(s):	
Contractor:			Certified Acceptance	Test Tech(s):	
Commissioning Provider:			Energy/ T24 Part 6 C	onsultant:	
Design Reviewer Qualifications per Title 24	Part 1 Section 10-103(a)1				
The design reviewer(s) must be licensed pro under the direct supervision of a licensed e	ngineer or architect, as specified in	the provisions of	Division 3 of the Busi	ness and Profession	ns Code.
03 In addition, for buildings with >= 10,000 project involvement or a third party en) ft ² but < 50,000 ² , the design revie gineer, architect, or contractor	wer(s) shall be a o	qualified in-house eng	gineer or architect v	with no other
04 The design reviewer(s) for this project v	will be:				
Preliminary Construction Schedule					-
		Start Date			Complet
05 Schematic Design		0001-01-01		1.	0001-
06 Design Development		0001-01-01			0001-
07 Construction Documents		0001-01-01			0001-
08 Construction		0001-01-01		h	0001-
09 Building Turnover		0001-01-01			0001-
Project Goals Related to Energy Efficiency	6 - C				
10 Operational Costs					
11 Desired Building Lifespan				_	
12 Equipment Lifecycle					
13 Project Energy Efficiency Goals					
14 Envelope Goals					

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003

Schema Version: rev 20190401

Registration Date/Time:

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	Pass	Fail
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Project Name:	Mesa Verde Concessi	on Stand		NRCC-PRF-01-E	E	Page 11 of 15		
Project Address:	7501 Carriage Drive C	itrus Heights 9	5621	Calculation Dat	te/Time:	08:35, Wed, Oct 07, 2020		
Input File Name:	192245_Concession S	itand Mesa Ven	de.cibo	9x		1		
O. DECLARATION O	F REQUIRED CERTIFICA	TES OF INSTAL	LATIC					-
compliance. These	documents bust be retai	ned and provi	ded to	uthor to indicate which Certificates of Install the building inspector during construction an iance_documents/Nonresidential_Document	nd can be		d for	
Build	ding Component	YES	NO		Form/Tit	le	Insp	ield bector
	en diam.	57	-	The Finites F. March 1970 St. Mr. Mr. 401			Pass	Fail
	Envelope			NRCI-ENV-01-E - Must be submitted for all buildin				
	Mechanical			NRCI-MCH-01-E - Must be submitted for all buildin				
				VRCI-PLB-01-E - Must be submitted for all building				1-
				NRCI-PLB-02-E - Must be submitted for high-rise restance in the second secon	esidential	and hotel/ motel central hot water distribution		
	Plumbing			NRCI-PLB-03-E - Must be submitted for high-rise r ystem distribution systems to be recognized for c				E
				NRCI-PLB-21-E - Must be HERS verified for central	systems in	n high-rise residential hotel/ motel application		C
				NRCI-PLB-22-E - Must be HERS verified for single c opplication	dwelling ur	nit systems in high-rise residential, hotel/motel		
				NRCI-STH-01-E - Must be submitted for solar hot v	water heat	ing systems		
				NRCI-LTI-01-E - Must be submitted for all building:	s			
				VRCI-LTI-02-E - Must be submitted for a lighting co EMCS) to be recognized for compliance	ontrol syst	em, or for an Energy Management Control System		
Ir	ndoor Lighting			NRCI-LTI-04-E - Must be submitted for two interlo conference room, a multipurpose room, or a thea		ms serving an auditorium, a convention center, a ecognized for compliance		E
				NRCI-LTI-05-E - Must be submitted for a Power Ad	ljustment l	Factor (PAF) to be recognized for compliance		
				NRCI-LTI-06-E - Must be submitted for additional v ecognized for compliance	wattage in	stalled in a video conferencing studio to be		
C.	overed Process			NRCI-PRC-01-E - Must be submitted for all Covere	d Processe	25	Π	1 D

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sible designer) ance conform to the requirements	
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ement agency for all applicable occupancy.	
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CALIFORNIA ENERGY COMMISSION NRCC-CXR-E (Page 3 of 6) 10/7/2020 -01-01 Do the Design Reviewer(s) meet these qualifications? Yes No • tion Date 01-01 01-01 01-01 01-01

Project Name:	Mesa Verde Concession	n Stand		NRCC-PRF-01-E	Page 14 of 15		
Project Address:	7501 Carriage Drive Cit	rus Heights 9	5621	Calculation Date/Time:	08:35, Wed, Oct 07, 2020		
Input File Name:	192245_Concession Sta	and Mesa Ver	de.cibo	119x	6		
Q. DECLARATION C	OF REQUIRED CERTIFICATE	S OF VERIF	CATIC	N			-
compliance. These	documents bust be retain	ed and prov	ided to	Author to indicate which Certificates of Verification mu the building inspector during construction and can be pliance_documents/Nonresidential_Documents/NRCV/	found online at:	1	eld
Buil	ding Component	YES	NO	Form/Tit	le	Insp	ecto
		_	100 m			Pass	Fai
				NRCV-MCH-04-H Duct Leakage Test			E
	M. Andrews			NRCV-MCH-24-H Enclosure Air Leakage			E
	Mechanical		50	NRCV MCU 27 Jackson Mis Quality 8 Missing Mantilation			F
	in condition			NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation			
				NRCV-MCH-27 Indoor Air Quality & Mechanical Ventilation NRCV-MCH-32-H Local Mechanical Exhaust			Ē
	Plumbing				residential, hotel/motel application	-	E

Report Version: NRCC-PRF-01-E-04282020-6206

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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance

STATE OF CALIFORNIA Nonresidential Building Commissioning NDCC.CVD.D

NRCC-CXR-E	goonning	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	A REAL PROPERTY AND A REAL PROPERTY AND A	NRCC-CXR-E
Project Name:	Mesa Verde HS Concession/Restroom Report Page:	(Page 2 of 6)
Project Address:	7501 Carriage Drive Date Prepared:	10/7/2020

Report Version: NRCC-PRF-01-E-04282020-6206

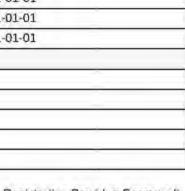
C. COMPLIANCE RESULTS

01	02	03	04	05	06	07	08	09
Design Kickoff Review Owner's Project Requirements Ba	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	Compliance Results	
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes		1	Yes					COMPLIES
10	Design Revie	wer(s) for the pro	oject include:					COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.



Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03 Registration Number:

Registration Date/Time: Report Version: 2019.1.003

Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03

Schema Version: rev 20190401

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Project Name:	Mesa Verde Concession Stand	d	NRCC-PRF-0	1-E	Page 10 of 15			
Project Address:	7501 Carriage Drive Citrus He	eights 95621	Calculation	Date/Time:	08:35, Wed, Oct 0	17, 2020		
Input File Name:	192245_Concession Stand M	esa Verde.cibd19x	-					
N12. Combined Orna	nental and Special Effects L	ighting						
This Section Does Not Ap	pply							
N13. Very Valuable M	erchandise	- D				11		
This Section Does Not Ap	ply							
N14. INDOOR & OUTI	OOR LIGHTING ACCEPTAN	CE TESTS & FORMS § 130.4						
		A) –Acceptance Certificates that mu	ust be verified in the field. Inspector to verify).	(Retain copi	es and verify forms	are completed and signed	to post in f	field fo
Declaration of Required	Acceptance Certificates (NRC	A) –Acceptance Certificates that mu		(Retain copi	es and verify forms	are completed and signed		field fo
Declaration of Required		A) –Acceptance Certificates that mu	Inspector to verify).	1	es and verify forms CA-LTI-04-A		Confi	
Declaration of Required	Acceptance Certificates (NRC	A) –Acceptance Certificates that mu Field I	Inspector to verify). Indoor	NR		Outdoor		
Declaration of Required Tes	Acceptance Certificates (NRC	A) –Acceptance Certificates that mu Field I NRCA-LTI-02-A Occ Sensors / Auto Time	Inspector to verify). Indoor NRCA-LTI-03-A	NR	CA-LTI-04-A	Outdoor NRCA-LTO-02-A	Confi	irmed
Declaration of Required Tes Equipment Requiring Testing or Verification	Acceptance Certificates (NRC)	A) –Acceptance Certificates that mu Field I NRCA-LTI-02-A Occ Sensors / Auto Time Switch	Inspector to verify). Indoor NRCA-LTI-03-A Auto Daylight	NR	CA-LTI-04-A	Outdoor NRCA-LTO-02-A Outdoor Controls	Confi Pass	irmed Fail
Declaration of Required Tes Equipment Requiring Testing or Verification Occupant Sensors	Acceptance Certificates (NRC)	A) –Acceptance Certificates that mu Field I NRCA-LTI-02-A Occ Sensors / Auto Time Switch	Inspector to verify). Indoor NRCA-LTI-03-A Auto Daylight	NR	CA-LTI-04-A	Outdoor NRCA-LTO-02-A Outdoor Controls	Confi Pass	irmed Fail
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CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206

Project Name:	Mesa Verde Concessi	on Stand		NRCC-PRF-01-E		Page 13 of 15			
Project Address:	7501 Carriage Drive C	itrus Heights 9	5621	Calculation Date/	Time:	08:35, Wed, Oct 07, 2020			
Input File Name:	192245_Concession S	itand Mesa Ver	de.cibo	9х					
P. DECLARATION O	F REQUIRED CERTIFICAT	ES OF ACCEP	TANCE	A REAL PROPERTY OF A			-		
compliance. These	documents must be prov	ided to the b	uilding		pleted	st be submitted for the features to be recognize through an Acceptance Test Technician Certifica cuments/Nonresidential_Documents/NRCA/			
Build	ding Component	YES	NO	Fc	orm/Tit	le	11	eld ector	
					And the second s	Pass	Fail		
			IRCA-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities everlap						
			RCA-MCH-03-A Constant Volume Single Zone HVAC	RCA-MCH-03-A Constant Volume Single Zone HVAC					
				NRCA-MCH-04(a)-H Air Distribution Duct Leakage - H	IERS Ve	rification required			
				RCA-MCH-04(b)-A Air Distribution Duct Leakage - A	ATT only	N			
				NRCA-MCH-05-A Air Economizer Controls					
				NRCA-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems require to employ demand controlled ventilation (refer to §120.1(c)3) can vary outside ventilation flow rates based o maintaining interior carbon dioxide (CO2) concentration setpoints					
				RCA-MCH-07-A Supply Fan Variable Flow Controls					
				NRCA-MCH-08-A Valve Leakage Test	age Test				
	Mechanical			NRCA-MCH-09-A Supply Water Temperature Reset C	ontrols				
				RCA-MCH-10-A Hydronic System Variable Flow Con	trols	-			
				NRCA-MCH-11-A Automatic Demand Shed Controls					
				RCA-MCH-12-A FDD for Packaged Direct Expansion	Units				
				NRCA-MCH-13-A Automatic FDD for Air Handling Un	its and	Zone Terminal Units Acceptance			
				RCA-MCH-14-A Distributed Energy Storage DX AC S	systems	Acceptance			
				RCA-MCH-15-A Thermal Energy Storage (TES) Syste	em Acce	ptance			
				NRCA-MCH-16-A Supply Air Temperature Reset Cont	rols				
				RCA-MCH-17-A Condenser Water Temperature Res	et Cont	rols			
				NRCA-MCH-18 Energy Management Control Systems	s				
				RCA-MCH-19 Occupancy Sensor Controls					

CA Building Energy Efficiency Standards- 2019 Nonresidential Compliance Report Version: NRCC-PRF-01-E-04282020-6206 Report Generated at: 2020-10-07 08:35:45

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	sidential spaces. This document d	the contract of the second			dings and hotel/motel or mixed-use buildings with , which need to be documented separately if they
Projec	t Name:	Mesa V	erde HS Concessi	on/Restroom Report Page:	(Page 1 of 6
Projec	t Address:		7501 0	Carriage Drive Date Prepared:	10/7/202
A. GE	NERAL INFORMATION				
01	Project Location (city)	Citrus Heights	04	Building Size (ft ²)	1233
02	Occupancy Type	Nonresidential	05	Nonresidential Conditioned Floor Area (ft ²)	< 10,000 ft ²
03	Project Type Newly constructed		06	HVAC System Type	Unitary or packaged equipment each serving one zone
<u></u>		A PERSONAL PROPERTY AND A PERSON AND A PERS	es which comm	issioning related requirements apply per <u>§120.8</u> .	Table B is not editable by the user.
<u></u>	on project information provided missioning Requirements per s Table F: Design Review Kicko	\$120.8 .ff <u>\$120.8(d)1</u> and	The design re	eview kickoff meeting establishes who will play th	e role of the design reviewer, the project schedule and
Com	Table F: Design Review Kicko	5120.8	The design re		e role of the design reviewer, the project schedule and
Com	missioning Requirements per	\$120.8 .ff <u>\$120.8(d)1</u> and	The design re	eview kickoff meeting establishes who will play th	e role of the design reviewer, the project schedule and Id be conducted during schematic design.
01	Table F: Design Review Kicko Table G: Owner's Project	§120.8 off §120.8(d)1 and §120.8(d)2 §120.8(b)	The design re	eview kickoff meeting establishes who will play the identify owner's requirements. This meeting shou	e role of the design reviewer, the project schedule and Id be conducted during schematic design. es not apply.
01 02	Table F: Design Review Kicko Table G: Owner's Project Requirements (OPR)	§120.8 off §120.8(d)1 and §120.8(d)2 §120.8(b)	The design re goals. Commi commissionin	eview kickoff meeting establishes who will play the identify owner's requirements. This meeting shou This requirement do This requirement do viewer(s) reviews the construction documents for ssioning measures must be included in the constr g process. For projects with >= 10,000 ft ² of nonne e with the Owner's Project Requirements (OPR) ar	e role of the design reviewer, the project schedule and Id be conducted during schematic design. es not apply.
01 02 03	Table F: Design Review Kicko Table G: Owner's Project Requirements (OPR) Table H: Basis of Design (BOI	§120.8 off §120.8(d)1 and §120.8(d)2 §120.8(b) [§120.8(c) (§120.8(d) and §120.8(e)	The design re goals. Commi commissionin for adherence	eview kickoff meeting establishes who will play the identify owner's requirements. This meeting shou This requirement do This requirement do viewer(s) reviews the construction documents for ssioning measures must be included in the constr g process. For projects with >= 10,000 ft ² of nonne e with the Owner's Project Requirements (OPR) ar	e role of the design reviewer, the project schedule and Id be conducted during schematic design. es not apply. clarity, completeness, and adherence to the owner's uction documents to facilitate the design review and esidential conditioned floor area the design review is ad Basis of Design (BOD). This should be conducted
01 02 03 04	Table F: Design Review Kicko Table G: Owner's Project Requirements (OPR) Table H: Basis of Design (BOI Table I: Design Review	§120.8 §120.8(d)1 and §120.8(d)2 §120.8(b) §120.8(c) §120.8(c) §120.8(d) and §120.8(d) and §120.8(e) n §120.8(f)	The design re goals. Commi commissionin for adherence	eview kickoff meeting establishes who will play the identify owner's requirements. This meeting shou This requirement do This requirement do viewer(s) reviews the construction documents for ssioning measures must be included in the constr g process. For projects with >= 10,000 ft ² of nonri- e with the Owner's Project Requirements (OPR) ar	e role of the design reviewer, the project schedule and Id be conducted during schematic design. es not apply. es not apply. clarity, completeness, and adherence to the owner's uction documents to facilitate the design review and esidential conditioned floor area the design review is ad Basis of Design (BOD). This should be conducted es not apply.
01 02 03 04 05	Table F: Design Review Kicko Table G: Owner's Project Requirements (OPR) Table H: Basis of Design (BOI Table I: Design Review Table I: Commissioning Plar Table K: Functional Performan	§120.8 §120.8(d)1 and §120.8(d)2 \$120.8(d)1 \$120.8(d) \$120.8(b) \$120.8(c) \$120.8(d) and \$120.8(e) \$120.8(d) and \$120.8(e) \$120.8(d) and \$120.8(e) \$120.8(d) and \$120.8(e)	The design re goals. Commi commissionin for adherence	eview kickoff meeting establishes who will play the identify owner's requirements. This meeting shou This requirement do This requirement do viewer(s) reviews the construction documents for ssioning measures must be included in the constr g process. For projects with >= 10,000 ft ² of nonro e with the Owner's Project Requirements (OPR) ar This requirement do	e role of the design reviewer, the project schedule and Id be conducted during schematic design. es not apply. es not apply. clarity, completeness, and adherence to the owner's uction documents to facilitate the design review and esidential conditioned floor area the design review is ad Basis of Design (BOD). This should be conducted es not apply. es not apply.

