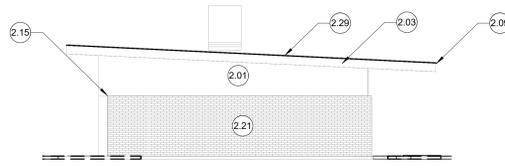
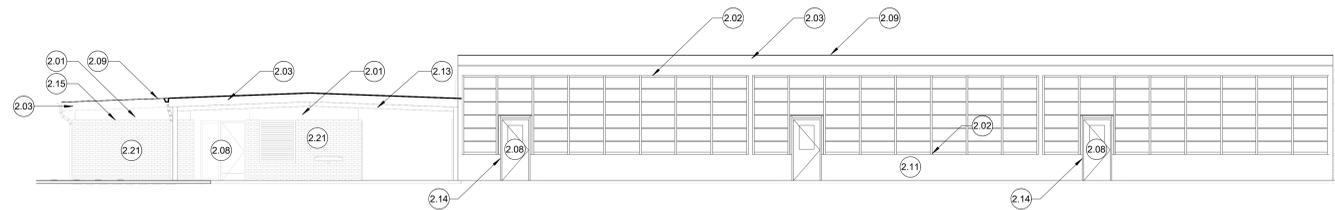


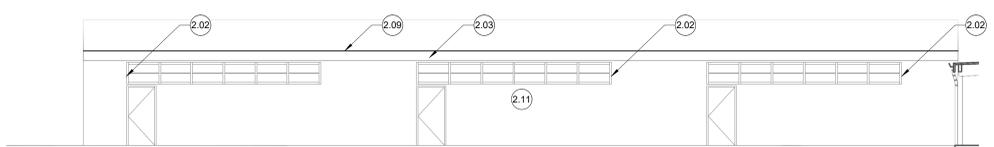
**A5** BUILDING D WEST ELEVATION  
1/8" = 1'-0"



**A3** BUILDING C WEST ELEVATION  
1/8" = 1'-0"



**B5** BUILDING H NORTH ELEVATION  
1/8" = 1'-0"



**C5** BUILDING H SOUTH ELEVATION  
1/8" = 1'-0"

**GENERAL NOTES**

- ELEVATION DRAWINGS ARE GENERAL FOR OVERALL SQUARE FOOTAGES AND QUANTITY TAKE-OFFS, AND ARE NOT INTENDED TO REPRESENT EXACT CONDITIONS OF EACH BUILDING ELEVATION. CONTRACTOR SHALL VISIT THE SITE AND BE FAMILIAR WITH SCOPE REQUIRED FOR EACH BUILDING ELEVATION PRIOR TO BID.
- ALL EXISTING EXTERIOR FINISHES THAT ARE CURRENTLY PAINTED (SUCH AS DOWNSPOUTS, DUCTWORK, FASCIA, ETC.) SHALL BE PREPPED AND RE-PAINTED. ALL EXISTING EXTERIOR FINISHES WHICH ARE NOT CURRENTLY PAINTED (SUCH AS CONCRETE, BRICK, ANODIZED ALUMINUM, WINDOWS, ETC.) SHALL REMAIN UNPAINTED AND SHALL BE PROTECTED FROM NEW PAINTING WORK. DO NOT PAINT OVER PRE-FINISHED CORRUGATED METAL PANELING AT NEW MODULAR BUILDINGS TO THE NW AREA OF CAMPUS.
- ALL PAINTED OPENING TRIMS AND JAMBS SHALL HAVE ACCENT PAINT COLOR RETURNED TO THE INSIDE CORNER OF THE JAMB TO THE WALL FACE BEYOND.
- DOOR PAINT PREP AND NEW PAINT SHALL EXTEND TO ALL FACES AND ALL EDGES OF DOORS.
- DOOR JAMB PAINT PREP AND NEW PAINT SHALL EXTEND WITHIN OPENINGS AND INTO INSIDE FACE AND ALL PAINTED EDGES OF JAMBS, TYP.
- REFER TO CIVIL FOR DETAIL OF CONNECTION OF DOWNSPOUT TO UNDERGROUND PLUMBING.
- ALL CRACKS APPARENT BETWEEN MATERIALS AND DIFFERING FACES SHALL BE PREPPED AND FILLED WITH SEALANT PRIOR TO NEW PAINT WORK.
- ALL (E) CHIPPING / DELAMINING / FAILING / DAMAGED PAINT SHALL BE SCRAPPED AND REMOVED TO THE POINT OF ADHESION PRIOR TO PREPPING OR PAINTING SURFACES, TYP.

**KEYED NOTES**

- 1.00 →
- PREP AND PAINT (E) PAINTED PLASTER WALL, TYP.
  - PREP AND PAINT (E) PAINTED WOOD TRIM, TYP.
  - PREP AND PAINT (E) PAINTED FASCIA, TYP. WRAP ACCENT COLOR AROUND BOTTOM OF FASCIA BOARD AND RETURN TO SOFFIT PLANE.
  - PREP AND PAINT (E) PAINTED DOOR ASSEMBLY, TYP.; ALL EDGES OF DOOR AND ALL EDGES OF HW FRAME.
  - PREP AND PAINT NEW DRIP EDGE ASSEMBLY, TYP. REFER TO DETAIL E2/A561.
  - PREP AND PAINT ALL (E) PAINTED SURFACES AT EXTERIOR OF ALL (E) MODULAR BUILDINGS, TYP. NOT ALL BUILDING ELEVATIONS ARE SHOWN. INCLUDE RAMPS, SKIRTS, HANDRAILS, GUARDRAILS, ETC. AT NEWER MODULAR CLASSROOM BUILDINGS. DO NOT PAINT PRE-FINISHED CORRUGATED METAL PANELING, TYP. (CLASSROOMS 19, 20, 21, 22, AND 23).
  - PREP AND PAINT (E) PAINTED BUILDING EXPOSED STRUCTURE, TYP.
  - PREP AND PAINT (E) PAINTED GUARDRAIL / HANDRAIL ASSEMBLY, TYP.
  - PROVIDE NEW SEALANT AT BRICK-TO-PLASTER JOINT, TYP. MAINTAIN A CLEAN EDGE ALONG BRICK. PAINT.
  - PROTECT (E) BRICK TO REMAIN, TYP.
  - PREP AND PAINT NEW DRIP EDGE / GRAVEL STOP ASSEMBLY AT HIGH / UPPER RAKES, TYP. REFER TO DETAIL B5/A561.



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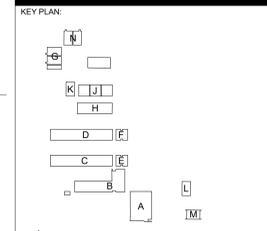


CONSULTANT:

PROJECT NAME:  
**ALICE BIRNEY PUBLIC WALDORF TK-8 SCHOOL**  
6251 13TH STREET  
SACRAMENTO, CA 95831

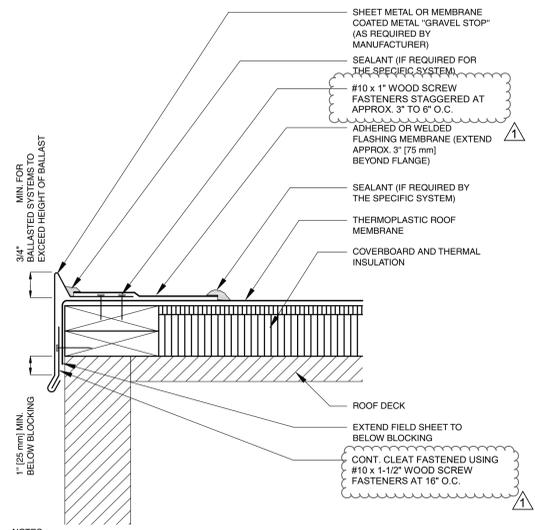
**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
5735 47TH AVENUE  
SACRAMENTO, CA 95824  
SACRAMENTO COUNTY



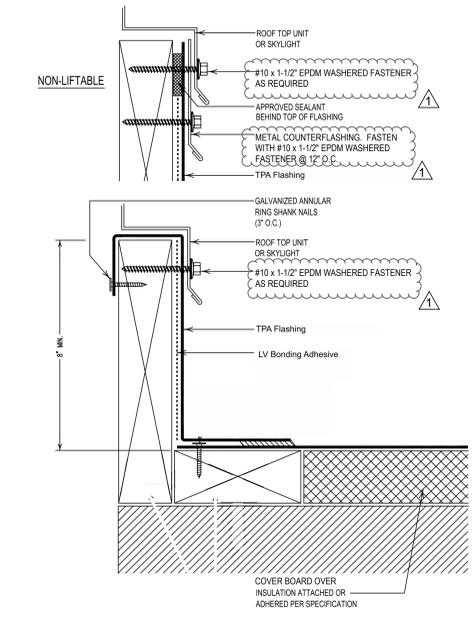
KEY PLAN:  
↑  
SHEET TITLE:  
**EXTERIOR ELEVATIONS**

JOB NUMBER:	SHEET NUMBER:
DATE: FEB 26, 2024	<b>A223</b>
REVISION:	

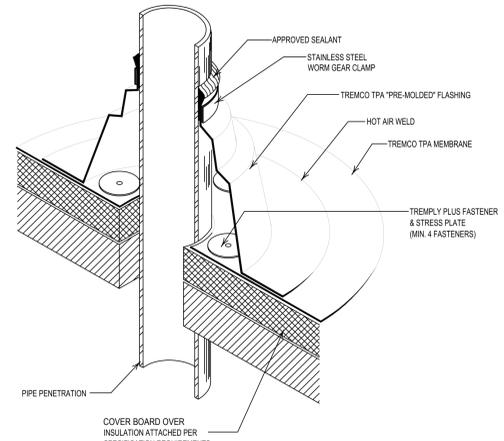


NOTES:  
 1. NRCA SUGGESTS AVOIDING (WHERE POSSIBLE) FLASHING DETAILS THAT REQUIRE RIGID METAL FLANGES TO BE EMBEDDED OR SANDWICHED INTO THE ROOF MEMBRANE.  
 2. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE OUTSIDE WALL.  
 3. REFER TO THE SHEET METAL SECTION OF THE METAL ROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.  
 4. REFER TO THE INTRODUCTION FOR ADDITIONAL INFORMATION.

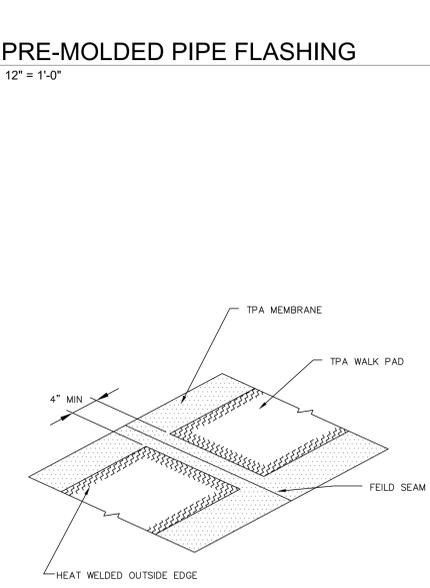
**B5** GRAVEL STOP AT RAKES  
 12" = 1'-0"



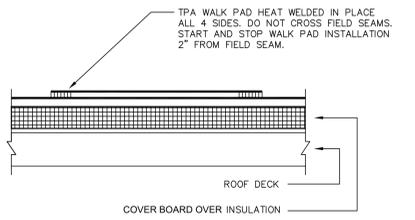
**D5** TYPICAL CURB DETAIL  
 12" = 1'-0"



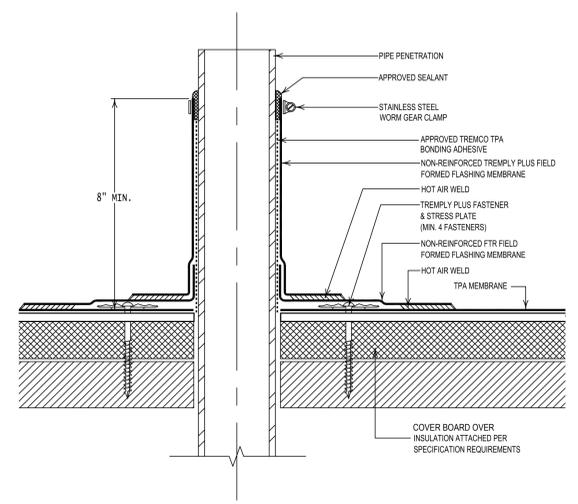
**B4** PRE-MOLDED PIPE FLASHING  
 12" = 1'-0"



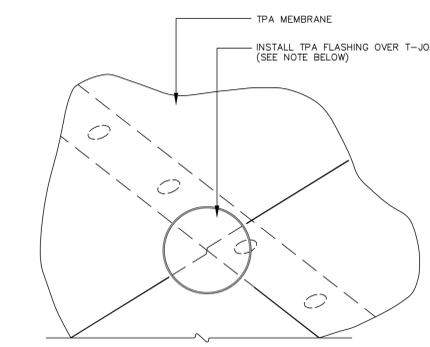
**B2** FIELD-FABRICATED PIPE FLASHING  
 12" = 1'-0"



**D4** WALK-PAD INSTALLATION  
 12" = 1'-0"

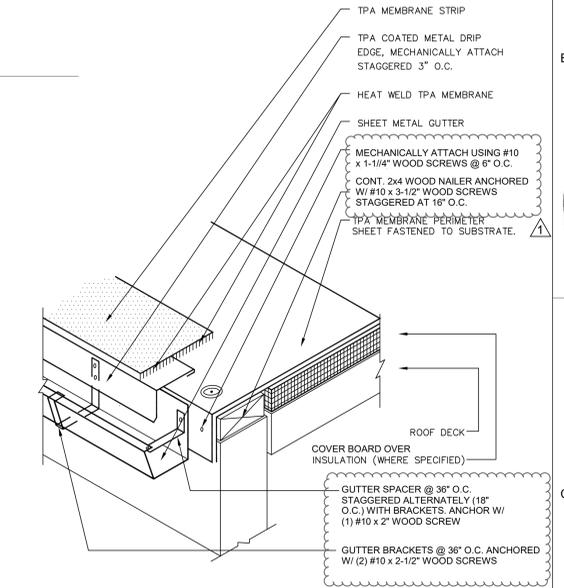


**A1** TYP GUTTER PROFILE  
 3" = 1'-0"



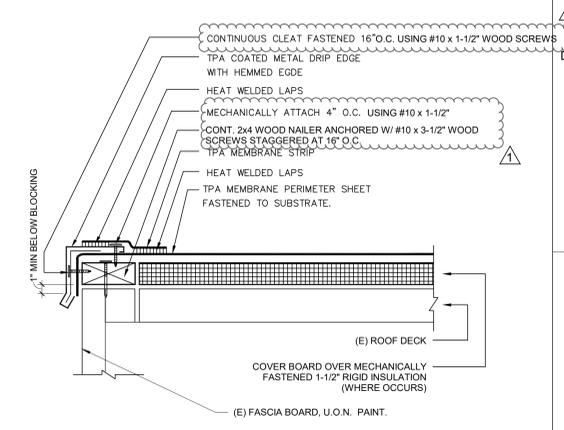
**C3** T-JOINT DETAIL  
 12" = 1'-0"

NOTE:  
 HEAT-WELD A 4" ROUND FIELD CUT TPA FLASHING MEMBRANE (UNREINFORCED). CENTER THE FLASHING OVER EACH T-JOINT ON A 60-MIL THICK OR GREATER MEMBRANE (AS SHOWN).



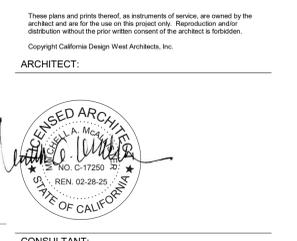
**C2** ROOF EDGE WITH GUTTER  
 12" = 1'-0"

NOTE:  
 1. ALL METAL SURFACES SHALL BE PRIMED BEFORE CONTACT WITH ANY ADHESIVE OR MASTIC.



**E2** HORIZ. ROOF EDGE W/O GUTTER  
 12" = 1'-0"

NOTES:  
 1) MAX. FACE DIMENSION SHOULD BE 5" TO PREVENT DISTORTION FROM "OIL CANNING." IF SURFACE DISTORTION IS ACCEPTABLE, FACE DIMENSION MAY BE INCREASED TO 8".  
 2) FOR FASCIA'S GREATER THAN 8" INSTALL IN TWO SECTIONS.



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**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
 5735 47TH AVENUE  
 SACRAMENTO, CA 95824  
 SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE: <b>ROOF DETAILS</b>	
JOB NUMBER:	SHEET NUMBER:
DATE: FEB 26, 2024	<b>A561</b>
REVISION: ADD#3 03/05/24	

**STRUCTURAL ABBREVIATIONS**

AB	ANCHOR BOLTS	LFRS	LATERAL FORCE RESISTING SYSTEM
AC	ASPHALTIC CONCRETE	LLH	LONG LEGS
AFF	ABOVE FINISH FLOOR	LLV	LONG LEGS
BN	BOUNDARY NAILING	LP	LOW POINT
BEV	BEVELED	LS	LAS SCREWS
BOC	BOTTOM OF CONCRETE	LT/PT	LIGHT HEIGHT LAMINATED VENEER LUMBER
BOF	BOTTOM OF FOOTING	MJ	MECHANICAL JOINT
CIP	CAST IN PLACE CONCRETE	(N)	NEW
CJ	CONCRETE JOINT	NIC	NOT IN CONTRACT
CP	COMPLETE JOINT	NIS	NOT TO SCALE
CL	CENTER LINE	NSG	NON SKINS GROUT
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
COL	CONCRETE CONNECTION	OD	OUTSIDE DIAMETER
CONN	CONCRETE CONNECTION	OSB	ORIENTED STRAND BOARD
CONT	CONTINUOUS	OWSS	OPEN WEB STEEL GIRDER
DF	DOUGLAS FIR	OWSJ	OPEN WEB STEEL JOINT
FD	FLOOR DRAIN	OWS	OPEN WEB STEEL JOINT
FF	FINISH FLOOR	PCG	PRECAST CONCRETE
FLG	FLANGE	PSF	POUNDS PER SQUARE FOOT
FN	FIELD NAILING	PSI	POUNDS PER SQUARE INCH
FOC	FACE OF CONCRETE	PT	PRESSURE TREATED POINT
FOM	FACE OF MASONRY	PK	PLYWOOD
FOS	FACE OF STUD	R	RADIUS
GLB	GLUE LAMINATED BEAM	SAD	SEE ARCHITECTURAL DRAWINGS
GS	GALVANIZED SHEET	SDST	SELF DRILLING SELF TAPPING
GT	GIRDER TRUSS	SL	SIMILAR
HAS	HEADED ANCHOR	SLCJ	SLIP CONTROL JOINT
HP	HOT DIPPED GALVANIZED	SLH	SHORT LEG
H2B	HIGH STRENGTH BOLT	SLV	HORIZONTAL SHORT LEG
H2B	HOLLOW STRUCTURAL SECTION	SMD	SEE MECHANICAL DRAWINGS
HT	HIP TRUSS	SOG	SLAB ON GRADE
ID	INSIDE DIAMETER	SP	STRUCTURAL STEEL
JT	JACK TRUSS	SS	STAINLESS STEEL
		T24	TITLE 24 CALIFORNIA CODE
		TOC	TOP OF CONCRETE
		TOS	TOP OF FOOTING
		TOP	TOP OF CONCRETE
		TOA	TOP OF MASONRY
		UNO	UNLESS NOTED OTHERWISE
		VIF	VERIFY IN FIELD
		WS	WATER STOP
		WVF	WELDED WIRE FABRIC
		WPI	WEAKENED PLANE JOINT

**EXPANSION ANCHOR**  
**ADHESIVE ANCHOR NOTES**

- WHERE "EPOXY" OR "EXPANSION" ANCHORS ARE INDICATED IN DRAWINGS THESE NOTES & SCHEDULE (A) (B) SHALL APPLY.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN THE ICC REPORT.
- PERIODIC SPECIAL INSPECTION IS REQUIRED, UNLESS NOTED OTHERWISE IN THESE DRAWINGS. VERIFICATION OF THE FOLLOWING IS REQUIRED DURING SPECIAL INSPECTION:
  - ANCHOR TYPE AND DIMENSIONS.
  - CONCRETE TYPE AND COMPRESSIVE STRENGTH.
  - HOLE DIMENSIONS AND HOLE CLEANING PROCEDURES.
  - ANCHOR SPACING, EDGE DISTANCES, CONCRETE/MASONRY THICKNESS, AND ANCHOR EMBEDMENT DEPTH.
  - TIGHTENING TORQUE.
  - COMPLIANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
- WHEN INSTALLING DRILLED IN ANCHORS IN EXISTING CONCRETE OR MASONRY, USE CARE & CAUTION TO AVOID CUTTING OR DAMAGING EXISTING REINFORCING BARS.
- ALL POST INSTALLED EXPANSION & ADHESIVE ANCHORS SHALL BE TESTED TO THE VALUES GIVEN IN THE SCHEDULE.
  - SILL BOLTING APPLICATIONS: 10% OF THE ANCHORS SHALL BE TESTED.
  - NON STRUCTURAL APPLICATIONS: 50% OF THE ANCHORS SHALL BE TESTED. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED SHALL BE TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TESTING FREQUENCY.
- THE TESTING OF THE ANCHORS SHALL BE DONE BY THE TESTING LABORATORY IN THE PRESENCE OF THE PROJECT INSPECTOR & A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE GOVERNING AGENCY AND ARCHITECT/STRUCTURAL ENGINEER.

**ADHESIVE ANCHORS**

SEE ARCHITECTURAL DRAWINGS  
HIT-RE 500-V3 EPOXY ADHESIVE ANCHOR  
ICC ESR #3914 REISSUED 2021

REBAR/BOLT SIZE	MINIMUM EMBEDMENT*	MINIMUM CONCRETE THICKNESS	MAX EMBEDMENT	MINIMUM SPACING AND EDGE DISTANCE	PULL TEST VALUE AT MIN EMBEDMENT (LBS)	FULL TEST VALUE AT MIN EMBEDMENT (LBS)
#3 OR 3/8"	2 3/8"	3 5/8"	7 1/2"	1 1/8"	1600	
#4 OR 1/2"	2 3/4"	4"	10"	2 1/2"	2250	
#5 OR 5/8"	3 1/8"	4 5/8"	12 1/2"	3 1/8"	2400	
#6 OR 3/4"	3 1/2"	5 1/2"	15"	3 3/4"	3600	
#7 OR 7/8"	3 1/2"	5 1/2"	17 1/2"	4 3/8"	4000	
#8 OR 1"	4"	6 1/4"	20"	5"	4850	

- NOTES
- MINIMUM F'c = 2500 PSI.
  - DESIGN BASED ON CRACKED CONCRETE.
  - VALUES FOR REBAR, -ASTM A615-GRADE 60 MIN.
  - ASSUMES ALL HOLES TO BE DRILLED BY A HAMMER DRILL WITH A CARBIDE BIT.
  - \*FOR DEEPER EMBEDMENTS THE MINIMUM MEMBER THICKNESS MUST BE INCREASED BY THE SAME AMOUNT.
  - FULL TEST VALUES FOR EMBEDMENTS GREATER THAN MIN ARE INDICATED IN TABLE.

**EXPANSION ANCHORS**

HILTI Kwik-Bolt-TZ 2  
ICC ESR #4266

SIZE	NOMINAL EMBEDMENT*	MINIMUM CONCRETE THICKNESS	MINIMUM EDGE DISTANCE	TORQUE TEST VALUE CARBON STEEL (FT-LBS)	TORQUE TEST VALUE STAINLESS STEEL (FT-LBS)
1/4"	1 3/4"	3 1/4"	1 1/2"	4	6
3/8"	2 1/2"	4"	4 3/8"	30	30
1/2"	2 1/2"	4"	5 1/2"	50	40
5/8"	3 3/4"	5 1/2"	11 1/2"	40	60
3/4"	4 1/2"	6"	10"	110	125

- NOTES
- MINIMUM F'c = 2500 PSI.
  - DESIGN BASED ON CRACKED CONCRETE.
  - SPACING BETWEEN ANCHORS IS 12 DIAMETERS OR MORE.

**WOOD:**

- (SUBMIT SHOP DRAWINGS BEFORE FABRICATION OF GLU-LAM MEMBERS)
- ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
 

DOUGLAS FIR - LARGH	WESTERN LUMBER GRADING RULES WMPA
SLUED LAMINATED BEAMS	ANSI A190
	ANSI 405
	ANSI 117
PLYWOOD	US. PRODUCT STANDARD PS 1-19 FOR SOFT FLYWOOD.
  - MINIMUM GRADES SHALL BE:
 

STRUCTURAL FRAMING	DFM1 TYPICAL
SLUED LAMINATED MEMBERS	MOISTURE CONTENT TO BE < 19% AT TIME OF CONSTRUCTION
	COMBINATION 24F-V4 FOR SIMPLE SPANS AND COMBINATION 24F-V8 FOR CANTILEVERS & CONTINUOUS CONDITIONS.
	ALL ROOF BEAMS SHALL HAVE 3000 FT RADIUS CAMBER UNO.
STRUCTURAL FLYWOOD (UNO)	NALL FLYWOOD, 5/8"2" APA RATED
	STRUCT 1 SHEATHING, 5 PLY, 3/2"6, EXPOSURE 1.
	ROOF FLYWOOD, 5/8"2" APA RATED
	STRUCT 1 SHEATHING, 5 PLY, 3/2"6, EXPOSURE 1.
  - WALLS SHALL HAVE DOUBLE TOP PLATES, LAPPED AT WALL & PARTITION INTERSECTION WITH 3x162 NAILS. SPLICE UPPER AND LOWER PLATES WITH MIN' SPLICE AS SHOWN IN TYPICAL DETAIL, UNO.
  - PROVIDE SOLID BLDGS BETWEEN JOISTS OR RAFTERS AT ALL SUPPORTS.
  - NOTCHING OF WOOD JOISTS IS NOT PERMITTED UNLESS APPROVED BY THE SEOR. HOLES BORED IN JOISTS AND RAFTERS SHALL NOT EXCEED ONE FORTH THE DEPTH OF THE MEMBER DEPTH AND SHALL BE THROUGH CENTERLINE OF THE MEMBER.
  - HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT - 1/16".
  - HOLES FOR LAS SCREWS SHALL BE FIRST BORED TO THE SAME NOMINAL DIAMETER & DEPTH AS THE SHANK. THE REMAINDER OF THE HOLE SHALL BE NO LARGER THAN 10% OF THE SHANK DIAMETER.
  - LAS SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO FLANGE.
  - ALL BOLTS AND LAS SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS & NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO INSERTED EXPANDING FASTENERS - KWIK-BOLT, STRONG BOLT, ETC.

BOLT-DIA	ROUND WASHER	SQUARE WASHER
1/2"	3" DIA x 3/16"	3" SQ x .145"
5/8"	3" DIA x 1/4"	3" SQ x .25"
3/4"	3" DIA x 1/4"	3" SQ x .315"
7/8"	3 1/2" DIA x 5/16"	3" SQ x .315"
1"	4" DIA x 3/8"	3 1/2" SQ x .34"

- ALL BOLT & LAS SCREWS SHALL BE TIGHTENED AT TIME OF INSTALLATION AND RE-TIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
- LAY ALL STRUCTURAL PLYWOOD ON ROOF AND FLOORS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
- BLOCK SP JOINTS WITH 3x4 FLAT BLOCKING WHERE NOTED ON FRAMING PLANS AND WITH BLOCKING SAME SIZE AS STUDS AT WALLS.
- CROSS BRIDGING OR FULL DEPTH BLOCKING BETWEEN JOISTS OR RAFTERS 2x10 & LARGER REQUIRED AT 8'-0" O.C. MAXIMUM.
- WHERE FRAMING HANGERS ARE REQUIRED & ARE NOT SHOWN ON SECTIONS, DETAILS OR PLANS, THE FOLLOWING SIMPSON HANGERS SHALL BE USED. SLOPE, SKEN, TURN IN FLANGES & PROVIDE TOP FLANGE HANGERS AS REQD.
 

2x & 3x MEMBERS	U HANGERS
4x MEMBERS	HJ HANGERS
6x MEMBERS	HUTF HANGERS
1 JOIST MEMBERS	BA HANGERS
GLU LAM MEMBERS	LES HANGERS
4x & 6x POSTS	POSTER/2 POST CAPS
- ALL METAL HARDWARE SHALL BE MANUFACTURED BY SIMPSON STRONG TIE COMPANY. ALL ITEMS SHALL BE INSTALLED PER SIMPSON SPECIFICATIONS. FILL ALL HOLES WITH METAL HARDWARE WITH SPECIFIED FASTENERS, UNO.
- WOOD SYMBOLS:
 

CONTINUOUS	BLOCKING
------------	----------
- NAILS FOR ALL STRUCTURAL FRAMING SHALL BE AS SPECIFIED BELOW.
 

MARK	NAIL TYPE	DIA.	LENGTH
8d	8d COMM	0.131"	2 1/2"
10d	10d COMM	0.148"	3"
16d	16d COMM	0.162"	3 1/2"
20d	20d COMM	0.192"	4"

- ALL FASTENERS FOR PRESSURE-PRESERVATIVE TREATED & FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.
- SILL BOLTS TO HAVE SQUARE STEEL WASHERS AS INDICATED IN TABLE ABOVE.
- ALL WOOD MEMBERS IN DIRECT CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. MATERIAL TREATED W/ ARGENIC CONTENT ARE NOT PERMITTED (CCA & A.C.A.).
- MINIMUM FASTENINGS OF SHEATHING TO SUPPORTING MEMBERS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS.
 

SHEATHING THICKNESS - t	EDGE FASTENINGS	FIELD FASTENINGS	WOOD
1" < 3/8"	8d @ 6" O.C.	8d @ 12" O.C.	WOOD
3/8" < 1" < 3/4"	10d @ 6" O.C.	10d @ 12" O.C.	WOOD
1" < 3/8"	#8 FLATHEAD SDS @ 6" O.C.	#8 FLATHEAD SDS @ 12" O.C.	COLD FORMED STEEL
3/8" < 1" < 3/4"	#8 FLATHEAD SDS @ 6" O.C.	#8 FLATHEAD SDS @ 12" O.C.	COLD FORMED STEEL

**CONCRETE AND REINFORCING STEEL:**

- (SUBMIT REBAR SHOP DRAWINGS PRIOR TO FABRICATION)
- CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318-19 AS MODIFIED BY CBC.
  - THE MINIMUM 28 DAY STRENGTH AND TYPE OF CONCRETE SHALL BE AS FOLLOWS:
 

SLAB ON GRADE	4000 PSI (150 PCF)
---------------	--------------------
  - CEMENT SHALL CONFORM TO ASTM C150-18, TYPE II - V.
  - CONCRETE AGGREGATES:
 

NATURAL SAND AND ROCK AGGREGATES SHALL CONFORM TO ASTM C89-18.
REINFORCING SHALL CONFORM TO ASTM A615 - GRADE 60, UNO.
WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-18 USING PROPER LOW HYDROGEN ELECTRODES. TACK WELDING TO REBAR IS STRICTLY PROHIBITED. SEE REBAR WELDING NOTE.
  - REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED ACCORDING TO "MANUAL OF STANDARD PRACTICE OF REINFORCED CONCRETE CONSTRUCTION" BY THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI).
  - WIRE FABRIC SHALL CONFORM TO ASTM A1064-17.
  - DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF MAIN BARS AND DENOTE CLEAR COVERAGE. CONCRETE COVERAGE SHALL BE AS FOLLOWS, UNO ON DRAWINGS.
 

CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS) ..... 3"
CONCRETE EXPOSED TO GROUND BUT PLACED IN FORMS ..... 2"
SLABS (ON GROUND) ..... POSITION IN CENTER OF SLAB
  - ALL BARS SHALL HAVE A CLASS B MINIMUM SPLICE LAP UNO. SEE TABLE IN THESE DRAWINGS.
  - GENERAL:
    - NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE SLABS OR WALLS UNLESS SPECIFICALLY DETAILED.
    - REFER TO ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL AND MECHANICAL DRAWINGS FOR ALL MOULDS, GROOVES, ORNAMENTS, GLIPS AND GROUNDS TO BE CAST IN CONCRETE.
  - CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SANDBLASTING OR HOISING THE SURFACE 4 TO 6 HOURS AFTER THE POUR WITH A FINE SPRAY.
  - REMOVE ALL DEBRIS FROM THE FORMS BEFORE PLACING ANY CONCRETE.
  - REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE. OBTAIN APPROVAL OF ALL AFFECTED TRADES PRIOR TO PLACING CONCRETE.
  - MAXIMUM FREE FALL OF CONCRETE SHALL BE 4'-0".
  - WALLS SHALL BE PLACED IN HORIZONTAL LAYERS OF 2'-0" MAX DEPTH.
  - NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE COVERED W/ CONC.
  - CONCRETE MIX DESIGN SHALL BE PREPARED PER CBC CHAPTER 19 AND REVIEWED BY THE STRUCTURAL ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO PLACEMENT.
  - WELDED WIRE FABRIC SHALL BE LAP SPLICED TWO SQUARES MIN. EACH DIRECTION.
  - NOTIFY THE STRUCTURAL ENGINEER 48 HOURS PRIOR TO PLACING CONCRETE.
  - CONTRACTOR TO SUBMIT PROPOSED CONTROL AND CONSTRUCTION JT LOCATION TO STRUCTURAL ENGINEER PRIOR TO CONCRETE POUR. SPACING SHALL BE BETWEEN 24 AND 30 TIMES THE SLAB THICKNESS MAXIMUM.