Registration Number:

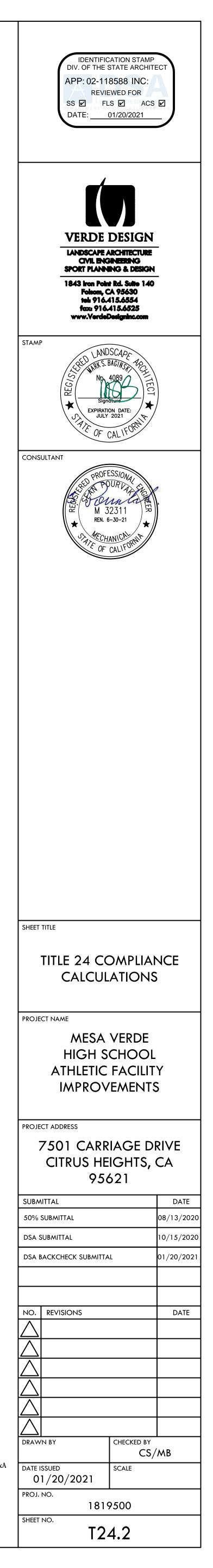
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03

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STATE OF CALIFORNIA NONTESIDENTIAL CALIFORNIA ENERGY COMMISSION NRCC-CXR-E CERTIFICATE OF COMPLIANCE NRCC-CXR-E	STATE OF CALIFORNIA Nonresidential Building NRCC-CXR-E CERTIFICATE OF COMPLIANCE	Commissioning	CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Nonresidential Building Comm NRCC-CXR-E CERTIFICATE OF COMPLIANCE	nissioning	CALIFORNIA ENERGY COMMISSION
Project Name: Mesa Verde HS Concession/Restroom Report Page: (Page 6 of 6) Project Address: 7501 Carriage Drive Date Prepared: 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared:	(Page 5 of 6) 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared:	(Page 4 of 6) 10/7/2020
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	M. COMMISSIONING REPORT			F. DESIGN REVIEW KICKOFF MEETING		
I certify that this Certificate of Compliance documentation is accurate and complete.	This section does not apply to this pro	ect.		15 HVAC System Goals		
Documentation Author Name: Sean Pourvakil Company: Signature:	N. DECLARATION OF REQUIRED CI	RTIFICATES OF INSTALLATION		16 Indoor Lighting System Goals 17 Outdoor Lighting System Goals		
LP Consulting Engineers, Inc. 2020-10-07 Address: 1209 Pleasant Grove Blvd. CEA/ HERS Certification (if applicable):	There are no Certificates of Installatio	applicable to commissioning requirements.		18 Water Heating System Goals		
City/State/Zip: Roseville CA 95678 Phone: RESPONSIBLE PERSON'S DECLARATION STATEMENT	O. DECLARATION OF REQUIRED C			19 Equipment and System Specifications20 Operations and Maintenance		
I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct.	Although there are no "CXR" Certifical performance testing required by <u>§120</u>	es of Acceptance required to document commissioning requirements, Certificates of A 8(a).	ceptance may be used to supplement functional	G. OWNER'S PROJECT REQUIREMENTS (OPP	8)	
 I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer) The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 				This section does not apply to this project.		
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.				H. BASIS OF DESIGN (BOD)		
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.				This section does not apply to this project.		
Responsible Designer Name; Responsible Designer Signature: Company: Date Signed: BCA Architects 2021/01/13				I. CONSTRUCTION DOCUMENT DESIGN REV		pliance with <u>§120.8(b)</u> and <u>§120.8(e)</u> . For buildings with >= 10,000 ft ²
Address:				conditioned floor area, the design review will ens		ments (Table G.) and the Basis of Design Documents (Table H.). For
Gity/State/Zip: Phone: (016) 254 6500				01 Attaching Completed Design Review Docum	YI YI	/ES NO
Sacramento CA 95814 (910) 234-0300						0
				J. COMMISSIONING PLAN This section does not apply to this project.		
				K. FUNCTIONAL PERFORMANCE TESTING This section does not apply to this project.		
				L. DOCUMENTATION AND TRAINING		
				This section does not apply to this project.		
Registration Number: Registration Provider: Energysoft	Desistration Number	Registration Date/Time:	Posistratian Braudar: Fooraugaft	Desistration Number	Registration Date/Time:	Registration Provider: Energysoft
Registration Number: Registration Date/Time: Registration Provider: Energysoft CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-10-07 08:36:03	Registration Number: CA Building Energy Efficiency Standa		Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03	Registration Number: CA Building Energy Efficiency Standards - 2019		Report Generated: 2020-10-07 08:36:03
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STATE OF CALIFORNIA	STATE OF CALIFORNIA	A CONTRACT OF		STATE OF CALIFORNIA		
Electrical Power Distribution NRCC-ELC-E CALIFORNIA ENERGY COMMISSION	Electrical Power Distrib	ution	CALIFORNIA ENERGY COMMISSION	Electrical Power Distribution		CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE NRCC-ELC-E Project Name: Mesa Verde HS Concession/Restroom Report Page: (Page 3 of 5)	CERTIFICATE OF COMPLIANCE Project Name:	Mesa Verde HS Concession/Restroom Report Page:	NRCC-ELC-E (Page 2 of 5)	CERTIFICATE OF COMPLIANCE This document is used to demonstrate complianc	e with mandatory requirements in <u>§130.5</u> , for electrical systems in	NRCC-ELC-E newly constructed nonresidential, high-rise residential and
Project Address: 7501 Carriage Drive Date Prepared: 10/7/2020	Project Address:	7501 Carriage Drive Date Prepared:	10/7/2020		ns to electrical service systems in these occupancies will also use th	
H. VOLTAGE DROP	D. EXCEPTIONAL CONDITIONS			Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared:	(Page 1 of 5 10/7/2020
This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with <u>§130.5(c)</u> . For alterations, only the altered circuits must demonstrate compliance per <u>§141.0(b)2Piii</u>	This table is auto-filled with uneditable	comments because of selections made or data entered in tables throughout the form		A. GENERAL INFORMATION	7501 Camage Drive Date Hepared.	
01 02 03 04 05	E. ADDITIONAL REMARKS			01 Project Location (city) Citrus Height	s 02 Occupancy Types	Within Project:
Electrical Service Combined Voltage Drop on Installed Feeder/Branch Location of Voltage Drop Sheet Number for Voltage Drop Field Inspector Designation/Description Circuit Conductors Compliance Method Calculations ¹ Desugnator Pass Fail	This table is includes remarks made by	the permit applicant to the Authority Having Jurisdiction.		Office Garage High-Rise Res	Image: Sidential Image: Warehouse Image: Hotel/Motel Sidential Image: Relocatable Image: Healthcare Facility	ties 🛛 Other (write in) See Table I
Voltage drap loss than Permitted by CA Elec	F. SERVICE ELECTRICAL METERING This table includes new or replacemen	electrical service systems OR equipment to demonstrate compliance with <u>§130.5(a)</u>		B. PROJECT SCOPE		
Image drop rest train Image drop rest train 5% Image drop rest train 130.5(c))*	01	02 03	04 05	This table includes electrical systems that are wit	hin the scope of the permit application.	
* NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below. ¹ FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached"	Electrical Service	Required Metering Capabilities per Table 130.5-A Rating	Location of Requirements in	01	02 03	04 05 System subject to CA Elec Code
if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".	Designation/Description	(kVA) Instantaneous Historical Peak Demand (kW) Demand (kW) Demand (kW) period kWh per rate period	Construction Documents Pass Fail	Electrical Service Designation/Description	on Scope of Work ¹ Rating (kVA)	Utility Provided Metering System Exception to <u>\$130.5(a)</u> ² Article 517 Exception to <u>\$130.5(a)and</u> (b)
I.CIRCUIT CONTROLS FOR 120-VOLT RECEPTACLES AND CONTROLLED RECEPTACLES		50 🗆 🛛 🖾			New electrical service equipment and 50	
This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with §130.5(d). Both controlled and uncontrolled receptacles must be provided in office areas, lobbies, conference rooms, kitchen areas in office spaces, copy rooms and hotel/motel guest rooms.	G. SEPARATION OF ELECTRICAL CI					specified which are capable of receiving and automatically
01 02 03 04 05 06 Room name or Location/ Type of Controlled rbut Off Controlled Permanent Durable Location of Requirements in Field Inspector	This table includes entirely new or con service do not need to be shown.	plete replacement electrical power distribution systems to demonstrate compliance w	th <u>§130.5(b)</u> . Any load types that are not included in the	06 Demand Response Contr		g protocol which enables demand response after receiving a demand and compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will
Description Receptacles Shut-Off Controls Marking Will be Used Construction Documents Pass Fail	01	02 03 Minimum Required Separation of Location of Requi	04 05 ements in Construction Field Inspector		uits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are	e required.
* NOTES: If "Other*" is selected under Shut-Off Controls above, please indicate how compliance has been achieved in the space provided below.	Load Type per <u>Table 130.5-B</u> ¹	Compliance Method*	uments Pass Fail		ing system that indicates instantaneous kW demand and kWh for a utility-	defined period.
J. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E.		Compliance Method above, please indicate how compliance has been achieved in the up to 10% of the connected load may be of any type.	pace provided below.	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 "COMPLIES with Exceptional Conditions" refer
Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/	² Method 1: Switchboards/ motor control of	enters/ panelboard loads disaggregated for each load type. ters/ panelboard supply other distribution equipment with loads disaggregated for each load t	DF.	to Table D. Exceptional Conditions for guidance of	r see applicable Table referenced below.	05
Yes No Field Inspector	Method 3: Branch circuits serve load types Method 4: Complete metering system mea	ndividually and provisions for adding future branch circuit monitoring. ures and reports loads by type.		Service Electrical AND Separation		eceptacles
Pass Fail NRCI-ELC-01-E - Must be submitted for all buildings	See Chapter 8 of the Nonresidential Compl	ance Manual for more detail on Compliance Methods.		Metering §130.5(a) Monitoring §1 (See Table F) (See Table F)	e G) (See Table H) (See Table H)	ble 1)
				Yes AND Yes	AND Yes AND Yes	COMPLIES
Registration Date/Time: Registration Provider: Energysoft	Registration Number:	Registration Date/Time;	Registration Provider: Energysoft	Registration Number:	Registration Date/Time:	Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2019.1.003 Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standa		Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standards - 2019		Report Generated: 2020-10-07 08:36:03
Schema Version: rev 20190401		Schema Version: rev 20190401			Schema Version: rev 20190401	
STATE OF CALIFORNIA Outdoor Lighting	STATE OF CALIFORNIA Electrical Power Distrib	ution		STATE OF CALIFORNIA Electrical Power Distribution		
NRCC-LTO-E CALIFORNIA ENERGY COMMISSION			CALIFORNIA ENERGY COMMISSION NRCC-ELC-E	NRCC-ELC-E		CALIFORNIA ENERGY COMMISSION NRCC-ELC-E
CERTIFICATE OF COMPLIANCE NRCC-LTO-E Project Name: Mesa Verde HS Concession/Restroom Report Page: (Page 1 of 8)	Project Name:	Mesa Verde HS Concession/Restroom Report Page:	(Page 5 of 5)	Project Name:	Mesa Verde HS Concession/Restroom Report Page:	(Page 4 of 5)
Project Address: 7501 Carriage Drive Date Prepared: 10/7/2020	Project Address:	7501 Carriage Drive Date Prepared:	10/7/2020	Project Address:	7501 Carriage Drive Date Prepared:	10/7/2020
A. GENERAL INFORMATION	DOCUMENTATION AUTHOR'S DEC	ARATION STATEMENT		K. DECLARATION OF REQUIRED CERTIFICATE	ES OF ACCEPTANCE	
01 Project Location (city) Citrus Heights 04 Total Illuminated Hardscape Area (ft ²) 1100 02 Climate Zone 12 04 Total Illuminated Hardscape Area (ft ²) 1100	I certify that this Certificate of Con Documentation Author Name: Alex K. Sae	npliance documentation is accurate and complete. Documentation Author Signature:	~/S	There are no Certificates of Acceptance applicabl	e to electrical power distribution requirements.	
03 Outdoor Lighting Zone per Title 24 Part 1 \$10.114 or as designated by Authority Having Jurisdiction (AHJ); □ LZ-0: Very Low - Undeveloped Parkland □ LZ-2: Moderate - Rural Areas □ LZ-4; High - Must be reviewed by CA Energy Commission for Approval	Company: LP Consulting Engineers, Inc.	Signature Date: 2020-10-07				
Image: Service of the very cover of developed Parkland Image: Service of the very cover of developed Parkland Image: Service of the very cover of developed Parkland Image: Service of the very cover cover of the very cover of the very cover	Address: 1209 Pleasant Grove Blvd. City/State/Zip: Roseville CA 95678	CEA/ HERS Certification Identification (Phone:	applicable):			
B. PROJECT SCOPE	RESPONSIBLE PERSON'S DECLARA					
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in <u>§140.7</u> or <u>§141.0(b)2L</u> for alterations.	1. The information provided on this C		this Certificate of Compliance (resoonsible designer)			
My Project Consists of:	 The energy features and performan of Title 24, Part 1 and Part 6 of the 	e specifications, materials, components, and manufactured devices for the building design or system desig alifornia Code of Regulations.	identified on this Certificate of Compliance conform to the requirements			
01 02 Image: New Lighting System Must Comply with Allowances from <u>\$140.7</u>	plans and specifications submitted	m design features identified on this Certificate of Compliance are consistent with the information provided of the enforcement agency for approval with this building permit application.				
Image: Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No 03 04 05	 I will ensure that a completed signer inspections. I understand that a con Responsible Designer Name: 	I copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the	builder provides to the building owner at occupancy.			
% of Existing Luminaires Being Altered ¹ Sum Total of Luminaires Being Added or Altered Calculation Method	Alex K, Saev	Alex	KSee			
Image: style="text-align: center;"> Image: style: style="text-align: center;"> <td>LP Consulting Engineers</td> <td>Date Signed: 2020-10-07</td> <td></td> <td></td> <td></td> <td></td>	LP Consulting Engineers	Date Signed: 2020-10-07				
¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.	Address: 1209 Pleasant Grove Blvd.	License: 18211				
	City/State/Zip: Roseville CA 95678	Phone: 916-771-0778				