**GENERAL NOTES:**

- CONSTRUCTION SHALL CONFORM TO THE 2022 CALIFORNIA BUILDING CODE, CBC.
- NOTES AND DETAILS ON TYPICAL SHEETS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS.
- CONTRACTOR SHALL NOT SCALE DRAWINGS FOR SIZES, LENGTHS, CLEARANCES, ETC.
- DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR A SIMILAR CONDITION.
- PRIOR TO FABRICATION SHOP DRAWINGS, SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER ON ALL STRUCTURAL STEEL, REINFORCING STEEL, STAIRS, GLUE-LAMINATED BEAMS, CONCRETE MIX PROPORTIONS. SHOP DRAWINGS SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS AND THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS INTENDED FOR USE. DUPLICATION OF DESIGN DRAWINGS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE, AND CAUSE FOR REJECTION.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
  - THE STRUCTURAL ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
  - CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL SAID CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES. IF NOT RESOLVED PRIOR TO BID, THE MOST STRINGENT CONDITION WILL APPLY.
  - REVIEW OF FIRE SPRINKLER SHOP DRAWINGS, CALCULATIONS AND THE FOLLOW-UP CERTIFICATION LETTER REQUIRED BY THE FIRE MARSHALL IS NOT INCLUDED IN THE SERVICES OF THE STRUCTURAL ENGINEER OF RECORD. THE COST OF THIS REVIEW WILL BE CHARGED TO THE SUBCONTRACTOR RESPONSIBLE FOR THE DESIGN. THIS TEST MUST BE RECEIVED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO THE COMPLETION OF THIS TASK.

**DESIGN LOADS:**

CODE: 2022 CALIFORNIA BUILDING CODE (CBC)

**LIVE LOADS:**

ROOF ..... 20.0 PSF (REDUCIBLE)  
FLOOR ..... 50.0 PSF (REDUCIBLE)

**WIND:**

BASIC WIND SPEED V (3 SEC. 50ST) = 100 MPH  
RISK CATEGORY:  I  II  III  IV  
EXPOSURE: C

ENCLOSURE CLASSIFICATION	INTERNAL PRESSURE COEFFICIENT (icp1)
<input type="checkbox"/> ENCLOSED	+0.18, -0.18
<input type="checkbox"/> PARTIALLY ENCLOSED	+0.55, -0.55
<input type="checkbox"/> PARTIALLY OPEN	+0.18, -0.18
<input type="checkbox"/> OPEN	0.00

VELOCITY PRESSURE qh = 19.0 PSF  
COMPONENTS & CLADDING:

\*WIND PRESSURE FOR BUILDING ELEMENTS (16.0 PSF MINIMUM)

DESIGN WIND PRESSURE (PSF)	* DESIGN PRESSURE IS FOR EFFECTIVE WIND AREA < 10 SQ FT. PRESSURE CAN BE REDUCED FOR LARGER AREAS AS PER ASCE 7-16
ROOF	** - PRESSURE FOR < 2.0 SQ FT EFF AREA
ZONE 1	16.0, -35.1
ZONE 2	16.0, -42.1
ZONE 3	16.0, -64.2
WALL	
ZONE 4	20.5, -22.2
ZONE 5	20.5, -21.4

**SEISMIC:**

BASIC SEISMIC RESISTING SYSTEM TYPE: A1T  
DESCRIPTION: LIGHT FRAMED WOOD WALLS SHEATHED WITH SHEAR PANELS OF ALL OTHER MATERIALS

SEISMIC IMPORTANCE FACTOR Ie	SITE CLASS	RISK CATEGORY	SEISMIC DESIGN CATEGORY
<input type="checkbox"/> 1.00	<input type="checkbox"/> A	<input type="checkbox"/> I	<input type="checkbox"/> A
<input checked="" type="checkbox"/> 1.25	<input type="checkbox"/> B	<input type="checkbox"/> II	<input type="checkbox"/> B
<input type="checkbox"/> 1.50	<input type="checkbox"/> C	<input checked="" type="checkbox"/> III	<input type="checkbox"/> C
	<input checked="" type="checkbox"/> D	<input type="checkbox"/> IV	<input checked="" type="checkbox"/> D
	<input type="checkbox"/> E		<input type="checkbox"/> E
	<input type="checkbox"/> F		<input type="checkbox"/> F

MAPPED MAXIMUM CONSIDERED SPECTRAL RESPONSE ACCELERATIONS: Ss = 0.544  
S1 = 0.260

DESIGN SPECTRAL RESPONSE ACCELERATIONS PARAMETERS: Sps = 0.527  
Spt = 0.361

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE PER 12.5-ASCE 7-16

SEISMIC RESPONSE COEFFICIENT Cp = 0.3246

RESPONSE MODIFICATION FACTOR R = 2.0

SYSTEM OVER STRENGTH FACTOR Ωp = 2.5

DEFLECTION AMPLIFICATION FACTOR Cd = 2.0

DESIGN BASE V = Cp W SHEAR



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ARCHITECT: CONSULTANT:



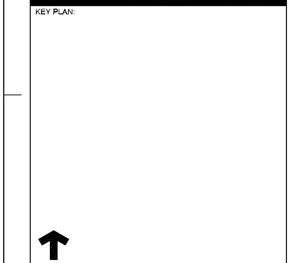
CONSULTANT:

PROJECT NAME:  
**ALICE BIRNEY PUBLIC WALDORF TK-8 SCHOOL**  
6254 13TH STREET  
SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

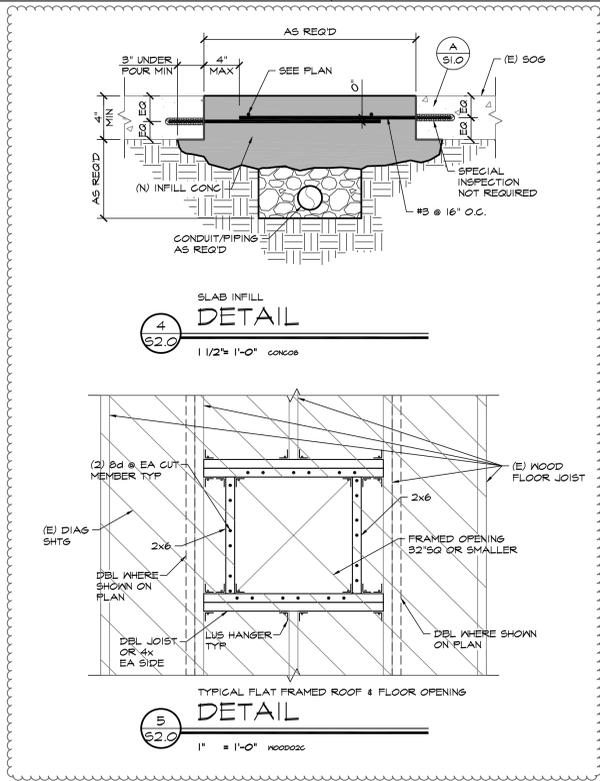
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY



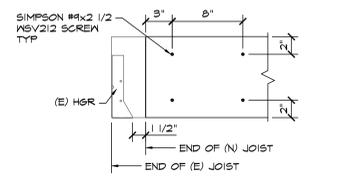
↑ SHEET TITLE:  
**NOTES, PLAN AND DETAILS**

JOB NUMBER: 2023-128	SHEET NUMBER
DATE: 2/21/2024	
REVISION:	<b>S1.0</b>

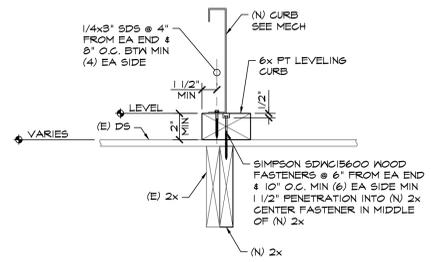


**4**  
S2.0  
SLAB INFILL  
DETAIL  
1 1/2" x 1'-0" CONCRETE

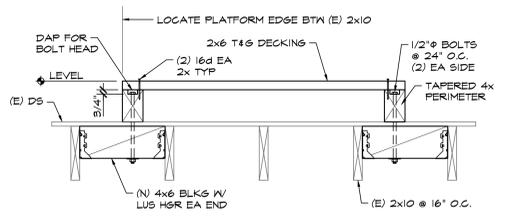
**5**  
S2.0  
TYPICAL FLAT FRAMED ROOF & FLOOR OPENING  
DETAIL  
1" x 1'-0" WOOD JOIST



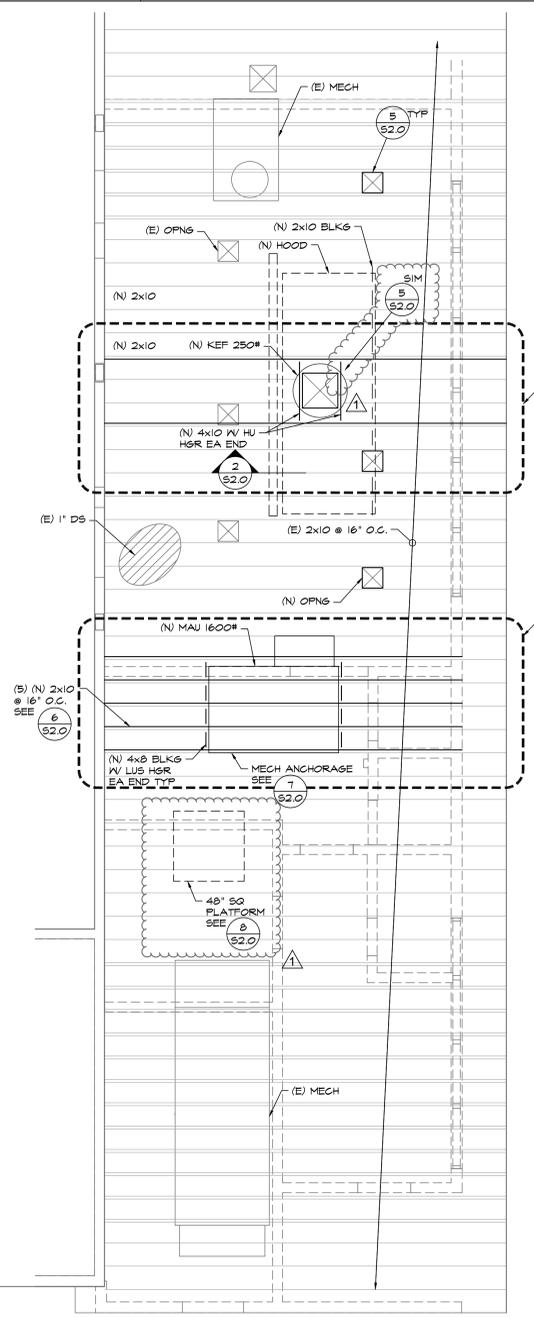
**6**  
S2.0  
DBL JOIST  
DETAIL  
1 1/2" x 1'-0" WOOD JOIST



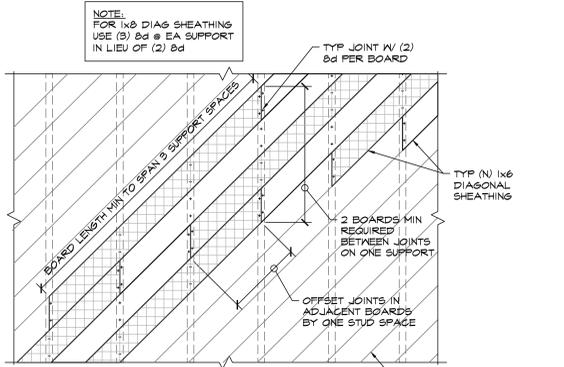
**7**  
S2.0  
DETAIL  
1 1/2" x 1'-0" WOOD JOIST



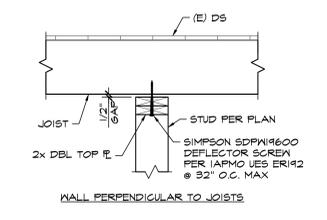
**8**  
S2.0  
PLATFORM FRAMING  
DETAIL  
1" x 1'-0" WOOD JOIST



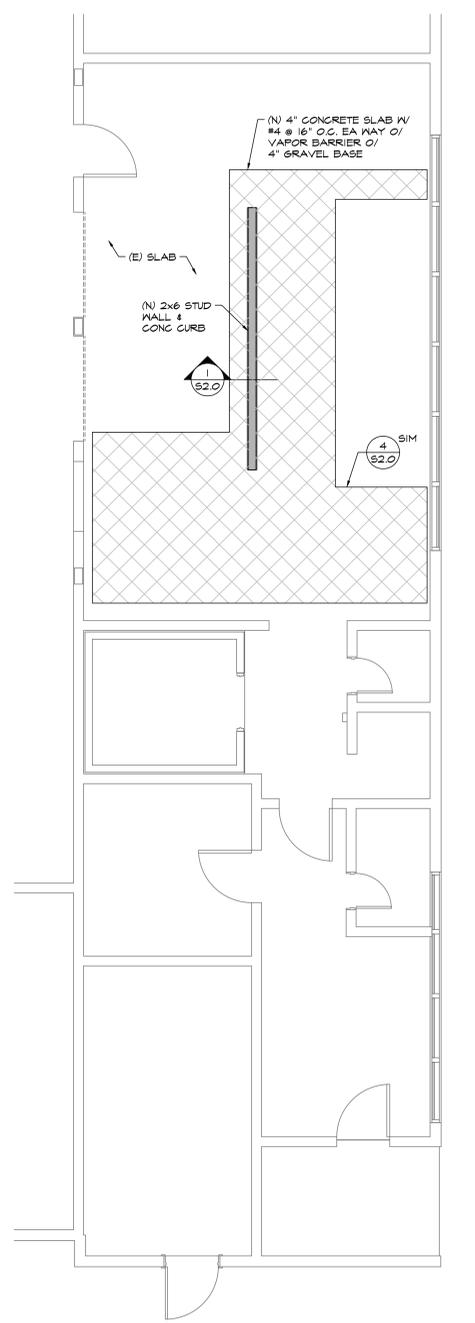
**B**  
S2.0  
PARTIAL BLDG 'A'  
ROOF FRAMING PLAN  
1/4" x 1'-0"



**3**  
S2.0  
NEW DIAGONAL SHEATHING REPLACEMENT  
DETAIL  
3/4" x 1'-0" WOOD JOIST

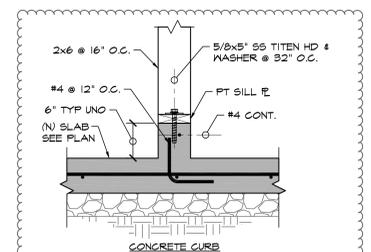


**2**  
S2.0  
NON-BEARING WALL  
DETAIL  
1" x 1'-0" WOOD JOIST



**A**  
S2.0  
PARTIAL BLDG 'A'  
SLAB AND CURB PLAN  
1/4" x 1'-0"

**LEGEND**  
 — INDICATES NEW STUD WALL  
 — INDICATES EXISTING STRUCTURE



**1**  
S2.0  
DETAIL  
1" x 1'-0" WOOD JOIST



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ARCHITECT: CONSULTANT:



CONSULTANT:



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PROJECT NAME:

**ALICE BIRNEY PUBLIC WALDORF TK-8 SCHOOL**  
 6254 13TH STREET  
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**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE: <b>PLANS AND DETAILS</b>	
JOB NUMBER: 2023-128	SHEET NUMBER:
DATE: 2/21/2024	
REVISION: ADD#3 03/05/24	<b>S2.0</b>

## ANCHORAGE / BRACING NOTES

ALL PIPING 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 2022 CBC, SECTION 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16, CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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 INCLUDE ALL ELECTRICAL CONNECTION EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 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 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 AND PIPING. FLEXIBLE CONNECTION MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- 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 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 THE ABOVE REQUIREMENTS.

### PIPING AND DUCTWORK SYSTEM BRACING NOTE:

PIPING AND DUCTWORK SHALL BE BRACED TO COMPLY THE FORCE AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A FIRE APPROVED INSTALLATION GUIDE (E.G. HCAI 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 AND DUCTWORK SUPPORTS SHALL BE AS DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTED AND DETAILS.

NOTE: MECHANICAL PIPING AND DUCTWORK AS SHOWN ON THESE DRAWINGS MEET THE CRITERIA FOR NOT REQUIRING SEISMIC BRACING TO STRUCTURE.

## MECHANICAL NOTES

- MECHANICAL AND PLUMBING DETAILS APPLY TO ALL BUILDINGS WHETHER REFERENCED OR NOT.
- PROVIDE FIRE STOPPING ASSEMBLY PROTECTION FOR DUCT AND PIPE PENETRATIONS OF RATED ASSEMBLIES. FIRE STOP RATING SHALL MATCH RATED ASSEMBLY BEING PENETRATED.
- CONTRACTOR TO OFFSET DUCTWORK AND PIPING AROUND SKYLIGHTS.
- CONTRACTOR TO OFFSET DUCTWORK AND PIPING AROUND ROOF ACCESS LADDERS.
- REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DIFFUSERS/GRILLES.
- DUCTWORK AND/OR PIPING SHALL NOT PENETRATE INTO, OVER, OR THROUGH IT CLOSETS OR ELECTRICAL ROOMS UNLESS IT SERVES THAT SPECIFIC ROOM.
- DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY OFFSET, FITTING, OR STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF WORK. THE CONTRACTORS SHALL COORDINATE LOCATION OF ALL DUCTWORK AND PIPING WITH ALL OTHER TRADES ON THIS PROJECT. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
- CEILING SUPPLY AIR DIFFUSERS TO HAVE 4-WAY BLOW PATTERN UNLESS SHOWN OTHERWISE.
- ALL VALVES SHALL BE FULL LINE SIZES UNLESS NOTED OTHERWISE.
- DUCTWORK AND PIPING (NOT REQUIRING SEISMIC RESTRAINTS) SHALL BE SUPPORTED IN ACCORDANCE TO SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEMS".
- ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE VALVES, EQUIPMENT, ACTUATORS, AND DAMPERS.
- REFERENCE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, EXACT LOCATIONS OF DIFFUSERS, GRILLES, AND MOUNTING HEIGHTS.
- CANCEL ALL PIPING AND DUCTWORK IN WALL FURRINGS, PARTITIONS, ABOVE CEILINGS, EXCEPT IN MECHANICAL ROOMS OR WHERE NOTED OTHERWISE.
- THERMOSTATS TO BE INSTALLED AT 48" AFF (TOP OF THERMOSTAT). DO NOT INSTALL THERMOSTATS OVER CASEWORK OR SHELVEING OVER 24" IN DEPTH AND 34" IN HEIGHT. WHEN INSTALLED ADJACENT TO ELECTRICAL DEVICES, CENTERLINE OF THERMOSTAT SHALL BE AT SAME ELEVATION AS SUCH ELECTRICAL DEVICES AND ELEVATION OF ELECTRICAL DEVICES SHALL TAKE PRECEDENCE.
- MOUNT ROOM CO2 SENSORS ADJACENT TO THERMOSTATS. MOUNT PRESSURE SENSORS IN CEILING NEAR TEMPERATURE SENSOR LOCATION. SEE 2M-631
- CONTRACTOR SHALL CHANGE FILTERS OF ALL INSTALLED MECHANICAL UNITS AT A MINIMUM EVERY 30 DAYS REGARDLESS OF CONDITION DURING CONSTRUCTION PERIOD UNTIL NOTICE OF COMPLETION IS APPROVED BY THE DISTRICT.

## DUCTWORK LEGEND

GENERAL DUCTWORK NOTES		
SINGLE LINE	DOUBLE LINE	NOTES / DESCRIPTION
		45° BRANCH REDUCING LATERAL LOSS
		45° REDUCING LATERAL CROSS LOW LOSS
		90° TEE LOW LOSS
		90° TEE CROSS LOW LOSS
		SQUARE TO ROUND
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH, WHEN REDUCING MAIN, SIDE OF TAKEOFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE THROAT SIZED FOR EQUAL PRESSURE DROP
		VOLUME CONTROL DAMPER

### DUCTWORK SYMBOLS

	FLEXIBLE DUCTWORK
	DUCT (FIRST FIGURE SIDE SHOWN, SECOND FIGURE SIDE NOT SHOWN)
	LINED DUCT, EXTERIOR DIMENSIONS (FIRST FIGURE SIDE SHOWN, SECOND FIGURE SIDE NOT SHOWN)
	EXHAUST AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	SUPPLY AIR DUCT SECTION
	DROP IN DIRECTION OF ARROW
	RISE IN DIRECTION OF ARROW
	TURNING VANES

## APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFIRM TO THE FOLLOWING CODES AND REGULATIONS:

- CALIFORNIA CODE OF REGULATIONS - TITLE 24
- CALIFORNIA BUILDING CODE, 2022
- CALIFORNIA MECHANICAL CODE, 2022
- CALIFORNIA PLUMBING CODE, 2022
- CALIFORNIA FIRE CODE, 2022
- CALIFORNIA ELECTRICAL CODE, 2022
- CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, 2022

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IF FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

## MECHANICAL LEGEND

ABBREVIATIONS					
ABC	ABOVE FINISHED CEILING	FLR	FLOOR	OC	ON CENTER
AC	AIR CONDITIONING	FPM	FEET PER MINUTE	PC	PUMPED CONDENSATE
ACU	AIR CONDITIONING UNIT	FS	FLOW SWITCH	PD	PRESSURE DROP
AD	ACCESS DOOR	FSD	FIRE SMOKE DAMPER	PF	PRE FILTER
AFF	ABOVE FINISHED FLOOR	FT	FEET	PH	PHASE
AFC	ABOVE FINISHED CEILING	GA	GAUGE	PLBG	PLUMBING
AHU	AIR HANDLING UNIT	GC	GENERAL CONTRACTOR	POC	POINT OF CONNECTION
AP	ACCESS PANEL	GALV	GALVANIZED	POD	POINT OF DISCONNECTION
APD	AIR PRESSURE DROP	GSM	GALVANIZED SHEET METAL	PRV	PRESSURE REDUCING VALVE
AVV	AUTOMATIC AIR VENT	GPH	GALLONS PER HOUR	PS	PRESSURE SWITCH
ARCH	ARCHITECT	GPM	GALLONS PER MINUTE	PSI	POUNDS PER SQUARE INCH
BAS	BUILDING AUTOMATION SYSTEM	GV	GATE VALVE	PSIG	POUNDS PER SQUARE INCH GAUGE
BDD	BACK DRAFT DAMPER	HC	HEATING COIL	R	RISER
BF	BELOW FLOOR	HP	HORSEPOWER	RA	RETURN AIR
BHP	BRAKE HORSEPOWER	HPR	HIGH PRESSURE CONDENSATE	RAD	RETURN AIR DAMPER
BOD	BOTTOM OF DUCT	RETURN	RETURN	RD	REFRIGERANT DISCHARGE
BOP	BOTTOM OF PIPE	HPS	HIGH PRESSURE STEAM, ABOVE 60 PSIG	RF	RELIEF FAN
BTUH	BRITISH THERMAL UNIT PER HOUR	HR	HOUR	RH	RELATIVE HUMIDITY
BV	BUTTERFLY VALVE	HRP	HEAT RECOVERY PUMP	RHC	REHEAT COIL
CA	COMPRESSED AIR	HRR	HEAT RECOVERY RETURN	RL	REFRIGERANT LIQUID
CAP	CAPACITY	HRS	HEAT RECOVERY SUPPLY	RLA	RUNNING LOAD AMPS
CAV	CONSTANT AIR VOLUME	HVAC	HEATING VENTILATING & AIR CONDITIONING	RM	ROOM
CC	CENTER TO CENTER	HWP	HEATING WATER PUMP	RPM	REVOLUTIONS PER MINUTE
CD	CONDENSATE DRAIN	HWR	HEATING WATER RETURN	RS	REFER TO SPECIFICATIONS
CEF	CEILING EXHAUST FAN	HWS	HEATING WATER SUPPLY	SA	SUPPLY AIR
CFM	CUBIC FEET PER MINUTE	HXR	HEAT EXCHANGER	SCD	SECONDARY CONDENSATE DRAIN
CHWP	CHILLED WATER PUMP	ID	INSIDE DIAMETER	SCH	SCHEDULE
CHWR	CHILLED WATER RETURN	IN WC	INCHES OF WATER COLUMN	SCR	STEAM CONDENSATE RETURN
CHWS	CHILLED WATER SUPPLY	KW	KILOWATTS	SFF	SUPPLY FAN
CO2	CARBON DIOXIDE	KWH	KILOWATT HOUR	SH	SHEET
CU	CONDENSING UNIT	LAT	LEAVING AIR TEMPERATURE	SHWP	SECONDARY HEATING WATER PUMP
CV	CONTROL VALVE	LBS	POUNDS	SM	SHEET METAL
CWP	CONDENSING WATER PUMP	LDB	LEAVING DRY BULB	SMS	SHEET METAL SCREW
CWR	CONDENSING WATER RETURN	LWB	LEAVING WET BULB	SP	STATIC PRESSURE
CWS	CONDENSING WATER SUPPLY	LP	LOW PRESSURE	SPD	STATIC PRESSURE DROP
D	DROP	LPR	LOW PRESSURE CONDENSATE RETURN	SQFT	SQUARE FEET
DB	DRY BULB TEMPERATURE	LPS	LOW PRESSURE STEAM, 5-15 PSIG	SQIN	SQUARE INCHES
DET	DETAIL	LWT	LEAVING WATER TEMPERATURES	SS	STAINLESS STEEL
DIA	DIAMETER	LRA	LOCKED ROTOR AMPS	TA	TO ABOVE
DIS	DEIONIZED (PURE) STEAM	MAV	MANUAL AIR VENT	TB	TO BELOW
DN	DOWN	MAX	MAXIMUM	TCV	TEMPERATURE CONTROL VALVE
DSD	DUCT SMOKE DETECTOR	MBH	1,000 BRITISH THERMAL UNITS PER HOUR	TG	TRANSFER GRILLE
DTR	DUCT THRU ROOF	MC	MECHANICAL CONTRACTOR	TH	THERMOMETER
DWG	DRAWING	MCC	MOTOR CONTROL CENTER	TSP	TOTAL STATIC PRESSURE
(E)	EXISTING	MD	MANUEL DAMPER	TSTAT	THERMOSTAT
(ER)	EXISTING RELOCATED	MFR	MANUFACTURER	TYP	TYPICAL
EA	EXHAUST AIR	MIN	MINIMUM	UNON	UNLESS OTHERWISE NOTED
EAD	EXHAUST AIR DAMPER	MISC	MISCELLANEOUS	UG	UNDER GROUND
EAT	ENTERING AIR TEMPERATURE	MPR	MEDIUM PRESSURE CONDENSATE RETURN	UF	UNDER FLOOR
EF	EXHAUST FAN	NEW	NEW	V	VOLTS
ELEC	ELECTRICAL	NC	NORMALLY CLOSED	VAV	VARIABLE AIR VOLUME
ESP	EXTERNAL STATIC PRESSURE	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	VD	VOLUME DAMPER
ET	EXPANSION TANK	NTS	NOT TO SCALE	VCD	VOLUME CONTROL DAMPER
EWT	ENTERING WATER TEMPERATURE	NA	NOT APPLICABLE	VFD	VARIABLE FREQUENCY DRIVE
*F	DEGREES FAHRENHEIT	OA	OUTSIDE AIR	VLV	VALVE
FA	FROM ABOVE	OAD	OUTSIDE AIR DAMPER	WB	WET BULB
FB	FROM BELOW	OBD	OPPOSED BLADE DAMPER	WPD	WATER PRESSURE DROP
FC	FLEXIBLE CONNECTION			WMS	WIRE MESH SCREEN
FCU	FAN COIL UNIT			W	WITH
FD	FIRE DAMPER			W/O	WITHOUT
FF	FINAL FILTER			WT	WEIGHT
FFU	FAN/FILTER UNIT			\$	ON/OFF SWITCH/STARTER
FLA	FULL LOAD AMPS				

### SYMBOLS

	CONDENSATE DRAIN		UNION
	FLOW IN DIRECTION OF ARROW		DIAMETER
	REDUCER		ROOM THERMOSTAT
	OUTSIDE AIR INTO LOUVER		ROOM CO2 SENSOR
	RETURN OR EXHAUST AIR INTO REGISTER		ROOM PRESS. SENSOR
	SUPPLY AIR FROM REGISTER		POINT OF CONNECTION
	RETURN AIR GRILLE		POINT OF DISCONNECTION
	EXHAUST AIR GRILLE		ROOM NAME AND NUMBER
	TRANSFER AIR GRILLE		
	ITEM TO BE REMOVED / DEMOED		
	ITEM TO BE ABANDONED IN PLACE		

## EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER & MODEL NUMBER	TOTAL CFM	EXTERNAL SP (INCHES W.C.)	MOTOR HP	MOTOR BHP	MOTOR RPM	ELECTRICAL	MAXIMUM UNIT WEIGHT (LBS.)	MOUNTING DETAIL
	GREENHECK MODEL: CUE-240-HP-VG	2,888	0.75	1	0.56	810	120V / 1Ø / 60 Hz	250	3/M501

NOTES:

- PROVIDE ROOF MOUNTED EXHAUST FANS WITH MANUFACTURER'S ROOF CURB, BIRDSCREEN, AND BACKDRAFT DAMPER.
- LISTED MAXIMUM UNIT WEIGHT INCLUDES ALL ACCESSORIES (ROOF CURB, BIRDSCREENS, BACKDRAFT DAMPERS, ETC.).
- KITCHEN HOOD EXHAUST FAN - PROVIDE WITH UL782 ACCESSORIES INCLUDING GREASE TROUGH AND VENTILATED/HINGED CURB EXTENSION.

## EQUIPMENT LIST

	MAKEUP AIR UNIT: LAIRE MODEL UPC-FC08MK9023M00A-VVVV 100% OA, NOMINAL 8.5 TON HEAT PUMP UNIT TO BE PROVIDED WITH MODULATING HOT GAS REHEAT, VFD FACTORY SET, SUCTION ACCUMULATOR, LIQUID RECEIVER, 100% OA, EVAPORATOR FREEZE PROTECTION, VERTICAL DOWN DISCHARGE, ELECTRIC REHEAT, TWO COMPRESSORS WITH UNIT MODULATING AT DOWN TO 25% OF FULL CAPACITY.
	<ul style="list-style-type: none"> <li>2,800 CFM OF OUTSIDE AIR AGAINST 0.8" ESP</li> <li>2.4 HP MOTOR RATING</li> <li>COOLING EAT 105F/70F, TOTAL CAPACITY 96 MBH, LAT 69°F DW / 58°F WB</li> <li>HEATING EAT 20F, CAPACITY AT 47°F 96 MBH, LAT 74°F</li> <li>NOMINAL 32 KW REHEAT COIL WITH MODULATING CONTROL, 15%-100% WITH APPROXIMATELY 1°F INCREMENTS.</li> <li>208 V 3Ø / 60HZ, MCA = 107.9A, MOCP = 110A</li> <li>2 COMPRESSORS, COMPRESSOR 1 RLA = 14.5A, COMPRESSOR 2 RLA = 13.7A</li> <li>INDOOR SUPPLY FAN FLA = 6.4A</li> <li>ELECTRIC HEAT FLA = 66.7A</li> <li>TWO OUTDOOR FANS = 1.5 EACH</li> </ul>
	WEIGHT = 1,750 LBS INCLUDING WELDED CURB FOR MOUNTING SEE 4/M501

## DIFFUSER / GRILLE SCHEDULE

TAG	SERVICE	MANUFACTURER / MODEL #	DISCRPTION
S1	CEILING SUPPLY	TITUS MODEL MCD	CEILING MODULAR CORE STEEL DIFFUSER, PROVIDE 24"x24" MODULE WITH BORDER TYPE 3 FOR MOUNTING WITHIN TEE-BAR. PROVIDE BORDER TYPE 1 FOR SURFACE MOUNT. SET FOR 4-WAY BLOW PATTERN UNLESS DEPICTED OTHERWISE.
R1	SIDEWALL SUPPLY MULTI-PURPOSE	TITUS MODEL 30RL	<p>HEAVY DUTY SIDEWALL RETURN GRILLE:</p> <p>GRILLE TO BE AS FOLLOWS:</p> <ul style="list-style-type: none"> <li>LINEAR BAR GRILLE</li> <li>BAR TO HAVE A 0° FIXED DEFLECTION ANGLE.</li> <li>BAR TO BE SPACED AT 1/2"</li> <li>FRONT BLADES PARALLEL TO THE LONG DIMENSION.</li> <li>STEEL CONSTRUCTION WITH 14 GAUGE BLADES AND 16 GAUGE BORDER</li> <li>SUPPORT BARS 6" ON CENTER</li> <li>PROVIDE BORDER TYPE 1 FOR SURFACE MOUNTING</li> </ul>



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WESTON & ASSOCIATES #23-075

CONSULTANT:



PROJECT NAME:

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6254 13TH STREET  
SACRAMENTO, CA 95831

CAMPUS RENEWAL

SACRAMENTO CITY UNIFIED  
SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:

↑

SHEET TITLE:

MECHANICAL  
LEGEND, SCHEDULES,  
AND NOTES

JOB NUMBER:

SHEET NUMBER:

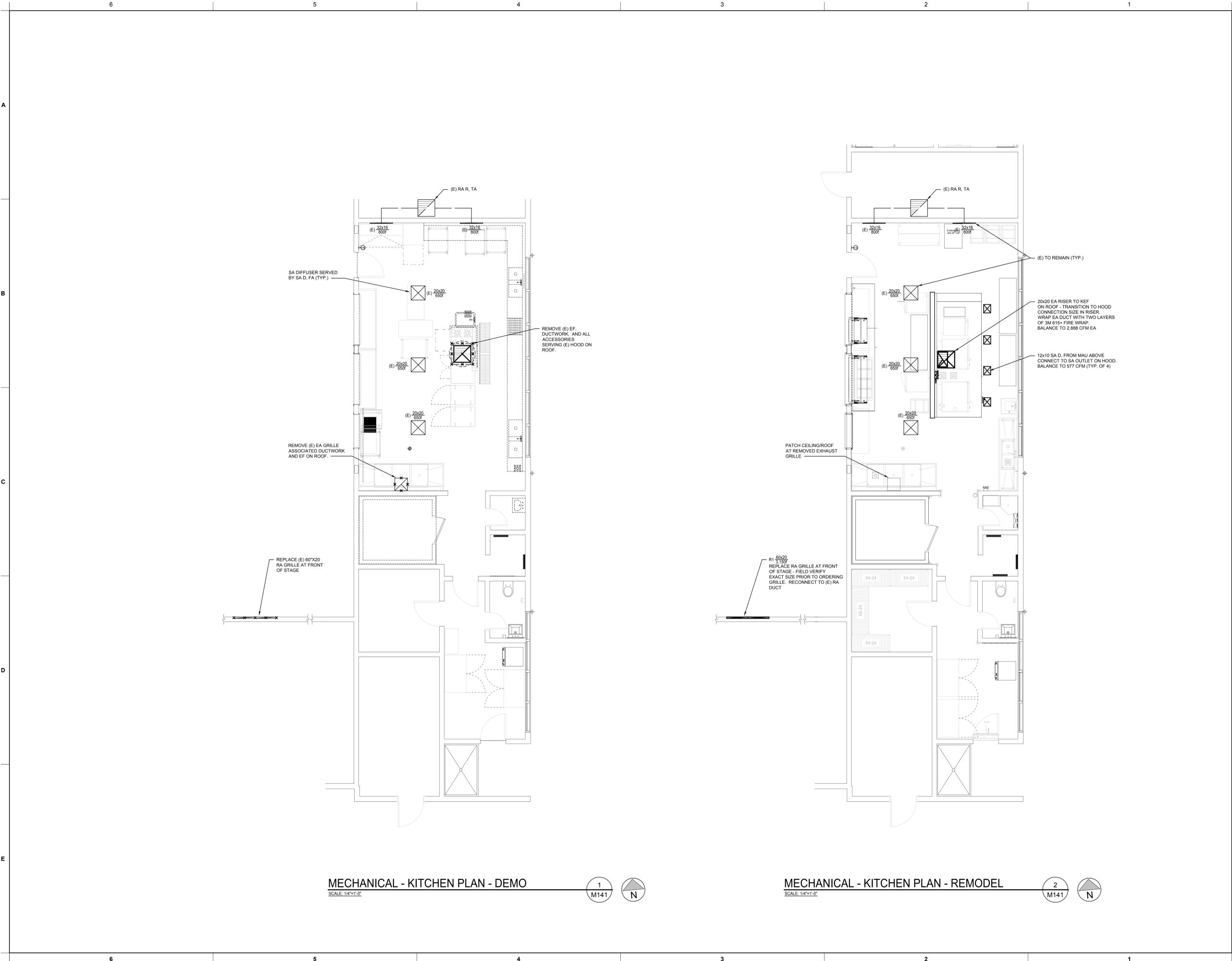
DATE:

JAN. 5, 2024

REVISION:

ADD#3 03/05/24

M001



**MECHANICAL - KITCHEN PLAN - DEMO**  
 SCALE: 1/4"=1'-0"  
 1 M141 N

**MECHANICAL - KITCHEN PLAN - REMODEL**  
 SCALE: 1/4"=1'-0"  
 2 M141 N

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CONSULTANT:

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 No. M31220  
 RENEWAL DATE: 03/31/2026  
 MECHANICAL ENGINEER  
 CALIFORNIA PROFESSIONAL ENGINEERS  
 No. M31220  
 RENEWAL DATE: 03/31/2026

PROJECT NAME:  
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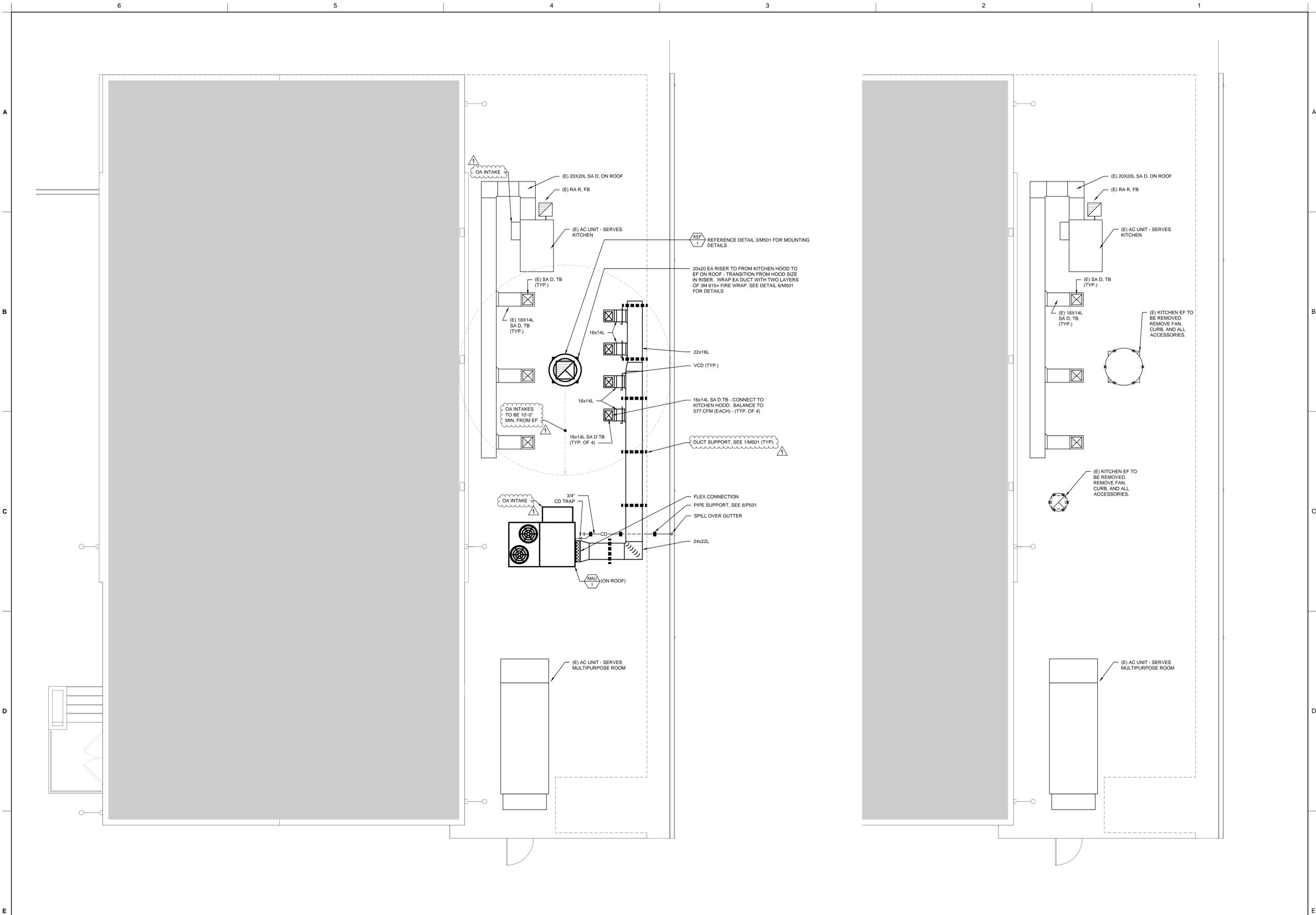
SACRAMENTO COUNTY

KEY PLAN:

↑

SHEET TITLE:  
**MECHANICAL ENLARGED KITCHEN PLANS**

JOB NUMBER:	SHEET NUMBER:
DATE: JAN. 5, 2024	<b>M141</b>
REVISION: ADD#3 03/05/24	



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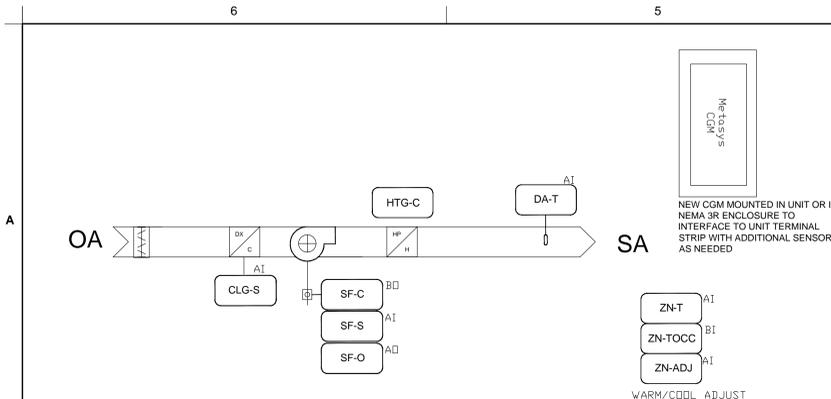
REGISTERED PROFESSIONAL ENGINEER  
WESTON & ASSOCIATES  
No. M31220  
RENEWAL DATE: 03/31/2025  
MECHANICAL ENGINEER  
STATE OF CALIFORNIA

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SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
SACRAMENTO COUNTY

KEY PLAN:	
↑	
SHEET TITLE: <b>MECHANICAL ENLARGED KITCHEN ROOF PLANS</b>	
JOB NUMBER:	SHEET NUMBER:
DATE: JAN. 5, 2024	<b>M161</b>
REVISION: ADD#3 03/05/24	



**SEQUENCE OF OPERATION**

**SUPPLY FAN CONTROL:**  
 THE SUPPLY FAN (SF-C) WILL BE STARTED BASED ON INTERLOCK TO THE KITCHEN EXHAUST FAN, WHEN THE SUPPLY FAN STATUS (SF-S) INDICATES THE FAN STARTED. THE CONTROL SEQUENCE WILL BE ENABLED UPON A LOSS OF AIRFLOW (SF-S). THE SUPPLY FAN WILL ATTEMPT TO AUTOMATICALLY RESTART UNTIL POSITIVE STATUS IS RECEIVED. THE SUPPLY FAN WILL MODULATE (SF-O) RUN TO MAINTAIN THE AIRFLOW DETERMINED DURING BALANCE.

**TEMPERATURE CONTROL:**  
 THE UNIT WILL CONTROL TO MAINTAIN THE LOCALLY ADJUSTABLE ZONE TEMPERATURE SETPOINT (ZN-ADJ) AS SENSED BY THE ZONE TEMPERATURE (ZN-T) SENSOR.

**OCCUPIED MODE:**  
 THE OCCUPANCY MODE WILL BE CONTROLLED VIA A NETWORK INPUT (OCC-SCHEDULE). THE OCCUPANCY MODE CAN ALSO BE OVERRIDDEN BY A NETWORK INPUT (OCC-OVERRIDE). A TEMPORARY OCCUPANCY BUTTON (ZN-TOCC) ON THE ZONE SENSOR WILL PLACE THE UNIT IN OCCUPIED MODE FOR AN ADJUSTABLE TIME.

**UNOCCUPIED MODE:**  
 THE UNIT WILL CYCLE TO MAINTAIN UNOCCUPIED ZONE SETPOINTS (CLGUNOCC-SP & HTGUNOCC-SP) DURING UNOCCUPIED PERIODS.

**COOLING COIL:**  
 THE COOLING COIL WILL BE STAGED IN SEQUENCE TO MAINTAIN THE TEMPERATURE SETPOINT.

**HEATING COIL:**  
 THE HEATING COIL WILL BE STAGED IN SEQUENCE TO MAINTAIN THE TEMPERATURE SETPOINT.

**EXHAUST FAN INTERLOCK:**  
 THE MAKE UP AIR UNIT IS INTERLOCKED TO ITS RESPECTIVE EXHAUST FAN EF/M1. WHENEVER THE EF FAN EF/M1 IS COMMANDED ON, THE MAU WILL SIMILARLY BE COMMANDED ON. THE TWO FANS WILL RUN IN TANDEM TO MAINTAIN A SLIGHT POSITIVE PRESSURE IN THE SPACE AS DETERMINED DURING THE SYSTEM BALANCE.

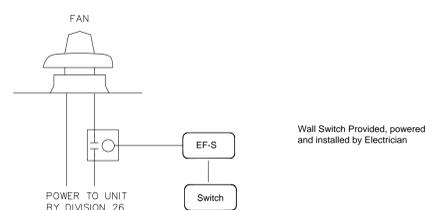
**ADDITIONAL POINTS MONITORED BY THE BMS:**

- SUPPLY FAN AMPERAGE (SF-S)
- DISCHARGE AIR TEMPERATURE (DA-T)
- COMPRESSOR AMPERAGE (CLG-S)

**ALARMS:**

- IF THE ZONE TEMPERATURE (ZN-T) RISES 5F ABOVE OR BELOW THE COOLING AND HEATING SET POINTS.
- IF THE FAN COMMAND DOES NOT MATCH THE FAN STATUS.
- THE CONTROLLER SHALL ALARM IF THE UNIT COOLING COMMAND DOES NOT MATCH THE COOLING STATUS

**MAKE UP AIR UNIT**



**SEQUENCE OF OPERATION**

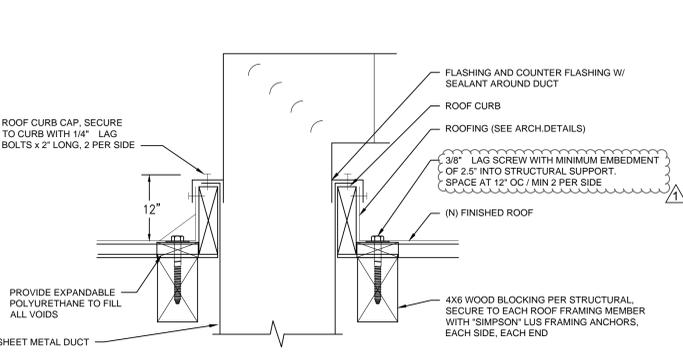
**FAN CONTROL**  
 THE EXHAUST FAN WILL BE COMMANDED ON AND OFF VIA A WALL SWITCH (PROVIDED AND INSTALLED BY THE KITCHEN HOOD MANUFACTURE). THE BMS IS TO MONITOR THE STATUS AND CURRENT OF THIS FAN.  
 FAN TAG: EF/1

**KITCHEN HOOD EXHAUST FAN**

**CONTROL DIAGRAMS**

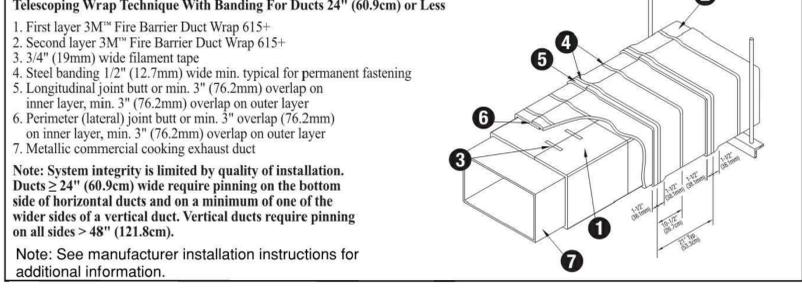
NTS M501

**DUCT THRU ROOF DETAIL**

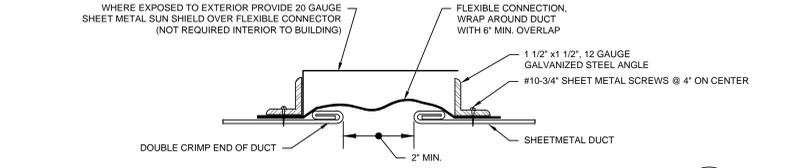


NTS M501

**3M™ Fire Barrier Duct Wrap 615+ Commercial Kitchen Grease Duct Systems (Figure 1)**

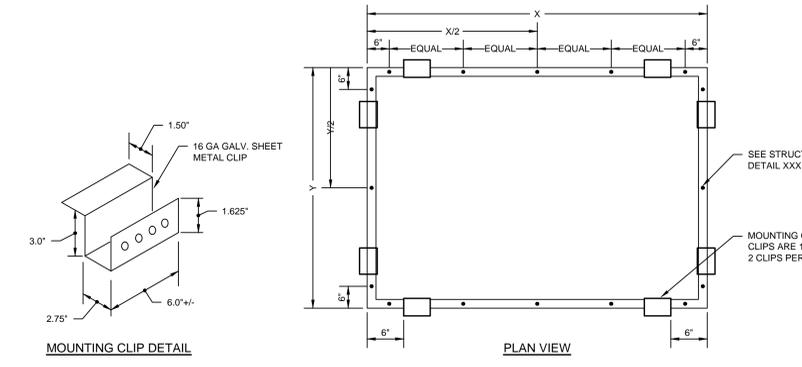


**3M FIRE WRAP DETAIL**  
 NTS M501

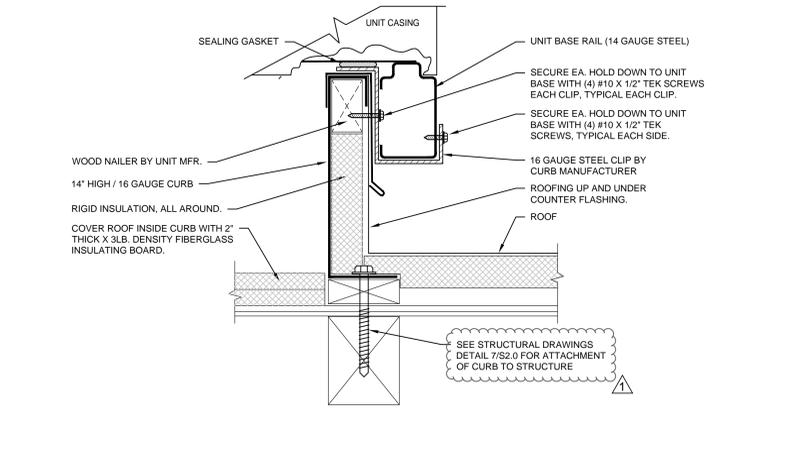


**FLEX CONNECTION @ MAU**

NTS M501



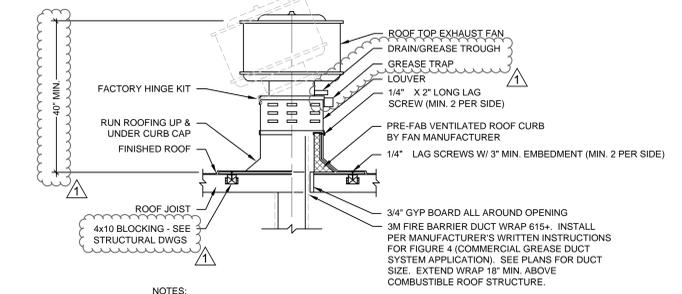
**MAKE UP AIR UNIT MOUNTING DETAIL**



**NOTES:**

- CURBS ARE "UNI-PRODUCTS" MODEL CAL108180 ROOF CURBS WITH A HEIGHT OF 14".
- CURBS TO BE SLOPED TO PROVIDE LEVEL TOP.
- ALL WOOD ABOVE ROOF SHALL BE PRESSURE TREATED DOUGLAS FIR #1.

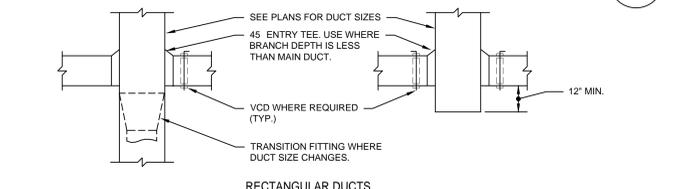
NTS M501



**NOTES:**

- CONNECT EXHAUST DUCT TO EF ON ROOF AS REQUIRED.
- WOOD NAILERS TO BE FIRE TREATED WOOD.

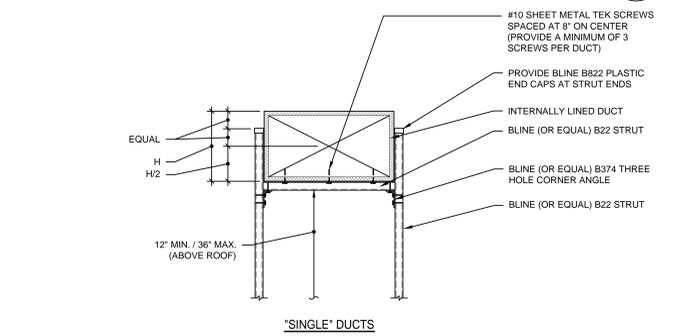
**KITCHEN EXHAUST HOOD FAN DETAIL**



**NOTES:**

- DUCT SYSTEMS NOT INSTALLED IN ACCORDANCE WITH THIS DETAIL WILL BE REJECTED.
- PROVIDE VCD FOR ALL BRANCH DUCTWORK SERVING INDIVIDUAL INLETS AND OUTLETS WHETHER SHOWN OR NOT. LOCATE VCD WITHIN 18\"/>

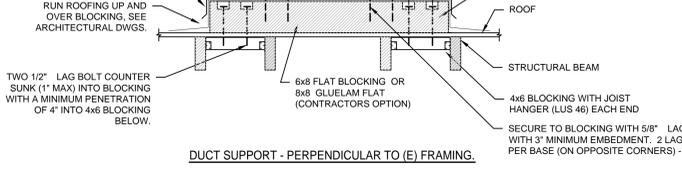
**LOW VELOCITY BRANCH DUCT TAKE-OFF DETAIL**



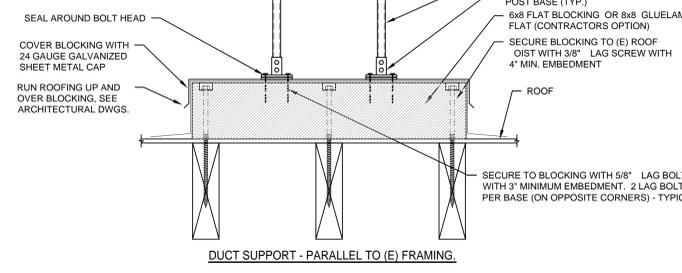
**NOTES:**

- CONNECT STRUT/FITTINGS TOGETHER WITH MANUFACTURERS HEX SCREWS AND STANDARD NUTS (WITHOUT SPRINGS). PROVIDE LOCK WASHER AT EACH CONNECTION.
- MAXIMUM SPACING BETWEEN SUPPORTS TO BE 6'-0".
- REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS.

**DUCT SUPPORT - PERPENDICULAR TO (E) FRAMING.**



**DUCT SUPPORT - PARALLEL TO (E) FRAMING.**



**NOTES:**

- CONNECT STRUT/FITTINGS TOGETHER WITH MANUFACTURERS HEX SCREWS AND STANDARD NUTS (WITHOUT SPRINGS). PROVIDE LOCK WASHER AT EACH CONNECTION.
- MAXIMUM SPACING BETWEEN SUPPORTS TO BE 6'-0".
- REFERENCE STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS.

NTS M501



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**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**

**SACRAMENTO COUNTY**

KEY PLAN:

SHEET TITLE: **MECHANICAL DETAILS**

JOB NUMBER: SHEET NUMBER:

DATE: JAN. 5, 2024

REVISION: ADD#3 03/05/24

M501

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Alice Birney TK-8  
 Report Page: (Page 7 of 10)  
 Date Prepared: 1/2/2024

**J. VENTILATION AND INDOOR AIR QUALITY**  
 For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.  
 120.2(c)3 requires systems serving rooms that are required by 130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250<sup>2</sup> or smaller, multipurpose rooms less than 1,000<sup>2</sup>, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by 130.1(c).

**K. TERMINAL BOX CONTROLS**  
 This section does not apply to this project.

**L. DISTRIBUTION (DUCTWORK AND PIPING)**  
 This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(a) for duct sealing.  
 01  Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.  
 Duct Leakage Testing  
 The answers to the questions below apply to the following duct systems: MAU-1 NR/ Common Use: Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems? No

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STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Alice Birney TK-8  
 Report Page: (Page 8 of 10)  
 Date Prepared: 1/2/2024

**L. DISTRIBUTION (DUCTWORK AND PIPING)**  
 Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?  
 Duct leakage testing per CMC Section 603.10.1 required for these systems? Yes  
 11 No The scope of the project includes only duct systems serving healthcare facilities.  
 12 Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.  
 13 Yes The space conditioning system serves less than 5,000<sup>2</sup> of conditioned floor area.  
 14 No The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system.  
 15 The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.  
 16 No The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.  
 17 All ductwork and plenums with pressure class ratings shall be constructed to Seal Class A.  
 18 All ductwork is an extension of an existing duct system.  
 19 Ductwork serving individual dwelling unit.  
 20 < 25 ft of new or replacement space conditioning ducts installed.  
 21 R-8 Duct Insulation R-value.  
 22  
 23

**M. COOLING TOWERS**  
 This section does not apply to this project.

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STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Alice Birney TK-8  
 Report Page: (Page 9 of 10)  
 Date Prepared: 1/2/2024

**N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**  
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title-24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCI/](https://www.energy.ca.gov/title-24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/)  
 Form/Title  
 NRCI-MCH-01-E - Must be submitted for all buildings

**O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE**  
 Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at [https://www.energy.ca.gov/title-24/2019standards/2019\\_compliance\\_documents/Nonresidential\\_Documents/NRCA/](https://www.energy.ca.gov/title-24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/)  
 Form/Title  
 NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.  
 NRCA-MCH-03-A - Constant Volume Single Zone HVAC NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".  
 NRCA-MCH-11-A Automatic Demand Shed Controls MAU-1;

**P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION**  
 There are no NRCV forms required for this project.

**Q. MANDATORY MEASURES DOCUMENTATION LOCATION**  
 This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.  
 01 Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block Yes  
 02 Plan sheet or construction document location M-Sheets

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STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Alice Birney TK-8  
 Report Page: (Page 4 of 10)  
 Date Prepared: 1/2/2024

**H. FAN SYSTEMS & AIR ECONOMIZERS**  
 This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(f), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in this table.

System Name	MAU-1	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	2,600	Site Elevation	84	Economizer	Differential Temperature
01	02	03	04	05	06	07	08	09	10	11					
Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g.)	Component Allowance	Fan Allowance (watt/cfm)	Design Method	Input Power	Motor Nameplate Horsepower	Design Electrical Input Power (kW)				
SF	Supply	1	Base Allowance for system serving spaces c/c floors away	2,600	603			Manufacturer provided			1.47				
			MERV 13-16 Filter upstream of thermal conditioning equipment	2,600	361										
			Hydronic/DX cooling coil or heat pump coil	2,600	361										
			100% outdoor air system	2,600	182										
Supply Fan Base Allowance (kW)			Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)					1.51	Fan System Electrical Output (kW)		1.47				

<sup>1</sup> FOOTNOTES: Fans serving spaces with design background noise goals below NC35  
<sup>2</sup> Low-turbulence single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.  
<sup>3</sup> Fan system allowance includes fan system base allowance.  
<sup>4</sup> Filter pressure loss can only be counted once per fan system.  
<sup>5</sup> Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.  
<sup>6</sup> Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-C document.

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 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-7509-0124-0373  
 Schema Version: rev 20220101 Report Generated: 2024-01-02 15:07:43

STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Alice Birney TK-8  
 Report Page: (Page 5 of 10)  
 Date Prepared: 1/2/2024

**H. EXHAUST AIR HEAT RECOVERY 140.4(i), 170.2(c)4D**

Fan System Name	City	Hours of Operation per Year	Design Supply Airflow Rate	Outdoor Airflow	% Outdoor Air at Full Design Airflow	Exemptions to Heat Recovery Requirement per 140.4(i) & 170.2(c)4D	Exhaust Air Heat Recovery 140.4(i) & 170.2(c)4D	Type Of Heat Recovery Rating	Required Recovery Ratio	Energy Recovery Bypass
01	02	03	04	05	06	07	08	09	10	11
Fan Energy Index (FEI)	01 Name or Item Tag		02 FEI Exception		03 FEI					

**I. SYSTEM CONTROLS**  
 This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)(2) 140.2(b)(2) for altered space conditioning systems.

System Name	System Zoning	Conditioned Floor Area Being Served (ft <sup>2</sup> )	Thermostats 110.2(b) & (c), 120.2(a) & 160.3(a)(2A) or 141.0(b)(2) & 160.3(a)(2)	Shut-Off Controls 120.2(a) & 160.3(a)(2)	Isolation Zone Controls 120.2(a) & 160.3(a)(2)	Demand Response 110.2(b)(2) & 160.3(a)(2B)	Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	Window Interlocks per 140.4(n) & 170.2(c)4D
MAU-1	Single zone	<= 25,000 ft <sup>2</sup>	Setback	Auto Timer Switch	4 Hour Timer	DR Tstat per 110.12	Included	NA: Alteration Project

<sup>1</sup> FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

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STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Alice Birney TK-8  
 Report Page: (Page 6 of 10)  
 Date Prepared: 1/2/2024

**J. VENTILATION AND INDOOR AIR QUALITY**  
 This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(c)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and 120.2(e)3B/1160.2, 160.3(a)3D, 170.2(c)4N, 170.2(c)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

System Name	MAU-1	System Design OA CFM Airflow <sup>1</sup>	2888	System Design Transfer Air CFM	0	Air Filtration per 120.1(i)(3) 141.0(b)(2) and 160.2(c)(2) <sup>1</sup>	Provided
08	09	10	11	12	13	14	15
Space Name or Item Tag	Occupancy Type <sup>4</sup>	Conditioned Floor Area (ft <sup>2</sup> )	# of Shower head/ toilets	# of people <sup>5</sup>	Required Min OA CFM	Required Min CFM	Provided per Design CFM
Kitchen Space	Kitchen (cooking)	624			93.6	436.8	2888
17	Total System Required Min OA CFM		94	18	Ventilation for this System Complies? Yes		

<sup>1</sup> FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.  
<sup>2</sup> Air filtration requirements apply to the following three system types per 120.1(i)(1)(A): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply-side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.  
<sup>3</sup> Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.  
<sup>4</sup> See Standards Tables 120.1-A and 120.1-B.

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STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Alice Birney TK-8  
 Report Page: (Page 1 of 10)  
 Date Prepared: 1/2/2024

**A. GENERAL INFORMATION**

01 Project Location (city)	Sacramento	04 Total Conditioned Floor Area	624
02 Climate Zone	12	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1
* All Other Occupancies			

**B. PROJECT SCOPE**  
 This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)(2) and 180.2(b)(2) for alterations.

01	02	03
Air System(s)	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
<input type="checkbox"/> Mechanical Controls	<input type="checkbox"/> System Piping	<input checked="" type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input checked="" type="checkbox"/> Ductwork (existing to remain, altered or new)
<input type="checkbox"/> Chillers	<input checked="" type="checkbox"/> Ventilation	<input type="checkbox"/> Zonal Systems/ Terminal Boxes
<input type="checkbox"/> Boilers		

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STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Alice Birney TK-8  
 Report Page: (Page 2 of 10)  
 Date Prepared: 1/2/2024

**C. COMPLIANCE RESULTS**  
 Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, or the table indicated as not compliant for guidance.

System Summary	02	03	04	05	06	07	08	09
110.1, 110.2, 140.4, 170.2(c)	Pumps 140.4(k), 170.2(c)4I	Fans/Economizers 140.4(c), 140.4(e), 170.2(c)	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND Ventilation 120.1, 160.2	AND Terminal Box Controls 140.4(d), 170.2(c)4B	AND Distribution 120.3, 140.4(h), 160.2, 160.3	AND Cooling Towers 110.2(e)2	COMPLIANCE RESULTS
(See Table F)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	COMPLIES
Yes	AND	AND	AND	AND	AND	AND	AND	COMPLIES
Mandatory Measures Compliance (See Table Q for Details)								

**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.

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**  
 Space Conditioning System Information

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
MAU-1	1	Single zone	New/ Addition		<input type="checkbox"/>

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STATE OF CALIFORNIA  
**Mechanical Systems**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: Alice Birney TK-8  
 Report Page: (Page 3 of 10)  
 Date Prepared: 1/2/2024

**F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)**  
 Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(i) and 170.2(c)3a(i)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available <sup>1</sup> 140.4(i) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Cooling Output (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
MAU-1	Unitary Heat Pumps	Air-cooled, pkg (3 phase)	NA: Load Controls	175.84	96	109.22	96.58	96	179.1	113.97

<sup>1</sup> FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(i) and 170.2(c)1. Healthcare facilities are excepted.  
<sup>2</sup> It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.  
<sup>3</sup> If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.  
<sup>4</sup> Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

**Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)**

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
MAU-1	>=65,000 and <135,000		COP	3.4	3.3	EER	11	11
						IIEER	14.1	15

**G. PUMPS**  
 This section does not apply to this project.

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 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Compliance ID: EnergyPro-7509-0124-0373  
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ARCHITECT CONSULTANT:



PROJECT NAME:

**ALICE BIRNEY TK-8**

6254 13TH STREET  
 SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE:  
**TITLE 24 ENERGY COMPLIANCE**

JOB NUMBER: SHEET NUMBER:  
 DATE: JAN. 5, 2024  
 REVISION: **M801**

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Process Systems CERTIFICATE OF COMPLIANCE NRC-PRC-E Project Name: Alice Birney TK-8 Report Page: (Page 6 of 6) Project Address: 6254 13th Street Date Prepared: 1/2/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: RYAN SMITH Signature Date: 2024-01-02 Weston & Associates Mechanical Engineers, Inc. Address: 601 University Ave, Suite 260 City/State/Zip: Sacramento CA 95825

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 (responsible designer)...