STATE OF CALIFORNIA Nonresidential Buildin NRCC-CXR-E CERTIFICATE OF COMPLIANCE	ng Commissioning		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Nonresidential Buildin NRCC-CXR-E CERTIFICATE OF COMPLIANCE	g Commissioning		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Nonresidential Building Co NRCC-CXR-E CERTIFICATE OF COMPLIANCE			CALIFORNIA ENERGY COMMISSION
Project Name: Project Address:		ion/Restroom Report Page: Carriage Drive Date Prepared:	(Page 6 of 6) 10/7/2020	Project Name: Project Address:		ion/Restroom Report Page: Carriage Drive Date Prepared:	(Page 5 of 6) 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession/Restroe 7501 Carriage Dri	om Report Page: ive Date Prepared:	(Page 4 of 6 10/7/202
DOCUMENTATION AUTHOR'S DE	ECLARATION STATEMENT			M. COMMISSIONING REPORT			1	F. DESIGN REVIEW KICKOFF MEETING			
Therefore Country Country and the second of the second	Compliance documentation is accurate			This section does not apply to this p	roject.			15 HVAC System Goals			
Documentation Author Name: Sean Pourva Company:	/akil	Documentation Author Signature: Signature Date:	: 5 yeller tot	N. DECLARATION OF REQUIRED	CERTIFICATES OF INSTALLATION			16 Indoor Lighting System Goals 17 Outdoor Lighting System Goals			
LP Consulting Engineers, Inc. Address: 1209 Pleasant Grove Blvd.	1.	2020-10-07 GEA/ HERS Certification Identificat	tion (if applicable):	There are no Certificates of Installati	on applicable to commissioning requireme	ents.		18 Water Heating System Goals 19 Equipment and System Specifications			
City/State/Zip: Roseville CA 95678 RESPONSIBLE PERSON'S DECLAR	RATION STATEMENT	Phone:		O. DECLARATION OF REQUIRED		to the second		20 Operations and Maintenance			
	s Certificate of Compliance is true and correct.	bills, for the building decise or outers decise identify	ified on this Certificate of Compliance (responsible designer)	Although there are no "CXR" Certification performance testing required by $\frac{512}{512}$		commissioning requirements, Certificates of Al	ceptance may be used to supplement functional	G. OWNER'S PROJECT REQUIREMENTS	OPR)		
3. The energy features and performation of Title 24, Part 1 and Part 6 of the 4. The building design features or sy plans and specifications submittee the second second specification of the second sec	nance specifications, materials, components, and manu he California Code of Regulations. system design features identified on this Certificate of C ed to the enforcement agency for approval with this bu	ufactured devices for the building design or system Compliance are consistent with the information pro building permit application.	design identified on this Certificate of Compliance conform to the requirements ovided on other applicable compliance documents, worksheets, calculations,					This section does not apply to this project. H. BASIS OF DESIGN (BOD)			
inspections. I understand that a co	gned copy of this Certificate of Compliance shall be ma completed signed copy of this Certificate of Complianc	ce is required to be included with the documentatio	the building, and made available to the enforcement agency for all applicable on the builder provides to the building owner at occupancy.					This section does not apply to this project.			
Responsible Designer Name; Company: BCA Architects		Responsible Designer Signature: Date Signed: 2021/01/1						I. CONSTRUCTION DOCUMENT DESIGN This table is only completed if a design revie	ALC: NO REAL PROPERTY AND A REAL PROPERTY AND	tion to demonstrate compliance with \$120.8	8(b) and <u>§120.8(c)</u> . For buildings with >= 10,000 ft
Address: 980 9th St Suite 2050		License: C 30345						conditioned floor area, the design review wi	ensure the construction documents meet the	e Owner's Project Requirements (Table G.) an	nd the Basis of Design Documents (Table H.). For red in Table F. during the Design Review Kickoff.
City/State/Zip Sacramento CA 95814		Phone: (916) 254-65	500					01 Attaching Completed Design Review D		YES	NO
380 8 m Ento CA 33814											
								J. COMMISSIONING PLAN This section does not apply to this project.			
								K. FUNCTIONAL PERFORMANCE TESTIN	3		
								This section does not apply to this project.			
								L. DOCUMENTATION AND TRAINING			
								This section does not apply to this project.			
Registration Number:		Registration Date/Time:	Registration Provider: Energysoft	Registration Number:		Registration Date/Time:	Registration Provider: Energysoft	Registration Number:	Regis	stration Date/Time:	Registration Provider: Energysof
CA Building Energy Efficiency Stand	idards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Stand	dards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standards - 2		ort Version: 2019.1.003	Report Generated: 2020-10-07 08:36:03
		Schema Version: rev 20190401				Schema Version: rev 20190401			Sche	ma Version: rev 20190401	
STATE OF CALIFORNIA Electrical Power Distri	ibution			STATE OF CALIFORNIA Electrical Power Distri	bution			STATE OF CALIFORNIA Electrical Power Distribution			
NRCC-ELC-E	1979 F 10		CALIFORNIA ENERGY COMMISSION NRCC-ELC-E	NRCC-ELC-E			CALIFORNIA ENERGY COMMISSION	NRCC-ELC-E			CALIFORNIA ENERGY COMMISSIO
Project Name: Project Address:		sion/Restroom Report Page: Carriage Drive Date Prepared:	(Page 3 of 5) 10/7/2020	Project Name: Project Address:		sion/Restroom Report Page: Carriage Drive Date Prepared:	(Page 2 of 5) 10/7/2020	This document is used to demonstrate comp		5, for electrical systems in newly constructed ccupancies will also use this document to der	nonresidential, high-rise residential and
riget Address.	13010	Samage Dive Date Frepared.	10/7/2020	Fibject Address.	/3010	amage bive bate Frepared.	10/7/2020	<u>§141.0(b)2P</u> for alterations Project Name:	Mesa Verde HS Concession/Restro		(Page 1 of 5
H. VOLTAGE DROP	amalata rankeramant alastrical source distri	ibution suctoms or alterations that add	modify or replace both feeders and branch circuits to	D. EXCEPTIONAL CONDITIONS	ale commonts basevise of selections made	or data entered in tables throughout the form		Project Address:	FIGURE AND AND AND AND AND AND AND A CARD AND A CARD AND AND AND AND AND AND AND AND AND AN	ive Date Prepared:	10/7/202
the second se	.5(c). For alterations, only the altered circuit		1.0(b)2Piii		ne comments because of selections made (or adda entered in cobies throaghout the jorni		A. GENERAL INFORMATION			
01 Electrical Service	02 Combined Voltage Drop on Installed Feed	03 der/Branch Location of Voltage Dro	04 05 Sheet Number for Voltage Drop Field Inspector	E. ADDITIONAL REMARKS This table is includes remarks made I	by the permit applicant to the Authority Ho	aving Jurisdiction.		01 Project Location (city) Citrus H	ights 🛛 🕅 Warehouse	02 Occupancy Types Within Project:	ol Support Areas
Designation/Description	Circuit Conductors Compliance Met		Calculations in Construction Pass Fail	F. SERVICE ELECTRICAL METERIN	G			Parking Garage High-Ris		788. 1642/10/2010 - 1985. 121 12	er (write in) See Table I
	Voltage dron less than	ed by CA Elec Exception to Attached			1	t to demonstrate compliance with <u>§130.5(a)</u>		B. PROJECT SCOPE			
* NOTES: If "Permitted by CA Elec Co	ode *" is selected under Compliance Method	0.5(c))* d above, please indicate where the except	tion applies in the space provided below.	01	02 Required Meter	03 ing Capabilities per <u>Table 130.5-A</u>	04 05 Field Inspector	This table includes electrical systems that an 01	within the scope of the permit application. 02	03 04	05
¹ FOOTNOTES: Voltage drop calculati		ation outside the construction documents	if allowed by the Authority Having Jurisdiction. Select "attached"	Electrical Service Designation/Description	Rating (kVA) Instantaneous Historica Demand (kW) Demand	I User-defined I	Location of Requirements in Construction Documents Pass Fail	Electrical Service Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation/Designation	ription Scope of Work	Rating Utility Provided Me	Afficie 517 Exception to
					50 Demand (kW) Demand	d (kW) period period			New electrical service equ	(KVA) Exception to 91	130.5(a)
This table includes entirely new or co		ibution systems to demonstrate complian	ace with <u>§130.5(d)</u> . Both controlled and uncontrolled receptacles	G SEPARATION OF ELECTRICAL C	IRCUITS FOR ENERGY MONITORING		1 1 2 1 2 1		meter	esponse controls must be specified which are	
must be provided in office areas, lobi	bbies, conference roams, kitchen areas in ofj 02	ffice spaces, copy rooms and hotel/motel 03 04	guest rooms. 05 06		and the set of the set	ibution systems to demonstrate compliance w	th <u>§130.5(b)</u> . Any load types that are not included in the	06 Demand Response (responding to at least one s	tandards based messaging protocol which er	nables demand response after receiving a deman ocuments NRCC-MCH, NRCC-LTI and NRCC-LTS wi
Room name or Locatio Description	on/ Type of Controlled Shut-C	Off Controls Permanent Dura Marking Will be L		01	02	03	04 05	FROM DETECTION AND A DETECTION	indicate when demand resp	onse controls are required.	reaments where were nice of and whee ers wh
	ler Shut-Off Controls above, please indicate			Load Type per Table 130.5-B	1 Minimum Required Separation of Load per <u>Table 130.5-B</u>	Compliance Method*	ements in Construction Field Inspector cuments Pass Fail	¹ FOOTNOTES: Adding only new feeders and brand ² Applicable if the utility company is providing a n			
J. DECLARATION OF REQUIRED C	CERTIFICATES OF INSTALLATION			* NOTES: If "Other*" is selected under	er Compliance Method abave, please indica	ate how compliance has been achieved in the	space provided below.	C. COMPLIANCE RESULTS			
Additional Remarks. These document	nts must be provided to the building inspect	tor during construction and can be found a	nit applicant, an explanation should be included in Table E. online at	² Method 1: Switchboards/ motor control	be, up to 10% of the connected load may be of t l centers/ panelboard loads disaggregated for e	each load type.		Results in this table are automatically calcul to Table D. Exceptional Conditions for guidar		es F through I. Note: If any cell on this table so	ays "COMPLIES with Exceptional Conditions" refer
	/2019standards/2019_compliance_documer		Field Inspector	Method 3: Branch circuits serve load type	es individually and provisions for adding future	quipment with loads disaggregated for each load t branch circuit monitoring.	ipe.	01 Service Electrical AND Separ	02 03 ation for AND Walkars Days 5330 F/	O4 Controlled Receptacles	05
Yes No NRCI-ELC-	-01-E - Must be submitted for all buildings	Form/Title	Pass Fail	Method 4: Complete metering system me See Chapter 8 of the Nonresidential Com	aliance Manual for more detail on Compliance i	Methods.		Metering §130.5(a) Monitoria	ation for g §130.5(b) Table G) AND Voltage Drop §130.5(c) (See Table H)	§130.5(d) (See Table I)	
	<u>u</u>							Yes AND	Yes AND Yes	AND Yes	COMPLIES
Registration Number:		Registration Date/Time:	Registration Provider: Energysoft	Registration Number:		Registration Date/Time:	Registration Provider: Energysoft	Registration Number:	Berli	stration Date/Time:	Registration Provider: Energysof
	idards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	Report Generated: 2020-10-07 08:36:03		lards - 2019 Nonresidential Compliance	Report Version: 2019.1.003	Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standards - 2		ort Version: 2019.1.003	Report Generated: 2020-10-07 08:36:03
		Schema Version: rev 20190401				Schema Version: rev 20190401	and the second second second second		Sche	ma Version: rev 20190401	
STATE OF CALIFORNIA				STATE OF CALIFORNIA Electrical Power Distri	hution			STATE OF CALIFORNIA Electrical Power Distributio	n		
Outdoor Lighting NRCC-LTO-E			CALIFORNIA ENERGY COMMISSION	NRCC-ELC-E	button		CALIFORNIA ENERGY COMMISSION	NRCC-ELC-E			CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF COMPLIANCE Project Name:	Mesa Verde H5 Concess	sion/Restroom Report Page:	NRCC-LTO-E (Page 1 of 8)	CERTIFICATE OF COMPLIANCE Project Name:		ion/Restroom Report Page:	NRCC-ELC-E (Page 5 of 5)	CERTIFICATE OF COMPLIANCE Project Name:	Mesa Verde HS Concession/Restroe		NRCC-ELC- (Page 4 of 5
Project Address:	7501	Carriage Drive Date Prepared:	10/7/2020	Project Address:	7501 C	Carriage Drive Date Prepared:	10/7/2020	Project Address:	7501 Carriage Dr	Date Prepared:	10/7/202
A. GENERAL INFORMATION	Citerus Mainhte	1 1		DOCUMENTATION AUTHOR'S DE	CHERRY COLD BUILDING CONTRACT			K. DECLARATION OF REQUIRED CERTIFI	CATES OF ACCEPTANCE		
01 Project Location (city) 02 Climate Zone	Citrus Heights 12	04 Total Illuminated	d Hardscape Area (ft ²) 1100	I certify that this Certificate of Co Documentation Author Name: Alex K. Sa	ompliance documentation is accurate	and complete. Documentation Author Signature:	aks.	There are no Certificates of Acceptance appl	cable to electrical power distribution require	ments.	
Annual and Annual and Annual and Annual A	itle 24 Part 1 <u>§10.114</u> or as designated by A of Parkland DLZ-2: Moderate - Rural A		t be reviewed by CA Energy Commission for Approval	Company: LP Consulting Engineers, Inc.		Signature Date: 2020-10-07					
LZ-1: Low - Developed Parklar				Address: 1209 Pleasant Grove Blvd. City/State/Zip: Roseville CA 95678		CEA/ HERS Certification Identification (i Phone:	applicable):				
B. PROJECT SCOPE				RESPONSIBLE PERSON'S DECLAR							
This table includes outdoor lighting s <u>§141.0(b)2L</u> for alterations.	systems that are within the scope of the per	rmit application and are demonstrating o	compliance using the prescriptive path outlined in <u>§140.7</u> or	1. The information provided on this	Certificate of Compliance is true and correct.	bility for the building design or system design identified o	n this Certificate of Compliance (responsible designer)				
My Project Consists of: 01			02	3. The energy features and perform of Title 24, Part 1 and Part 6 of th	ance specifications, materials, components, and man e California Code of Regulations.	ufactured devices for the building design or system desig	n identified on this Certificate of Compliance conform to the requirements				
New Lighting System		mply with Allowances from <u>§140.7</u>		plans and specifications submitte	d to the enforcement agency for approval with this b	uilding permit application.	on other applicable compliance documents, worksheets, calculations,				
Altered Lighting System	Is your alt	teration increasing the connected lighting 04	g load (Watts)? O Yes O No 05	inspections. understand that a c Responsible Designer Name:	ompleted signed copy of this Certificate of Compliand	ce is required to be included with the documentation the Responsible Designer Signature	builder provides to the building owner at occupancy.				
% of Existing Luminair		tal of Luminaires Being Added or Altered	Calculation Method	Alex K, Saev Company:		Date Signed:	KSac				
Image: Constraint of the second se	and < 50% Cighting Fixture Schedule to define the pro	oject's luminaires.		LP Consulting Engineers Address:		2020-10-07 License:					
¹ FOOTNOTES: % of Existing Luminair	ires Being Altered = (Sum Total of Lumínaire	es Being Added or Altered / Existing Lumin	naires within the Scope of the Permit Application) x 100.	1209 Pleasant Grove Blvd. City/State/Zip:		18211 Phone:					
				Roseville CA 95678		916-771-0778					

		Voltage drop less than 5%		Permitted by CA Elec Code (Exception to 130.5(c))*	Attached	
* NOTES: If "Permitted by C	A Elec Code	*" is selected under Con	npliar	ce Method above, please in	ndicate where the exception ap	plies in the space pro
¹ FOOTNOTES: Voltage drop if applicable. If calculations		Contraction of the second s		and the second of the second	construction documents if allov or Responsible".	ved by the Authority I

I.CIRCUIT	CONTROLS FOR	120-VOLT	RECEPTACL	ES AND	CONTROLLE	D RECEPTACLES
10-21-11-2-01			Contract of Contract			- the set of the

STATE OF CALIFORNIA Nonresidential Building NRCC-CXR-E CERTIFICATE OF COMPLIANCE	Commissioning		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Nonresidential Building NRCC-CXR-E CERTIFICATE OF COMPLIANCE	Commissioning	CALIFORNIA EN	NERGY COMMISSION	STATE OF CALIFORNIA Nonresidential Building Co NRCC-CXR-E CERTIFICATE OF COMPLIANCE	mmissioning		CALIFORNIA ENERGY COMMISSION
Project Name: Project Address:	Mesa Verde HS Concessio 7501 Ca	n/Restroom Report Page: Irriage Drive Date Prepared:	(Page 6 of 6) 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report 7501 Carriage Drive Date Pr		(Page 5 of 6) 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession/Restro 7501 Carriage D	om Report Page: rive Date Prepared:	(Page 4 of (10/7/202
DOCUMENTATION AUTHOR'S DECL	LARATION STATEMENT			M. COMMISSIONING REPORT				F. DESIGN REVIEW KICKOFF MEETING			
There has the control of the second states and the states of the	npliance documentation is accurate a			This section does not apply to this pro	ect.			15 HVAC System Goals			
Documentation Author Name: Sean Pourvakil Company:		Documentation Author Signature Signature Date:	: 5 joka h l	N. DECLARATION OF REQUIRED CE	RTIFICATES OF INSTALLATION			16 Indoor Lighting System Goals 17 Outdoor Lighting System Goals			
LP Consulting Engineers, Inc. Address: 1209 Pleasant Grove Blvd.		2020-10-07 CEA/ HERS Certification Identifica	tion (if applicable):	There are no Certificates of Installation	applicable to commissioning requirements.			18 Water Heating System Goals 19 Equipment and System Specifications			
City/State/Zip: Roseville CA 95678 RESPONSIBLE PERSON'S DECLARATI		Phone:		O. DECLARATION OF REQUIRED CE	RTIFICATES OF ACCEPTANCE es of Acceptance required to document commissioning require	months ContRoctor of Accordings was belond to simpleme	(at functions)	20 Operations and Maintenance			
	rtificate of Compliance is true and correct.			performance testing required by $§120$	이 것 같은 것 같	ements, certificates of Acceptance may be used to suppleme	ent junctional	G. OWNER'S PROJECT REQUIREMENTS	(OPR)		
	ce specifications, materials, components, and manufa		ified on this Certificate of Compliance (responsible designer) I design identified on this Certificate of Compliance conform to the requirements					This section does not apply to this project.			
plans and specifications submitted to	o the enforcement agency for approval with this buil	Iding permit application.	ovided on other applicable compliance documents, worksheets, calculations,					H. BASIS OF DESIGN (BOD)			
 I will ensure that a completed signed inspections. I understand that a comp Responsible Designer Name: 	d copy of this Certificate of Compliance shall be made apleted signed copy of this Certificate of Compliance	e available with the building permit(s) issued for is required to be included with the documentatio Responsible Designer Signature:	the building, and made available to the enforcement agency for all applicable on the builder provides to the building owner at occupancy.					This section does not apply to this project.			
Company BCA Architects		Date Signed: 2021/01/1							w document is not attached to permit applica		20.8(b) and <u>§120.8(e)</u> . For buildings with >= 10,000 ft
Address: 980 9th St Suite 2050		License: C 30345									.) and the Basis of Design Documents (Table H.). For nented in Table F. during the Design Review Kickoff.
City/State/Zip- Sacramento CA 95814		Phone: (916) 254-65	500					01 Attaching Completed Design Review D	ocumentation?	YES	NO
								J. COMMISSIONING PLAN		1	
								This section does not apply to this project.			
								K. FUNCTIONAL PERFORMANCE TESTIN	G		
								This section does not apply to this project.			
								L. DOCUMENTATION AND TRAINING			
								This section does not apply to this project.			
Registration Number:		Registration Date/Time:	Registration Provider: Energysoft	Registration Number:	Registration Dat	te/Time: Registrat	tion Provider: Energysoft	Registration Number:	Reg	istration Date/Time:	Registration Provider: Energysof
CA Building Energy Efficiency Standard	rds - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standa	ds - 2019 Nonresidential Compliance Report Version: Schema Version		ed: 2020-10-07 08:36:03	CA Building Energy Efficiency Standards -		ort Version: 2019.1.003 ema Version: rev 20190401	Report Generated: 2020-10-07 08:36:03
STATE OF CALIFORNIA				STATE OF CALIFORNIA				STATE OF CALIFORNIA			
Electrical Power Distribu	ution		CALIFORNIA ENERGY COMMISSION	Electrical Power Distrib	ution		NERGY COMMISSION	Electrical Power Distribution			CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF COMPLIANCE		and the second second	NRCC-ELC-E	CERTIFICATE OF COMPLIANCE	the most taken in the second second second		NRCC-ELC-E	CERTIFICATE OF COMPLIANCE			NRCC-ELC-
Project Name: Project Address:	Mesa Verde HS Concessio 7501 Ca	n/Restroom Report Page: rriage Drive Date Prepared:	(Page 3 of 5) 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report 7501 Carriage Drive Date Pr		(Page 2 of 5) 10/7/2020		liance with mandatory requirements in <u>§130</u> rations to electrical service systems in these o		
H. VOLTAGE DROP			1	D. EXCEPTIONAL CONDITIONS				Project Name:	Mesa Verde HS Concession/Restro		(Page 1 of 5
This table includes entirely new or comp	A REAL PROPERTY OF A READ REAL PROPERTY OF A REAL P		modify or replace both feeders and branch circuits to		comments because of selections made or data entered in tab	les throughout the form.		Project Address:	7501 Carriage D	rive Date Prepared:	10/7/202
01	c). For alterations, only the altered circuits 02	03	04 05	E. ADDITIONAL REMARKS				A. GENERAL INFORMATION O1 Project Location (city) Citrus H	eights	02 Occupancy Types Within Project:	8
Electrical Service Co Designation/Description	Combined Voltage Drop on Installed Feeder Circuit Conductors Compliance Meth		Calculations in Construction	This table is includes remarks made by	the permit applicant to the Authority Having Jurisdiction.			□ Office ⊠ Retail □ Parking Garage □ High-Ris	e Residential 🔲 Relocatable	768.7 10.27 10.25 20 11 19.5 12	chool Support Areas Other (write in) See Table I
	Permitted	0.235.346.40424	Documents Pass Fail	F. SERVICE ELECTRICAL METERING	electrical service systems OR equipment to demonstrate com	poliance with \$130 5/a)		B. PROJECT SCOPE			the write my
	Voltage drop less than 5% Code (Exc 130.5	ception to Attached 5(c))*		01	02 03	04	05		e within the scope of the permit application.		
The second s	*" is selected under Compliance Method o	A RECEIVED AND A DECEMBER OF A	tion applies in the space provided below. if allowed by the Authority Having Jurisdiction. Select "attached"	Electrical Service	Required Metering Capabilities per Ta Rating Listerian Back Tracking kW		Field Inspector	01	02	03 0	04 05 System subject to CA Elec Code
	responsibility of the installing contractor, s		If anowed by the Autionty Having Junguiction, Select attached	Designation/Description	(kVA) Instantaneous Historical Peak user-defin Demand (kW) Demand (kW) period	period construction bocuments	Pass Fail	Electrical Service Designation/Des	cription Scope of Work	Rating Utility Provided (kVA) Exception to	to §130.5(a) ² Article 517 Exception to §130.5(a)and (b)
Repair and the second	T RECEPTACLES AND CONTROLLED RE	Coupe of a first of a			50 🗆 🛛 🖾				New electrical service equ meter	uipment and 50 [
	plete replacement electrical power distributes, conference rooms, kitchen areas in officient	ce spaces, copy rooms and hotel/motel	ace with <u>\$130.5(d)</u> . Both controlled and uncontrolled receptacles guest rooms.	G. SEPARATION OF ELECTRICAL CI	CUITS FOR ENERGY MONITORING plete replacement electrical power distribution systems to der	monstrate compliance with \$130 5(b) Any load types that a	ire not included in the		responding to at least one		n are capable of receiving and automatically ch enables demand response after receiving a deman
01 Room name or Location/	02 / Type of Controlled	03 04 ff Controls Permanent Dura	05 06 able Location of Requirements in Field Inspector	service do not need to be shown.	02 1 02		05	06 Demand Response		120.2, §130.1 and §130.3 and compliance	ce documents NRCC-MCH, NRCC-LTI and NRCC-LTS wi
Second Flores Ch	Receptacles Shut-Off Shut-Off Controls above, please indicate he	Marking Will be		Load Type per Table 130.5-B	Minimum Required Separation of Compliance Metho	ad ²	Field Inspector		ch circuits triggers Voltage Drop 130,5(c), no other metering system that indicates instantaneous kW c		
J. DECLARATION OF REQUIRED CERT					Load per Table 130.5-B Compliance Method Compliance Method above, please indicate how compliance here	Documents Pas	ss Fail	C. COMPLIANCE RESULTS		annana ana nan jara salany sajaras panasi	
Selections have been made based on inj	nformation provided in this document. If a	THE REPORT OF A	mit applicant, an explanation should be included in Table E.	¹ FOOTNOTES: For each separate load type	up to 10% of the connected load may be of any type.			Results in this table are automatically calcul	ated from data input and calculations in Tabl nce or see applicable Table referenced below.	es F through I. Note: If any cell on this tabl	ble says "COMPLIES with Exceptional Conditions" refer
	must be provided to the building inspector 19standards/2019_compliance_document			Method 2: Switchboards/ motor control ce	nters/ panelboard loads disaggregated for each load type. ters/ panelboard supply other distribution equipment with loads disc ndividually and provisions for adding future branch circuit monitorin			01	02 03	04	05
Yes No		Form/Title	Field Inspector Pass Fail	Method 4: Complete metering system mea				Metering §130.5(a) Monitori	ration for ng <u>§130.5(b)</u> AND Voltage Drop <u>§130.5</u> (See Table H)	8120/2[0]	
NRCI-ELC-01-	L-E - Must be submitted for all buildings							(See Table F) (See Yes AND	Table G) (See Table H) Yes AND Yes	(See Table 1) AND Yes	COMPLIES
Registration Number:	the she there have been been as	Registration Date/Time:	Registration Provider: Energysoft	Registration Number:	Registration Dat		tion Provider: Energysoft	Registration Number:		istration Date/Time:	Registration Provider: Energysof
CA Building Energy Efficiency Standard	rds - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standa	ds - 2019 Nonresidential Compliance Report Version: Schema Version		ed: 2020-10-07 08:36:03	CA Building Energy Efficiency Standards -		ort Version: 2019.1.003 ema Version: rev 20190401	Report Generated: 2020-10-07 08:36:03
STATE OF CALIFORNIA				STATE OF CALIFORNIA				STATE OF CALIFORNIA			
Outdoor Lighting			CALIFORNIA ENERGY COMMISSION	Electrical Power Distrib	ution	CALIFORNIA E	NERGY COMMISSION	Electrical Power Distributio	on		CALIFORNIA ENERGY COMMISSIO
CERTIFICATE OF COMPLIANCE Project Name:	Mars Varda HE Concercio	on/Restroom Report Page:	NRCC-LTO-E	CERTIFICATE OF COMPLIANCE Project Name:	Mesa Verde HS Concession/Restroom Report	Page:	NRCC-ELC-E (Page 5 of 5)	CERTIFICATE OF COMPLIANCE Project Name:	Mesa Verde HS Concession/Restro	om Report Page:	NRCC-ELC- (Page 4 of 5
Project Address:		arriage Drive Date Prepared:	(Page 1 of 8) 10/7/2020	Project Address:	7501 Carriage Drive Date Pr		10/7/2020	Project Address:		rive Date Prepared:	10/7/202
A. GENERAL INFORMATION	1			DOCUMENTATION AUTHOR'S DEC	ARATION STATEMENT		1	K. DECLARATION OF REQUIRED CERTIFI	CATES OF ACCEPTANCE		
01 Project Location (city) 02 Climate Zone	Citrus Heights 12	04 Total Illuminated	d Hardscape Area (ft ²) 1100	The article Country and a second state of the particular test	pliance documentation is accurate and complete.	N. 85		There are no Certificates of Acceptance app	licable to electrical power distribution require	ements.	
03 Outdoor Lighting Zone per Title 2	24 Part 1 <u>§10.114</u> or as designated by Au		the instance by CA France Computed on fire Annual	Documentation Author Name: Alex K. Saes Company:	Signature 2020-1						
LZ-0: Very Low - Undeveloped Pa LZ-1: Low - Developed Parkland	Parkland LZ-2: Moderate - Rural Ar LZ-3: Moderately High - U		t be reviewed by CA Energy Commission for Approval	LP Consulting Engineers, Inc. Address: 1209 Pleasant Grove Blvd. City/State/Zip: Roseville CA 95678		.0-07 RS Certification Identification (if applicable):					
B. PROJECT SCOPE				RESPONSIBLE PERSON'S DECLARA							
This table includes outdoor lighting syste <u> §141.0(b)2L</u> for alterations.	tems that ore within the scope of the pern	nit application and are demonstrating o	compliance using the prescriptive path outlined in <u>§140.7</u> or	f certify the following under penalty of perjury, The information provided on this Ce Jam eligible under Division 3 of the		n or system design identified on this Certificate of Compliance Research to	(designer)				
My Project Consists of:	1		02	3. The energy features and performan of Title 24, Part 1 and Part 6 of the	e specifications, materials, components, and manufactured devices for the b alifornia Code of Regulations.	ouilding design or system design identified on this Certificate of Compliance	e conform to the requirements				
01 New Lighting System		ply with Allowances from <u>§140.7</u>	96	plans and specifications submitted	m design features identified on this Certificate of Compliance are consistent o the enforcement agency for approval with this building permit application. I copy of this Certificate of Compliance shall be made available with the build						
Altered Lighting System 03	ls your alte	ration increasing the connected lighting 04	g load (Watts)? O Yes O No 05		pleted signed copy of this Certificate of Compliance is required to be include	ed with the documentation the builder provides to the building owner at oc ble Designer Signature					
% of Existing Luminaires		l of Luminaires Being Added or Altered	Calculation Method	Alex K, Saev Company:	Date Sign	Alex K. Same					
< 10%	d < 50% shting Fixture Schedule to define the projection	ect's luminaires.	1	LP Consulting Engineers Address:	2020-10 License:	0-07					
			naires within the Scope of the Permit Application) x 100.	1209 Pleasant Grove Blvd. City/State/Zip:	18211 Phone:						
				Roseville CA 95678	916-771	1-0778					