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Process Systems CERTIFICATE OF COMPLIANCE NRC-PRC-E Project Name: Alice Birney TK-8 Report Page: (Page 3 of 6) Project Address: 6254 13th Street Date Prepared: 1/2/2024

I. PROCESS BOILER This section does not apply to this project.

J. COMPRESSED AIR SYSTEMS This section does not apply to this project.

K. ELEVATOR LIGHTING AND VENTILATION This section does not apply to this project.

L. ESCALATORS AND MOVING WALKWAYS SPEED CONTROLS This section does not apply to this project.

M. COMPUTER ROOM SYSTEM SUMMARY This section does not apply to this project.

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION This table contains all new and replacement hoods being installed within the scope of the permit application. Table N is used to demonstrate compliance with prescriptive requirements found in 140.9(b). Kitchen Ventilation 140.9(b)2 Requirements 01 Existing kitchen hoods not being replaced as part of an addition or alteration (do not need to meet requirements) 02 Replacement Air to Hood Compliance Method 140.9(b)1A Not providing replacement air directly to the hood(s) 03 Mechanically cooled or heated makeup air delivered to any space with a kitchen hood is designed per 140.9(b)2A to not exceed the greater of: The supply flow required to meet the space heating and cooling load 04 Location that is supplying transfer air

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Process Systems CERTIFICATE OF COMPLIANCE NRC-PRC-E Project Name: Alice Birney TK-8 Report Page: (Page 4 of 6) Project Address: 6254 13th Street Date Prepared: 1/2/2024

N. COMMERCIAL KITCHEN EXHAUST AND VENTILATION 05 The kitchen/dining facility has a total Type I and Type II kitchen hood exhaust airflow > 5000 cfm and is designed to have one of the following per 140.9(b)2B: NA: Not a kitchen/dining facility having a total Type I and Type II kitchen hood exhaust airflow rate > 5,000 cfm Kitchen Exhaust: Airflow Rate 140.9(b)1B 01 Kitchen Name or Item Tag Kitchen Compliance Method per 140.9(b)1B Type I hood design exhaust rates do not exceed the maximum allowed per 140.9(b)1, as documented below 02 03 04 05 06 07 Name or Item Tag Hood Type Hood Style Hood Length (ft) Equipment Duty Design Hood Exhaust Rate CFM Max Hood Exhaust Rate Allowed CFM 08 KH Type I Wall-mounted Canopy 14 Heavy Duty 2888 3850 FOOTNOTES: Type II hoods do not have a max hood exhaust air rate per 140.9(b)1B

O. LABORATORY AND FACTORY EXHAUST AND FUME HOODS This section does not apply to this project.

P. CONTROLLED ENVIRONMENT HORTICULTURE This section does not apply to this project.

Q. STEAM TRAPS IN INDUSTRIAL FACILITIES This section does not apply to this project.

R. Pool & SPAs This section does not apply to this project.

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Process Systems CERTIFICATE OF COMPLIANCE NRC-PRC-E Project Name: Alice Birney TK-8 Report Page: (Page 5 of 6) Project Address: 6254 13th Street Date Prepared: 1/2/2024

S. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. 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/NRCY

T. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE There are no NRCA forms required for this project.

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Mechanical Systems CERTIFICATE OF COMPLIANCE NRC-MCH-E Project Name: Alice Birney TK-8 Report Page: (Page 10 of 10) Project Address: 6254 13th Street Date Prepared: 1/2/2024

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: RYAN SMITH Signature Date: 2024-01-02 Weston & Associates Mechanical Engineers, Inc. Address: 601 University Ave, Suite 260 City/State/Zip: Sacramento CA 95825

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 (responsible designer)...

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Process Systems CERTIFICATE OF COMPLIANCE NRC-PRC-E Project Name: Alice Birney TK-8 Report Page: (Page 1 of 6) Project Address: 6254 13th Street Date Prepared: 1/2/2024

A. GENERAL INFORMATION Table with columns: 01 Project Location (City), 02 Climate Zone, 03 Occupancy Types Within Project, 04 Total Conditioned Floor Area, 05 Total Unconditioned Floor Area, 06 # of Stories (Habitable Above Grade)

B. PROJECT SCOPE This table includes process systems that are within the scope of the permit application and are demonstrating compliance with mandatory requirements in 120.6 / 160.7 or prescriptive requirements in 140.9. My project consists of: (check all that apply) 01 Refrigerated Spaces < 3,000 R² Total (No Title 24, PHD requirements) 02 Escalator & Moving Walkway Speed Controls (mandatory 120.6(d)) 03 Refrigerated Spaces >= 3,000 R² Total (mandatory 120.6(a)) 04 Computer Rooms (mandatory 120.6(i)) and prescriptive 140.9(a)(1) 05 Food / Beverage Stores >= 8,000 R² cfm (mandatory 120.6(b)) 06 Commercial Kitchen Ventilation/Exhaust (prescriptive 140.9(b)(1)) 07 Enclosed Parking Garage Exhaust >= 10,000 cfm (mandatory 120.6(c)) 08 Laboratory Exhaust/Factory Exhaust & Fume Hood (prescriptive 140.9(c)(1)) 09 Newly Installed Process Boilers (mandatory 120.6(d)) 10 Pool/Spa (mandatory 110.4 / 160.7) 11 Compressed Air Systems Combined HP >= 25 (mandatory 120.6(e)) 12 Controlled Environment Horticulture (mandatory 120.6(h)) 13 Elevator Lighting & Ventilation Controls (mandatory 120.6(f) / 160.7) 14 New Steam Traps (mandatory 120.6(i))

FOOTNOTES: These building features can comply using the performance method. If using the performance method for these features, compliance should be demonstrated on the NRC-PRC-E.

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Process Systems CERTIFICATE OF COMPLIANCE NRC-PRC-E Project Name: Alice Birney TK-8 Report Page: (Page 2 of 6) Project Address: 6254 13th Street Date Prepared: 1/2/2024

C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through R. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below. Table with columns 01-14 and rows Refrigerate Warehouse / Space, Commercial Refrigerate, Parking Garage Exhaust, Process Boilers, Compressed Air Systems, Elevators, Escalators & Moving Walkways, Computer Rooms, Commercial Kitchens, Laboratory/Factory Exhaust, Controlled Environment Horticulture, Steam Traps, Multifamily Pool/Spa, Compliance Results

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.

F. REFRIGERATED WAREHOUSES/SPACES This section does not apply to this project.

G. COMMERCIAL REFRIGERATION This section does not apply to this project.

H. ENCLOSED PARKING GARAGE EXHAUST This section does not apply to this project.

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ARCHITECT CONSULTANT:



601 UNIVERSITY AVE, SUITE 260 | SACRAMENTO, CA 95825 WESTON & ASSOCIATES #23-075



PROJECT NAME: ALICE BIRNEY TK-8

6254 13TH STREET SACRAMENTO, CA 95831

CAMPUS RENEWAL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN SHEET TITLE: TITLE 24 ENERGY COMPLIANCE JOB NUMBER: SHEET NUMBER: M802 DATE: JAN. 5, 2024 REVISION:

### APPLICABLE CODES

ALL WORK PERFORMED UNDER THIS CONTRACT IS TO CONFIRM TO THE FOLLOWING CODES AND REGULATIONS:

- CALIFORNIA CODE OF REGULATIONS - TITLE 24
- CALIFORNIA BUILDING CODE, 2022
- CALIFORNIA MECHANICAL CODE, 2022
- CALIFORNIA PLUMBING CODE, 2022
- CALIFORNIA FIRE CODE, 2022
- CALIFORNIA ELECTRICAL CODE, 2022
- CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS, 2022

THE ABOVE CODES AND REGULATIONS REFER TO THE LATEST EDITION OR REVISION IF FORCE ON THE DATE OF THE CONTRACT, UNLESS OTHERWISE STATED. NOTHING ON THE DRAWINGS IS TO BE CONSTRUED AS REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE LISTED CODES AND REGULATIONS, OR OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS WHICH MAY BE APPLICABLE.

### EQUIPMENT LIST

QTY	DESCRIPTION
1	GREASE INTERCEPTOR: "JENSEN PRECAST" GRAVITY GREASE INTERCEPTOR MODEL MU-1000, 1000 GALLON BURIED GRAVITY GREASE INTERCEPTOR, CONCRETE, 114" x 66" x 70" DEEP, 4" NO. HUB INLET & OUTLET, PROVIDE UNIT WITH LID EXTENSION AS REQUIRED FOR REQUIRED BURIED DEPTH, (2) TANK ACCESS PORTS MIN 24" Ø, INSTALL PER MANUFACTURER'S INSTRUCTIONS WITH MINIMUM EXCAVATION SIZE 12'-0" x 8'-0" FOOTPRINT AREA REQUIRED.

### ANCHORAGE / BRACING NOTES

ALL PIPING 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 2022 CBC, SECTION 1617A.1.16 THROUGH 1617A.1.25 AND ASCE 7-16, CHAPTERS 13, 26 AND 30:

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 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 INCLUDE ALL ELECTRICAL CONNECTION EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
- 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 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 AND PIPING. FLEXIBLE CONNECTION MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- 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 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 THE ABOVE REQUIREMENTS.

**PIPING AND DUCTWORK SYSTEM BRACING NOTE:**  
PIPING AND DUCTWORK SHALL BE BRACED TO COMPLY THE FORCE AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENT 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. HCAI 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.

PIPING SUPPORTS SHALL BE AS DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTED AND DETAILS.

NOTE: PLUMBING PIPING AS SHOWN ON THESE DRAWINGS MEET THE CRITERIA FOR NOT REQUIRING SEISMIC BRACING TO STRUCTURE.

### PLUMBING GENERAL NOTES

- MECHANICAL AND PLUMBING DETAILS APPLY TO ALL BUILDINGS WHETHER REFERENCED OR NOT.
- PROVIDE FIRE STOPPING ASSEMBLY PROTECTION FOR PIPE PENETRATIONS OF RATED ASSEMBLIES. FIRE STOP RATING SHALL MATCH RATED ASSEMBLY BEING PENETRATED.
- PLUMBING AND FIRE SPRINKLER PIPING SHALL OFFSET OVER OR UNDER DUCTS. COORDINATE WITH HEATING CONTRACTOR.
- PIPING SHALL NOT PENETRATE INTO, OVER, OR THROUGH IT CLOSETS OR ELECTRICAL ROOMS UNLESS IT SERVES THAT SPECIFIC ROOM.
- DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO SHOW EVERY OFFSET, FITTING, OR STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF WORK. THE CONTRACTORS SHALL COORDINATE LOCATION OF ALL PLUMBING PIPING WITH ALL OTHER TRADES ON THIS PROJECT. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
- ALL VALVES SHALL BE FULL LINE SIZES UNLESS NOTED OTHERWISE.
- PROVIDE WALL CLEANOUT AT ALL SINKS, LAVATORIES, AND URINALS.
- PIPING SHALL BE SUPPORTED IN ACCORDANCE TO SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL AND PLUMBING PIPING SYSTEMS".
- ALL NEW SANITARY WASTE PIPING SHALL HAVE A MINIMUM BURRY DEPTH OF 18" AND BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. PIPING SHALL BE UNIFORMLY SLOPPED BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE.
- ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, EQUIPMENT, HOPPER DRAINS, AND INDIRECT DRAINS IN WALLS.
- HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO "M" SHEETS FOR ADDITIONAL INFORMATION.
- PROVIDE WATER HAMMER ARRESTORS (WHA) AT ALL FIXTURES AS INDICATED IN THE SPECIFICATIONS/NOTES. WHERE WHA SERVES BACK TO BACK BOYS / GIRLS RESTROOMS, LOCATE WHA ACCESS DOOR IN BOYS RESTROOM. WHA SHALL BE SIZED AND PER THE PLUMBING & DRAINAGE INSTITUTE (PDI).
- REFERENCE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, EXACT LOCATIONS OF PLUMBING FIXTURES, AND PLUMBING FIXTURE MOUNTING HEIGHTS.
- CONCEAL ALL PIPING IN WALL FURRINGS, PARTITIONS, ABOVE CEILINGS, EXCEPT IN MECHANICAL ROOMS OR WHERE NOTED OTHERWISE.

### PLUMBING LEGEND

ABBREVIATIONS					
ABC	ABOVE CEILING	FT	FEET	PRV	PRESSURE REDUCING VALVE
AD	ACCESS DOOR	FU	FIXTURE UNITS	PS	PRESSURE SWITCH
AFF	ABOVE FINISHED FLOOR	G	NATURAL GAS	PSI	POUNDS PER SQUARE INCH
AFG	ABOVE FINISHED GRADE	GCO	GRADE CLEAN OUT	PSIG	POUNDS PER SQUARE INCH GAUGE
AP	ACCESS PANEL	GD	GARBAGE DISPOSER	PT	PLUGGED TEE
AQ	AQUASTAT	GLV	GLOBE VALVE	R	RISE / RISER
ARCH	ARCHITECT	GM	GAS METER	RD	ROOF DRAIN
AV	ACID VENT	GPH	GALLONS PER HOUR	RET	RETURN
AVTR	ACID VENT THRU ROOF	GPM	GALLONS PER MINUTE	RIO	ROUGH IN ONLY
AW	ACID WASTE	GPR	GAS PRESSURE REGULATOR	RM	ROOM
BFF	BELOW FINISHED FLOOR	GSCK	GAS COCK	RO	REVERSE OSMOSIS WATER
BFP	BACKFLOW PREVENTER	GSV	GAS SEISMIC VALVE	RV	RELIEF VALVE
BFV	BUTTERFLY VALVE	GV	GATE VALVE	RWL	RAINWATER LEADER
BG	BELOW GRADE	GW	GREASE WASTE PIPING	SCD	SECONDARY CONDENSATE DRAIN
BLV	BALL VALVE	HB	HOSE BIBB	SCH	SCHEDULE
CA	COMPRESSED AIR	HD	HOPPER DRAIN	SCW	COLD SOFT WATER
CAP	CAPACITY	HPS	HIGH PRESSURE NATURAL GAS	SD	STORM DRAIN
CB	CATCH BASIN	HW	DOMESTIC HOT WATER	SH	SHOWER
CBV	CALIBRATED BALANCE VALVE	HWR	DOMESTIC HOT WATER RETURN	SHT	SHEET
CD	CONDENSATE DRAIN	ICW	INDUSTRIAL COLD WATER	SHW	HOT SOFT WATER
CFH	CUBIC FEET PER HOUR	IHW	INDUSTRIAL HOT WATER	SHWR	HOT SOFT WATER RETURN
CI	CAST IRON	IHRW	INDUSTRIAL HOT WATER RETURN	SK	SINK
CKV	CHECK VALVE	ID	INSIDE DIAMETER	SMS	SHEET METAL SCREW
CL	CENTER LINE	IE	INVERT ELEVATION	SOV	SHUT OFF VALVE
CLG	CEILING	IW	INDIRECT WASTE	SS	STAINLESS STEEL
CMP	CORRUGATED METAL PIPE	LA	LABORATORY AIR	STD	STANDARD
CO	CLEANOUT	LAV	LAVATORY	STR	STRAINER
CO2	CARBON DIOXIDE	LBS	POUNDS	TB	TO ABOVE
COP	CAP ON END OF PIPE	LG	LABORATORY GAS	TA	TO BELOW
COTF	CLEANOUT TO FLOOR	LP	LOW PRESSURE	TEMP.	TEMPERATURE
COTG	CLEANOUT TO GRADE	LWT	LEAVING WATER TEMPERATURE	TH	THERMOMETER
CP	CIRCULATING PUMP	MA	MEDICAL AIR	TMV	THERMOSTATIC MIXING VALVE
CR	CONCENTRIC REDUCER	MAX	MAXIMUM	TP	TRAP PRIMER
CSK	CLINIC SINK	MFR	MANUFACTURER	TYP	TYPICAL
CV	CONTROL VALVE	MGC	MEDICAL GAS COLUMN	TW	TEMPERED WATER
CW	DOMESTIC COLD WATER	MIN	MINIMUM	UC	UNDER COUNTER
D	DROP	MISC	MISCELLANEOUS	UF	UNDER FLOOR
DCW	DOMESTIC COLD WATER	MPG	MEDIUM PRESSURE NATURAL GAS	UG	UNDERGROUND
DD	DECK DRAIN	(N)	NEW	UN	UNION OR FLANGE
DET	DETAIL	N2	NITROGEN	UNO	UNLESS NOTED OTHERWISE
DF	DRINKING FOUNTAIN	NZ	NITROUS OXIDE	UR	URINAL
DHW	DOMESTIC HOT WATER	NC	NORMALLY CLOSED	V	SANITARY VENT
DHWR	DOMESTIC HOT WATER RETURN	NIC	NOT IN CONTRACT	VB	VALVE BOX
DI	DEIONIZED WATER	NO	NORMALLY OPEN	VAC	MEDICAL VACUUM
DN	DOWN	NTS	NOT TO SCALE	VR	VENT RISER
DWG	DRAWING	OZ	OXYGEN	VTR	VENT THRU ROOF
(E)	EXISTING	OC	ON CENTER	W	SANITARY WASTE
EW	ELECTRIC WATER HEATER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WD	WASTE DROP
EWT	ENTERING WATER TEMPERATURE	ORD	OVERFLOW ROOF DRAIN	W	WITH
FA	FROM ABOVE	ORF	OVERFLOW RAIN WATER LEADER	W/O	WITHOUT
FB	FROM BELOW	ORWL	OVERFLOW RAIN WATER LEADER	WAGD	WASTE ANESTHESIA GAS DISPOSAL
FC	FLEXIBLE CONNECTION	OH	OVERHEAD	WC	WATER CLOSET
FCO	FLOOR CLEAN OUT	P&TRV	PRESSURE & TEMPERATURE RELIEF VALVE PIPING	WCO	WALL CLEAN OUT
FD	FLOOR DRAIN	PIL	PROPERTY LINE	WD	WASTE DROP
FHC	FIRE HOSE RACK & CABINET	PAN	PIPE ANCHOR	WH	WALL HYDRANT
FLR	FLOOR	PG	PRESSURE GAUGE	WHA	WATER HAMMER ARRESTER
FPM	FEET PER MINUTE	PL	PLATE	WM	WATER METER
FSH	FIRE SPRINKLER HEAD	PLBG	PLUMBING	WSP	WET STANDPIPE
FS	FLOOR SINK	POC	POINT OF CONNECTION		
FSP	FIRE SPRINKLER PIPE	POD	POINT OF DISCONNECT		

SYMBOLS			
	DOMESTIC COLD WATER LINE		ITEM TO BE REMOVED / DEMOTED
	DOMESTIC HOT WATER LINE		BALL VALVE
	DOMESTIC HOT WATER RETURN LINE		GATE VALVE
	SOIL OR WASTE LINE BELOW GRADE		BALANCE VALVE
	SOIL OR WASTE LINE ABOVE GRADE		BUTTERFLY VALVE
	GREASE WASTE LINE		CHECK VALVE
	ACID WASTE LINE		LEVER HANDLE GAS COCK
	VENT LINE		UNION
	GREASE VENT LINE		VALVE BOX
	RAINWATER LEADER LINE		CAP (END OF PIPE)
	OVERFLOW RAINWATER LEADER LINE		CIRCULATING PUMP
	CONDENSATE DRAIN		DIAMETER
	DECK DRAIN LINE (TO STORM DRAIN)		CLEANOUT TO FLOOR
	NATURAL GAS LINE (LOW PRESSURE)		CLEANOUT TO GRADE
	MEDIUM PRESSURE NATURAL GAS LINE		CLEANOUT
	FLOW IN DIRECTION OF ARROW		FLOOR DRAIN
	REDUCER		FLOOR SINK
	RISER (OVER/UNDER)		HOSE BIBB
	R, D RISE OR DROP		POINT OF CONNECTION
			POINT OF DISCONNECTION
			ROOM NAME AND NUMBER

### PLUMBING FIXTURE SCHEDULE

FIXTURE	GENERAL DISCRIPTION	BASE FIXTURE	TRIM	WHA REQUIRED AT FIXTURE	NOTES	FIXTURE UNITS						PLUMBING PIPE BRANCH SIZE SERVING FIXTURE							
						WASTE		VENT		COLD WATER		HOT WATER		WASTE		COLD WATER		HOT WATER	
						WASTE	VENT	CW	HW	VENT	BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET	
S-1	KITCHEN SINK (BY OTHERS) - REFERENCE FOOD SERVICE DRAWINGS FOR DETAILS	SEE FOOD SERVICE DRAWINGS FOR DETAILS. SCHEDULE SHOWS PLUMBING UTILITY REQUIREMENTS  (NOTE - SOME FIXTURES REQUIRE MULTIPLE FAUCETS).	AT KITCHEN HANDWASH SINK, PROVIDE WITH POWERS MODEL LFG480-01 LEAD FREE THERMOSTATIC MIXING VALVE. MOUNT UNDER LAVATORY SET OUTLET TEMPERATURE TO 120°F.  REFERENCE FOOD SERVICE DWGS FOR ADDITIONAL REQUIREMENTS.	YES, PROVIDE ON BOTH H&CW	MOUNT AT HEIGHT AS INDICATED ON ARCHITECTURAL DRAWINGS.  INSULATE EXPOSED WASTE AND WATER PER NOTE 4 BELOW AT WALL HUNG HANDWASH FIXTURE.	2.0	2.0	1.5	1.5	1 1/2"	2" FOR DIRECT CONNECTIONS	SEE FOOD SERVICE DWGS	SEE FOOD SERVICE DWGS	SEE FOOD SERVICE DWGS	SEE FOOD SERVICE DWGS				
MS-1	MOP SINK   FLOOR MOUNT   H&CW WATER	KOHLER WHITEY - MODEL K6710. FIXTURE TO BE AS FOLLOWS: • CAST IRON • 28" LONG BY 28" WIDE • PROVIDE WITH MODEL K-8940 SINK RIM GUARD • PROVIDE WITH MODEL K-9146-CP STRAINER	CHICAGO FAUCET MODEL 897-CP FAUCET TO BE AS FOLLOWS: • HW & CW - 2-3/8" LEVER HANDLES W/ CERAMIC 1/4 TURN OPERATING CARTRIDGES • CHROME PLATED FINISH • INTEGRAL VACUUM BREAKER • PAIL HOOK AND WALL BRACE	YES, PROVIDE ON BOTH H&CW	PROVIDE FAUCET WITH 5'-0" LONG HOSE WITH WALL MOUNTED HOSE CLAMP - FLORESTONE MODEL MR-370  MOUNT FAUCET AT 36" AFF.	2.0	3.0	2.25	2.25	1 1/2"	2" OR 3" BRANCH LINE TO FLOOR SINK SERVING THIS FIXTURE (AS NOTED ON PLANS)				3/4"	1/2"	3/4"	1/2"	

- NOTES:**
- USE PIPE SIZE TABLE FOR SIZING ALL BRANCH WATER, WASTE, & VENT BRANCH PIPES.
  - REFERENCE ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHT.
  - WATER BRANCH LINES WHERE LESS THAN 10'-0" LONG MAY BE SAME SIZE AS OUTLETS SCHEDULED ABOVE.
  - AT ALL ADA SINKS AND LAVATORIES, INSULATE HOT WATER, COLD WATER, AND WASTE PIPING BELOW FIXTURE WITH "TRUEBRO" LAV GUARD PROTECTIVE MOLDED CLOSED CELL VINYL PIPE COVERS, WITH VANDAL RESISTANT SNAP-CLIP FASTENERS, AND AN ASTM E-84 SMOKE TEST RATING OF 0. NOTE - COVERS NOT REQUIRED IF ARCHITECTURAL COVER IS PROVIDED.
  - PROVIDE WATER HAMMER ARRESTOR FOR ON BOTH H&CW BRANCH LINES AT ALL FIXTURES PER SPECIFICATION SECTION 22 05 23
  - WHERE KITCHEN SINK SPILLS TO FLOOR SINKS, INDIRECT WASTE TO BE DWV COPPER WITH UNIONS. SLIP JOINTS SHALL NOT BE PROVIDED.
  - WHERE FIXTURES ARE NOTED AS BEING "ADA", INSTALLATION TO MEET ADA REQUIREMENTS AND CBC REQUIREMENTS.



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SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE:  
**PLUMBING LEGEND, SCHEDULES, AND NOTES**

JOB NUMBER:	SHEET NUMBER:
DATE: JAN. 5, 2024	
REVISION: ADD#3 03/05/24	<b>P001</b>



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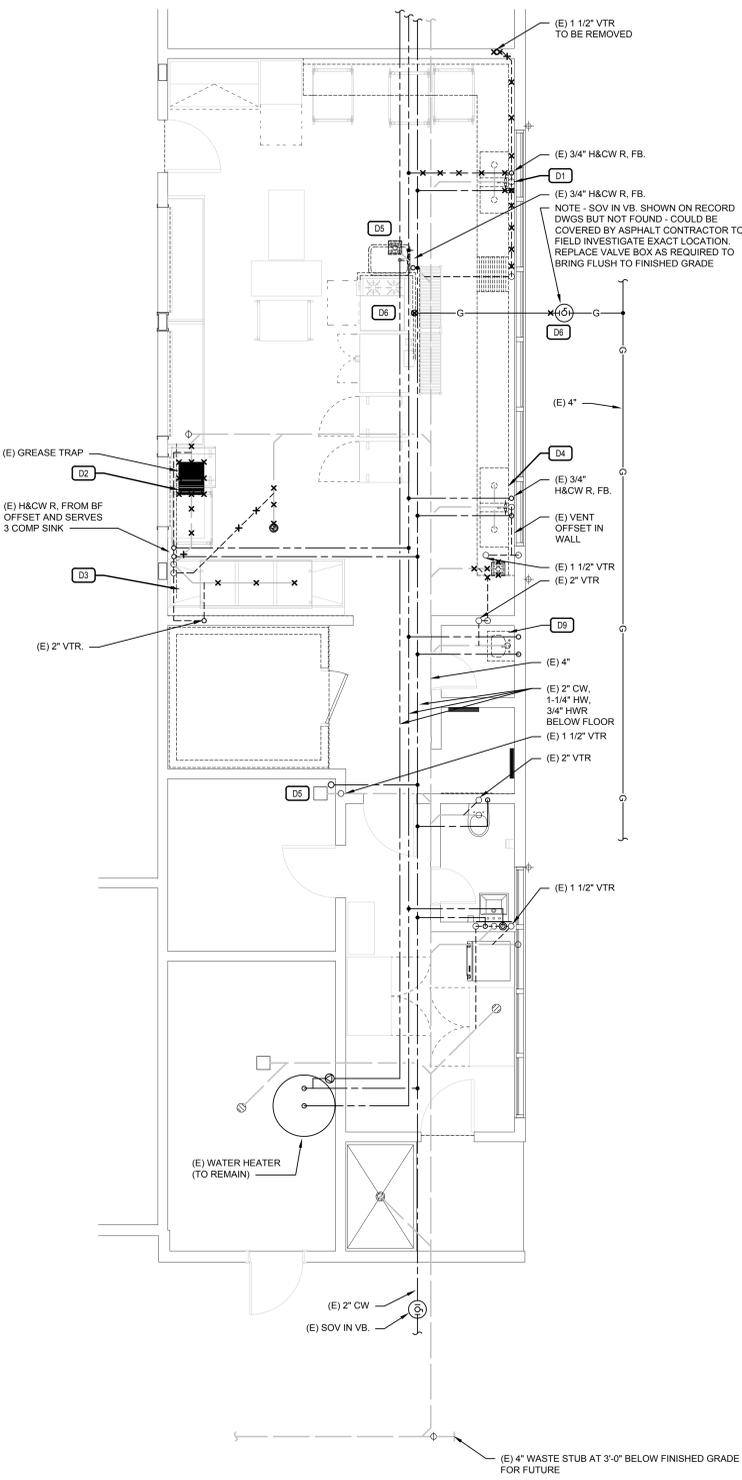
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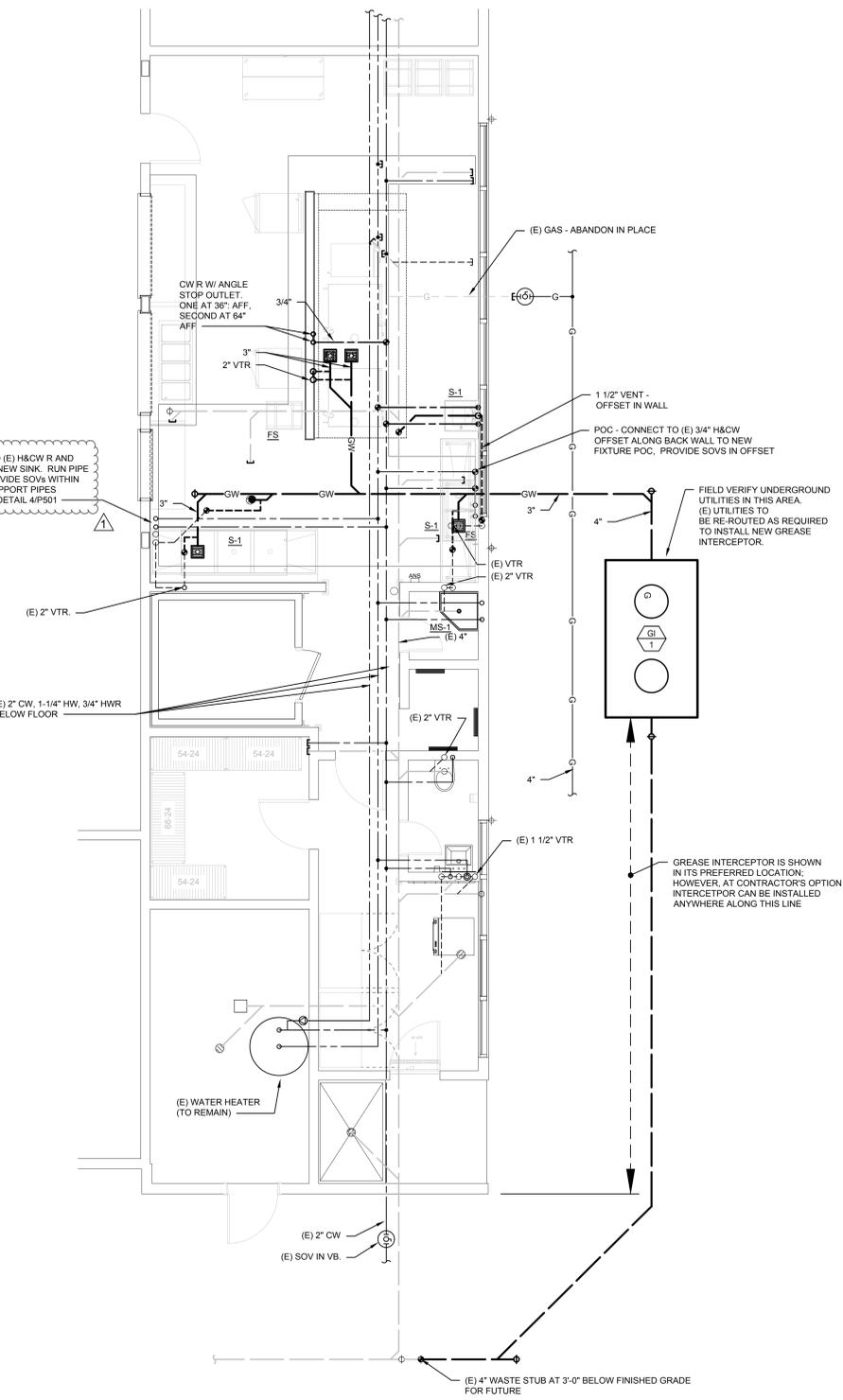
SHEET TITLE:  
**PLUMBING ENLARGED KITCHEN PLANS**

JOB NUMBER: SHEET NUMBER:  
 DATE: JAN. 5, 2024  
 REVISION: ADD#3 03/05/24  
**P141**



**PLUMBING - KITCHEN PLAN - DEMO**  
 SCALE: 1/4"=1'-0"  
 1 P141

SHEET NOTES - DEMO	
D1	(E) FIXTURE TO BE REMOVED. CUT/CAP (E) WASTE/VENT BEHIND ARCHITECTURE SURFACE. CUT/CAP (E) H&CW BELOW GRADE. CAP (E) HW BRANCH LINE WITHIN 1" OF BRANCH LINE AND CAP (E) H&CW BRANCH LINES MAY BE ABANDONED UNDER SLAP OR REMOVED. IF ABANDONED, DRAIN AND DRY PIPES BEFORE COVERING.
D2	REMOVE (E) GREASE TRAP AND ASSOCIATED PIPING.
D3	(E) 3 COMPARTMENT SINK TO BE REMOVED/REPLACED. TEMPORARY CAP (E) H&CW RISER WITHIN 6" OF FLOOR (THESE WILL BE RE-UTILIZED TO SERVE NEW FIXTURE). CAP (E) WASTE BELOW FLOOR AND ABANDON IN PLACE.
D4	(E) 2 COMPARTMENT SINK TO BE REMOVED/REPLACED (IN A NEW LOCATION). TEMPORARY CAP (E) H&CW RISER WITHIN 6" OF FLOOR AND PREP TO RELOCATE TO NEW SINK (THESE WILL BE RE-UTILIZED TO SERVE NEW FIXTURE). CAP (E) WASTE BELOW FLOOR AND ABANDON IN PLACE. NOTE: NEW SINK TO BE CONNECTED TO GREASE WASTE.
D5	REMOVE (E) FLOOR SINK AND CW RISER. CAP (E) WASTE/CW BEHIND FINISHED SURFACES. REMOVE VENT AND VTR.
D6	REMOVE (E) GAS PIPING. CAP LINE AT (E) SOV & CLOSE VALVE. REMOVE ALL GAS PIPING WITHIN KITCHEN AND CAP BFF. EVACUATE (E) UNDERGROUND PIPE AND ABANDON IN PLACE.
D7	REMOVE (E) SINK AND PLUMBING UTILITIES. CAP (E) WASTE BELOW FINISHED FLOOR. CAP (E) H&CW RISERS BELOW FINISHED FLOOR. CAP (E) HW RISER WITHIN 1" OF BRACH LINE.
D8	(E) FLOOR SINK TO BE REMOVED/REPLACED. REMOVE (E) WASTE/VENT AS INDICATED AND PREP FOR NEW.
D9	REMOVE (E) SERVICE SINK. PREP (E) WASTE, VENT, H&CW FOR CONNECTION TO NEW MOP SINK.
GENERAL NOTES: 1. FIELD VERIFY EXACT PIPE ROUTING AND ADJUST ACCORDINGLY. 2. WHERE CAPPED, HW PIPE TO BE CAPPED WITHIN 1" OF BRANCH. 3. WHERE ABANDONED, DRAIN PIPES BEFORE ABANDONING.	