STATE OF CALIFORNIA Nonresidential Building Com NRCC-CXR-E CERTIFICATE OF COMPLIANCE	nmissioning	CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Nonresidential Building NRCC-CXR-E CERTIFICATE OF COMPLIANCE	Commissioning		CALIFORNIA ENERGY COMMISSION	STATE OF CALIFORNIA Nonresidential Building Co NRCC-CXR-E CERTIFICATE OF COMPLIANCE	ommissioning	CALIFORNIA ENERGY COMMISSION
Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared:	(Page 6 of 6) 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession 7501 Carr	n/Restroom Report Page: rriage Drive Date Prepared:	(Page 5 of 6) 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared:	(Page 4 of 6) 10/7/2020
DOCUMENTATION AUTHOR'S DECLARATIO	ION STATEMENT		M. COMMISSIONING REPORT				F. DESIGN REVIEW KICKOFF MEETING		
I certify that this Certificate of Complianc Documentation Author Name: Sean Pourvakil	ce documentation is accurate and complete.		This section does not apply to this pro	ject.			15 HVAC System Goals		
Company:	Documentation Author Signat Signature Date: 2020-10-07	ure: 5 / ska ful	N. DECLARATION OF REQUIRED C				16 Indoor Lighting System Goals17 Outdoor Lighting System Goals		
LP Consulting Engineers, Inc. Address: 1209 Pleasant Grove Blvd.	CEA/ HERS Certification Identi	fication (if applicable):	There are no Certificates of Installatio	n applicable to commissioning requirements	S.		18 Water Heating System Goals 19 Equipment and System Specifications		
City/State/Zip: Roseville CA 95678 RESPONSIBLE PERSON'S DECLARATION ST			O. DECLARATION OF REQUIRED C		nmissioning requirements, Certificates of Accept	ance may be used to supplement functional	20 Operations and Maintenance		
certify the following under penalty of perjury, under the 1. The information provided on this Certificate o	of Compliance is true and correct.		performance testing required by 5120		innissioning requirements, certificates of Accept	once may be used to supplement functional	G. OWNER'S PROJECT REQUIREMENTS	(OPR)	
	; and Professions Code to accept responsibility for the building design or system design id- ications, materials, components, and manufactured devices for the building design or syst a Code of Regulations.						This section does not apply to this project.		
 The building design features or system design plans and specifications submitted to the enformation 	n features identified on this Certificate of Compliance are consistent with the information forcement agency for approval with this building permit application.						H. BASIS OF DESIGN (BOD)		
inspections. I understand that a completed sig	f this Certificate of Compliance shall be made available with the building permit(s) issued igned copy of this Certificate of Compliance is required to be included with the document	tation the builder provides to the building owner at occupancy.					This section does not apply to this project.		
Responsible Designer Name: Company:	Responsible Designer Signatur Date Signed: 2021/01						I. CONSTRUCTION DOCUMENT DESIGN This table is only completed if a design revie	REVIEW CHECKLIST w document is not attached to permit application to demonstrate compliar	nce with \$120.8(b) and \$120.8(c). For buildings with >= 10.000 ft ²
BCA Architects Address: 980 9th St Suite 2050	License: C 30345						conditioned floor area, the design review w	ill ensure the construction documents meet the Owner's Project Requirements area, the design review will ensure the construction documents meet the g	nts (Table G.) and the Basis of Design Documents (Table H.). For
City/State/Zip Sacramento CA 95814	Phone: (916) 254-	6500					01 Attaching Completed Design Review D	VES	
Sacramento CA 95814								•	0
							J. COMMISSIONING PLAN This section does not apply to this project.		
							K. FUNCTIONAL PERFORMANCE TESTIN	16	
							This section does not apply to this project.		
							L. DOCUMENTATION AND TRAINING		
							This section does not apply to this project.		
Registration Number:	Registration Date/Time:	Registration Provider: Energysoft	Registration Number:		Registration Date/Time:	Registration Provider: Energysoft	Registration Number:	Registration Date/Time:	Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 20*		Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standa	rds - 2019 Nonresidential Compliance	Report Version: 2019.1.003	Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standards -		Report Generated: 2020-10-07 08:36:03
	Schema Version: rev 20190401				Schema Version: rev 20190401			Schema Version: rev 20190401	
STATE OF CALIFORNIA Electrical Power Distribution	D		STATE OF CALIFORNIA Electrical Power Distrib	ution			STATE OF CALIFORNIA Electrical Power Distribution		
NRCC-ELC-E		CALIFORNIA ENERGY COMMISSION	NRCC-ELC-E	unon		CALIFORNIA ENERGY COMMISSION	NRCC-ELC-E		CALIFORNIA ENERGY COMMISSION
Project Name:	Mesa Verde HS Concession/Restroom Report Page:	NRCC-ELC-E (Page 3 of 5)	Project Name:	Mesa Verde HS Concession		NRCC-ELC-E (Page 2 of 5)	This document is used to demonstrate comp	pliance with mandatory requirements in <u>§130.5</u> , for electrical systems in new	
Project Address:	7501 Carriage Drive Date Prepared:	10/7/2020	Project Address:	7501 Cari	rriage Drive Date Prepared:	10/7/2020	hotel/motel occupancies. Additions and alte <u>§141.0(b)2P</u> for alterations	rations to electrical service systems in these occupancies will also use this a	
H. VOLTAGE DROP			D. EXCEPTIONAL CONDITIONS	1			Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared:	(Page 1 of 5) 10/7/2020
THE REPORT OF A DESCRIPTION OF A DESCRIP	eplacement electrical power distribution systems, or alterations that ad alterations, only the altered circuits must demonstrate compliance per §		This table is auto-filled with uneditabl	e comments because of selections made or o	data entered in tables throughout the form.		A. GENERAL INFORMATION		
01	02 03	04 05 Sheet Number for Voltage Drop Field Inspector	E. ADDITIONAL REMARKS	the permit applicant to the Authority Havir	ing Jurisdiction		01 Project Location (city) Citrus F		
	ed Voltage Drop on Installed Feeder/Branch Location of Voltage ircuit Conductors Compliance Method Calculations ¹	Drop Calculations in Construction Pass Fail	F. SERVICE ELECTRICAL METERING		ng sunsulation.		□ Office ⊠ Retail □ Parking Garage □ High-Ri	Ø Warehouse I Hotel/Motel se Residential I Relocatable I Healthcare Facilities	
Voltag	age drop less than Permitted by CA Elec Code (Exception to Attached			t electrical service systems OR equipment to	o demonstrate compliance with <u>§130.5(a)</u>		B. PROJECT SCOPE		
	5% 130.5(c))*		01	02 Required Metering	03 g Capabilities per <u>Table 130.5-A</u>	04 05 Field Inspector	This table includes electrical systems that a	re within the scope of the permit application.	04 05
¹ FOOTNOTES: Voltage drop calculations may b	elected under Compliance Method above, please indicate where the exc be attached to the permit application outside the construction docume		Electrical Service Designation/Description	Rating (INVA) Instantaneous Historical P	Peak Tracking kWh for kWh per rate Lo	cation of Requirements in Construction Documents Pass Fail		Rating Litili	ty Provided Metering System System Subject to CA Elec Code
if applicable. If calculations will be the respons	sibility of the installing contractor, select "Contractor Responsible".			Demand (kW) Demand (k	kW) period period		Electrical Service Designation/Des	CODD CODD AT MARKS	Exception to §130.5(a) ² Article 517 Exception to §130.5(a)and (b)
	EPTACLES AND CONTROLLED RECEPTACLES eplacement electrical power distribution systems to demonstrate compl	innre with 5130 5(d). Both controlled and uncontrolled recentaries		50 🗆 🛛				New electrical service equipment and 50 meter	
	ference rooms, kitchen areas in office spaces, copy rooms and hotel/mo			RCUITS FOR ENERGY MONITORING plete replacement electrical power distribu	ution systems to demonstrate compliance with §	<u>130.5(b)</u> . Any load types that are not included in the	06 Demand Response		rotocol which enables demand response after receiving a demand
Room name or Location/ Type of	of Controlled Shut-Off Controls Permanent D		service do not need to be shown. 01	02	03 04	05	bernand Response	response signal. Sections <u>§120.2</u> , <u>§130.1</u> and <u>§130.3</u> and indicate when demand response controls are required.	d compliance documents NRCC-MCH, NRCC-LTI and NRCC-LTS will
Description Recepted * NOTES: If "Other*" is selected under Shut-Off	acles Marking Will t Iff Controls above, please indicate how compliance has been achieved in		Load Type per <u>Table 130.5-B</u> ¹	Minimum Required Separation of Load per <u>Table 130.5-B</u>	Compliance Method ² Location of Requireme Docume			ch circuits triggers Voltage Drop 130.5(c), no other requirements from 130.5 are req metering system that indicates instantaneous kW demand and kWh for a utility-defi	
J. DECLARATION OF REQUIRED CERTIFICA	ATES OF INSTALLATION		* NOTES: If "Other*" is selected under		how compliance has been achieved in the space	i ala i ali	C. COMPLIANCE RESULTS		
	tion provided in this document. If any selection have been changed by p be provided to the building inspector during construction and can be four			, up to 10% of the connected load may be of any			The second	lated from data input and calculations in Tables F through I. Note: If any cel nce or see applicable Table referenced below.	on this table says "COMPLIES with Exceptional Conditions" refer
	dards/2019_compliance_documents/Nonresidential_Documents/NRCI/		Method 2: Switchboards/ motor control ce	enters/ panelboard loads disaggregated for each nters/ panelboard supply other distribution equip individually and provisions for adding future bra	ipment with loads disaggregated for each load type.		01	02 03 04	05
Yes No	Form/Title	Field Inspector Pass Fail	Method 4: Complete metering system mea				Metering §130.5(a) Monitor	ration for ng §130.5(b) AND Voltage Drop §130.5(c) AND Controlled Reception (See Table H) (See Table H)	
NRCI-ELC-01-E - Mu:	ust be submitted for all buildings					Ψ.		Table G) (See Table H) (See Table I) Yes AND Yes AND Yes	COMPLIES
Registration Number:	Registration Date/Time:	Registration Provider: Energysoft	Registration Number:		Registration Date/Time;	Registration Provider: Energysoft	Registration Number:	Registration Date/Time:	Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 20*	019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standa	rds - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2020-10-07 08:36:03	CA Building Energy Efficiency Standards -	2019 Nonresidential Compliance Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2020-10-07 08:36:03
STATE OF CALIFORNIA			STATE OF CALIFORNIA				STATE OF CALIFORNIA		
Outdoor Lighting		CALIFORNIA ENERGY COMMISSION	Electrical Power Distrib	ution		CALIFORNIA ENERGY COMMISSION	Electrical Power Distributio	on	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE		NRCC-LTO-E	CERTIFICATE OF COMPLIANCE		an a	NRCC-ELC-E	CERTIFICATE OF COMPLIANCE		NRCC-ELC-E
Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared:	(Page 1 of 8) 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession 7501 Carr	riage Drive Date Prepared:	(Page 5 of 5) 10/7/2020	Project Name: Project Address:	Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared:	(Page 4 of 5) 10/7/2020
A. GENERAL INFORMATION									
01 Project Location (city)	Citrus Heights 04 Total Illumina	ted Hardscape Area (ft ²) 1100	DOCUMENTATION AUTHOR'S DEC I certify that this Certificate of Co	LARATION STATEMENT npliance documentation is accurate an	nd complete.	~	K. DECLARATION OF REQUIRED CERTIF	Icable to electrical power distribution requirements.	
02 Climate Zone 03 Outdoor Lighting Zone per Title 24 Part	12 t 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):		Documentation Author Name: Alex K. Sae	/	Documentation Author Signature:	(Sure			
LZ-0: Very Low - Undeveloped Parkland	d □ LZ-2: Moderate - Rural Areas □ LZ-4: High - M ☑ LZ-3: Moderately High - Urban Areas	lust be reviewed by CA Energy Commission for Approval	LP Consulting Engineers, Inc. Address: 1209 Pleasant Grove Blvd.		2020-10-07 CEA/ HERS Certification Identification (if appli	cable):			
	I a la se moderatery right - orbait Areas		City/State/Zip: Roseville CA 95678 RESPONSIBLE PERSON'S DECLARA	TION STATEMENT	Phone:				
	hat are within the scope of the permit application and are demonstratin	g compliance using the prescriptive path outlined in <u>§140.7</u> or	I certify the following under penalty of perjury,						
<u>§141.0(b)2L</u> for alterations. My Project Consists of:			 I am eligible under Division 3 of the The energy features and performance 	Business and Professions Code to accept responsibility ce specifications, materials, components, and manufac	ty for the building design or system design identified on this actured devices for the building design or system design ider	Certificate of Compliance (responsible designer) tified on this Certificate of Compliance conform to the requirements			
01	Murt Complexitit Allering of the Street	02	of Title 24, Part 1 and Part 6 of the 4. The building design features or syst	California Code of Regulations.	mpliance are consistent with the information provided on ot	her applicable compliance documents, worksheets, calculations,			
 New Lighting System Altered Lighting System 	Must Comply with Allowances from <u>\$140.7</u> Is your alteration increasing the connected light	ting load (Watts)?	5. I will ensure that a completed signe	d copy of this Certificate of Compliance shall be made		, and made available to the enforcement agency for all applicable or provides to the building owner at occupancy.			
03 % of Existing Luminaires Being A	04 Altered ¹ Sum Total of Luminaires Being Added or Alter	05 ed Calculation Method	Responsible Designer Name: Alex K, Saev		Responsible Designer Signature:				
□ < 10% □ >= 10% and < 50%	% □ >= 50%		Company: LP Consulting Engineers		Date Signed: 2020-10-07				
	Fixture Schedule to define the project's luminaires. Altered = (Sum Total of Luminaires Being Added or Altered / Existing Lu.	minaires within the Scope of the Permit Application) x 100.	Address: 1209 Pleasant Grove Blvd.		License: 18211				
and a second s	Land and the second s		City/State/Zip: Roseville CA 95678		Phone: 916-771-0778				
			A						

ц.	< 10%	U U	>= 10% anu < 50%
Please	proceed to	Table F.	Outdoor Lighting F

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03

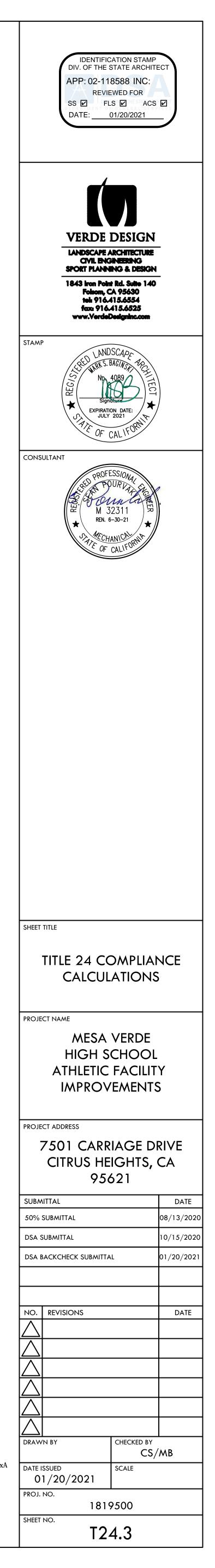
Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03





STATE OF CALIFORNIA				
Outdoor Lighting				
NRCC-LTO-E			CALI	FORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	and the second second	and the second of the second o		NRCC-LTO-E
Project Name:	Mesa Verde HS Concessio	n/Restroom Report Page:		(Page 4 of 8)
Project Address:	7501 Ca	rriage Drive Date Prepared:		10/7/2020
G. CUTOFF REQUIREMENTS (BUG)				
This section does not apply to this project.				
H. OUTDOOR LIGHTING CONTROLS				
This table demonstrates compliance with c existing to remain (ie untouched) and lumin the permit application. When an option having a * is selected, the "DOES NOT COMPLY" if the notes are left b	naires which are removed and reinstall notes section of this table must be con	ed (wiring only) do not need to be inclu	ided in this table even if they are w	ithin the spaces covered by
Mandatory Controls				
01	02	03	04	05
Area Description	Shut-Off 5130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.

EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

	AFE CATE OF COMPLIANCE Name: Mesa Verde Address: CLARATION OF REQUIRED CERTIFICATES OF INSTALLATION ons have been made based on information provided in this doo nal Remarks. These documents must be provided to the buildin www.energy.ca.gov/title24/2019standards/2019_compliance is No NRCI-LTO-01-E - Must be submitted for all NRCI-LTO-02-E- Must be submitted for a lig recognized for compliance. CLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE ons have been made based on information provided in this doo name based on information provided in this doo name based on information provided for a lig						
Registration	Number:		Registration Date/Time:	Registration Provi	ider: Energ		
CA Building B	Energy Efficie	ency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190401	Report Generated: 2020-10-0			
Contract of the second				CALIFORNIA ENERGY COM			
Western Straffer	RCC-LTO-E ERTIFICATE OF COMPLIANCE				NRCC		
Project Name			cession/Restroom Report Page:		(Page		
Project Addre	ess:	75	01 Carriage Drive Date Prepared:		10/7		
Yes	1	gov ancen 2013standardsy2013_compliance_doca	Form/Title	Field	Inspector		
103				Pass	Fa		
•	0	NRCI-LTO-01-E - Must be submitted for all buildin					
0	٠		ontrol system, or for an Energy Management Control System (EMCS), to	be 🗆	E		
P. DECLARA	ATION OF I	REQUIRED CERTIFICATES OF ACCEPTANCE					
Additional R	lemarks. Th	ese documents must be provided to the building insp	. If any selection have been changed by permit applicant, an explanation ector during construction and must be completed through an Acceptance e24/attcp/providers.html				
Yes	No		Form/Title	Field	Inspecto		
ines.				Pass	Fa		
۲		NRCA-LTO-02-A - Must be submitted for all outdo luminaires.	or lighting controls except for alterations where controls are added to $<=$	= 20	C		

Registration Number:	Registration Date/Time:
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20190401

STATE OF CALIFORNIA **Outdoor Lighting**

NRCC-LTO-E

Project Name:

Project Address:

Pass Fail

CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE Mesa Verde HS Concession/Restroom Report Page: 7501 Carriage Drive Date Prepared:

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with <u>\$140.7</u> all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and eplacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattag	e:			a transformer and			10 mm - 10 mm						
01	02		03	04	05	06	07	08	09	1	0		
Name or Item Tag	Complete Lumina	aire Description	Watts per luminaire ^{1, 2}	How is Wattage	Total number luminaires ²	Luminaire Status ³	Excluded per	Design Watts	Cutoff Req. > 6,200 initial lumen output	Field Inspector			
105			iunmane /	determined	luninarea	516103	3410.7101		<u>§130.2(b)</u> ⁴	Pass	Fai		
3	В	🗆 Linear	29	CEC Default	1	New		29	NA: < 6200 lumens				
4	BE 🗆 Linear 29		CEC Default	1	New		29	NA: < 6200 lumens					
В	В	🗆 Linear 29		B 🗌 Linear 29	29	CEC Default	2	New		58	NA: < 6200 lumens		
BE	E BE 🗆 Linear 29		BE 🗍 Linear		BE 🗌 Linear 29		2	New		58	NA: < 6200 lumens		
D	D	🗆 Linear	27	CEC Default	4	New	D	108	NA: < 6200 lumens				
DE	DE	🗆 Linear	27	CEC Default	4	New	D	108	NA: < 6200 lumens				
					*	Tota	al Design Watts:	390					

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved. EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

¹FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c) ² For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires. ³ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.

			⁴ Compliance with mandatory cutoff requir	ements is required for luminaires with i	initial lumen ou	tput >= 6,200 ui	nless exempted	by <u>§130.2(b)</u>				
Regi	istration Provide	er: Energysoft	Registration Number:		Re	gistration Date/	Time:			Re	gistration Provid	er: Energysoft
port Gen	nerated: 2020-10	0-07 08:36:03	CA Building Energy Efficiency Standards -	2019 Nonresidential Compliance		port Version: 20 nema Version: r			Report Generated: 2020-10-07 08:36:03			
CALIFOR	RNIA ENERGY (COMMISSION	STATE OF CALIFORNIA Outdoor Lighting NRCC-LTO-E							CALIFC	DRNIA ENERGY	COMMISSION
		NRCC-LTO-E	CERTIFICATE OF COMPLIANCE			1					000.050505050	NRCC-LTO-E
		(Page 7 of 8)	Project Name:	Mesa Verde HS C	oncession/Rest	room Report Pa	age:					(Page 6 of 8)
		10/7/2020	Project Address:		7501 Carriage	Drive Date Pre	pared:					10/7/2020
hould be	e included in To	able E.	J. LIGHTING ALLOWANCE: PER APP This table includes areas using the wat		m <u>Table 140.7</u>	<u>B</u> .						
			01	02	03	04	05	06	07	08	09	10
1 2010					CALCULAT	ED ALLOWAN	CE (Watts)	1	DESIGN	WATTS		a line - i
	Field In Pass			Application per <u>Table 140.7-B</u> 1	# of Locations	Allowance per Location ²	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
e			Total and the state of the second	Duilding Fabrican /Fait		19	19	3	29	1	29	10
1 I d f .		CALL C	Exterior Lighting - Ticket Booth	Building Entrance/Exit	1	19	19	4	29	1	29	19
	e included in Tu hnician Certific				·			Tota	Design Watt	s for this Area	: 58	T
icor icor	interest certific								Total A	llowance (Wa	atts) All Areas:	19
	Field In	spector	¹ FOOTNOTES: Primary entrance opplication	ns are only available for senior care fac	ilities, healthca	re facilities, poli	ce stations, hos	oitals, fire statio	ons, and emerge	ency vehicle fac	ilities.	
	Pass	Fail	² The Allowance per Location for ATMs is 10		and the second							
20			³ For luminaires indicated in Table F as lined	n, wattage in column 07 is W/lf instead	d of Watts/lumi	ndire. Total line	ar feet should be	e indicated in co	lumn 08 instea	d of number of	luminaires.	
1 h.	-		K. LIGHTING ALLOWANCE: SALES F	RONTAGE								
			This section does not apply to this pro	18735-0-1988-1998								
			interesting to be a set of the se	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)								
			L. LIGHTING ALLOWANCE: ORNAM	IENTAL								
			This section does not apply to this pro	ect.								
			M. LIGHTING ALLOWANCE: PER SP	ECIFIC AREA								
			This section does not apply to this pro	ect,								
			N. EXISTING CONDITIONS POWER	ALLOWANCE (alterations only)	0							
			This section does not apply to this pro	ect.								

Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

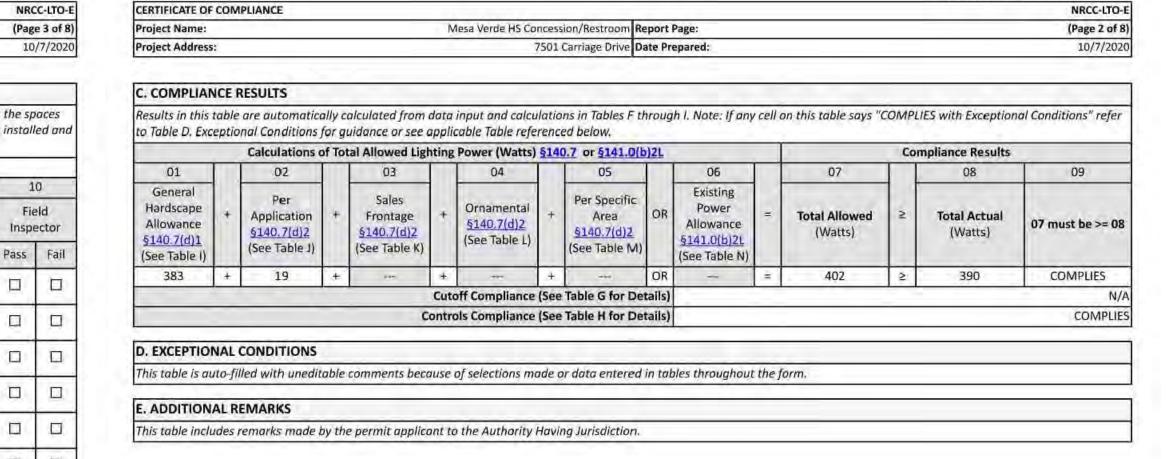
Registration Number:

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03

STATE OF CALIFORNIA **Outdoor Lighting**

NRCC-LTO-E



Registration Number:	Regis	tration Date/Time:			Registration Provider: Energysoft		
CA Building Energy Efficiency Standards - 2019 Non-		rt Version: 2019.1.00 ma Version: rev 20190			Report Generated: 2020-10-07 08:36:03		
STATE OF CALIFORNIA							
Outdoor Lighting							
NRCC-LTO-E					CALIFORNIA ENI	ERGY COMMISSION	
CERTIFICATE OF COMPLIANCE	and the second se	-				NRCC-LTO-E	
Project Name:	Mana Manda 116 Generation (Burkey)	Papart Page				(Page 5 of 8)	
Project Name:	Mesa Verde HS Concession/Restro	unineport Fage.					
Project Address:		ive Date Prepared:				10/7/2020	
Project Address: I. LIGHTING POWER ALLOWANCE (per §140 This table includes areas using allowance calculo	7501 Carriage Dr 0.7) ations per <u>\$140.7</u> . General Hardscape	The second second second		01			
Project Address: I. LIGHTING POWER ALLOWANCE (per §140 This table includes areas using allowance calculo Allowance is per <u>Table 140.7-A</u> while "Use it or lo	7501 Carriage Dr 0.7) ations per <u>\$140.7</u> . General Hardscape ose it" Allowances are per <u>Table 140.7-B</u> .	The second second second	"Use it or lose	01 it" Allowance (select	all that apply) (sele	10/7/2020	
Project Address: I. LIGHTING POWER ALLOWANCE (per §140 This table includes areas using allowance calculo	7501 Carriage Dr 0.7) ations per <u>\$140.7</u> . General Hardscape ose it" Allowances are per <u>Table 140.7-B</u> , band sections for user input. Luminaires	Date Prepared:	"Use it or lose	00	all that apply) (sele Ornamental Table L	10/7/2020	
Project Address: I. LIGHTING POWER ALLOWANCE (per §140 This table includes areas using allowance calcule Allowance is per <u>Table 140.7-A</u> while "Use it or low Indicate which allowances are being used to exp that qualify for one of the "Use it or lose it" allow	7501 Carriage Dr 0.7) ations per <u>§140.7</u> . General Hardscape ose it" Allowances are per <u>Table 140.7-B</u> , band sections for user input. Luminaires wances shall not qualify for another "Use	ive Date Prepared: ⊠ General Hardscape Allowance	Per Application	it" Allowance (select	Ornamental	10/7/2020 ect all that apply)	
Project Address: I. LIGHTING POWER ALLOWANCE (per §140 This table includes areas using allowance calcula Allowance is per <u>Table 140.7-A</u> while "Use it or lo Indicate which allowances are being used to exp that qualify for one of the "Use it or lose it" allow it or lose it" allowance.	7501 Carriage Dr 0.7) ations per <u>§140.7</u> . General Hardscape ose it" Allowances are per <u>Table 140.7-B</u> , band sections for user input. Luminaires wances shall not qualify for another "Use	ive Date Prepared: ⊠ General Hardscape Allowance	Per Application	it" Allowance (select	Ornamental	10/7/2020 ect all that apply)	
Project Address: I. LIGHTING POWER ALLOWANCE (per §140 This table includes areas using allowance calcula Allowance is per <u>Table 140.7-A</u> while "Use it or la Indicate which allowances are being used to exp that qualify for one of the "Use it or lose it" allow it or lose it" allowance. Calculated General Hardscape Lighting Power Al	7501 Carriage Dr 0.7) ations per <u>§140.7</u> . General Hardscape ose it" Allowances are per <u>Table 140.7-B</u> . band sections for user input. Luminaires wances shall not qualify for another "Use llowance per Table 140.7-A (LZ 0, 1 & 4)	ive Date Prepared: ⊠ General Hardscape Allowance	Per Application	it" Allowance (select	Ornamental	10/7/2020 ect all that apply)	

02	03	04	05	06	07	08	9	10
		Area V	Vattage Allowance	e (AWA)	Area \	(AWA)	Table	
Area Description	Surface Type	Illuminated Area (ft ²)	Allowed Density (W/ft ²)	Area Allowance (Watts)	Perimeter Length (If)	Allowed Density (W/If)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Exterior Lighting - Concession Building	Concrete	1100	0.03	33	0	0.4	0	33
					nitial Wattage	Allowance for Ent	ire Site (Watts):	350
					Total Gene	eral Hardscape Allo	wance (Watts):	383

Registration Number:

cribanang	ruciely runciency	Standards - 2019 Nonresidential Compliance	

Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Date/Time:

Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03

STATE OF CALIFORNIA **Outdoor Lighting** NRCC.ITO.S

NRCC-LTO-E		CALIFORNIA ENERGY COMMISSION							
CERTIFICATE OF COMPLIANCE	Street and street	NRCC-LTO-E							
Project Name:	Mesa Verde HS Concession/Restroom	Report Page: (Page 8 of 8)							
Project Address:	7501 Carriage Drive	Date Prepared: 10/7/2020							
DOCUMENTATION AUTHOR'S DECLARA	ATION STATEMENT								
I certify that this Certificate of Complia	ance documentation is accurate and comple	te.							
Documentation Author Name: Alex K. Saev		Documentation Author Signature: Alla K Sure							
Company: LP Consulting Engineers, Inc.		Signature Date:							
Address: 1209 Pleasant Grove Blvd.		CEA/ HERS Certification Identification (if applicable):							
City/State/Zip: Roseville CA 95678		Phone:							
 The energy features and performance spe of Title 24, Part 1 and Part 6 of the Californ The building design features or system des plans and specifications submitted to the 5. I will ensure that a completed signed copy 	the laws of the State of California: te of Compliance is true and correct. ess and Professions Code to accept responsibility for the build cifications, materials, components, and manufactured device nia Code of Regulations. sign features identified on this Certificate of Compliance are of enforcement agency for approval with this building permit ap to f this Certificate of Compliance shall be made available with	fing design or system design identified on this Certificate of Compliance (responsible designer) s for the building design or system design identified on this Certificate of Compliance conform to the requirements consistent with the information provided on other applicable compliance documents, worksheets, calculations, plication, In the building permit(s) issued for the building, and made available to the enforcement agency for all applicable be included with the documentation the builder provides to the building owner at occupancy.							
Responsible Designer Name: Alex K, Saev Company: LP Consulting Engineers		Responsible Designer Signature: Alex K Same Date Signed: 2020-10-07							

License: 18211

Phone: 916-771-0778

City/State/Zip: Roseville CA 95678

1209 Pleasant Grove Blvd.

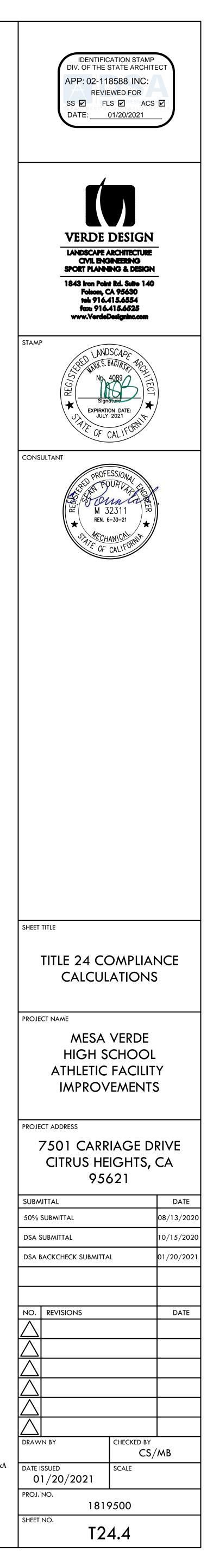
Registration Number:

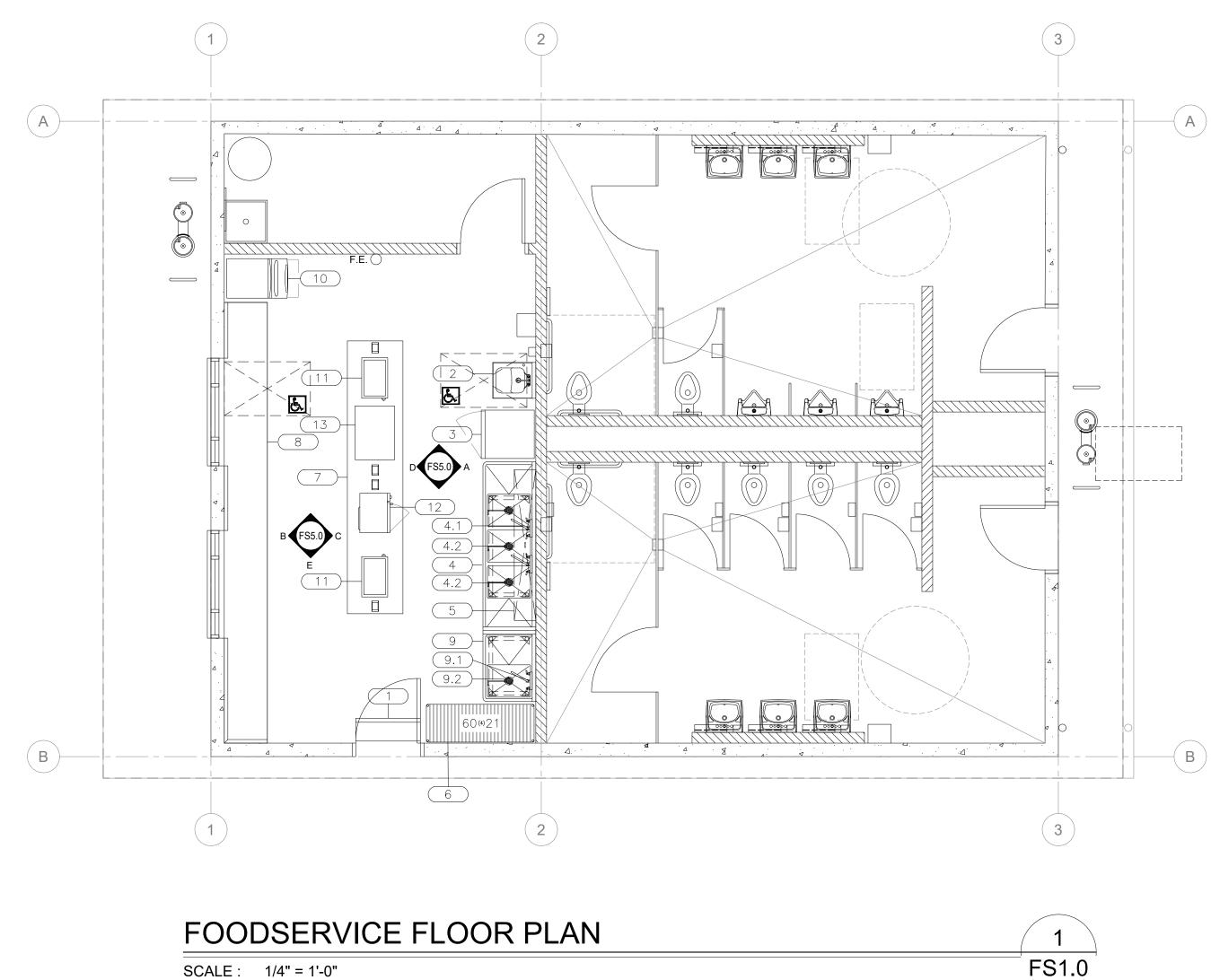
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: Report Version: 2019.1.003 Schema Version: rev 20190401

Registration Provider: Energysoft Report Generated: 2020-10-07 08:36:03









SCALE : 1/4" = 1'-0"



QC INI %

TEM NO	QTY	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	ANCHORAGE DETAIL	EQUIPMENT WT. LBS	EQUIPMENT REMARKS	ADDITIVE ALTERNATES
1	1	AIR CURTAIN, UNHEATED	MARS AIR DOORS	N236-1U	E/FS4.0	60		
2	1	HAND SINK, WALL MOUNT	EAGLE MFG	YAMD-HSAP-14-0001-00	I/FS4.0	55	(1)	
3	1	DUAL TEMP REFRIG/FREEZER	TRUE FOOD SERVICE	T-23DT-G	H/FS4.0	380		1
	1	SINK, SCULLERY, 3 COMPARTMENTS	FSI STAINLESS STEEL FABRICATORS	FABRICATED ITEM	G/FS4.0	165		
.1	2	FAUCET, BACKSPLASH MOUNT	CHICAGO FAUCET	445-L12RABCP			CA. COMPLIANT FOR LOW LEAD	
.2	3	DRAIN, LEVER HANDLE	FISHER	22209				
	1	WALL MOUNTED OVERSHELF	ADVANCE TABCO	WS-12-84	J/FS4.0	25		
	1	STORAGE SHELVING	METRO	A2160NC	K/FS4.0	65	(5) TIER SHELVES 74" POSTS	
	1	ISLAND SERVICE COUNTER	FSI STAINLESS STEEL FABRICATORS	FABRICATED ITEM	L/FS4.0	410		
	1	SERVICE COUNTER	FSI STAINLESS STEEL FABRICATORS	FABRICATED ITEM	L/FS4.0	320		
	1	PREP SINK	FSI STAINLESS STEEL FABRICATORS	FABRICATED ITEM	G/FS4.0	80		
.1	1	FAUCET, BACKSPLASH MOUNT	CHICAGO FAUCET	445-L12RABCP		5	CA. COMPLIANT FOR LOW LEAD	
.2	1	DRAIN, LEVER HANDLE	FISHER	22209		4.5		
0	1	ICE MAKER W/ BIN	MANITOWOC	IYTO620A-161/D-420	H/FS4.0	145		1
1	2	COUNTER TOP WARMER	APW-WYOTT	CW-2Ai		29		1
2	1	MICROWAVE OVEN	AMANA	RCS10DSE		48		1
3	1	POPCORN MAKER (OWNER FURNISHED)	GOLD MEDAL PROPDUCTS CO.	2014				
NOTI		VIDE W/ RIGHT AND LEFT SIDE SPLASHES						

Ν	0	T	E:	

- 1. ALL PENETRATIONS 12" OR LARGER TO BE CAST AT THE PRE-CAST MANUFACTURER'S PLANT AND WILL BE COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER PRIOR TO CASTING.
- 2. ALL PENETRATIONS SMALLER THAN 12" SHALL BE CORED IN THE FIELD AND COORDINATED WITH THE ENGINEER OF RECORD AND THE PRE-CAST CONCRETE ENGINEER. PRIOR TO CORING, PRE-CAST ENGINEER TO REVIEW LOCATIONS TO ENSURE THE PENETRATIONS ARE NOT GOING THROUGH FLEXURAL REINFORCEMENT.

NOTES:

- . REFER TO ARCH. DRAWINGS FOR FIRE EXTINGUISHER LOCATIONS
- 2. "All work shall conform to the California Building Code, California Electrical Code, California Mechanical
- and Plumbing Codes, California Health and Safety Code. ALL FOOD SERVICES EQUIPMENT SHALL MEET AND BE INSTALLED PER
- THE REQUIREMENTS OF THE CALIFORNIA HEALTH AND SAFETY
- CODE DIVISION 22 AND ALL LOCAL CODES AND ORDINANCES."

KITCHEN EQUIPMENT ANCHORAGE NOTES

ALL KITCHEN EQUIPMENT SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND 2019 ASCE 7-10 CHAPTER 13, 26 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS. 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES
- SUCH AS ELECTRICITY, GAS OR WATER. 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER
- OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING KITCHEN EQUIPMENT SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- A.COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- B.COMPONENTS WEIGHTING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL

ABOVE REQUIREMENTS.



- FS3.0 FOODSERVICE ELECTRICAL FLOOR PLAN FS4.0 - FOODSERVICE EQUIPMENT DETAILS
- FS5.0 FOODSERVICE EQUIPMENT ELEVATIONS



- . PROVIDE THERMOMETER IN ALL REFRIGERATION UNITS CONTAINING PERISHABLE FOODS. PROVIDE PROBE THERMOMETER FOR CHECKING HOT AND
- COLD FOODS. 3. FOOD STORAGE SHELVES SHALL BE MINIMUM SIZE (6) INCHES
- ABOVE FLOOR. 4. ALL EQUIPMENT SHALL MEET OR BE EQUIVALENT TO "NSF"
- STANDARDS. PROVIDE GARMENT STORAGE AREA: LOCKER, CABINET OR HANGERS FOR EMPLOYEE GARMENTS.
- RODENT AND INSECT-PROOF ALL EXTERIOR DOORS AND WINDOWS. PROVIDE HEAVY-DUTY SELF-CLOSERS ON ALL EXTERIOR DOORS AND RESTROOM DOORS. SEAL ALL HOLES
- OR GAPS AROUND PIPES ENTERING BUILDING. EXTERIOR DOORS SHALL BE RODENT PROOF WITH NO
- OPENINGS GREATER THAN 1/4 INCH. PROVIDE HARDWOOD, METAL, FORMICA OR OTHER APPROVED
- MATERIALS, SMOOTH WITH SEALER ON ALL TABLE, COUNTERS, SHELVES, AND OTHER FOOD CONTACT SURFACES.
- PROVIDE HAZARDOUS SUBSTANCE LOCATION: SEPARATE CABINET, ROOM OR DESIGNATED AREA FOR STORAGE OF
- PESTICIDE AND CLEANING COMPOUNDS. 10. INSTALL EQUIPMENT TO FACILITATE CLEANING. PLACE FLOOR MOUNTED UNITS ON CASTERS, MINIMUM SIX (6) INCHES HIGH,
- 15. PROVIDE PROTECTIVE COVERS ON ALL LIGHTS IN FOOD PREPARATION, OPENED FOOD STORAGE ROOM(S), UTENSIL WASH AREAS, OR USE SHATTERPROOF BULBS. 16. LIGHTING REQUIREMENTS:

ACCESSIBLE FOR CLEANING.

FOUR (4) INCH CURB.

WASHING SINKS.

-MINIMUM 50FT. CANDLES REQUIRED IN FOOD PREP AREA -MINIMUM 20FT. CANDLES REQUIRED IN RESTROOMS AND BARS -MINIMUM 10FT. CANDLES REQUIRED IN REFRIGERATORS -MINIMUM 10FT. CANDLES REQUIRED IN STORAGE AREAS -LIGHTING SHALL BE SHATTERPROOF OR SHIELDED

. UNPACKAGED PROCESSED FOODS ON DISPLAY SHALL BE

3. FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FLOOR AND

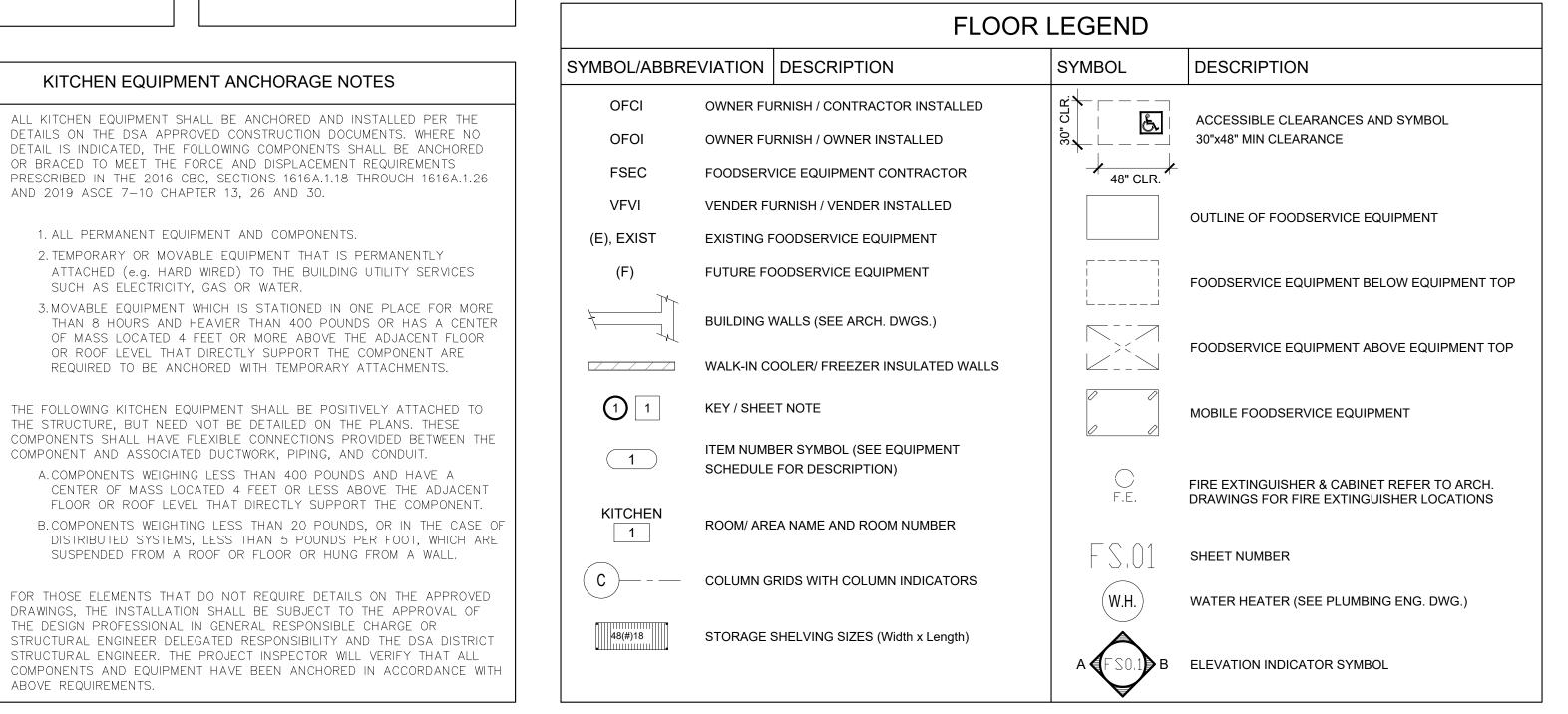
. PROVIDE SOAP AND TOWEL DISPENSERS AT ALL HAND

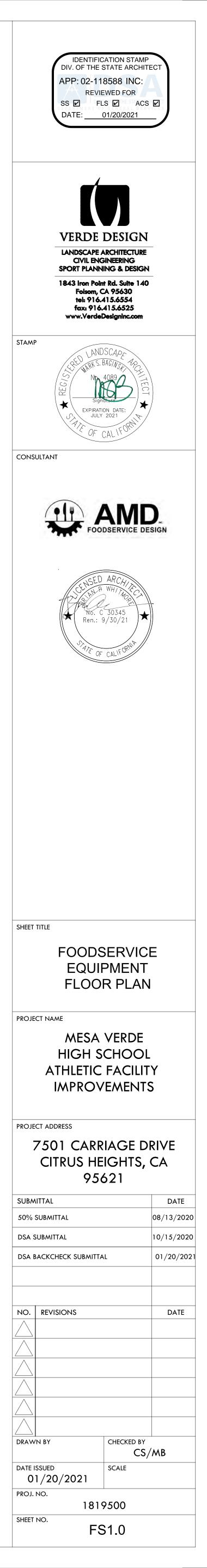
4. GREASE INTERCEPTORS SHALL BE INSTALLED READILY

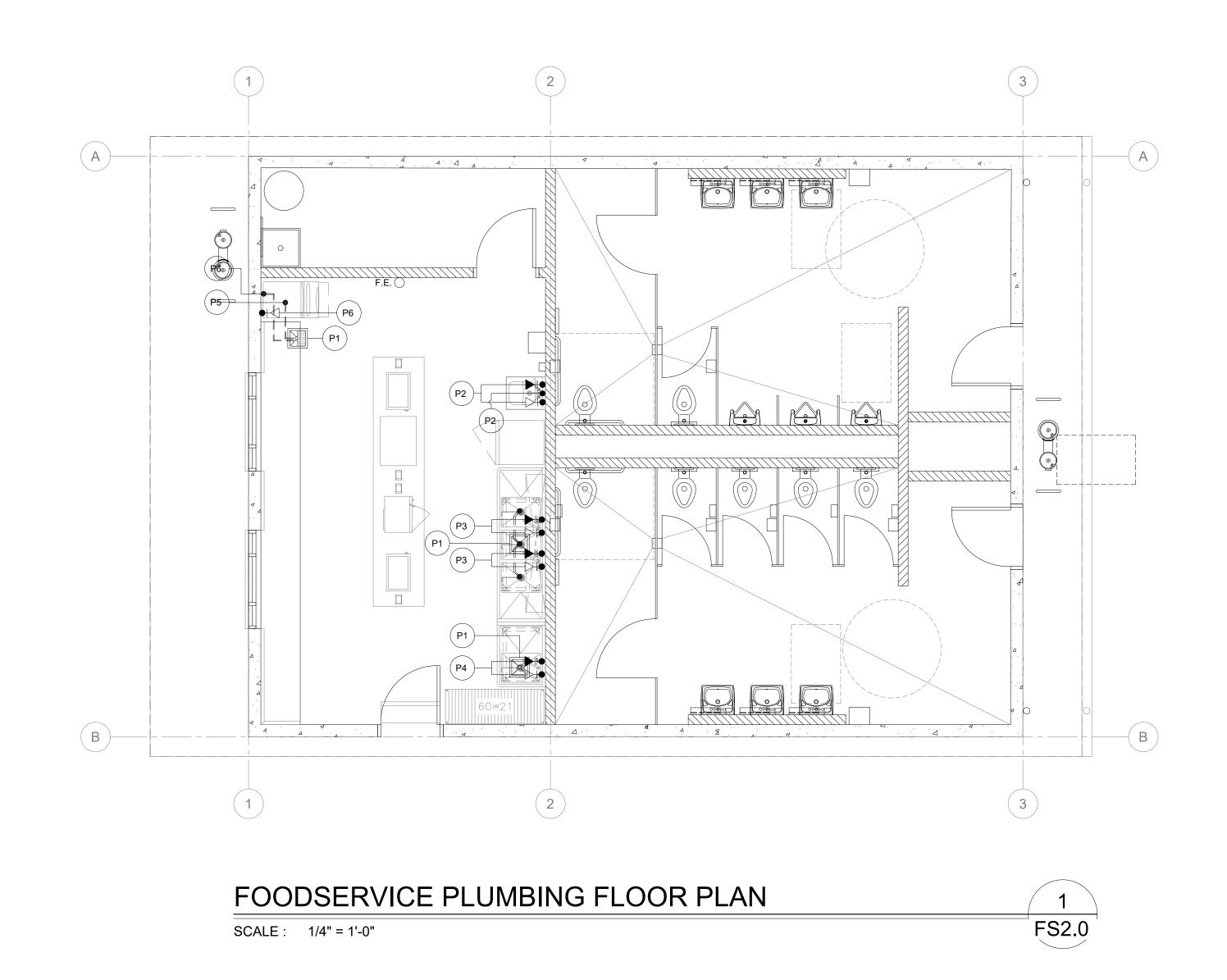
EFFECTIVELY SHIELDED OR COVERED.

READILY ACCESSIBLE FOR CLEANING.

- EXISTING FIXTURES, FINISHES, AND EQUIPMENT SHALL BE IN OPERABLE CONDITION AND SUBJECT TO FIELD APPROVAL.
- 8. WALLS & CEILING IN THE RESTROOMS, PREPARATION, STORAGE, AND JANITORIAL AREAS SHALL BE CONSTRUCTED OF APPROVED MATERIALS SO AS TO BE SMOOTH, WASHABLE, AND EASY TO CLEAN.