**PLUMBING - KITCHEN PLAN - REMODEL**  
 SCALE: 1/4"=1'-0"  
 2 P141



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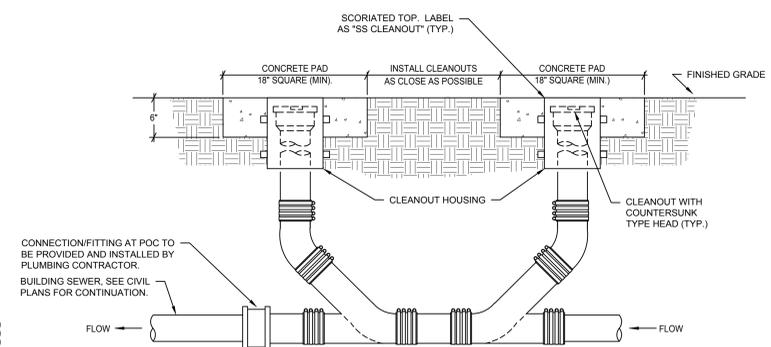
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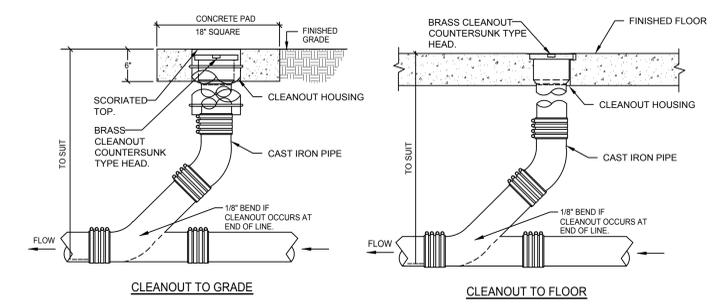


SHEET TITLE:  
**PLUMBING DETAILS**

JOB NUMBER:	SHEET NUMBER:
DATE: JAN. 5, 2024	<b>P501</b>
REVISION: ADD#3 03/05/24	

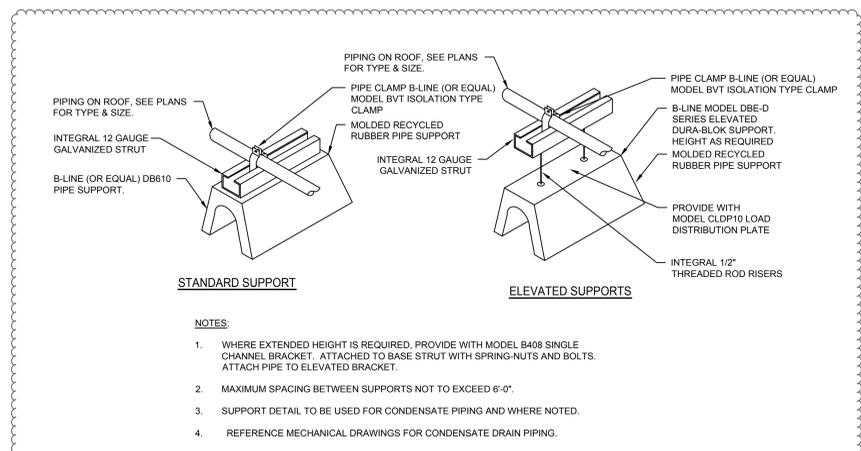


- NOTES:
1. PROVIDE TWO WAY CLEANOUT AT ALL SANITARY SEWER AND STORM DRAIN POINTS OF CONNECTION WITH SITE PIPING SYSTEM.
  2. PROVIDE ALL FITTINGS AND TRANSITIONS AS REQUIRED.
- 2-WAY CLEANOUT / DOUBLE CLEANOUT**  
 (TO BE PROVIDED AT ALL CONNECTIONS TO SITE PIPING)



**CLEANOUT DETAILS**  
 NTS

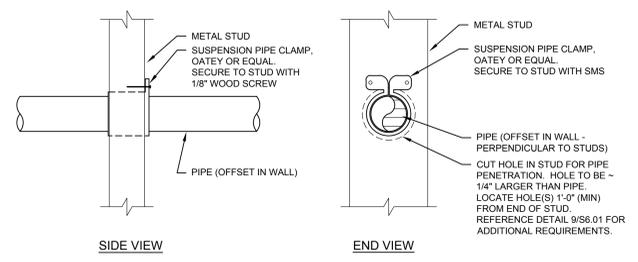
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 P501



- NOTES:
1. WHERE EXTENDED HEIGHT IS REQUIRED, PROVIDE WITH MODEL B408 SINGLE CHANNEL BRACKET. ATTACHED TO BASE STRUT WITH SPRING-NUTS AND BOLTS. ATTACH PIPE TO ELEVATED BRACKET.
  2. MAXIMUM SPACING BETWEEN SUPPORTS NOT TO EXCEED 6'-0".
  3. SUPPORT DETAIL TO BE USED FOR CONDENSATE PIPING AND WHERE NOTED.
  4. REFERENCE MECHANICAL DRAWINGS FOR CONDENSATE DRAIN PIPING.

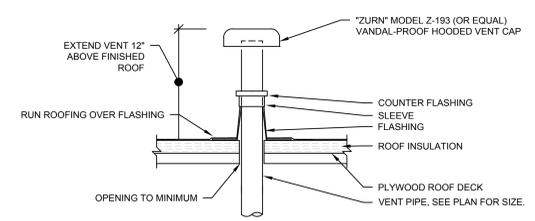
**PIPE SUPPORT ON ROOF**  
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 P501



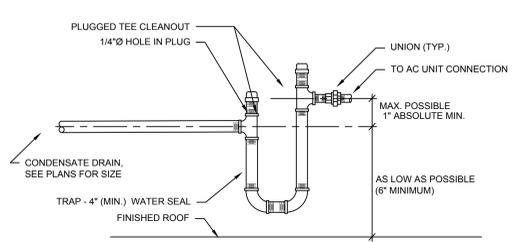
**PIPE - IN WALL - SUPPORT DETAILS**  
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 P501



**TYPICAL VENT PIPE THRU ROOF**  
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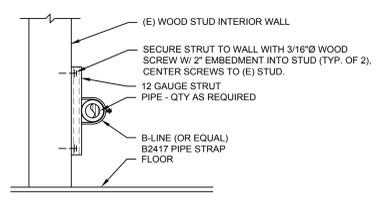
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- NOTES:
1. CD AT ROOFTOP HEAT PUMP UNITS TO BE SCHEDULE 40 GALVANIZED PIPE.
  2. CD AT INTERIOR AREAS TO BE COPPER - TRAPS TO BE SIMILAR AS DETAILED.
  3. REFERENCE MECHANICAL DRAWINGS FOR CONDENSATE DRAIN PIPING.
  4. FIRST SUPPORT TO BE WITHIN 12" OF TRAP.

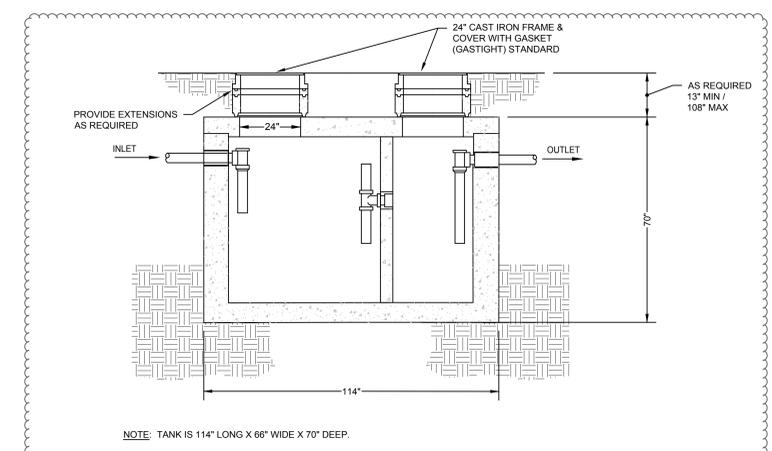
**CONDENSATE TRAP DETAIL**  
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 P501



**PIPE SUPPORT @ WALL DETAIL**  
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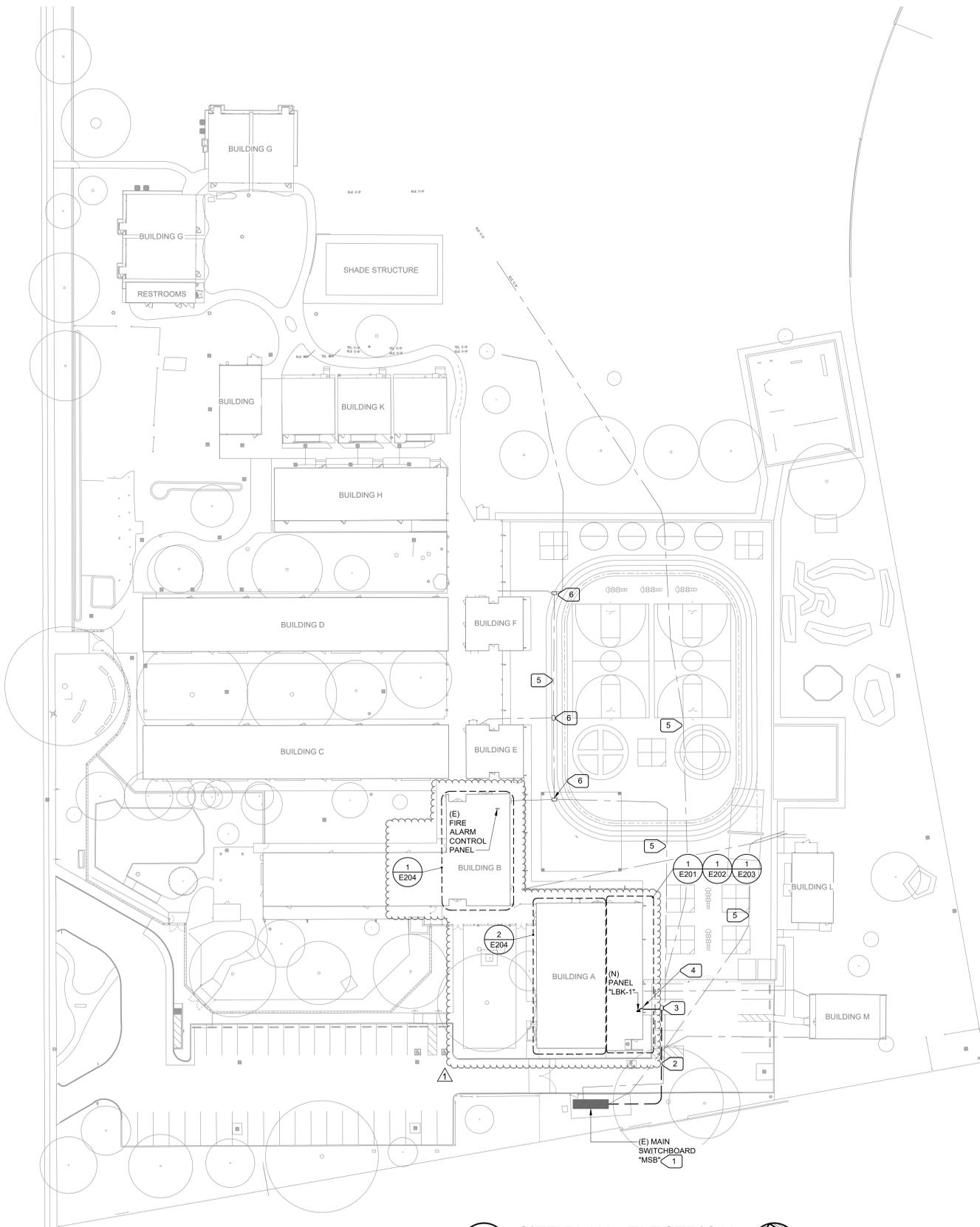
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 P501



**GREASE INTERCEPTOR DETAIL**  
 NTS

1  
 P501





1 SITE PLAN - ELECTRICAL  
 E100 SCALE: 1" = 30'-0"

**NUMBERED NOTES:**

- 1 REMOVE UNUSED FUSED DISCONNECT AND PROVIDE (N) 800/3 CIRCUIT BREAKER IN THAT SPACE.
- 2 RUN (2) (N) SETS OF 3-1/2" C-4 600MCM, 1 1/0G. COORDINATE EXACT ROUTE IN FIELD. ELECTRICAL CONTRACTOR SHALL USA AND GPR AREA OF (N) CONDUIT ROUTE - THERE IS A NUMBER OF EXISTING CONDUITS IN THIS AREA.
- 3 (N) CONDUITS SHOULD ENTER (E) PULLBOX.
- 4 RUN (N) CONDUITS UP WALL TO (E) PULLBOX ON WALL. FROM THAT PULLBOX RUN CONDUITS THROUGH WALL TO (N) PANEL "LBK-1". PAINT (N) CONDUITS TO MATCH SURFACE TO WHICH THEY ARE ATTACHED.
- 5 (E) ELECTRICAL U.G. CONDUITS. PROTECT DURING EXCAVATION FOR LIME TREATMENT - SEE CIVIL PLAN C3.1. IF (E) CONDUITS ARE DAMAGED DURING WORK CONTRACTOR SHALL REPLACE DAMAGED WITH (N) - MATCH (E). SEE CIVIL SHEET C3.1 - SHALLOW DRY UTILITY NOTE FOR PROTECTION OF (E) CONDUITS IF WITHIN 18" OF FINISHED SURFACE.
- 6 PROTECT (E) ELECTRICAL PULLBOX. ADJUST TO BE FLUSH WITH NEW SURFACE.

**UNDERGROUND DIGGING CAUTION**

USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED UTILITY CABLES, CONDUITS, AND PIPING. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.);

**811 or 1-800-642-2444**

TWO WORKING DAYS BEFORE DIGGING TO VERIFY UNDERGROUND UTILITIES.

**GROUND PENETRATION RADAR (GPR)**

AREA CONTAINS EXISTING POWER AND SINGLE CONDUITS/CONDUCTORS AND THE LOCATIONS ARE UNKNOWN. THE CONTRACTOR SHALL USE GROUND PENETRATING RADAR (GPR) TO IDENTIFY UNDERGROUND INFRASTRUCTURE (CONDUITS AND PIPES) AND HAND DIG AROUND EXISTING UNDERGROUND INFRASTRUCTURE (CONDUITS AND PIPES).



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 PRO ECT : 2332.21  
 PRO ECT MGR: SINISHA GLISIC

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 6254 13TH STREET  
 SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

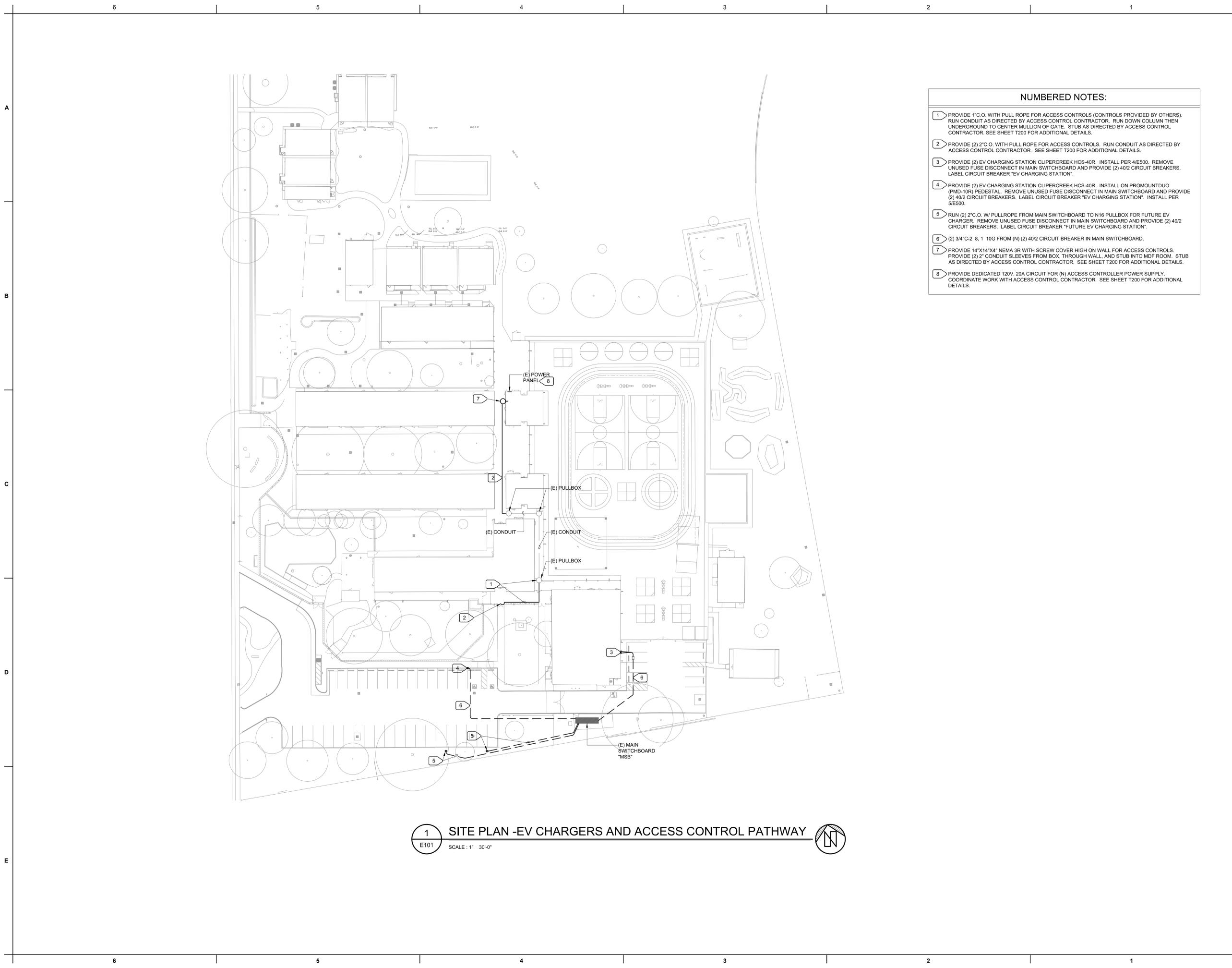
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:

SHHEET TITLE:  
**OVERALL SITE PLAN**

OB NUMBER: 23332.21	SHHEET NUMBER:
DATE: DEC 22, 2023	<b>E100</b>
REVISION: ADD#3 03/05/24	



- NUMBERED NOTES:**
- 1 PROVIDE 1" C.O. WITH PULL ROPE FOR ACCESS CONTROLS (CONTROLS PROVIDED BY OTHERS). RUN CONDUIT AS DIRECTED BY ACCESS CONTROL CONTRACTOR. RUN DOWN COLUMN THEN UNDERGROUND TO CENTER MULLION OF GATE. STUB AS DIRECTED BY ACCESS CONTROL CONTRACTOR. SEE SHEET T200 FOR ADDITIONAL DETAILS.
  - 2 PROVIDE (2) 2" C.O. WITH PULL ROPE FOR ACCESS CONTROLS. RUN CONDUIT AS DIRECTED BY ACCESS CONTROL CONTRACTOR. SEE SHEET T200 FOR ADDITIONAL DETAILS.
  - 3 PROVIDE (2) EV CHARGING STATION CLIPERCREEK HCS-40R. INSTALL PER 4/E500. REMOVE UNUSED FUSE DISCONNECT IN MAIN SWITCHBOARD AND PROVIDE (2) 40/2 CIRCUIT BREAKERS. LABEL CIRCUIT BREAKER "EV CHARGING STATION".
  - 4 PROVIDE (2) EV CHARGING STATION CLIPERCREEK HCS-40R. INSTALL ON PROMOUNTDUO (PMD-10R) PEDESTAL. REMOVE UNUSED FUSE DISCONNECT IN MAIN SWITCHBOARD AND PROVIDE (2) 40/2 CIRCUIT BREAKERS. LABEL CIRCUIT BREAKER "EV CHARGING STATION". INSTALL PER 5/E500.
  - 5 RUN (2) 2" C.O. W/ PULLROPE FROM MAIN SWITCHBOARD TO N16 PULLBOX FOR FUTURE EV CHARGER. REMOVE UNUSED FUSE DISCONNECT IN MAIN SWITCHBOARD AND PROVIDE (2) 40/2 CIRCUIT BREAKERS. LABEL CIRCUIT BREAKER "FUTURE EV CHARGING STATION".
  - 6 (2) 3/4" C-2 8, 1 10G FROM (N) (2) 40/2 CIRCUIT BREAKER IN MAIN SWITCHBOARD.
  - 7 PROVIDE 14"X14"X4" NEMA 3R WITH SCREW COVER HIGH ON WALL FOR ACCESS CONTROLS. PROVIDE (2) 2" CONDUIT SLEEVES FROM BOX, THROUGH WALL, AND STUB INTO MDF ROOM. STUB AS DIRECTED BY ACCESS CONTROL CONTRACTOR. SEE SHEET T200 FOR ADDITIONAL DETAILS.
  - 8 PROVIDE DEDICATED 120V, 20A CIRCUIT FOR (N) ACCESS CONTROLLER POWER SUPPLY. COORDINATE WORK WITH ACCESS CONTROL CONTRACTOR. SEE SHEET T200 FOR ADDITIONAL DETAILS.

**1 SITE PLAN -EV CHARGERS AND ACCESS CONTROL PATHWAY**  
 E101 SCALE: 1" = 30'-0"

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 PROJECT: 2332.21  
 PROJECT MGR: SINISHA GLISIC

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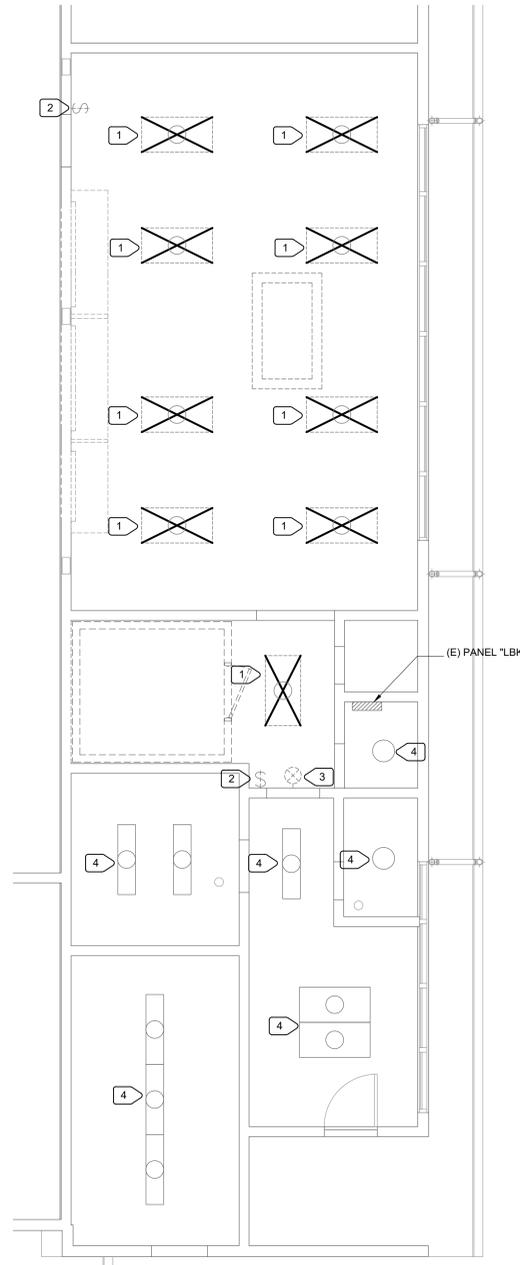
**CAMPUS RENEWAL**

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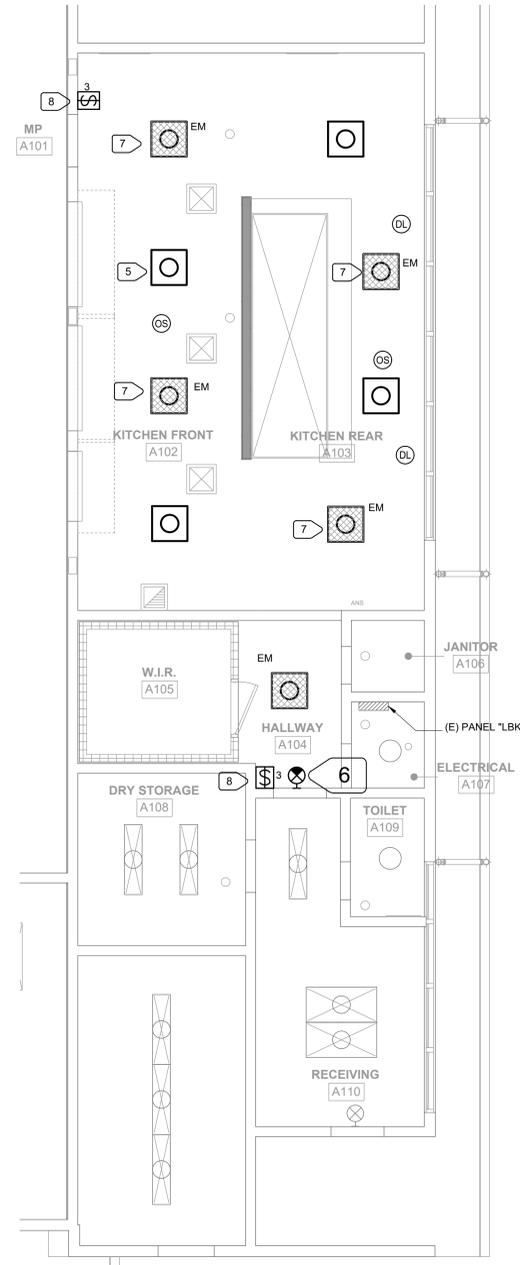
SACRAMENTO COUNTY

KEY PLAN:  
  
 SHEET TITLE:  
**SITE PLAN -EV CHARGERS AND ACCESS CONTROL PATHWAY**  
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OB NUMBER: 23332.21	SHEET NUMBER: <b>E101</b>
DATE: DEC 22, 2023	
REVISION:	

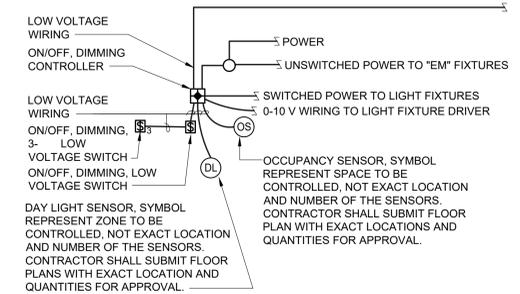


**1** DEMOLITION FLOOR PLAN - LIGHTING  
E202 SCALE: 1/4" = 1'-0"



**2** REMODEL FLOOR PLAN - LIGHTING  
E202 SCALE: 1/4" = 1'-0"

- NUMBERED NOTES:**
- 1 DISCONNECT AND REMOVE (E) LIGHT FIXTURE. PROTECT WIRING FOR REUSE.
  - 2 DISCONNECT AND REMOVE (E) SWITCH. REMOVE WIRING BACK TO SOURCE. PROTECT BACKBOX AND SWITCHLEG CONDUIT FOR REUSE.
  - 3 DISCONNECT AND REMOVE (E) EXIT LIGHT. REMOVE WIRING TO SOURCE.
  - 4 PROTECT (E) LIGHT AND LIGHTING CIRCUIT.
  - 5 PROVIDE PARAMOUNT PMS09-2-SG-UNV-35K-CR190-93L-PZ-L8-LD. PROVIDE WITH BATTERY BACKUP OPTION IN "EM" LIGHT. CONNECT TO (E) LIGHTING CIRCUIT. SEE DEMOLITION. ADJUST (E) LIGHTING CIRCUIT TO CONNECT TO (N) LIGHT FIXTURES AND CONTROLS. TYPICAL FOR (N) LIGHT FIXTURES.
  - 6 PROVIDE EMERGH-LITE PRESTIGE EXIT LIGHT AA-DXN-1-G. CONNECT TO UNSWITCHED "HOT".
  - 7 CONNECT "EM" LIGHT TO SWITCH WITH OTHER LIGHTS IN ROOM IN PRESENCE OF GRID POWER, AND TO TURN ON DURING BLACKOUTS. PROVIDE UNSWITCHED "HOT" FOR INTEGRAL BATTERY BACKUP.
  - 8 SEE LIGHTING DIAGRAM SWITCHING FOR ADDITIONAL EQUIPMENT, CONNECTIONS, AND SWITCHING.



LIGHTING CONTROL DIAGRAM

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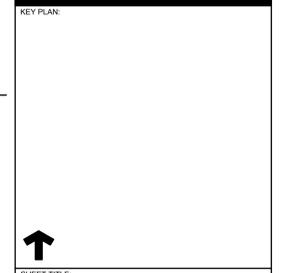
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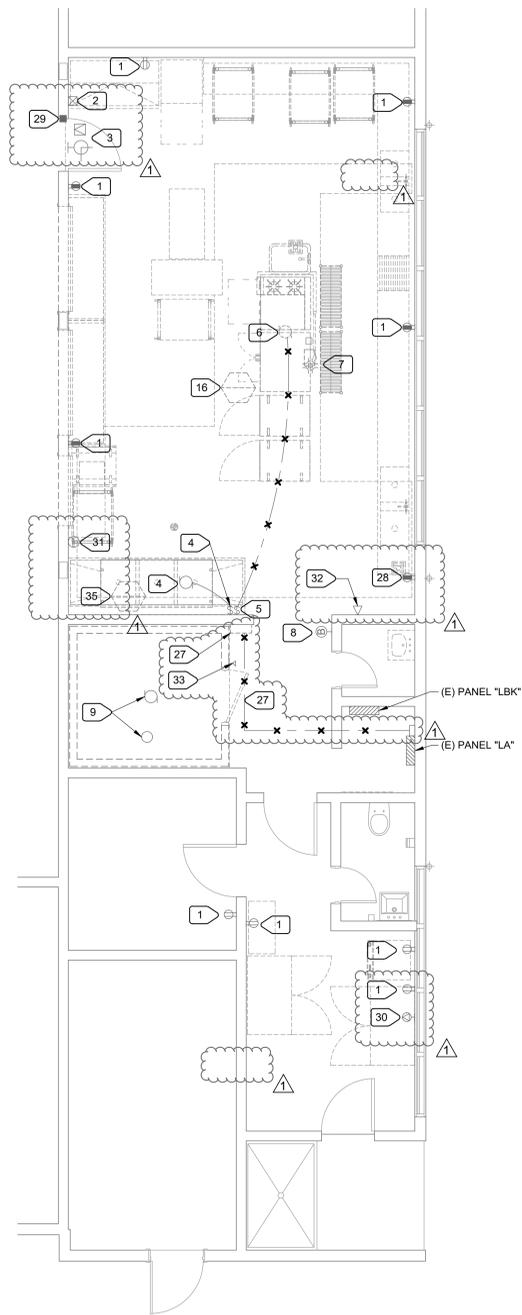
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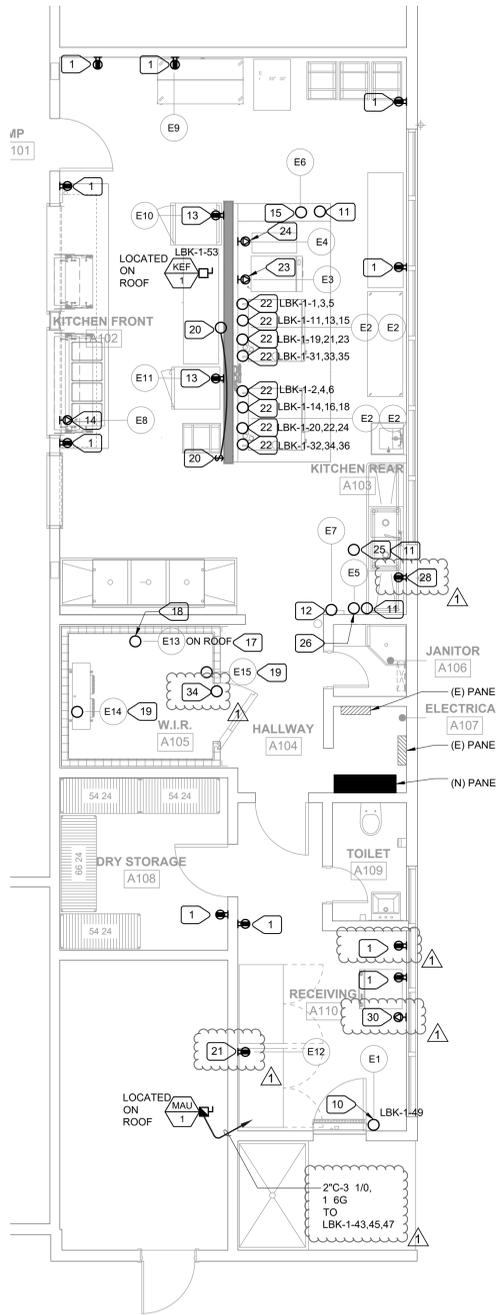
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SHEET TITLE:  
**DEMOLITION AND REMODEL REFLECTED CEILING PLAN: LIGHTING**

OB NUMBER: 23332.21	SHEET NUMBER: <b>E201</b>
DATE: DEC 22, 2023	
REVISION:	



**1** DEMOLITION FLOOR PLAN - POWER AND SIGNAL  
E202 SCALE: 1/4" = 1'-0"



**2** REMODEL FLOOR PLAN - POWER AND SIGNAL  
E202 SCALE: 1/4" = 1'-0"

ELEC. NO.	DESCRIPTION	QTY.	VOLT.	PH	DIRECT	PLUG	NEMA	LOAD AMPS DRAW	OUTLET HEIGHT
E1	AIR CURTAIN, UNHEATED	1EA.	120	1	X	-	-	3.4	86"
E2	COMBI OVEN, ELECTRIC	4EA.	208	3	X	-	-	70	48"
E3	ELECTRIC GRIDDLE	1EA.	208	3	-	X	15-50P	27	24"
E4	INDUCTION COOK TOP	1EA.	240	1	-	X	6-50P	32	48"
E5	EXHAUST HOOD CONTROL POWER AND ROOM TEMPERATURE PANEL AND SENSOR	1EA.	120	1	X	-	-	20	48"
E6	EXHAUST HOOD FIRE SYSTEM CONTROL POWER	1EA.	120	1	X	-	-	20	104"
E7	FIRE SYSTEM (REMOTE PULL STATION)	1EA.	-	-	X	-	-	-	48"
E8	DROP-IN HOT WELLS	1EA.	208	1	-	X	6-20P	9.6	18"
E9	MILK COOLER EXISTING RELOCATED	1EA.	-	-	-	-	-	-	18"
E10	MOBILE HOLDING CABINET	1EA.	120	1	-	X	5-20P	16	48"
E11	MOBILE HOLDING CABINET	1EA.	120	1	-	X	5-15P	12	48"
E12	FREEZER, REACH IN EXISTING RELOCATED	1EA.	-	-	-	-	-	-	86"
E13	REMOTE REFRIGERATION LOCATED ON ROOF	1EA.	208	3	X	-	-	8	8"
E14	WALK-IN REFRIGERATOR (COIL)	1EA.	120	1	X	-	-	1.8	74"
E15	WALK-IN REFRIGERATOR (BOX)	1EA.	120	1	X	-	-	4.0	88"

**NEW PANEL "LBK-1" SCHEDULE**

POWER SOURCE: PANEL "LA" LOCATION: SEE PLANS  
SYSTEM: NORMAL BRANCH

TYPE	BUS: 800 AMPS	MAIN BKR: 800A	VOLTAGE: 208Y/120 VOLT, 3 PHASE, 4 WIRES	MOUNTING: SURFACE	PANEL TYPE NEMA 1	REMARKS:
COMBI OVEN [2]	8.1	90/3	3 B 4	90/3	8.1	COMBI OVEN [2]
SHUNT TRIP	8.1	7	A C 6		8.1	SHUNT TRIP
SHUNT TRIP POWER		20/1	9 B 10	20/1		SHUNT TRIP
SHUNT TRIP			11 C 12			SHUNT TRIP
COMBI OVEN [2]	8.1	90/3	13 A 14	90/3	8.1	COMBI OVEN [2]
SHUNT TRIP	8.1	17	C 18		8.1	SHUNT TRIP
COMBI OVEN [2]	8.1	90/3	19 A 20	90/3	8.1	COMBI OVEN [2]
SHUNT TRIP	8.1	21	B 22		8.1	SHUNT TRIP
SHUNT TRIP			23 C 24			SHUNT TRIP
SHUNT TRIP	8.1		25 A 26			SHUNT TRIP
SHUNT TRIP	8.1	27	B 28	20/1		SPARE GFCI [1]
SHUNT TRIP	8.1	29	C 30			SHUNT TRIP
COMBI OVEN [2]	8.1	90/3	33 B 34	90/3	8.1	COMBI OVEN [2]
SHUNT TRIP	8.1	31	A 32		8.1	SHUNT TRIP
SHUNT TRIP	8.1	35	C 36		8.1	SHUNT TRIP
ELECTRICAL GRIDDLE [2]	3.2	35/3	37 A 38	40/2	3.84	INDUCTION COOK TOP [2]
SHUNT TRIP	3.2	41	C 42			SHUNT TRIP
MAU-1	12.5	43	A 44			
AIR CURTAIN	12.5	125/3	45 B 46			
SPARE GFCI [1]	0.5	20/1	47 C 48			SPACE
KEP-1	1.1	20/1	49 A 50	PFB		SPACE
			51 B 52	PFB		SPACE
			53 C 54	PFB		SPACE
NOTES:						CONNECTED LOAD
[1] GFCI BREAKER						PHASE A = 84.8 kVA
[2] SHUNT TRIP BREAKER						PHASE B = 84.3 kVA
						PHASE C = 81.6 kVA
						TOTAL = 250.8 kVA
						TOTAL = 696.6 Amperes

- NUMBERED NOTES:**
- REMOVE (E) RECEPTACLE AND REPLACE W/ (N) GFCI.
  - DIGITAL CONTROL. COORDINATE WITH OWNER. IF NOT REQUIRED, CAREFULLY DISCONNECT AND RETURN TO OWNER. IF REQUIRED PROTECT IN PLACE.
  - PROTECT CLOCK/SPEAKER IN PLACE.
  - PROTECT GARBAGE DISPOSAL. PROTECT ASSOCIATED SWITCH.
  - REMOVE SWITCH FOR OVEN HOOD. PROVIDE BLANK PLATE (GARBAGE DISPOSER SWITCH AND OVEN HOOD SWITCH ARE HOUSED IN SAME ENCLOSURE).
  - DISCONNECT POWER TO OVEN HOOD AND REMOVE WIRING BACK TO SOURCE.
  - REMOVE RECEPTACLE MOUNTED ON HOOD. REMOVE WIRING BACK TO SOURCE.
  - PROTECT BELL AND ASSOCIATED WIRING.
  - DISCONNECT POWER TO COMPRESSOR OR (E) WALK IN REFRIGERATOR. REMOVE WIRING BACK TO PANEL "LBK", BUT PROTECT CONDUITS FOR REUSE.
  - FOR AIR CURTAIN. CONNECT POWER VIA DOOR SWITCH. COORDINATE WITH KITCHEN EQ. INSTALLER.
  - SEE 4/E400 FOR CONNECTIONS.
  - EMPTY FLUSH MTD. OCTAGONAL BOX FOR FIRE SUPPRESSION PULL STATION PROVIDED BY OTHERS. PROVIDE 3/4" CONDUIT TO ABOVE CEILING SPACE. COORDINATE WITH KITCHEN EQ. INSTALLER.
  - PROVIDE 20/1 CIRCUIT BREAKER IN (E) SPACES OF PANEL "LBK" AND CONNECT THIS RECEPTACLE TO THAT CIRCUIT BREAKER.
  - PROVIDE 20/2 CIRCUIT BREAKER IN (E) SPACES OF PANEL "LBK" AND CONNECT THIS RECEPTACLE TO THAT CIRCUIT BREAKER.
  - PROVIDE 20/1 CIRCUIT BREAKER IN (E) SPACES OF PANEL "LA" AND CONNECT POWER FOR FIRE SUPPRESSION SYSTEM TO THAT CIRCUIT BREAKER. CIRCUIT BREAKER SHALL HAVE RED HANDLE AND SHALL HAVE LOCKING DEVICE.
  - DISCONNECT KITCHEN HOOD EXHAUST FAN (ON ROOF). REMOVE WIRING BACK TO SOURCE.
  - CONNECT POWER TO DISCONNECT PROVIDED WITH (N) UNIT.
  - REPLACE (E) 15/3 CIRCUIT BREAKER WITH (N) 20/3 CIRCUIT BREAKER AND CONNECT (N) REFRIGERATOR COMPRESSOR TO THAT CIRCUIT BREAKER. RUN 3 12, 1 12G THROUGH (E) CONDUIT. AD UST (E) CONDUIT AS REQUIRED TO CONNECT (N) COMPRESSOR.
  - CONNECT (N) COIL AND BOX TO (E) 20/1 CIRCUIT BREAKER IN (E) PANEL "LBK" USED FOR REMOVED COIL - SEE NOTE 9. RUN 2 12, 1 12G THROUGH (E) CONDUIT. AD UST (E) CONDUIT AS REQUIRED TO CONNECT (N) COIL AND BOX. PROVIDE CONNECTIONS INSIDE REFRIGERATOR. SEE FOOD SERVICE DRAWINGS FOR ADDITIONAL REQUIREMENTS.
  - PROVIDE (N) 20/1 CIRCUIT BREAKER IN (E) PANEL "LBK", BRING 2 12, 1 12G TO -BOX VIA SWITCH. INSTALL -BOX AT 86"-88" A.F.F. CENTERED ON (N) WALL. POWER PROVIDED FOR FUTURE CUSTOM SIGNAGE. UPDATE PANEL DIRECTORY. ENGRAVE SWITCH PLATE TO READ "SIGNAGE".
  - PROVIDE (N) 20/1 CIRCUIT BREAKER IN (E) PANEL "LBK" AND CONNECT THIS RECEPTACLE TO THAT CIRCUIT BREAKER.
  - 1-1/2"-3 2, 1 8G TO (N) PANEL "LBK-1".
  - 1"-3 8, 1 10G TO LBK-1-37,39,41.
  - 1"-2 8, 1 10G TO LBK-1-38,40.
  - AMBIENT RESISTANCE TEMPERATURE DETECTOR. SEE FOOD SERVICE DRAWINGS.
  - DEMANDAIRE CONTROL PANEL. PROVIDE 20/1 CIRCUIT BREAKER IN (E) SPACES OF PANEL "LA" AND CONNECT POWER PROVIDED 20/1 CIRCUIT BREAKER IN (E) SPACES OF PANEL "LA" AND CONNECT POWER FOR PANEL TO THAT CIRCUIT BREAKER. CIRCUIT BREAKER SHALL HAVE RED HANDLE AND SHALL HAVE LOCKING DEVICE.
  - REMOVE (E) EMPTY BOX AND ASSOCIATED CONDUIT. PATCH HOLES.
  - REMOVE (E) RECEPTACLE. PROTECT (E) CIRCUIT. INSTALL (N) RECEPTACLE TO BE ABOVE (N) PREP SINK.
  - INTRUSION ALARM DOOR CONTACT. PROTECT.
  - (E) 30/2 RECEPTACLE. PROTECT CIRCUIT AND BACK BOX. REPLACE (E) RECEPTACLE WITH (N).
  - (E) EXPOSED -BOX. TRACE WIRING IN BOX. AND IF UNUSED REMOVE. REMOVE ASSOCIATED EXPOSED CONDUITS. IF -BOX USED, PROTECT.
  - (E) PHONE OUTLET. PROTECT.
  - (E) REFRIGERATOR NOTIFICATION DEVICE. DISCONNECT AND REMOVE.
  - COORDINATE WITH OWNER CONNECTION OF REFRIGERATOR ALARM TO (E) INTRUSION ALARM, OR CONNECTION TO SCHOOL NETWORK. PROVIDE ALL APPURTENANCES REQUIRED.
  - DISCONNECT EXHAUST FAN. REMOVE WIRING BACK TO SOURCE.

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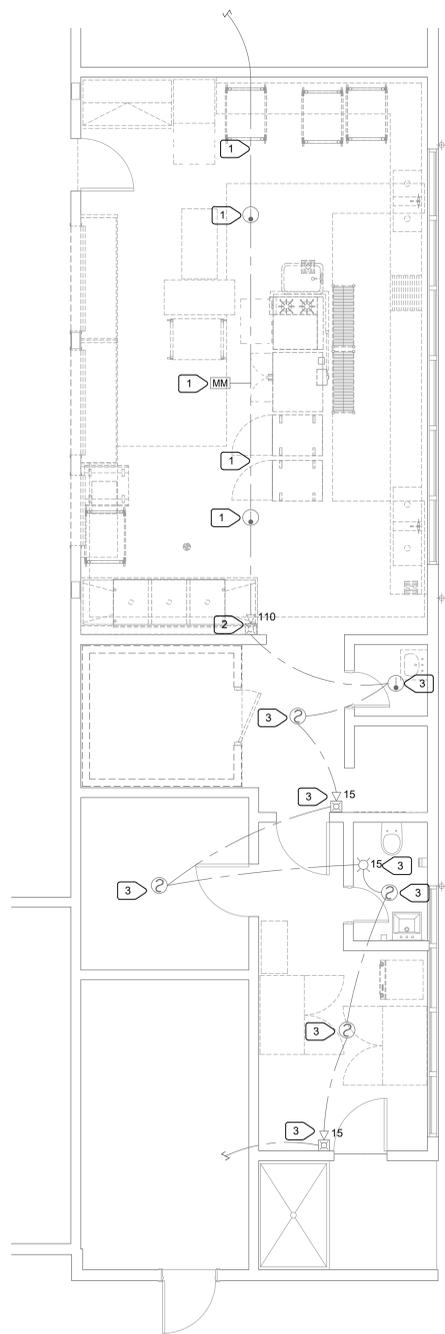
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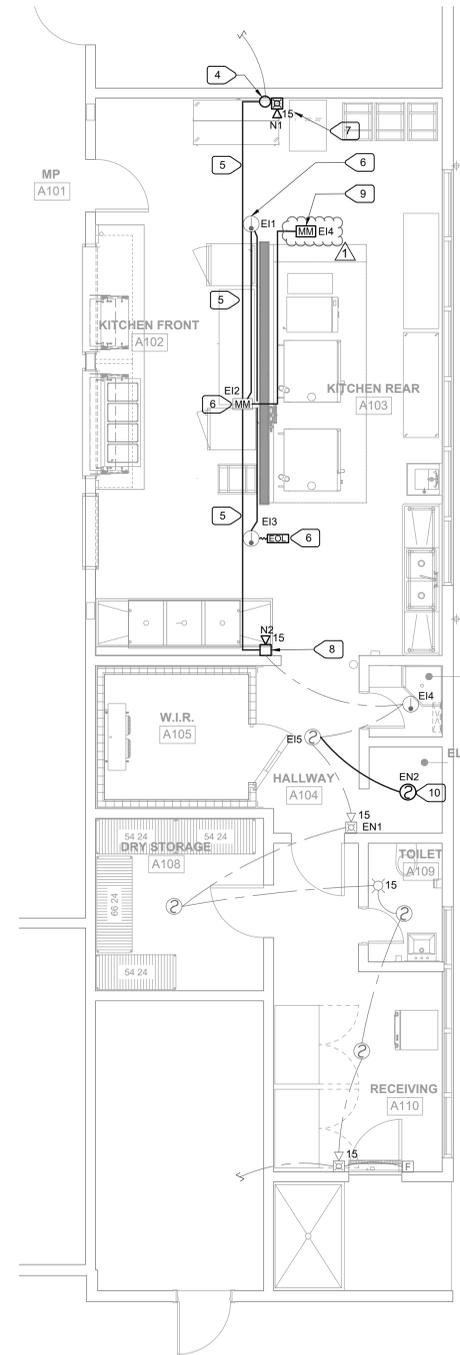
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:  
SHEET TITLE:  
**DEMOLITION AND REMODEL FLOOR PLAN: POWER AND SIGNAL**  
OB NUMBER: 23332.21 SHEET NUMBER:  
DATE: DEC 22, 2023  
REVISION: ADD#3 03/05/24 **E202**



**1** DEMOLITION FLOOR PLAN - FIRE ALARM  
 E203 SCALE: 1/4" = 1'-0"



**2** REMODEL FLOOR PLAN - FIRE ALARM  
 E203 SCALE: 1/4" = 1'-0"

- NUMBERED NOTES:**
- 1 CAREFULLY DISCONNECT (E) HEAT DETECTOR, MONITOR MODULE AND SURFACE RACEWAY. STORE FOR REUSE. PROTECT (E) INITIATION AND NOTIFICATION CIRCUIT FOR REUSE.
  - 2 REMOVE (E) 110 d STROBE/HORN. PROTECT (E) NOTIFICATION CIRCUIT. PROTECT (E) VERTICAL SURFACE RACEWAY.
  - 3 PROTECT (E) DEVICE AND ASSOCIATED FIRE ALARM CIRCUIT.
  - 4 INTERCEPT (E) INITIATION AND NOTIFICATION CIRCUIT. PROVIDE ACCESSIBLE -BOX TO SPLICE (N) WIRING.
  - 5 PROVIDE (N) SURFACE RACEWAY TO MATCH (E).
  - 6 REINSTALL (E) HEAT DETECTOR, MONITOR MODULE. PROVIDE (N) WIRING PER FIRE ALARM RISER DIAGRAM.
  - 7 (N) NOTIFICATION DEVICE. SEE FIRE ALARM RISER DIAGRAM.
  - 8 (N) NOTIFICATION DEVICE IN LOCATION OF REMOVED. SEE FIRE ALARM RISER DIAGRAM.
  - 9 PROVIDE FOR HOOD FIRE SUPPRESSION SYSTEM. SEE 4/E400.
  - 10 (N) SMOKE DETECTOR. SEE FIRE ALARM RISER DIAGRAM.



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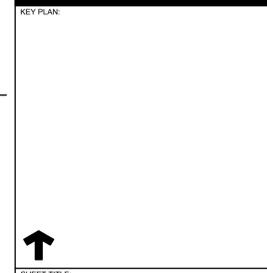
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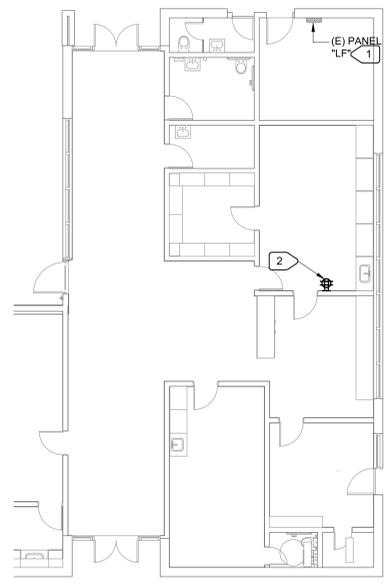
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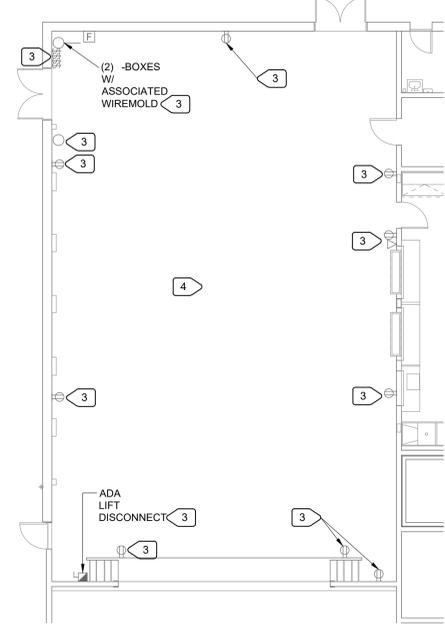
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 SHEET TITLE:  
**DEMOLITION AND REMODEL FLOOR PLAN: FIRE ALARM**

OB NUMBER: 23332.21	SHEET NUMBER: <b>E203</b>
DATE: DEC 22, 2023	
REVISION: ADD#3 03/05/24	



**1**  
E204  
SCALE: 1/8" 1'-0"

**ADDITIONAL POWER  
BLDG. B - ADMIN AREA**



**2**  
E204  
SCALE: 1/8" 1'-0"

**ELECTRICAL DEMOLITION  
BLDG. A - MP ROOM**

- NUMBERED NOTES:**
- 1 PROVIDE (N) 20/1 CIRCUIT BREAKER IN (E) SPACE. CONNECT (N) FOURPLEX RECEPTACLE TO THAT CIRCUIT BREAKER. UPDATE PANEL DIRECTORY.
  - 2 LOCATE (N) RECEPTACLE AS DIRECTED IN FIELD. RUN WIREMOLD V700 UP TO ABOVE ACOUSTICAL CEILING, THEN CONTINUE WITH CONDUIT TO (E) PANEL "LF".
  - 3 (N) WALL HARD SURFACE IS BEING INSTALLED IN MP ROOM. ELECTRICAL CONTRACTOR SHALL PROTECT (E) DEVICE AND ADJUST TO (N) SURFACE.
  - 4 NOT ALL ELECTRICAL DEVICES AFFECTED BY NEW WALL SURFACE IN THIS ROOM ARE SHOWN. CONTRACTOR SHALL NOTE ALL DEVICES IN PRE-BID WALK THROUGH AND ACCOUNT FOR THEM IN BID.



FEW EXAMPLES OF ELECTRICAL DEVICES IN MP ROOM

**DESIGN  
California  
WEST**

CALIFORNIA DESIGN  
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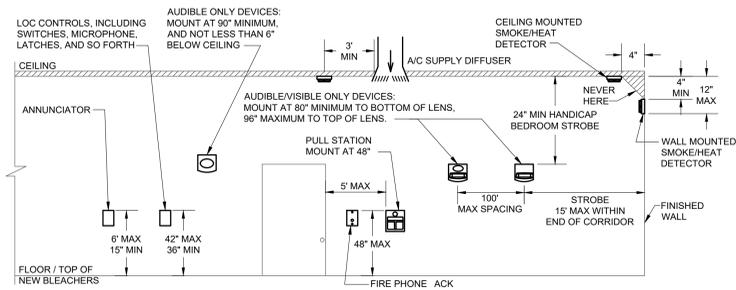
KEY PLAN:

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SHEET TITLE:

**BUILDING B -  
ADDITIONAL POWER,  
BUILDING A - MP  
ROOM DEMOLITION**

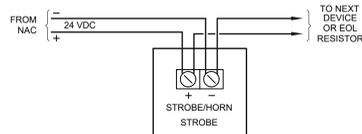
OB NUMBER: 23332.21	SHEET NUMBER:
DATE: DEC 22, 2023	
REVISION: ADD#3 03/05/24	<b>E204</b>



**TYPICAL INITIATION AND NOTIFICATION**

**1 APPLIANCE ELEVATION DETAIL**

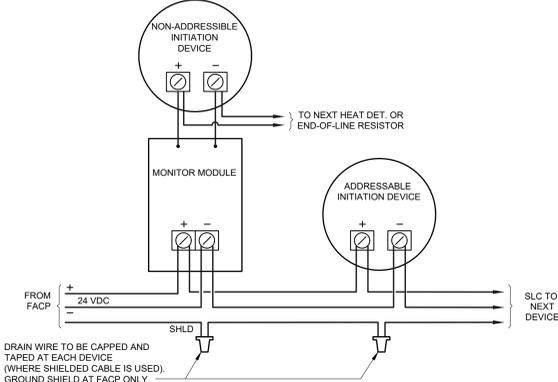
E400 NO SCALE



**NOTIFICATION DEVICES**

**2 POINT TO POINT WIRING DIAGRAM**

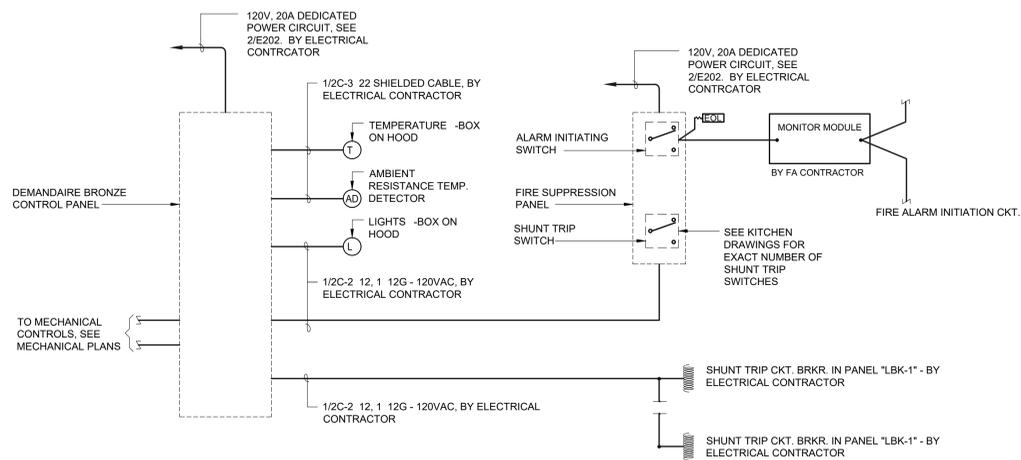
E400 NO SCALE



NOTE:  
DIAGRAM IS GENERIC THEREFORE CONTRACTOR SHALL COORDINATE WORK FOR SPECIFIC DEVICES USED.  
REFER TO MANUFACTURER INFORMATION FOR TYPE OF CABLE, MAX. LENGTH, T-TAPING, GROUNDING, ETC.

**3 INITIATION DEVICES - POINT TO POINT WIRING DIAGRAM**

E400 NO SCALE



NOTES:  
1. SEE SHEET FS5.3 FOR ADDITIONAL REQUIREMENTS.  
2. COORDINATE WORK WITH KITCHEN EQUIPMENT CONTRACTOR BEFORE ROUGH IN.

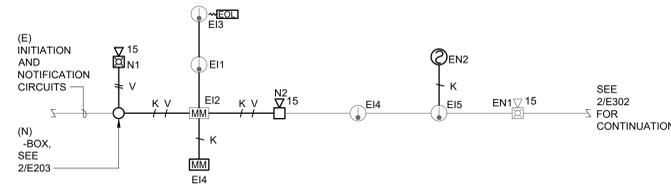
**4 HOOD FIRE SUPPRESSION SYSTEM - WIRING DIAGRAM**

E400 NOT TO SCALE

FIRE ALARM EQUIPMENT SCHEDULE			
SYMBOL	CATALOG NO.	DESCRIPTION	CSFM LISTING No.
FACP	FIRELITE MS9600	(E) FIRE ALARM CONTROL PANEL	
SD	FIRELITE SD350T	PHOTOELECTRIC SMOKE DETECTOR	7272-0075:0194
MM	FIRELITE MMF301	MONITOR MODULE	7300-0075:0185
15	WHEELOCK AS-24MCW	HORN/STROBE 15 d	7125-0785:0131

FIRE ALARM SEQUENCE OF OPERATION MATRIX							
	FACP ALARM	FACP TROUBLE	FACP SUPERVISORY	ALARM SIGNAL OFF-SITE	TROUBLE SIGNAL OFF-SITE	ACTIVATE AUDIO/VISUAL THROUGHOUT	ALARM RESCRIPT CAPABILITY DURING ABNORMAL CONDITIONS
AREA SMOKE DETECTOR	X			X	X		
AREA HEAT DETECTOR	X			X	X		
KITCHEN HOOD FIRE SUPPRESSION SYSTEM	X		X				X X X
POWER FAILURE		X	X	X			
NOTIFICATION CIRCUIT CLASS B							
OPEN WIRE		X		X			
GROUNDING WIRE		X		X		R	
SHORTED WIRES		X		X			
SIGNALING LINE CIRCUIT CLASS B							
OPEN WIRE		X		X			
GROUNDING WIRE		X		X		R	
WIRE TO WIRE (SHORT OPEN)		X		X			
WIRE TO WIRE (SHORT GROUND)		X		X			
OPEN GROUND		X		X			
LOSS OF CARRIER		X		X			

NOTE: BLANK MEANS NOT APPLICABLE R REQUIRED ACTION



**5 FIRE ALARM RISER DIAGRAM**

E400 N.T.S.

FIRE ALARM CABLE SCHEDULE		
K	ADDRESSABLE INITIATION	2#16AWG, - WEST PENN 990
L	NON-ADDRESSABLE INITIATION	2#16AWG, - WEST PENN 990
V	NOTIFICATION - AUDIBLE (SPEAKER)	2#12AWG, - WEST PENN 998

**VOLTAGE DROP NOTE:**

ADDED (N) NOTIFICATION WIRES SHALL BE OF SAME LENGTH AS EXISTING REMOVED NOTIFICATION WIRES - SEE SHEET E203. VOLTAGE DROP IS LESS THEN ORIGINAL - LOAD OF (N) NOTIFICATION DEVICES IS LESSER THEN REMOVED NOTIFICATION DEVICE. THEREFORE VOLTAGE DROP IS LESSER THEN ORIGINAL VOLTAGE DROP PER DSA APPLICATION 02-102142, DATED 11/15/2002

**STANDBY BATTERY NOTE:**

REMOVED IS HORN/STROBE WHEELOCK AS24110WFR. LOAD OF REMOVED DEVICE IS 0.224A. ADDED ARE (2) HORN/STROBES - WHEELOCK AS24MCW AD LUSTED TO 15 d. ADDED LOAD IS 2 0.074 0.148. ADDED LOAD IS LESSER THEN ORIGINAL VOLTAGE DROP PER DSA APPLICATION 02-102142, DATED 11/15/2002. EXISTING BATTERY IS ADEQUATE.

**ARCHITECT**  
CONSULTANT:

**LICENSED ARCHITECT**  
M. NEILS  
No. E15483  
E. 630025 22

**REGISTERED PROFESSIONAL ENGINEER**  
No. C-17290  
No. E15483  
E. 630025 22

CONSULTANT:

**M. NEILS ENGINEERING, INC.**  
E R E R | L D R  
100 Ho A S 235N  
S r o, CA 95825-8217  
T : (916) 923-4400  
PRO ECT : 2332.21  
PRO ECT MGR: SINISHA GLISIC

**ALICE BIRNEY PUBLIC WALDORF TK-8 SCHOOL**  
6254 13TH STREET  
SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

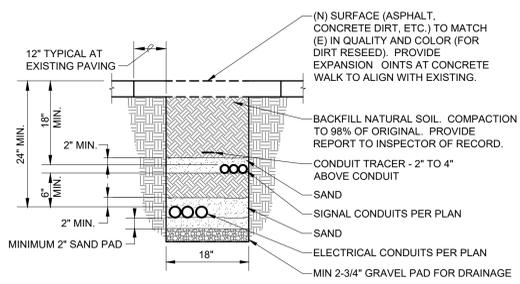
SACRAMENTO COUNTY

KEY PLAN:

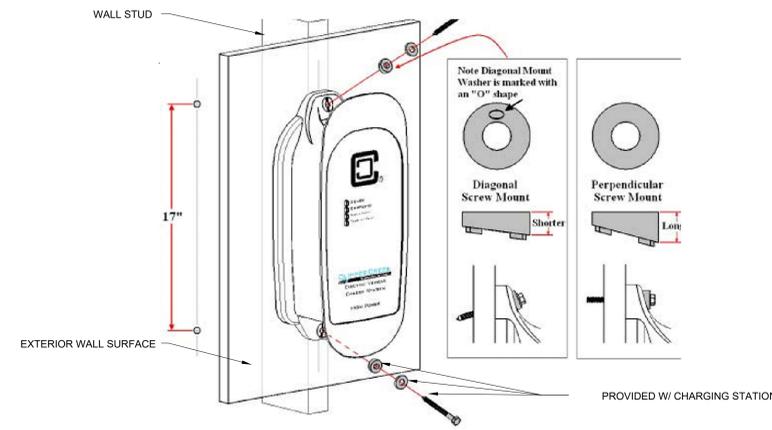
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SHEET TITLE:  
**FIRE ALARM NOTES, DETAILS, DIAGRAMS, OPERATION MATRIX**

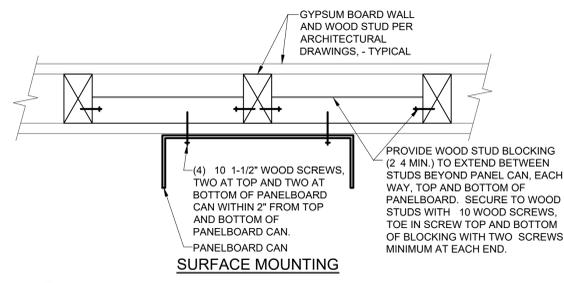
OB NUMBER: 23332.21	SHEET NUMBER:
DATE: DEC 22, 2023	
REVISION:	<b>E400</b>



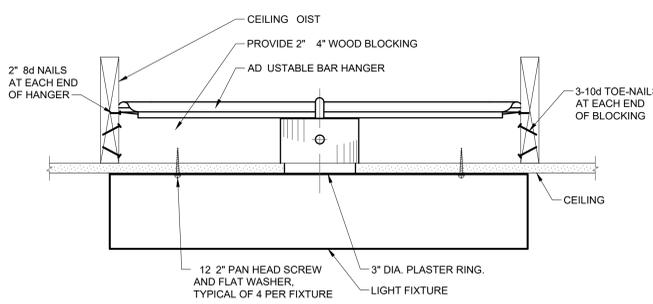
**1 CONDUIT TRENCHING DETAIL**  
E500 NO SCALE



**4 EV CHARGING STATION ON WALL**  
E500 NO SCALE WEIGHT 13LB.

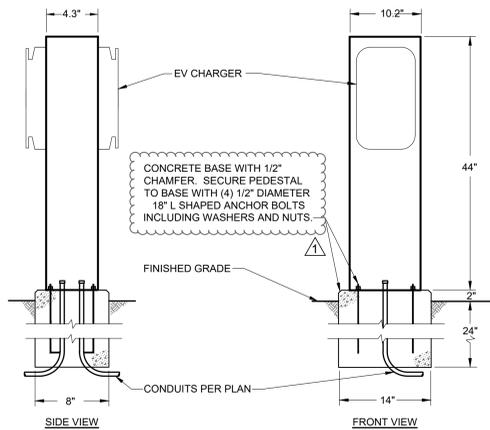
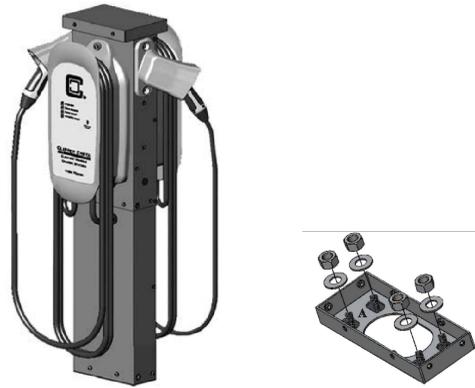


**2 PANELBOARD MOUNTING DETAIL**  
E500 NO SCALE MAX. PANEL WEIGHT 210LB.



**3 SURFACE FIXTURE MOUNTING DETAIL**  
E500 NO SCALE

ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OPENING CEILING AND PATCHING/PAINTING PER ARCHITECTURAL INSTRUCTIONS. SEE ARCHITECTURAL DRAWINGS.