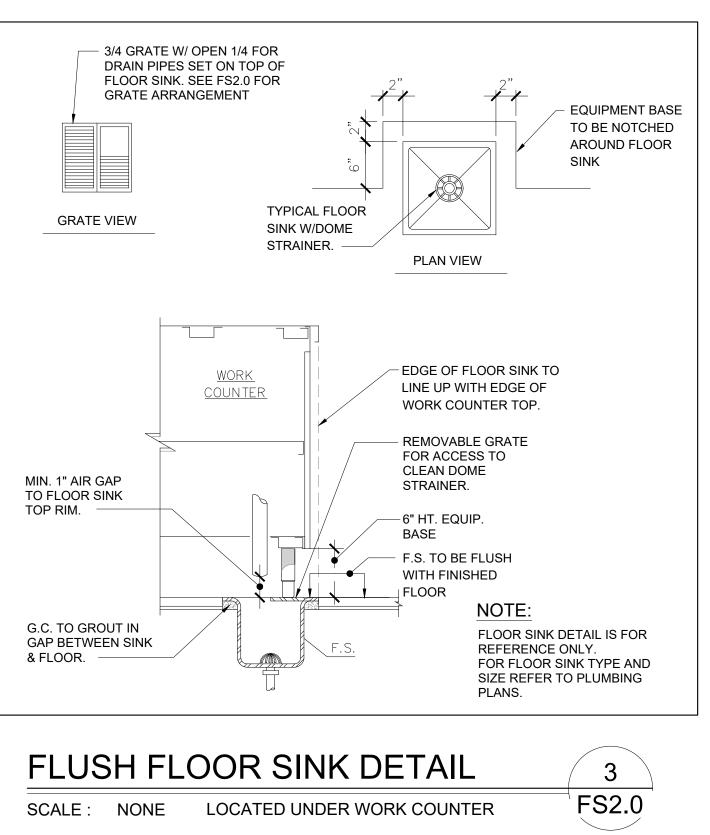




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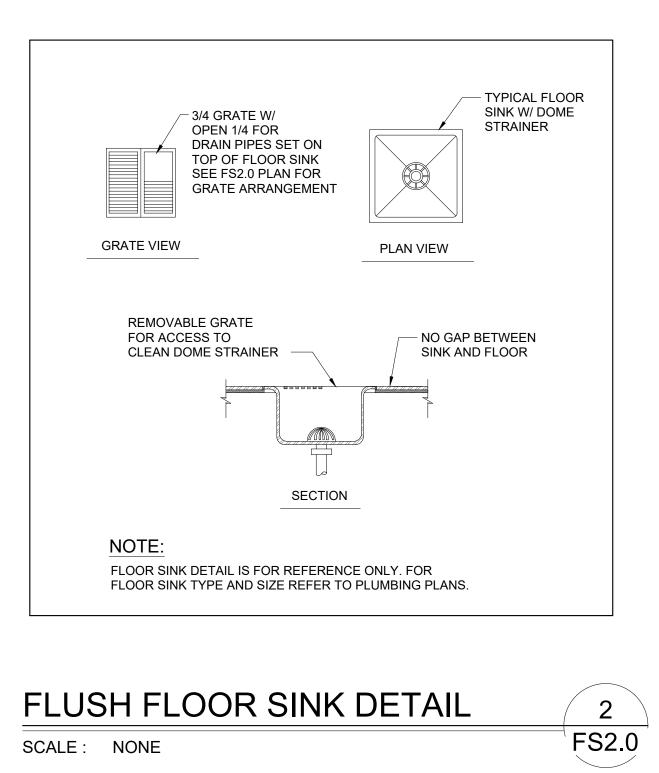
DRAWING NAME: C:\Users\ArtDavis\OneDrive — AMD Foodservice Design\1 Projects\San Juan Unified SD Mesa Verde CTE Concession Building\1200 Drawings\1205 Autocad Project Files\FS2.0.dwg PLOT DATE: 01—12—21 PLOTTED BY: ArtDavis

				W	ATER		WAST	E		GAS				
LUM. NO.	ITEM. NO.	DESCRIPTION	QTY.	CONN	I. SIZE	HGT.@	CONN	I. SIZE	HGT.@	BTU/HR	CONN.	HGT. @	REMARKS	NOTE(S)
NO.	NO.			C.W.	H.W.	WALL	DIR.	INDIR.	WALL	(x1,000)	SIZE	WALĒ		
P1	-	FLOOR SINK	3EA.	-	-	-	-	-	+0"	-	-	-	INSTALL FLUSH WITH FINISH FLOOR, PROVIDE 3/4" GRATE COVER W/ DOME STRAINER, SIZE 12" X 12" X 8"	REFER TO 2&3/FS2.0
P2	2	WALL MOUNTED HAND SINK FAUCET W/ 1/2" INLET 4" CENTER	1EA.	1/2"	1/2"	18"	11/2"	-	24"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. RUN DIRECT WASTE WITH P-TRAP.	
P3	4	POTWASH SINK FAUCET W/ 3/4" INLET 8" CENTER	1EA.	3/4"	3/4"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S P1. (CHROME OR PAINT SILVER)	
P4	9	PREP SINK FAUCET W/ 1/2" INLET 8" CENTER	1EA.	1/2"	1/2"	16"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S P1. (CHROME OR PAINT SILVER)	
P5	10	ICE MAKER (BIN)	1EA.	-	-	-	-	3/4"	-	-	-	-	PROVIDE 3/4" INDIRECT DRAIN TO F.S P1. (CHROME OR PAINT SILVER)	
P6	10	ICE MAKER (HEAD)	1EA.	1/2"	-	52"	-	1/2"	52"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. INTERCONNECT TO WATER FILTER FURNISHED WITH ICEMACHINE DRAIN TO F.S. P1.	



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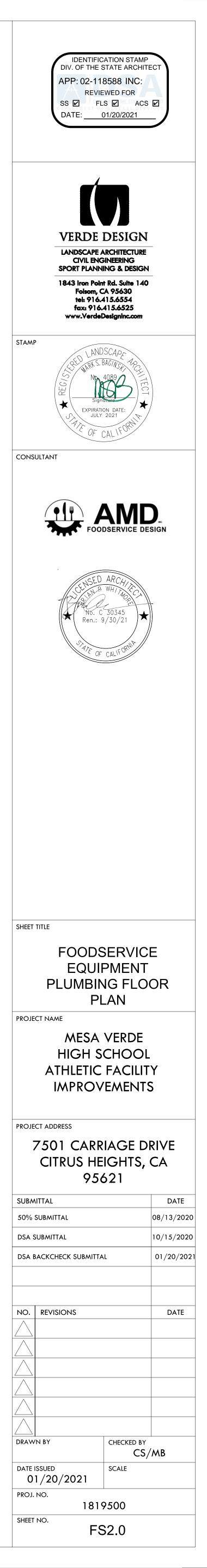
	PLUMBING NOTES
	(MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE)
1. –	- PLUMBING CONTRACTOR TO VERIFY ALL INCOMING SERVICE AND MAKE FINAL HOOK—UPS TO ALL APPLICABLE EQUIPMENT AND TO PROVIDE ALL PIPING, TEES, ELLS, TRAPS, FILTERS, REGULATORS, FAUCETS, ETC., UNLESS SPECIFICALLY STATED OTHERWISE.
2	- ALL HORIZONTAL DIMENSIONS SHOWN ON PLAN ARE FROM FINISHED FACE OF WALL TO CENTERLINE OF STUB-OUT OR FROM CENTERLINE OF STUB-OUT TO CENTERLINE OF STUB-OU UNLESS NOTED OTHERWISE ON PLAN OR DETAILS. (VERIFY ALL DIMENSIONS)
3	- SYMBOLS NOTED +24", +48", ETC., INDICATES TO STUB-OUT OF WALL AT HEIGHT INDICATED. HEIGHT IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB) TO CENTERLINE OF STUB-OUT. SYMBOLS INDICATED "STUB-UP" AND "STUB-DOWN" ARE TO EXTEND ABOVE FINISHED FLOOR AND/OR BELOW FINISHED CEILING AT LOCATION SHOWN.
4	- PLUMBING STUBS AND CONNECTIONS SHOWN ON PLANS ARE FOR EQUIPMENT FURNISHED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
5	- FLOOR SINKS SHOWN ARE TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR. FLOOR SINKS INDICATED HALF-IN AND HALF-OUT OF EQUIPMENT TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR. FLOOR SINKS LOCATED COMPLETELY WITHIN EQUIPMENT AREA TO BE SET FLUSHED WITH TOP OF FINISHED FLOOR.
<u></u> δ	- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL REMOVABLE COVERS OR GRATES FOR ALL FULLY OR PARTIALLY EXPOSED FLOOR SINKS. GRATES TO HAVE 1/2" MAX OPEN'GS WHE DRAIN IS EXPOSED TO P.O.T OR TO PEDESTRIAN WAYS TYP.
7	- PLUMBING CONTRACTOR SHALL SEAL ALL PLUMBING PENETRATIONS THROUGH WALLS, FLOORS, AND CEILINGS. WATERTIGHT AND VERMIN-PROOF.
8	- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SHUT-OFF VALVES ON ALL WATER AND GAS LINES, INCLUDING VALVES IN FIXTURES, LOCATED IN SUCH A WAY AS TO BE ACCESSIBLE WITHOUT USE OF TOOLS.
9	- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL FOR ALL APPLICABLE EQUIPMENT, A TRAPPED FLOOR SINK WITH A LEGAL AIR GAP DRAIN LINE (INDIRECT WASTE) TO FLOOR SINK. INSULATE ALL DRAIN LINES FROM ICE BINS, ICE MACHINES, REFRIG. EQUIP., ETC

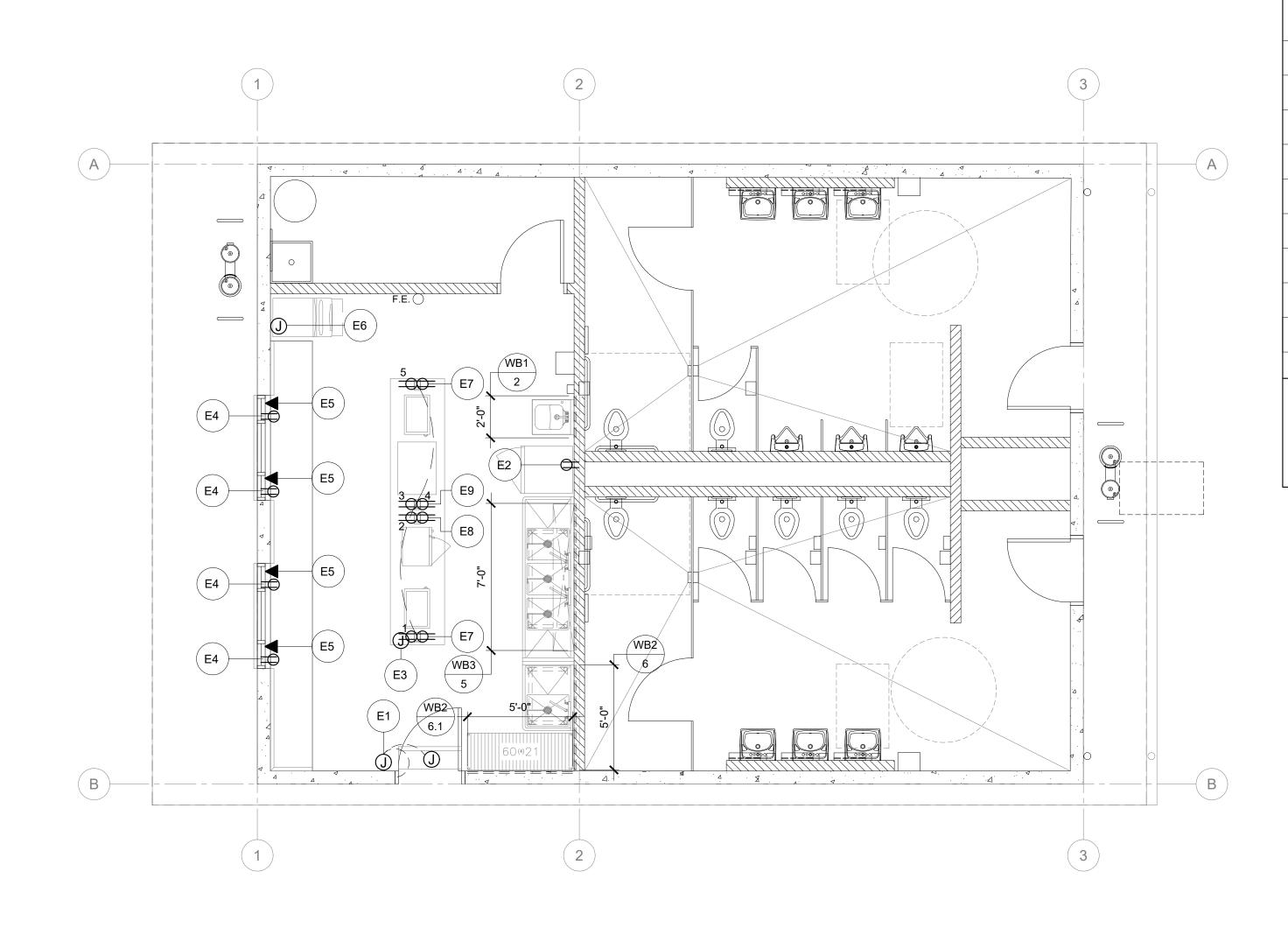


PLUMBING LEGEND						
ABREVIATION	DESCRIPTION	SYMBOL	DESCRIPTION			
C.W. H.W.	COLD WATER HOT WATER	P1	PLUMBING SCHEDULE REFERENCE, REFER TO FS2.0 FOR SCHEDULE			
DIR.	WASTE (DIRECT CONNECTION)	•	WASTE DOWN			
INDIR.	INDIRECT WASTE (AIR GAP)	$\triangleright \!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	COLD WATER INLET			
LAV.	LAVATORY	▶⊪●	HOT WATER INLET			
W.C.	WATER CLOSET					
F.S.	FLOOR SINK		FLOOR SINK			
P.C.	PLUMBING CONTRACTOR	•	I.D. DRAIN LINE			
G.C.	GENERAL CONTRACTOR					
S.O.V.	SHUT OFF VALVE					

WALL TO NE OF STUB-OUT,

ΗT

ATES FOR OPEN'GS WHERE 



FOODSERVICE ELECTRICAL & BACKING FLOOR PLAN SCALE : 1/4" = 1'-0"

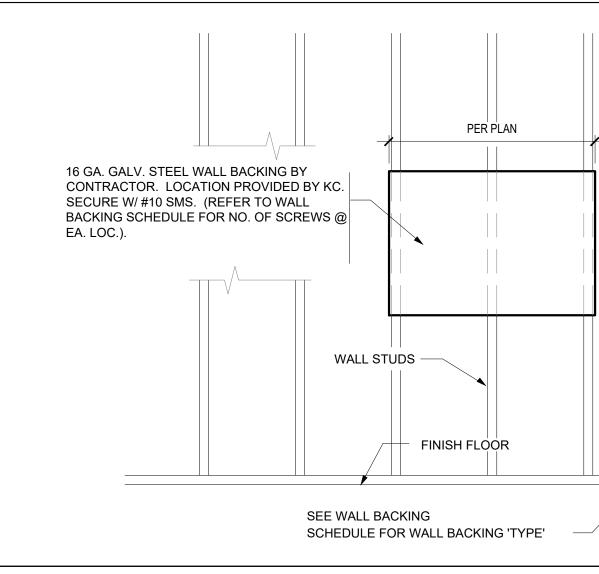
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DRAWING NAME: C:\Users\ArtDavis\OneDrive — AMD Foodservice Design\1 Projects\San Juan Unified SD Mesa Verde CTE Concession Building\1200 Drawings\1205 Autocad Project Files\FS3.0.dwg PLOT DATE: 01—12—21 PLOTTED BY: ArtDavis

ELECTRICAL SCHEDULE												
ELEC. ITEM	DESCRIPTION	QTY. VOLT.	LT. P		- NGC		LOAD		OUTLET	REMARKS	NOTE(S)	
NO. NO.							WATT	AMPS. DRAW	HP	HEIGHT	T	
E1 1	AIR CURTAIN	2EA. 12	0 1	x	(-	-	5.1	1/2	+86"	PROVIDE J-BOX FLUSH MOUNTED IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH BY F.S.E.C SEE E/FS4.0	
E2 3	DUAL TEMP REFRIG/FREEZER	1EA. 12	0 1	-	x	5-15R	-	6.3	-	+48"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET (NEMA 5-15P)	
E3 7	ISLAND SERVICE COUNTER	5EA. 12	0 1	x	<u> </u>	-	-	15EA.	-	+34"	PROVIDE DOUBLE FACED PEDISTAL DUPLEX RECEPTACLE MT'D. ON COUNTER TOP (COMPONENT HARDWARE NO. R58-1020)(R71-0721) (TOTOAL OF 4 DCO OUTLETS) REFER L/FS4.0	1
E4 8	CASHIER STATION VERIFY W/ DISTRICT FURNISHED POS UNIT	4EA. 12	.0 1	-	x	-	-	20.0	-	+26"	PROVIDE DUPLEX RECEPTACLE SURFACE MOUNTED ON WALL BEHIND BACK PANEL OF SERVICE COUNTER	
E5 8	CASHIER STATION (DATA) VERIFY W/ DISTRICT FURNISHED POS UNIT	4EA	-	-	-	-	-	-	-	+26"	PROVIDE WALL MT'D DATA PLUG SURFACE MOUNTED ON WALL BEHIND BACK PANEL OF SERVICE COUNTER	
E6 10	ICE MAKER W/BIN	1EA. 12	20 1	×	< -	-	-	12.2	-	+68"	PROVIDE J-BOX FLUSH MOUNTED IN WALL	
E7 11	COUNTER TOP WARMERS	2EA. 12	.0 1	-	x	5-15R	-	12.5	-	+48"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET (NEMA 5-15P)	2
E8 12	MICROWAVE OVEN	1EA. 12	:0 1	-	x	5-15R	-	13.0	-	+48"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET (NEMA 5-15P)	2
E9 13	POPCORN MAKER (OWNER FURNISHED)	1EA. 12	:0 1	-	x	5-15R	1470	-	-	+48"	PROVIDE DUPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET (NEMA 5-15P)	
ELECTRIC	ELECTRICAL KEYNOTES:											

(1) STAINLESS STEEL FABRICATOR TO PROVIDE FACTORY MOUNTED OUTLETS AS LISTED AND CONDUIT TO ONE POINT OF CONNECTION E.C TO PROVIDE FINAL WIRING AND RECPT. (2) PROVIDE DEDICATED CIRCUIT





WALL BACKING NOTES:

- WALL BACKING TO BE 16 GAUGE GALV. STEEL IN LENGTH AND HEIGHT AS SHOWN ON DRAWINGS. 1. -
- 2. ALL WALL BACKING TO BE IN FURNISHED AND INSTALLED BY CONTRACTOR
- 3. FOOD SERVICE EQUIPMENT CONTRACTOR IS TO FURNISH CONTRACTOR WITH DETAILED DRAWINGS SHOWING ALL WALL BACKING LOCATION AND SIZE.
- 4. WALL BACKING AS SHOWN IS MINIMUM, (REFER TO WALL BACKING SCHEDULE FS3.0) EXTEND BACKING TO NEXT STUD EACH DIRECTION AS NECESSARY