**5 EV CHARGER ON PEDESTAL**  
E500 NO SCALE WEIGHT 52.8LB.

**DESIGN California WEST**

CALIFORNIA DESIGN WEST ARCHITECTS, inc.

2100 19th Street  
Sacramento, CA 95818

Phone: (916) 446-2466  
Fax: (916) 446-5118  
Web Page: ca-dw.com



CONSULTANT:

**M. NEILS ENGINEERING, INC.**  
E R E R L D R

100 Ho A S 235N  
S r o, CA 95825-8217

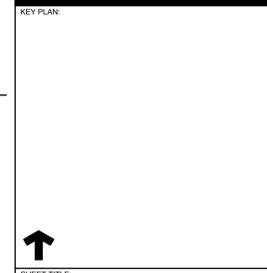
T : (916) 923-4400  
PRO ECT : 2332.21  
PRO ECT MGR: SINISHA GLISIC

**ALICE BIRNEY PUBLIC WALDORF TK-8 SCHOOL**  
6254 13TH STREET  
SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY



SHEET TITLE:  
**ELECTRICAL DETAILS**

OB NUMBER: 23332.21	SHEET NUMBER:
DATE: DEC 22, 2023	
REVISION: ADD#3 03/05/24	<b>E500</b>

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Indoor Lighting

CERTIFICATE OF COMPLIANCE Project Name: 23332.21 ALICE BIRNEY TK-8 - CAMPUS RENEWAL Report Page: (Page 1 of 7) Date Prepared: 2023-12-14T18:55:33-05:00

A. GENERAL INFORMATION Table with columns: 01 Project Location (city), 02 Climate Zone, 03 Occupancy Types Within Project, 04 Total Conditioned Floor Area (ft²), 05 Total Unconditioned Floor Area (ft²), 06 # of Stories (Habitable Above Grade)

B. PROJECT SCOPE This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Table with columns: Scope of Work, Conditioned Spaces, Unconditioned Spaces, 01, 02, 03, 04, 05

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 165172-1223-0002 Schema Version: rev 20220101 Report Generated: 2023-12-14 15:55:37

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Indoor Lighting

CERTIFICATE OF COMPLIANCE Project Name: 23332.21 ALICE BIRNEY TK-8 - CAMPUS RENEWAL Report Page: (Page 4 of 7) Date Prepared: 2023-12-14T18:55:33-05:00

H. INDOOR LIGHTING CONTROLS (Not including PAFs) Area Level Controls

Table with columns: 04, 05, 06, 07, 08, 09, 10, 11, 12

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table.

Table with columns: 01, 02, 03, 04, 05, 06

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This section does not apply to this project.

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STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Indoor Lighting

CERTIFICATE OF COMPLIANCE Project Name: 23332.21 ALICE BIRNEY TK-8 - CAMPUS RENEWAL Report Page: (Page 2 of 7) Date Prepared: 2023-12-14T18:55:33-05:00

C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Table with columns: Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts), Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts), Compliance Results

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.

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 165172-1223-0002 Schema Version: rev 20220101 Report Generated: 2023-12-14 15:55:37

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Indoor Lighting

CERTIFICATE OF COMPLIANCE Project Name: 23332.21 ALICE BIRNEY TK-8 - CAMPUS RENEWAL Report Page: (Page 5 of 7) Date Prepared: 2023-12-14T18:55:33-05:00

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS This section does not apply to this project.

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 165172-1223-0002 Schema Version: rev 20220101 Report Generated: 2023-12-14 15:55:37

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Indoor Lighting

CERTIFICATE OF COMPLIANCE Project Name: 23332.21 ALICE BIRNEY TK-8 - CAMPUS RENEWAL Report Page: (Page 3 of 7) Date Prepared: 2023-12-14T18:55:33-05:00

F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting.

Table with columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10

\*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75%/80% of their rated wattage.

G. MODULAR LIGHTING SYSTEMS This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces.

Table with columns: 01, 02, 03

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 165172-1223-0002 Schema Version: rev 20220101 Report Generated: 2023-12-14 15:55:37

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Indoor Lighting

CERTIFICATE OF COMPLIANCE Project Name: 23332.21 ALICE BIRNEY TK-8 - CAMPUS RENEWAL Report Page: (Page 6 of 7) Date Prepared: 2023-12-14T18:55:33-05:00

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project.

T. DWELLING UNIT LIGHTING This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document.

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document.

Table with columns: Form/Title, Systems/Spaces To Be Field Verified

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 165172-1223-0002 Schema Version: rev 20220101 Report Generated: 2023-12-14 15:55:37

STATE OF CALIFORNIA CALIFORNIA ENERGY COMMISSION Indoor Lighting

CERTIFICATE OF COMPLIANCE Project Name: 23332.21 ALICE BIRNEY TK-8 - CAMPUS RENEWAL Report Page: (Page 7 of 7) Date Prepared: 2023-12-14T18:55:33-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

Table with columns: Documentation Author Name, Documentation Author Signature, Company, Address, City/State/Zip, Signature Date, CSW/RES Certification Identification (if applicable), Phone

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 (responsible designer)
3. 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.
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.
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.

Table with columns: Responsible Designer Name, Responsible Designer Signature, Company, Address, City/State/Zip, Date Signed, License, Phone

Generated Date/Time: Documentation Software: Energy Code Ace Report Version: 2022.0.000 Compliance ID: 165172-1223-0002 Schema Version: rev 20220101 Report Generated: 2023-12-14 15:55:37



CALIFORNIA DESIGN WEST ARCHITECTS, inc. 2100 19th Street Sacramento, CA 95818 Phone: (916) 446-2466 Fax: (916) 446-5118 Web Page: ca-dw.com

ARCHITECT CONSULTANT:



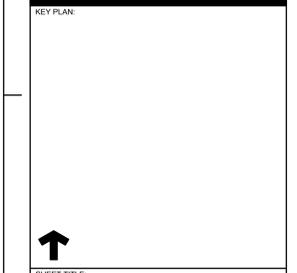
CONSULTANT: M. NEILS ENGINEERING, INC. 100 HOWE AVE., SUITE 235N SACRAMENTO, CA 95825-8217 PRO ECT : 2332.21 PRO ECT MGR: SINISHA GLISIC

ALICE BIRNEY PUBLIC WALDORF TK-8 SCHOOL 6254 13TH STREET SACRAMENTO, CA 95831

CAMPUS RENEWAL

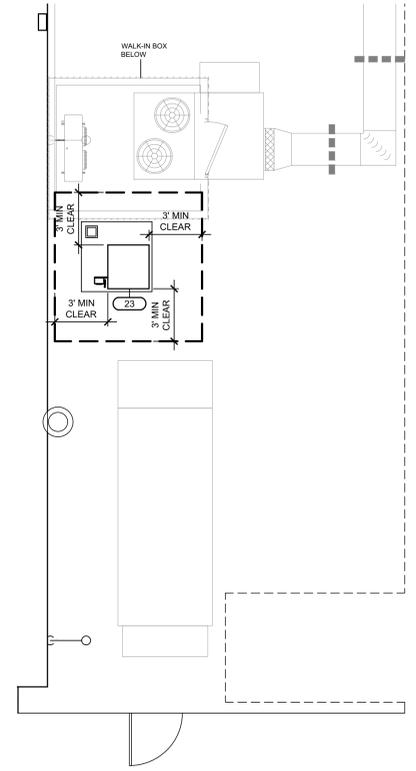
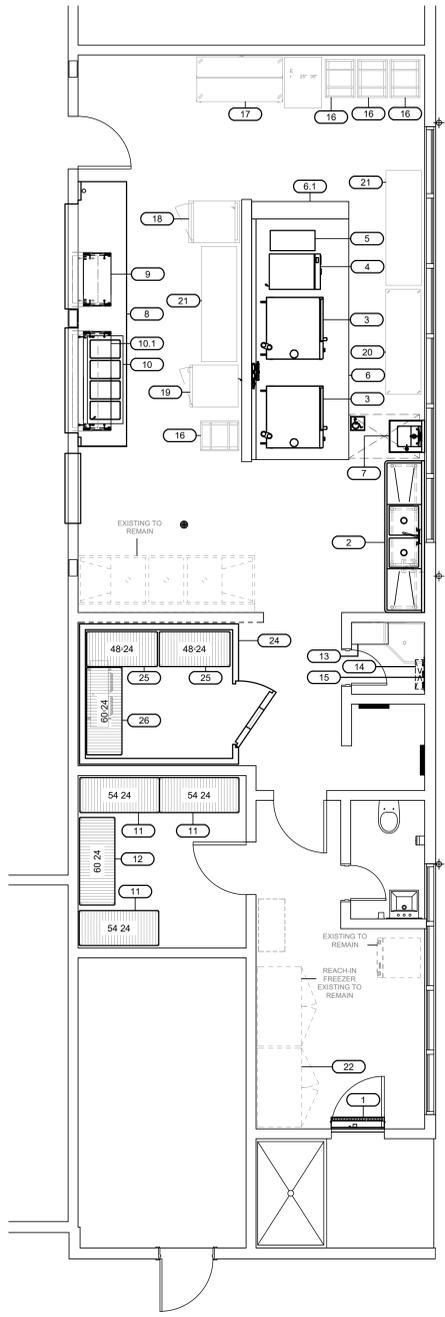
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY



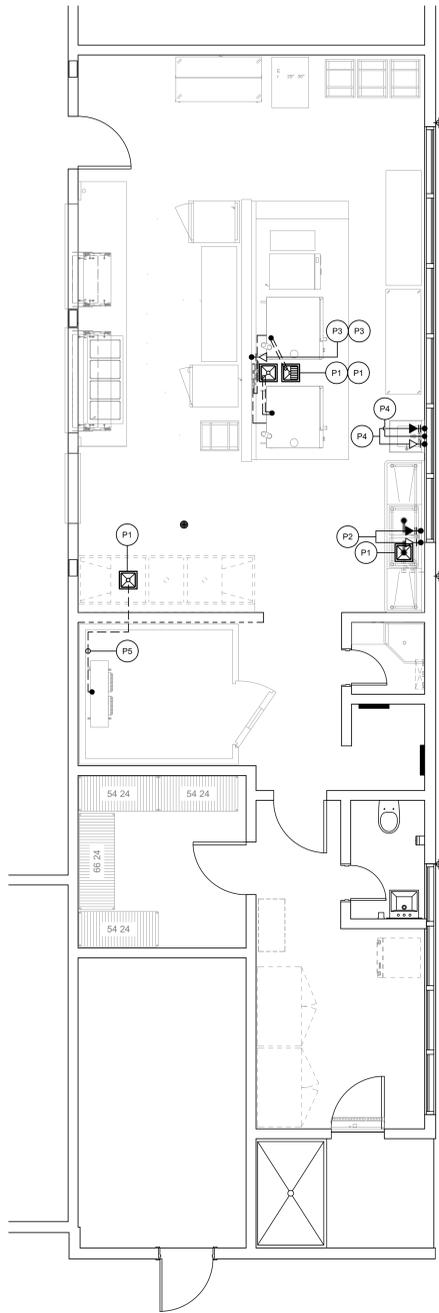
SHEET TITLE: TITLE 24 - INDOOR LIGHTING COMPLIANCE FORMS

Table with columns: OB NUMBER, SHEET NUMBER, DATE, REVISION, E600



EQUIPMENT SCHEDULE							
ITEM NO	QTY	OF	EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	REMARKS	ANCHORAGE DETAILS
1	1		AIR CURTAIN, UNHEATED	BERNER	SLC07-1036A		440 C/FS8.2
2	1		PREP SINK	EAGLE GROUP/METAL MASTERS	FN2040-2-30-14/3		261 B/FS8.1
3	2		OVEN-STEAMER, COMBINATION, ELECTRIC, DOUBLE	RATIONAL USA	ICP 6-FULL ON 6-FULL E		502 G/FS8.1
4	1		ELECTRIC GRIDDLE, 24"	ACCUTEMP	EGF2083A2450	W/ STAND	200 A/FS8.2
5	1		INDUCTION RANGE, COUNTERTOP, W/ STAND	COOKTEK	620701	W/ STAND	100
6	1		EXHAUST HOOD, TYPE 1	STREIVOR	WCB0 1656322.5		1542 A/FS8.3
6.1	1		FIRE SYSTEM CABINET	STREIVOR	LT-30-R		100
7	1		SINK, HAND, WALL MOUNT	EAGLE GROUP/METAL MASTERS	HSAP-14-ADA-FW		57 B/FS8.2
8	1		SERVING COUNTER	FABRICATED ITEM	CUSTOM		440 L/FS8.1
9	1		SNEEZE GUARD	PMG			100
10	1		DROP-IN, HOT WELLS	DUKE MANUFACTURING	WWG4		115
10.1	1		SNEEZE GUARD	PMG	FM2N-A	W/ REVERSABLE ENDS	200
11	3		DRY STORAGE SHELVING	METRO	A2454NC	SHELVING CAPACITY 3200 LBS	24.5 D/FS8.2
12	1		DRY STORAGE SHELVING	METRO	A2460NC	SHELVING CAPACITY 2400 LBS	27.4 D/FS8.2
13	1		UPPER STORAGE CABINET FOR CLEANING SUPPLIES	ADVANCE TABCO	WCH-15-36		121 H/FS8.1
14	1		MOP RACK	ADVANCE TABCO	K-242		2
15	1		MOP DRAINAGE TRAY	ADVANCE TABCO	K-243		3
16	4	X	RACK, PAN				
17	1	X	MILK COOLER				
18	1	X	CABINET, MOBILE, WARMING HOLDING	CRES COR	H-137-PSUA-12D		
19	1	X	CABINET, MOBILE, WARMING HOLDING	CRES COR	H-137-UA-12D		
20	1	X	MOBILE WORK TABLE 24\"/>				

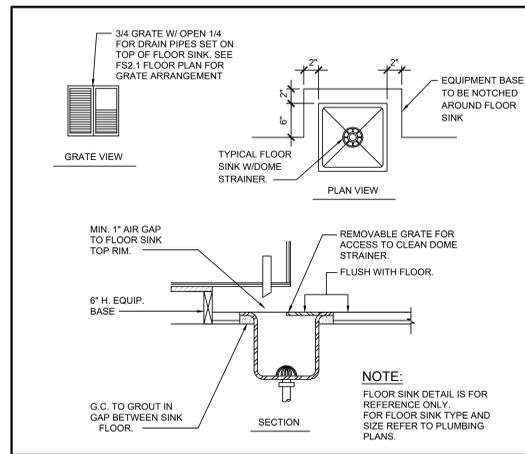




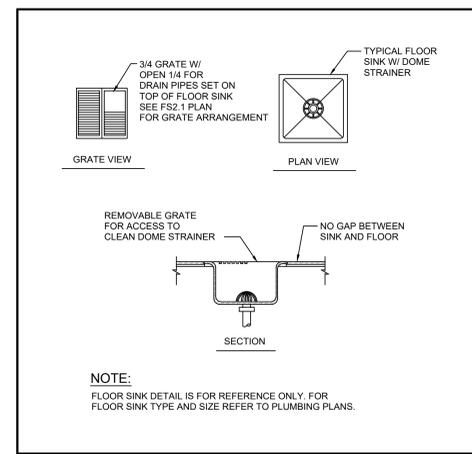
PLUMBING SCHEDULE														
PLUM. NO.	ITEM. NO.	DESCRIPTION	QTY.	WATER			WASTE			GAS			REMARKS	NOTE(S)
				CONN. SIZE C.W.	H.W.	HGT. WALL	CONN. SIZE DIR.	INDIR.	HGT. WALL	BTU/HR (1,000)	CONN. SIZE	HGT. WALL		
P1	-	FLOOR SINK	4EA.	-	-	-	-	-	0"	-	-	-	INSTALL FLUSH WITH FINISH FLOOR. PROVIDE GRATE COVER W/ DOME STRAINER. REFER TO PLUMBING PLANS FOR TYPE AND SIZE.	
P2	2	PREP SINK FAUCET W/ 8" CENTER SPLASH MOUNT	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)	
P3	3	COMBI OVEN FILTER CONNECTION	2EA.	1/2"	-	64" / 36"	-	2"	-	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. PROVIDE 2" INDIRECT DRAIN TO F.S. P1. (CHROME OR PAINT SILVER)	1, 2
P4	7	WALL MOUNTED HAND SINK FAUCET W/ 12" INLET 4" CENTER	1EA.	1/2"	1/2"	18"	1 1/2"	-	24"	-	-	-	PROVIDE S.O.V., RUN PIPING TO UNIT CONNECTION. RUN DIRECT WASTE WITH P-TRAP.	
P5	23	WALK-IN REFRIGERATOR CONN. DRAIN FROM COIL CONN. 70"	1EA.	-	-	-	-	1"	-	-	-	-	1" INDIRECT DRAIN TO F.S. P1. SLOPE 1/2" PER FOOT. PROVIDE 1" MIN AIR GAP AT F.S. WITH 'P' TRAP.	

PLUMBING KEY NOTE(S):

- ONE CONNECTION REQUIRED PER FILTER. 1 FILTER FEEDS 1 DOUBLE STACK UNIT/ PLUMBED WITH Y CONNECTION FROM THE OUTLET SIDE OF FILTER TO THE INLET SIDE OF COMBI OVEN. 1 ARM GOES TO TOP UNIT 1 TO BOTTOM UNIT.
- VERIFY WATER QUALITY MEETS MANUFACTURERS STANDARD MINIMUM REQUIREMENTS

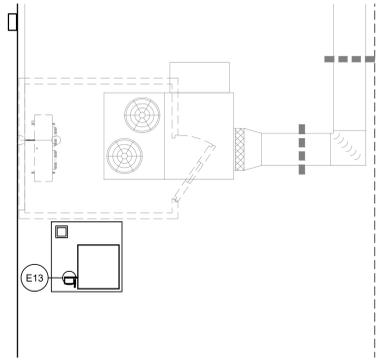
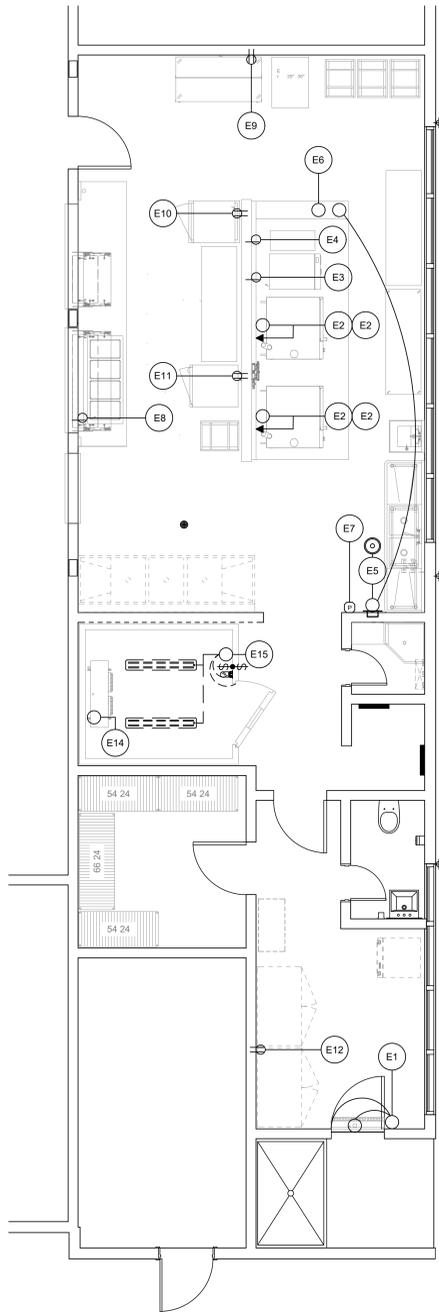


**FLUSH FLOOR SINK DETAIL** 2  
 SCALE: NONE LOCATED UNDER WORK COUNTERS FS2.1



**FLUSH FLOOR SINK DETAIL** 3  
 SCALE: NONE FS2.1





### ELECTRICAL SCHEDULE

ELEC. NO.	ITEM NO.	DESCRIPTION	QTY.	VOLT.	PH.	DIREC. PLUG	NEMA	LOAD			OUTLET HEIGHT	REMARKS	NOTE(S)	
								WATT	AMPS. DRAW	HP				
E1	1	AIR CURTAIN, UNHEATED	1EA.	120	1	X	-	-	3.4	-	88"	PROVIDE -BOX IN WALL INSTALL DOOR LIMIT SWITCH FOR INSTANT ON/OFF SWITCH REFER TO C/FSS.2		
E2	3	DOUBLE STACK COMBI OVEN ELECTRIC POWER AND DATA	4EA.	208/240	3	X	-	-	70	-	48" 24"	PROVIDE -BOX CONNECT TO UNIT ELECTRICAL CONN. (1 CONN. PER DECK) PROVIDE DATA PLUG IN WALL 1-PER DECK FOR A TOTAL OF 2	③ ⑥	
E3	4	ELECTRIC GRIDDLE	1EA.	208	3	-	X	15-50P	-	27	-	24"	PROVIDE SIMPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET	③
E4	5	INDUCTION COOK TOP	1EA.	240	1	-	X	6-50P	-	32	-	48"	PROVIDE SIMPLEX RECEPTACLE UNIT PROVIDED WITH CORD AND PLUG SET	③
E5	6	EXHAUST HOOD CONTROL POWER AND ROOM TEMPERATURE SENSOR	1EA.	120	1	X	-	-	-	20	-	48"	CONNECT TO DEMANDAIRE CONTROL PANEL RECESS IN WALL REFER TO FSS.2	
E6	6.1	EXHAUST HOOD FIRE SYSTEM CONTROL POWER	1EA.	120	1	X	-	-	-	20	-	104"	PROVIDE -BOX CONNECT TO UNIT ELECTRICAL CONNECTION REFER TO FSS.3 INTERCONNECTION REQUIREMENTS	
E7	6.1	FIRE SYSTEM (REMOTE PULL STATION)	1EA.	-	-	X	-	-	-	-	-	48"	EMPTY FLUSH MTD. OCTAGONAL BOX (REMOTE PULL) SEE FSS.3	④
E8	10	DROP-IN HOT WELLS	1EA.	208	1	-	X	6-20P	-	9.6	-	18"	PROVIDE SIMPLEX RECEPTACLE PROVIDED WITH CORD AND PLUG SET	
E9	17	MILK COOLER EXISTING RELOCATED	1EA.	-	-	-	-	-	-	-	-	18"	EXISTING EQUIPMENT VERIFY UTILITY REQUIREMENTS	
E10	18	MOBILE HOLDING CABINET	1EA.	120	1	-	X	5-20P	-	16	-	48"	EXISTING EQUIPMENT VERIFY UTILITY REQUIREMENTS (PROVIDE DUPLEX RECEPTACLE, UNIT PROVIDED WITH CORD AND PLUG SET)	
E11	19	MOBILE HOLDING CABINET	1EA.	120	1	-	X	5-15P	-	12	-	48"	EXISTING EQUIPMENT VERIFY UTILITY REQUIREMENTS (PROVIDE DUPLEX RECEPTACLE, UNIT PROVIDED WITH CORD AND PLUG SET)	
E12	22	FREEZER, REACH IN EXISTING RELOCATED	1EA.	-	-	-	-	-	-	-	-	86"	EXISTING EQUIPMENT VERIFY UTILITY REQUIREMENTS (PROVIDE DUPLEX RECEPTACLE, UNIT PROVIDED WITH CORD AND PLUG SET)	
E13	23	REMOTE REFRIGERATION LOCATED ON ROOF	1EA.	208	3	X	-	-	-	8	-	8"	CONNECT TO DISCONNECT LOCATED ON REFRIGERATION RACK REFER TO FSS.1 REMOTE REFRIGERATION LOCATED ON BUILDING ROOF	
E14	24	WALK-IN REFRIGERATOR (COIL)	1EA.	120	1	X	-	-	-	1.8	-	74"	CONNECT TO UNIT ELECTRICAL CONNECTION AT COIL INSIDE WALK-IN REFRIGERATOR.	
E15	24	WALK-IN REFRIGERATOR (BOX)	1EA.	120	1	X	-	-	-	4.0	-	88"	(2) 39W LED CLG. MTD. LIGHT FIXTURES (1) 11.5W LED LIGHT FIXTURE AT DOOR. CONTRACTOR TO PROVIDE ALL INTERCONNECTIONS.	

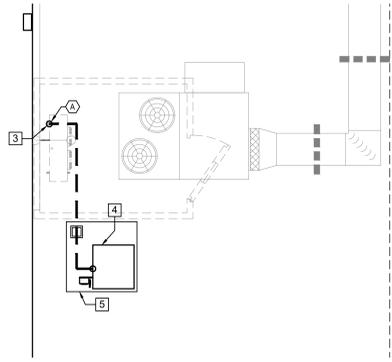
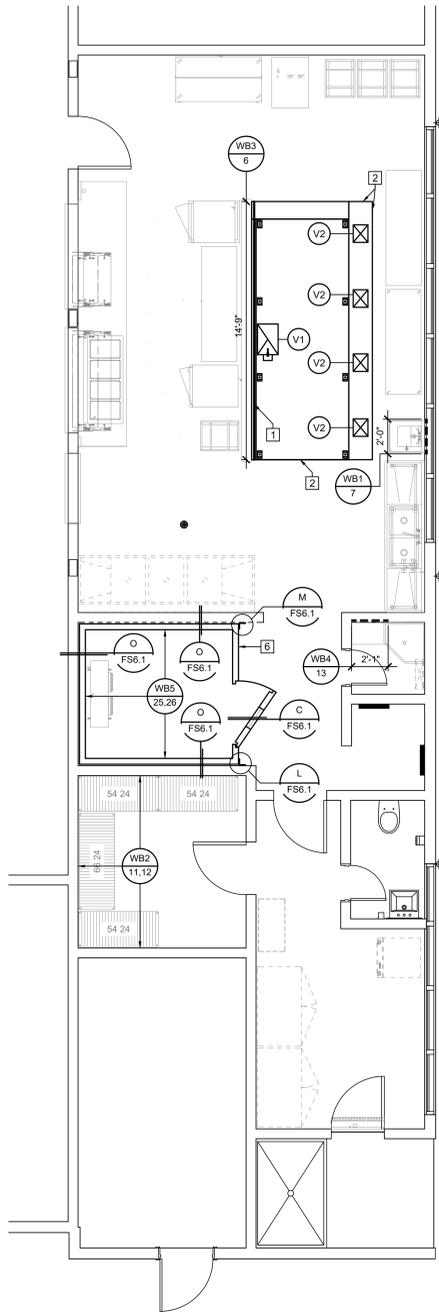
**WALK-IN REFRIGERATION ELECTRICAL (MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE)**

- INTER WIRE THE TIME CLOCK ON THE CONDENSING UNIT TO THE DEFROST RELAY ON THE UNIT EVAPORATOR LOCATED IN THE FREEZER COMPARTMENT.
- PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM WITH ALL CONDUIT IN SO FAR AS POSSIBLE MOUNTED ON THE EXTERIOR CEILING OF THE WALK-IN ASSEMBLY. PENETRATIONS AND ESCUTCHEON PLATES SHALL BE FURNISHED AND INSTALLED. SEAL THE INSIDE OF CONDUITS WHICH PENETRATE THE CEILING OR WALL OF THE WALK-IN REFRIG. AND FREEZER

**ELECTRICAL KEYNOTES:**

- INTERCONNECT REMOTE REFRIGERATION SYSTEM ITEM NO. 47 TO BLOWER COIL
- INTERCONNECT TO HMI TOUCH SCREEN SEE FSS.2
- PROVIDE INTERLOCK WIRING FROM FIRE PROTECTION SYSTEMS TO ELEC. SHUNT TRIP BREAKERS
- PROVIDE EMPTY FLUSH MTD. OCTAGONAL BOX 48" AFF. W/ EMPTY CONDUIT TO 2" ABOVE CEILING.
- ELECTRICAL CONTRACTOR TO PROVIDE -BOX W/ EMPTY CONDUIT FROM 2" ABOVE CEILING IN WALL TO AMBIENT TEMPERATURE MONITOR AND HMI TOUCH SCREEN.
- AMPS SHOWN ARE PER DECK BOTTOM DECK CONNECTION 24" AFF TOP DECK 48" AFF. TWO CONNECTIONS IN TOTAL.





VENTILATING REQUIREMENTS										
DUCT NO.	ITEM NO.	DESCRIPTION	ITEM QTY.	RISER SIZE			CFM	S.P.-WC"	OUTLET HEIGHT	REMARKS
				HEIGHT	WIDTH	LENG.				
V1	6	EXHAUST DUCT EXHAUST HOOD	1EA.	8"	21"	14"	2888	.63	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FS5.1 FOR EXHAUST HOOD DETAILS
V2	6	SUPPLY DUCT EXHAUST HOOD	4EA.	3"	12"	10"	577	.40	108"	MAKE DUCT CONNECTION AT HOOD COLLAR REFER TO FS5.1 FOR EXHAUST HOOD DETAILS

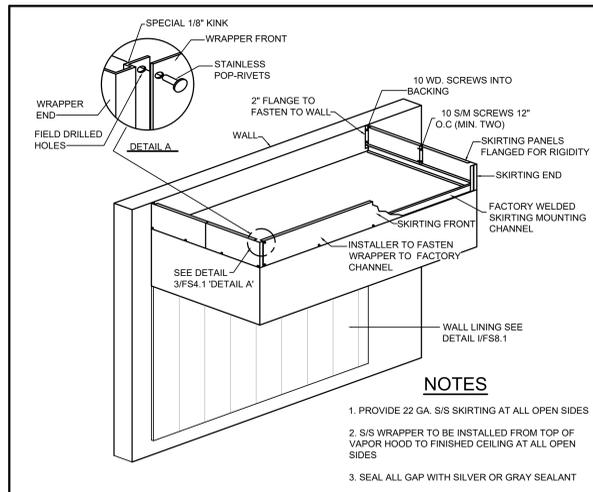
COOKING EXHAUST HOOD NOTES	
1. - EACH AREA CONTAINING COOKING EXHAUST HOOD(S) WILL HAVE 80% MECHANICAL MAKE-UP AIR PROVIDED IN THE VOLUME OF THE AIR BEING EXHAUSTED.	5. - LOCATION OF COOKING HOOD EXHAUST DUCT(S) AND MAKE-UP AIR SYSTEM DUCT(S) ARE TO BE VERIFIED AT THE JOB SITE.
2. - MAKE-UP AIR SHALL BE DELIVERED IN THE PROXIMITY OF THE EXHAUST HOOD(S) IN A MANNER NOT TO CREATE UNDESIRABLE AIR TURBULENCE IN THE WORKING AREAS.	6. - IF REQUIRED BY LOCAL CODE(S), MAKE-UP AIR SYSTEM(S) SHALL BE CAPABLE OF DELIVERING TEMPERED AIR AT 70 DEGREES F.
3. - COOKING HOOD(S) EXHAUST AND MAKE-UP AIR SYSTEM(S) WILL BE CONNECTED BY AN ELECTRICAL INTER-LOCKING SWITCH.	7. -CONNECTING DUCTS FROM THE EXHAUST VENTILATORS TO THE EXHAUST AND/OR MAKE-UP AIR FANS SHALL BE SUPPLIED AND INSTALLED WITH ALL FINAL CONNECTIONS.
4. - MAKE-UP AIR INTAKE MUST CLEAR AIR EXHAUST DISCHARGE BY A MINIMUM OF TEN (10) FEET, OR AS REQUIRED BY CODE(S).	8. -PERFORMANCE TESTING FOR THE OPERATION OF THE TYPE 1 EXHAUST HOOD PER C.M.C. IS REQUIRED
	9. -EXTRACTOR HOODS SHALL COMPLY TO THE C.M.C 2022, NFPA-2020, U.L., N.S.F. AND ALL LOCAL CODES AN ORDINANCES.