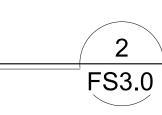
WALL BACKING DETAIL

SCALE : NONE

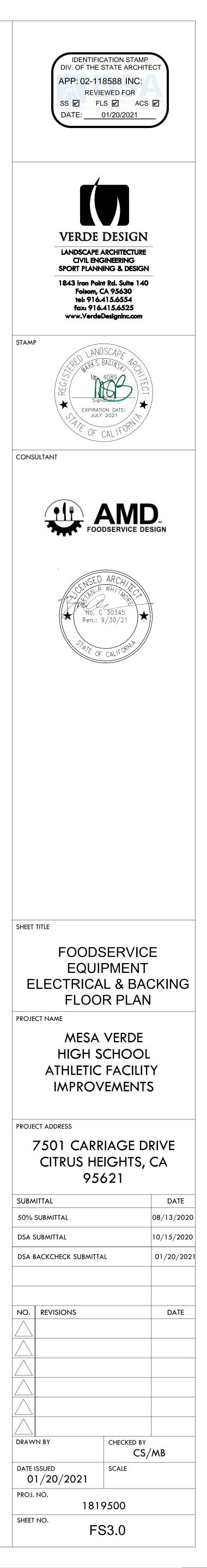
ELECTRICAL NOT

- . PROVIDE ALL ROUGH-INS, FINAL CONNECTIONS AND I CONNECTIONS TO THE FOOD SERVICE EQUIPMENT
- 2. CONNECTIONS SHOWN ARE FOR THE FOOD SERVICE E ONLY. REFER TO ELECTRICAL DIVISION DRAWINGS FOR OUTLETS AND ADDITIONAL REQUIREMENTS.
- 3. RECEPTACLES SHALL BE MOUNTED HORIZONTALLY.
- 4. RECEPTACLES, JUNCTION/HANDY BOXES INDICATED / CONCEALED IN THE WALL AND STUBBED OUT OF THE WALL HEIGHT INDICATED EXCEPT E2,E3,E8 AND E9 REFER TO
- 5. VERTICAL DIMENSIONS ARE GIVEN FROM FINISHED FLO LINE OF ROUGH-IN LOCATION.
- 6. UTILITIES WHEREVER POSSIBLE SHALL BE BROUGHT IN

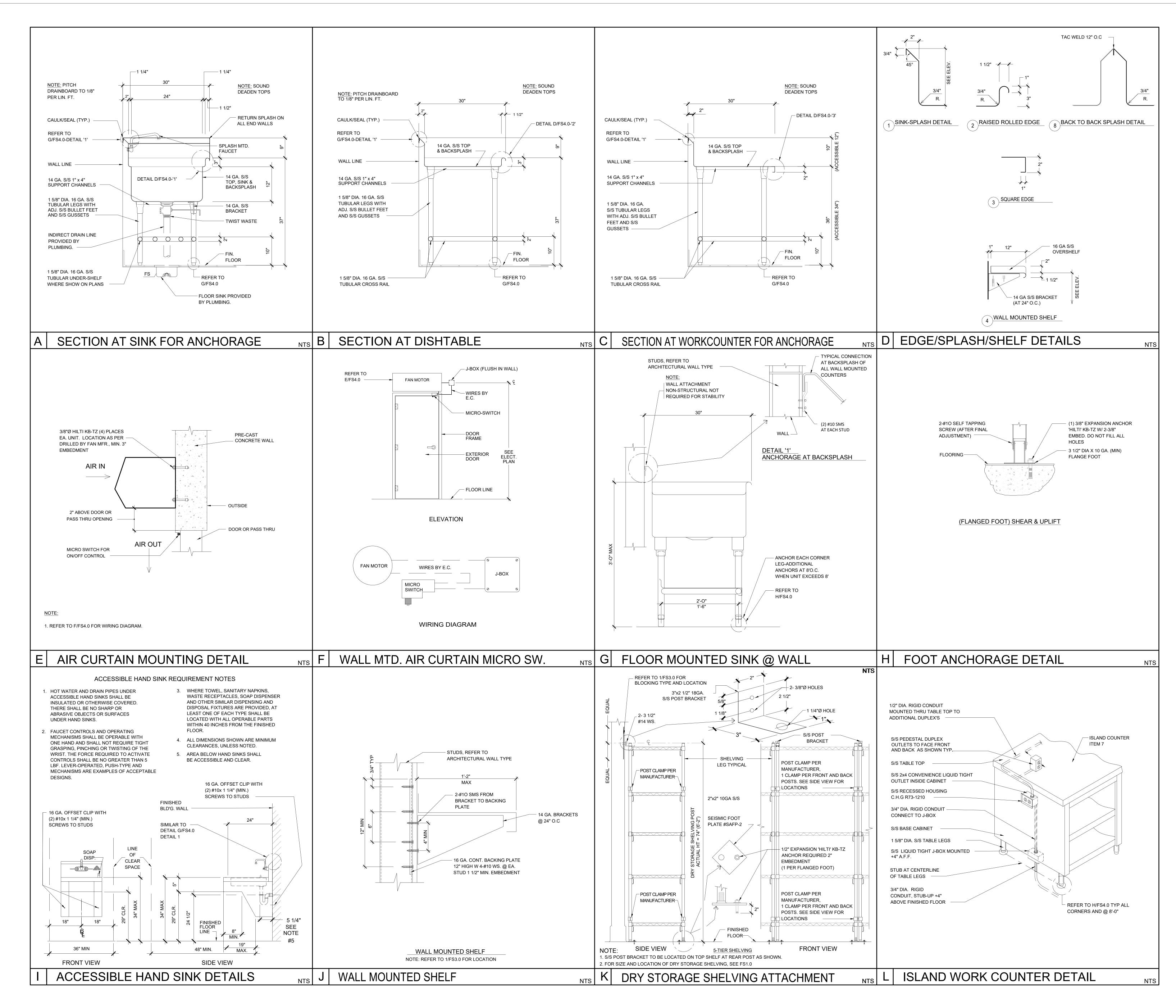
	APPLICATION	TYPE	BOTTOM OF BACKING	BACKING HGT.	FAST PER
WB1 ITEM	HAND SINK	1	+24" AFF	24" HIGH	4
WB2 ITEM	STORAGE SHELVING	2	+69"AFF	12" HIGH	2
WB3 ITEM	WALL SHELF	1	+48"AFF	12" HIGH	4
·	G.I. or C.R.S.) - AFF=ABOVE FINISH				
REFER	TO SHEET 3/F33.0 FOR WALL BACKING LO VALL BACKING			TYPE 1 - 4 PER ST TYPE 2 - 2 PER ST	
WB# ITEM	WALL BACKING NO. / EQU	JIPMENT	TITEM NO.		
	= WALL BACKING				



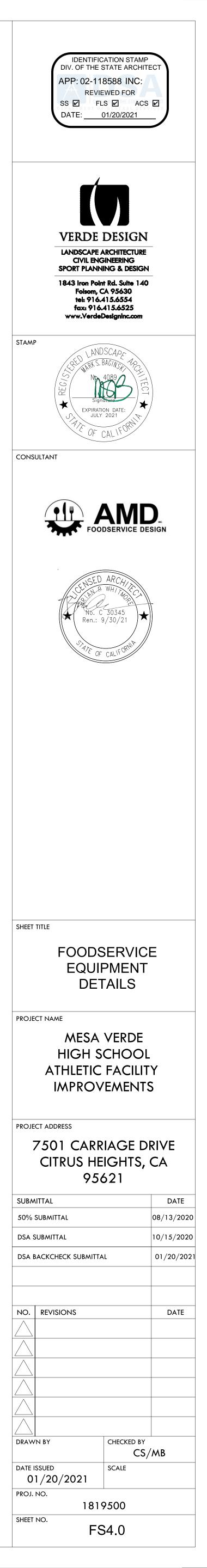
DINTER-				
		ELECTRICA	L PLAN LE	GEND
E EQUIPMENT FOR CONVENIENCE	ABRV.	DESCRIPTION	SYMBOL	DESCRIPTION
	AFF	ABOVE FINISHED FLOOR	E1	ELECTRICAL SCHEDULE REFERENCE, REFER TO FS3.0 FOR SCHEDULE
D AT WALLS SHALL BE E WALL AT THE FO 1/FS5.0.	LOC.	FOOD SERVICE EQUIPMENT CONTRACTOR	J	JUNCTION BOX
FLOOR TO CENTER	K.C.	KITCHEN CONTRACTOR		DATA OUTLET
T IN FROM ABOVE,				115V/1Ø UNLESS OTHERWISE NOTED

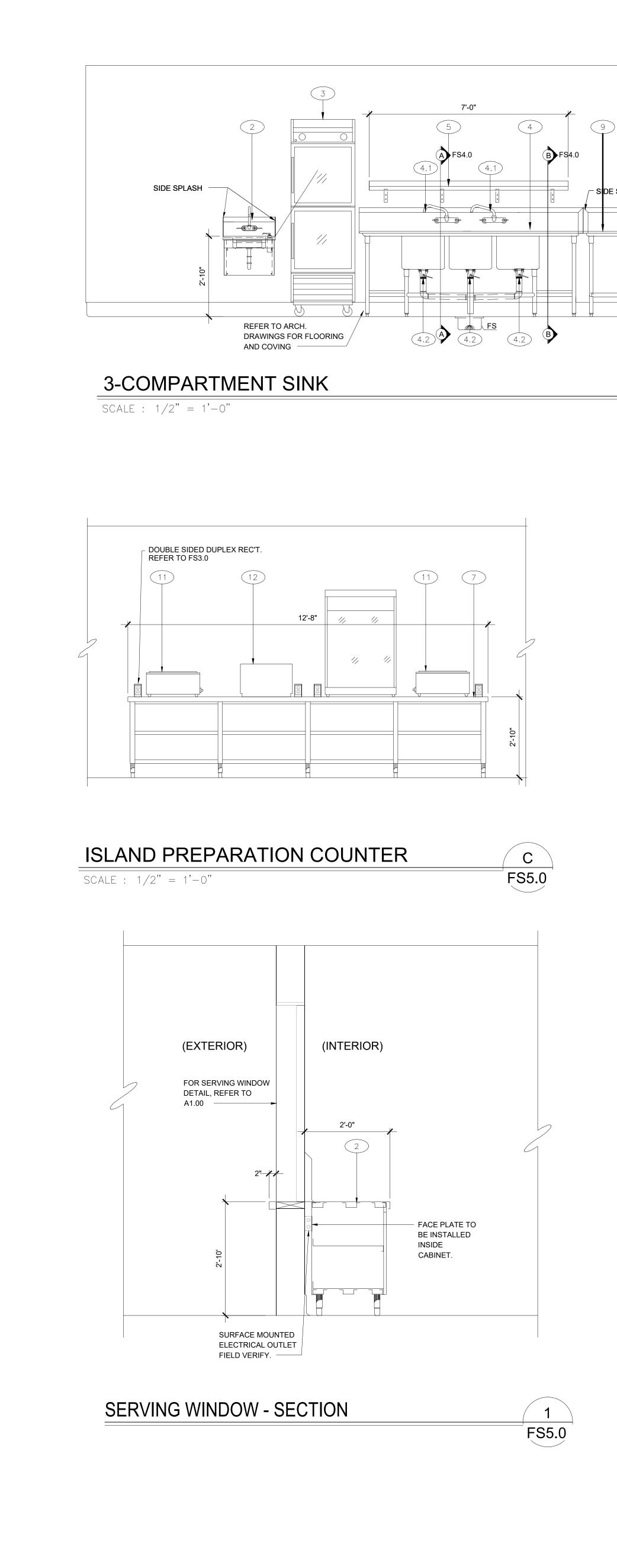


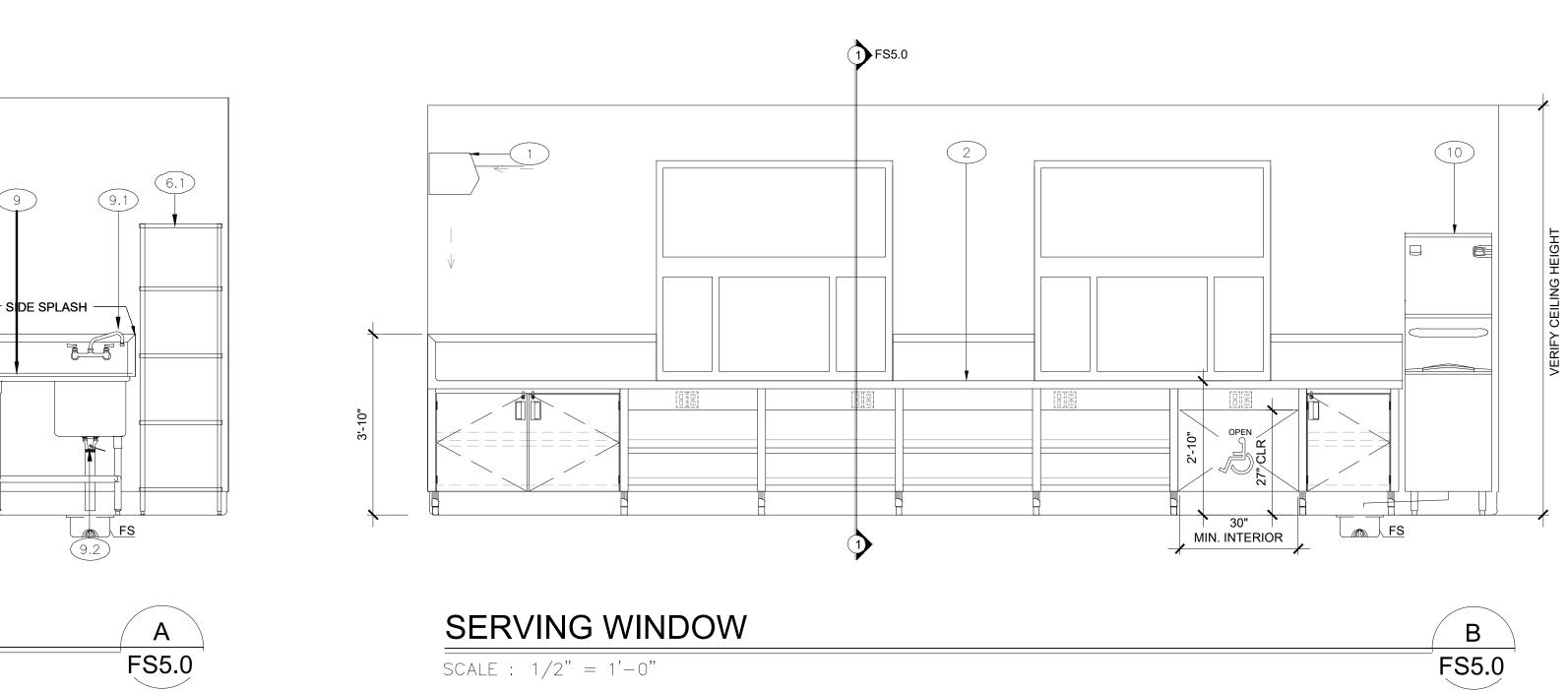




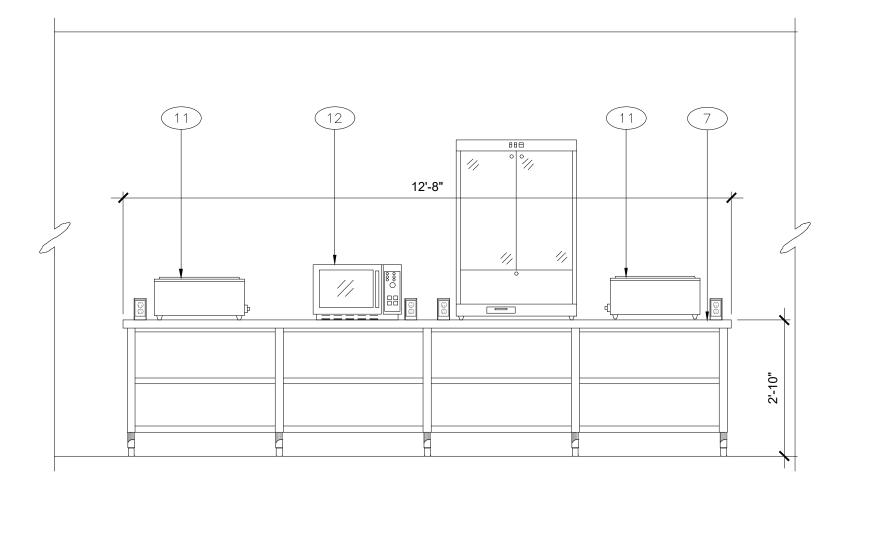
3 L DRAWING NAME: C:\Users\ArtDavis\OneDrive — AMD Foodservice Design\1 Projects\San Juan Unified SD Mesa Verde CTE Concession Building\1200 Drawings\1205 Autocad Project Files\FS4.0.dwg PLOT DATE: 01-12-21 PLOTTED BY: ArtDavis

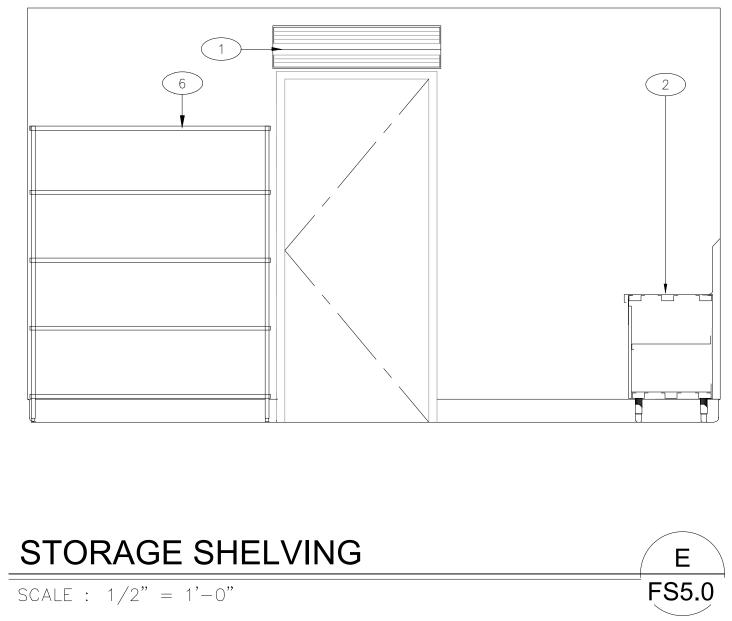






SCALE : 1/2" = 1'-0"





	ISLAND PREPARATION COUNTER
_	SCALE : $1/2" = 1'-0"$

SCALE : 1/2" = 1'-0"

D FS5.0

	EQUIPMENT SCHEDULE						
ITEM NO	QTY	EQUIPMENT CATEGORY					
1	1	AIR CURTAIN, UNHEATED					
2	1	HAND SINK, WALL MOUNT					
3	1	DUAL TEMP REFRIG/FREEZER					
4	1	SINK, SCULLERY, 3 COMPARTMENTS					
4.1	2	FAUCET, BACKSPLASH MOUNT					
4.2	3	DRAIN, LEVER HANDLE					
5	1	WALL MOUNTED OVERSHELF					
6	1	STORAGE SHELVING					
7	1	ISLAND SERVICE COUNTER					
8	1	SERVICE COUNTER					
9	1	PREP SINK					
9.1	1	FAUCET, BACKSPLASH MOUNT					
9.2	1	DRAIN, LEVER HANDLE					
10	1	ICE MAKER W/ BIN					
11	1	COUNTER TOP WARMER					
12	1	MICROWAVE OVEN					
13	1	1 POPCORN MAKER (OWNER FURNISHED)					