WALL BACKING NOTES	
1. - WALL BACKING TO BE 16 GAUGE GALV. STEEL IN LENGTH AND HEIGHT AS SHOWN ON DRAWINGS.	
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. EXTEND BACKING TO NEXT STUD EACH DIRECTION AS NECESSARY	

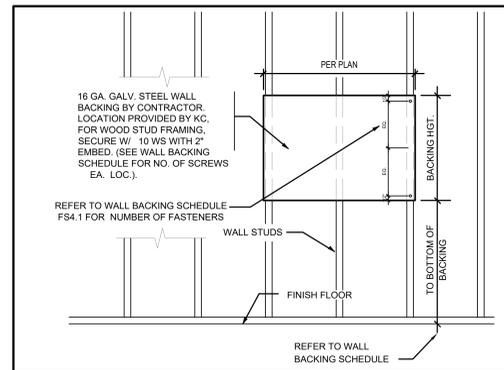
REFRIGERATION LINE NOTES	
CONTRACTOR TO VERIFY REMOTE REFRIGERATION LINE RUN LENGTH IF LINES EXCEED 150FT THEN OIL SEPARATORS TO BE ADDED PER MANUFACTURER RECOMMENDATIONS	

WALL BACKING SCHEDULE					
	APPLICATION	BOTTOM OF BACKING	BACKING HGT.	FASTENERS PER STUD	ANCHORAGE DETAIL
WB7	HAND SINK	16" AFF	26" HIGH	4	B/FS8.2
WB2 11,12	DRY STO. SHELVING	69" AFF	12" HIGH	2	D/FS8.2
WB3 6	WALL LINING	76" AFF	4" HIGH	2	I/FS8.1
		53" AFF			
		29" AFF			
WB4 13	WALL MTD. CABINET	60" AFF	20" HIGH	3	H/FS8.1
WB5 25,26	COLD STO. SHELVING	69" AFF	12" HIGH	2 PER POST BRACKET	K/FS8.2
		16" AFF			

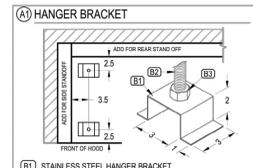
NOTES:  
 1. BACKING TO BE 16 GA. G.I. OR C.R.S.  
 2. REFER TO I/FS4.1 FOR WALL BACKING LOCATIONS  
 3. DRY STO. SHELVING, FASTEN SHELVING TO BACKING WITH 14 SMS.



**CLOSURE SKIRTING AT HOOD**  
 SCALE: NONE



**WALL BACKING DETAIL**  
 SCALE: NONE



1) STAINLESS STEEL HANGER BRACKET  
2) 1/2" THREADED ROD  
3) 3/4" HEAVY DUTY LOCK NUTS, (1) ABOVE (1) BELOW  
(THREADED ROD & LOCK NUTS NOT PROVIDED)

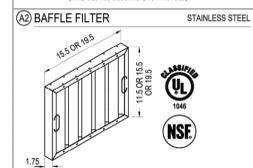
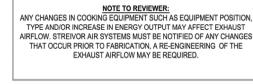
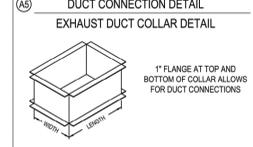
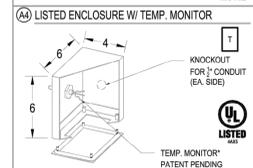
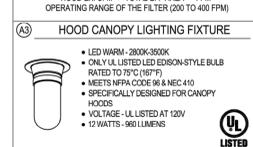
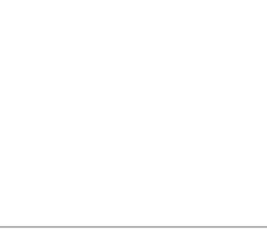
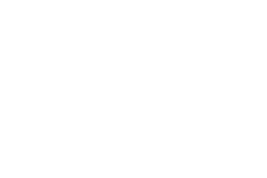
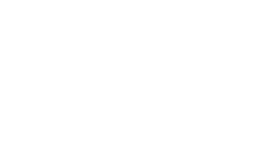
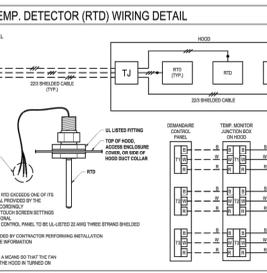
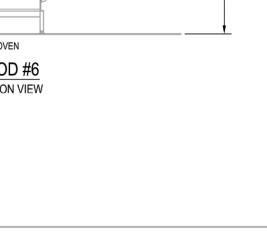
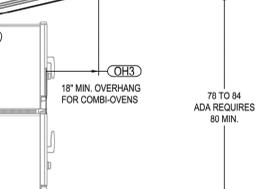
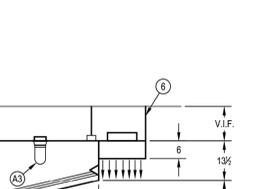
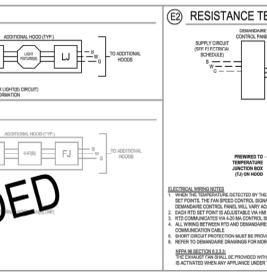
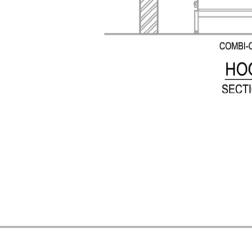
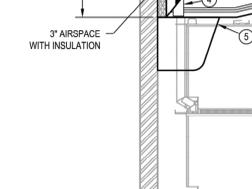
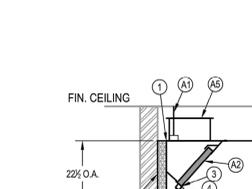
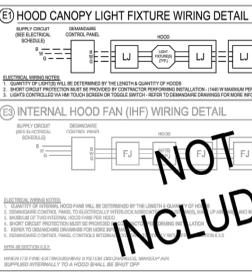
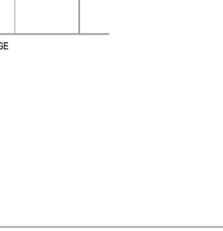
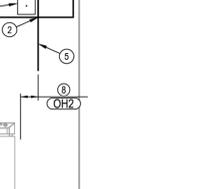
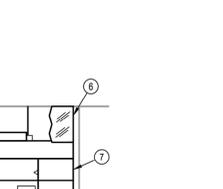
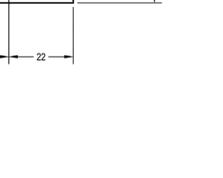
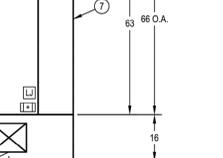
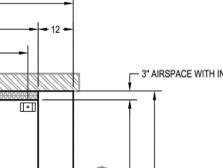
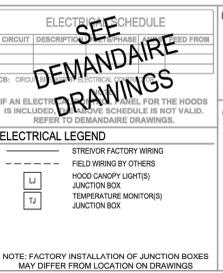
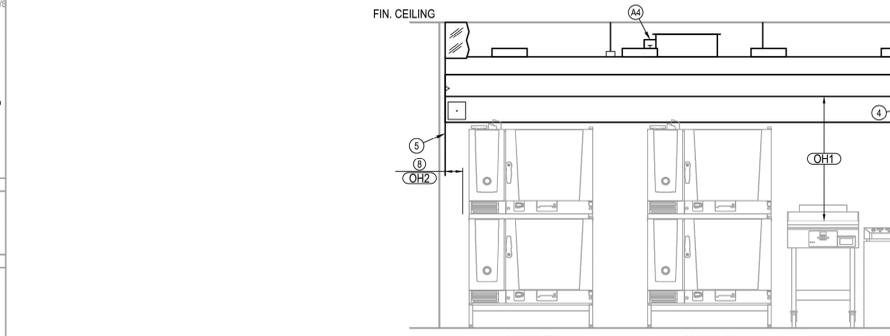
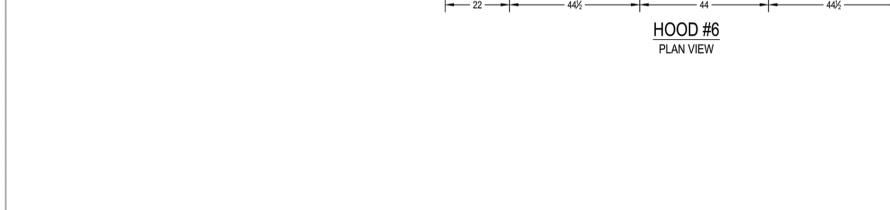
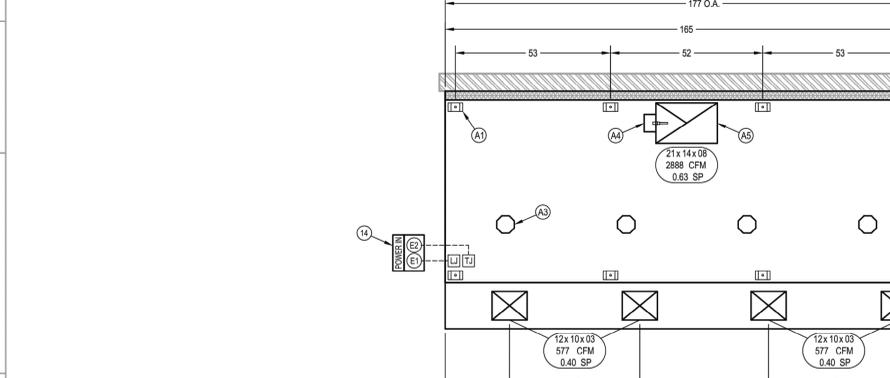


Table with columns: FILTER, H x L, EFF AREA, QTY, AREA, QTY, AREA. Includes total eff area calculation: HOOD EX. CFM = TOTAL EFF AREA = FPM OPERATING RANGE OF THE FILTER (200 TO 400 FPM).



HOOD SCHEDULE table with columns: NO., MODEL, L, W, H, WEIGHT, SPEC. CFM, SP, CFM/FT, MIN., MAX., SIDE, FRONT, MAX. Includes model WCLC 1656322.5.

HOOD CANOPY MATERIAL: ALL 304 SERIES STAINLESS STEEL  
HOOD SCHEDULE table with columns: NO., MODEL, L, W, H, WEIGHT, SPEC. CFM, SP, CFM/FT, MIN., MAX., SIDE, FRONT, MAX.



GENERAL NOTES:  
NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS) STREIVOR STAINLESS IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

PRE - INSTALLATION  
OBTAIN, READ AND UNDERSTAND STREIVOR'S HOOD INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, STARTUP OR BALANCING.

INSTALLATION  
ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.

STANDARD NFPA HOOD CLEARANCES  
3' TO NON-COMBUSTIBLE MATERIALS  
18" TO COMBUSTIBLE MATERIALS  
OVERHEAD CLEARANCES  
10' CLEARANCE IS REQUIRED ABOVE THE HOOD

REDUCED CLEARANCES  
REDUCED CLEARANCES MAY BE AVAILABLE. CONSULT FACTORY FOR REDUCED CLEARANCE OPTIONS.  
TEST AND BALANCE  
THE SPECIFIED EXHAUST CFMS LISTED ON THIS DRAWING MUST BE MET DURING TEST AND BALANCE OF THE HOOD SYSTEM(S).

VARIANCE EXHAUST ± 0% - 15%  
VARIANCE SUPPLY ± 10% - 40%

STREIVOR™ AIR SYSTEMS  
"STRIVING FOR EXCELLENCE"  
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551  
PHONE: (925) 960-9090 FAX: (925) 960-9055  
WWW.STREIVOR.COM

Table with columns: HOOD #, DATE, DRAWN BY, CHECKED BY, CONSULTANT, SCALE, DESCRIPTION, DATE, INT. Includes project name ALICE ES and sheet title H-01.

CALIFORNIA DESIGN WEST ARCHITECTS, INC.  
2100 19th Street  
Sacramento, CA 95818  
Phone: (916) 446-2466  
Fax: (916) 446-5118  
Web Page: ca-dw.com

ARCHITECT CONSULTANT:  
ARCHITECT CONSULTANT:

LICENSED ARCHITECT  
M. J. MALLIN  
NO. C-12250  
STATE OF CALIFORNIA

CONSULTANT:  
AMD FOODSERVICE DESIGN

PROJECT NAME:  
ALICE BIRNEY TK-8

6254 13TH STREET  
SACRAMENTO, CA 95831  
CAMPUS RENEWAL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
SACRAMENTO COUNTY

KEY PLAN:  
FOODSERVICE EXHAUST HOOD DETAILS

OB NUMBER: SHEET NUMBER:  
DATE: FS.5.1  
REVISION:

**LISTINGS & STANDARDS**

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES. IT IS LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2017 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2017 EDITION



**SECTIONS & CODES**

- NFPA 96 2017 EDITION**
- (8.4.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S).
- NFPA 17A 2017 EDITION**
- (8.2.3.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN (1200 MM) AND NO LESS THAN 42 IN (1067 MM) ABOVE THE FLOOR.
- NFPA 96 2017 EDITION**
- (8.2.3.1) BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.
- (8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.
- (8.3.2) WHEN THE FIRE EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.
- (10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL, AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.
- (10.4.3) ANY GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM.
- (10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESET.
- (10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE IDENTIFIED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE A.H.J.
- (10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.
- IBC 2018 EDITION**
- (911.6) MANUAL ACTUATION SHALL BE ACCESSIBLE IN THE EVENT OF A FIRE, NOT LESS THAN ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED NOT LESS THAN 4 FEET (1219 MM) AND NOT MORE THAN 20 FEET (6096 MM) FROM THE PROTECTED EXHAUST SYSTEM(S). (IBC 2018, 904.12.1)

**INSTALLATION REQUIREMENTS**

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON CHROME PLATED/BEVELED WHERE EXPOSED.
2. ALL CYLINDER SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 1/2" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/8" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. ALL LISTED CONDUIT PULLEYS REQUIRED WHENEVER THE STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR (NOT BY STREVDOR).
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 10° ROTATION.

**SYSTEM #1**

PAGE NUMBERS REFERENCED FROM THE ANSUL R-102 FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL

CABLE/LINE LIMITATIONS	LENGTH	PULLEYS	BRACKETS
FUSIBLE LINK (pg. 4-71)	MAXIMUM 150.00 FT ALLOTTED 15.00 FT	20 3	15 2*
PULL STATION(S) (pg. 4-73)	MAXIMUM 150.00 FT ALLOTTED 20.00 FT	20 2	N/A N/A
GAS VALVE(S) (pg. 4-14)	MAXIMUM 150.00 FT ALLOTTED --- FT	20 --	N/A N/A
GAS CARTRIDGE(S) (pg. 4-51)	MODEL LT-30-2 PART NUMBER 423430	-- --	-- --

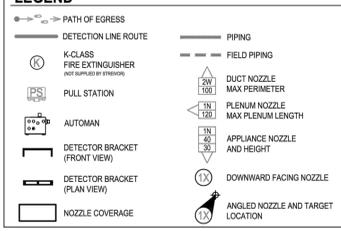
**CYLINDER #1**

ZONE COVERAGE	COVER DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
<input type="checkbox"/> DUCT	2W	1	2	4-1	
<input type="checkbox"/> PLENUM	1N	2	2	4-5	
<input type="checkbox"/> RANGE	1F	2	2	4-17	
<input type="checkbox"/> GRIDDLE	2B0	1	2	4-19	
<b>TOTAL FLOW POINTS</b>					8

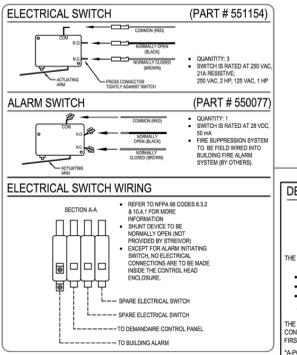
**PIPING LIMITATIONS**

CYLINDER	FLOW POINTS	SUPPLY	DUCT	PLENUM	EQUIP.	FIRST TO LAST	
3 GAL	MAXIMUM	11	40 FT	8 FT	4 FT	12 FT	24 FT
	ALLOTTED	8	13 FT	4 FT	1 FT	3 FT	11 FT

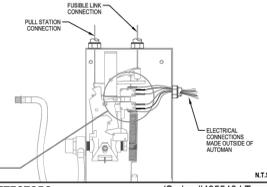
**LEGEND**



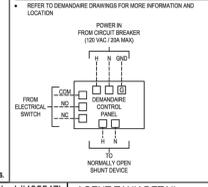
**MECHANICAL AUTOMAN (PART #79493) & ELECTRICAL WIRING**



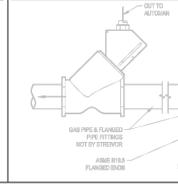
**DEMANDAIRE CONTROL PANEL**



**MECHANICAL GAS SHUT-OFF VALVE & FLANGED Y-STRAINER**



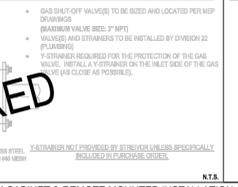
**PULL STATION (PART #434618)**



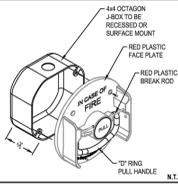
**PULL STATION INSTALLATION (RECESSED)**



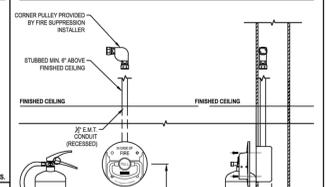
**DETECTORS** (Series #435546 | Terminal #435547)



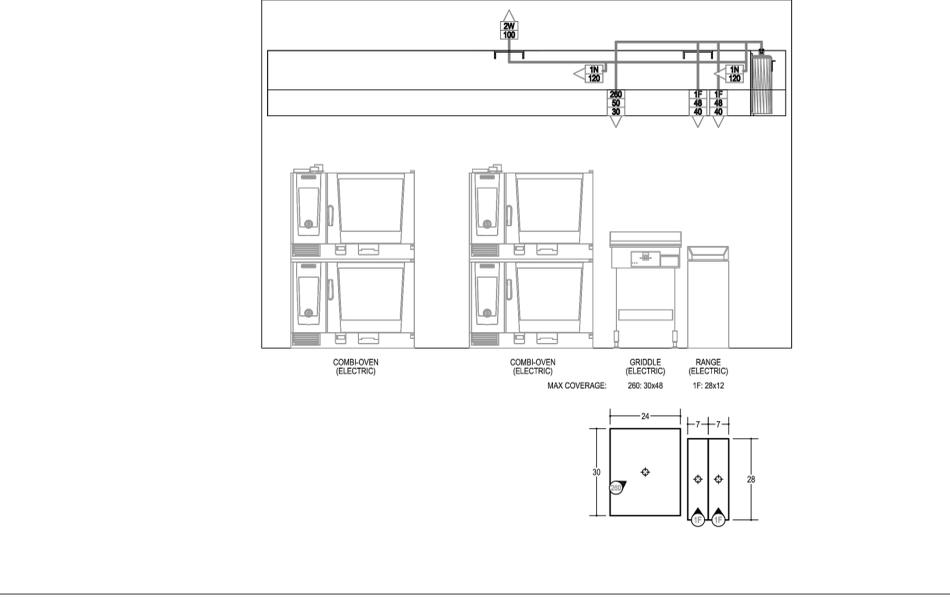
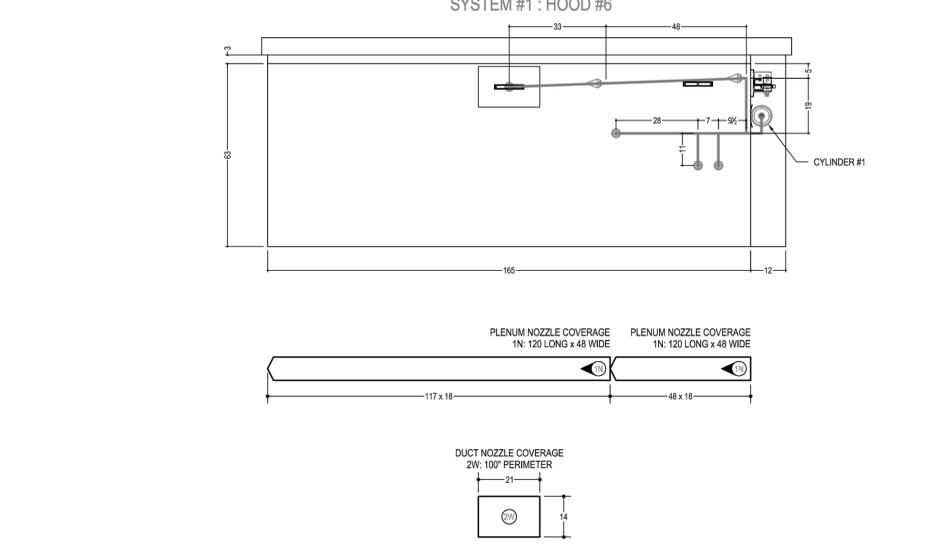
**AGENT TANK DETAIL**



**FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION**



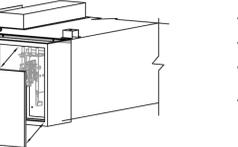
**SYSTEM #1 : HOOD #6**



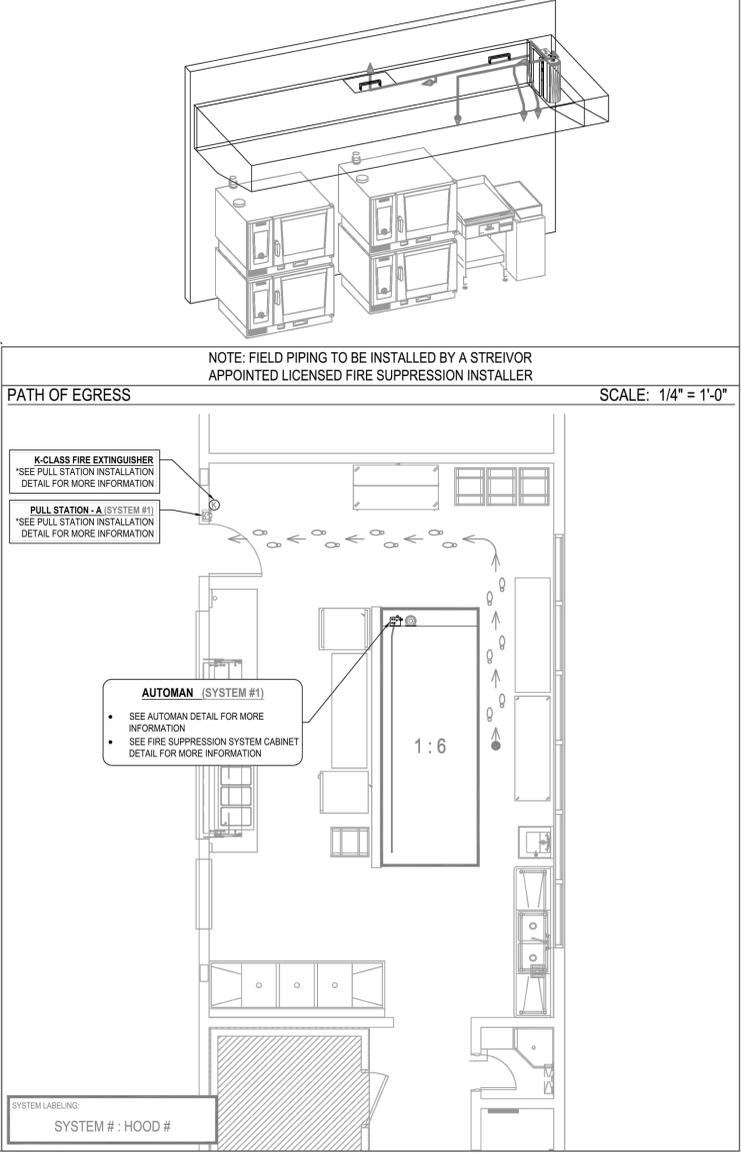
**NOT REQUIRED**



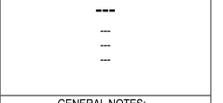
**FIRE SUPPRESSION SYSTEM CABINET & REMOTE MOUNTED INSTALLATION**



**NOTE: FIELD PIPING TO BE INSTALLED BY A STREIVOR APPOINTED LICENSED FIRE SUPPRESSION INSTALLER**



**INSTALLER**



**GENERAL NOTES:**

NOTE TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. DETECTOR AND SYSTEMS VENTILATION SYSTEMS, AND ALSO MAY PROVIDE TO THE ARCHITECT OR ENGINEER.

THESE WERE DEVELOPED BY THE ARCHITECT AND CONTRACTOR AND ARE SUBJECT TO THE ARCHITECT'S AND CONTRACTOR'S APPROVAL. ALL MEASUREMENTS ARE TO BE TAKEN FROM THE FINISHED SURFACE UNLESS OTHERWISE SPECIFIED.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY AN ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES ON SUBCONTRACTS AND WILL NOT BE RESPONSIBLE FOR ANY CORRECTIONS OR REVISIONS OF THE WORK SHOWN UNLESS EXPRESSLY STIPULATED. NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY REUSE OF DESIGN INFORMATION OR REVISIONS UNLESS OTHERWISE SPECIFIED.

ANY ERRORS, OMISSIONS OR DISCREPANCIES IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTION BEFORE ANY OF THE WORK IS BEGUN. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY REUSE OF DESIGN INFORMATION OR REVISIONS UNLESS OTHERWISE SPECIFIED.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY AN ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES ON SUBCONTRACTS AND WILL NOT BE RESPONSIBLE FOR ANY CORRECTIONS OR REVISIONS OF THE WORK SHOWN UNLESS EXPRESSLY STIPULATED.

**STREIVOR™ AIR SYSTEMS**

**"STRIVING FOR EXCELLENCE"**

2150 KITTY HAWK ROAD, LIVERMORE, CA 94551  
PHONE: (925) 960-9090 FAX: (925) 960-9055  
WWW.STREIVOR.COM

**CUSTOMER APPROVAL**

**COOKING EQUIPMENT VERIFICATION**

VERIFY THE FOLLOWING:

HIGH BACK SHELVES YES  NO

RANGE COOKING SURFACE DEPTH GREATER THAN 28" YES  NO

PULL STATION LOCATION(S) YES  NO

UTILITY CABINET LOCATION(S) YES  NO

AGENT DISTRIBUTION HOSE AND RESTRAINING CABLE KIT YES  NO

CEILING HEIGHT \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

NOTE TO REVIEWER: ANY CHANGES TO COOKING EQUIPMENT SUCH AS EQUIPMENT MATERIAL, TYPE AND/OR INCREASE IN NUMBER OF PULL STATIONS MAY AFFECT COOKING EQUIPMENT VERIFICATION. A FIRE ENGINEERING OF THE EXHAUST APPLIANCE MAY BE REQUIRED. ADDITIONAL FIELD TEST FOR FIRE SUPPRESSION THE TEST IS NOT INCLUDED UNLESS SPECIFICALLY LISTED IN QUOTE.

PROJECT: **ALICE ES**

AMD FOODSERVICE DESIGN

ITEM #	DESCRIPTION	DATE	INT
1	EXHAUST COLLAR QUANTITY	12/19/23	KCS
2	REVISED TO WCLG	12/19/23	KCS
3			
4			
5			

**F-01**

SHEET 01 OF 01

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**California WEST**

CALIFORNIA DESIGN WEST ARCHITECTS, INC.

2100 19th Street Sacramento, CA 95818

Phone: (916) 446-2466  
Fax: (916) 446-5118  
Web Page: ca-dw.com

ARCHITECT: \_\_\_\_\_ CONSULTANT: \_\_\_\_\_

LICENSED ARCHITECT  
WITH THE STATE OF CALIFORNIA  
NO. C-12290  
JANUARY 1988  
JULY 1990

CONSULTANT:

**AMD**  
FOODSERVICE DESIGN

PROJECT NAME: **ALICE BIRNEY TK-8**

6254 13TH STREET SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:

FOODSERVICE EXHAUST HOOD DETAILS

OB NUMBER: \_\_\_\_\_ SHEET NUMBER: **FS.5.2**

DATE: \_\_\_\_\_ REVISION: \_\_\_\_\_

**GENERAL NOTES**

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS. THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING. STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN. ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

**PRE-INSTALLATION**

OBTAIN, READ AND UNDERSTAND STREIVOR'S DEMANDAIRE INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, OR STARTUP OR BALANCING.

**INSTALLATION**

ALL INSTALLATION AND STARTUP MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.

**WIRING NOTES**

1. FIELD WIRING TERMINALS USE COPPER WIRE ONLY
2. WIRE MUST BE RATED UP TO 600V
3. WIRE TEMPERATURE RATING 60° C MIN
4. LARGE TERMINAL BLOCK TIGHTENING TORQUE 1.5 - 1.8 (NM)
5. SMALL TERMINAL BLOCK TIGHTENING TORQUE 0.5 - 0.8 (NM)
6. SHIELDS OF SHIELDED CABLES MUST BE GROUNDED ON ONE SIDE

**COMMISSIONING NOTES**

IF COMMISSIONING IS INCLUDED, STREIVOR'S DEMANDAIRE PRE-COMMISSIONING CHECKLIST MUST BE SIGNED AND RETURNED BY THE CUSTOMER A MINIMUM OF 15 CALENDAR DAYS PRIOR TO THE REQUESTED COMMISSIONING DATE TO AVOID INCURRING ADDITIONAL TRAVEL AND/OR EXPEDITING COSTS

HOOD SCHEDULE				ELECTRICAL SCHEDULE			
HOOD	GROUP	SUPPLY FAN	EXHAUST FAN	FSS#	CIRCUIT DESCRIPTION	HP	VFD
6	---	SF-X	EF-X	1	CONTROL PANEL	---	---

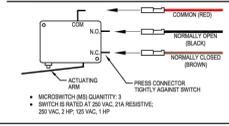
ELECTRICAL ROUGH-IN SCHEDULE			
ITEM	DETAIL	ROUGH-IN REQUIREMENTS	ELECTRICAL CONDUIT
DEMANDAIRE CONTROL PANEL	DCP	14 1/4" X 16 1/4" I.D. FRAMED OPENING	120 VAC, 24 VDC, 4-20 mA
AMBIENT TEMPERATURE MONITOR	ARTD	2" X 4" J-BOX	4-20 mA

REFER TO HOOD DRAWINGS FOR HOOD DETAILS  
CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR

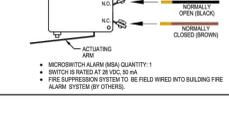
ELECTRICAL CONTRACTOR TO VERIFY ROUGH-IN LOCATION AND ELECTRICAL REQUIREMENTS



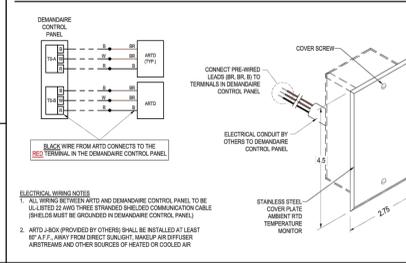
**ES ELECTRICAL SWITCH**



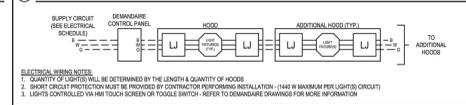
**AS ALARM SWITCH**



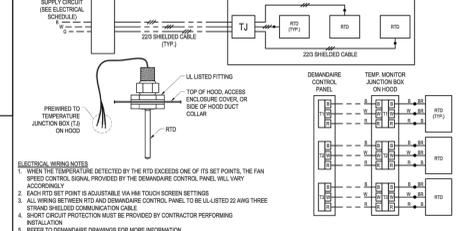
**ARTD AMBIENT RESISTANCE TEMPERATURE DETECTOR (ARTD)**



**HF HOOD CANOPY LIGHT FIXTURE WIRING DETAIL**



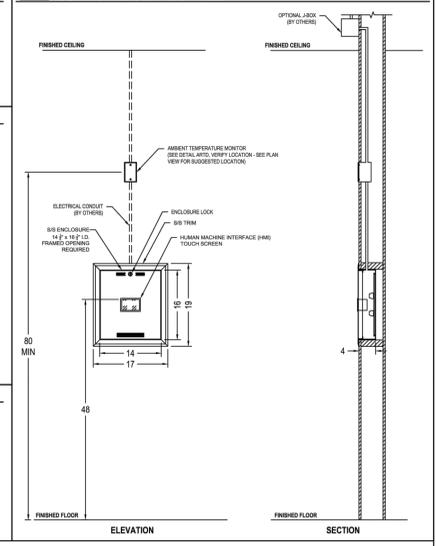
**RTD RESISTANCE TEMPERATURE DETECTOR (RTD) WIRING DETAIL**



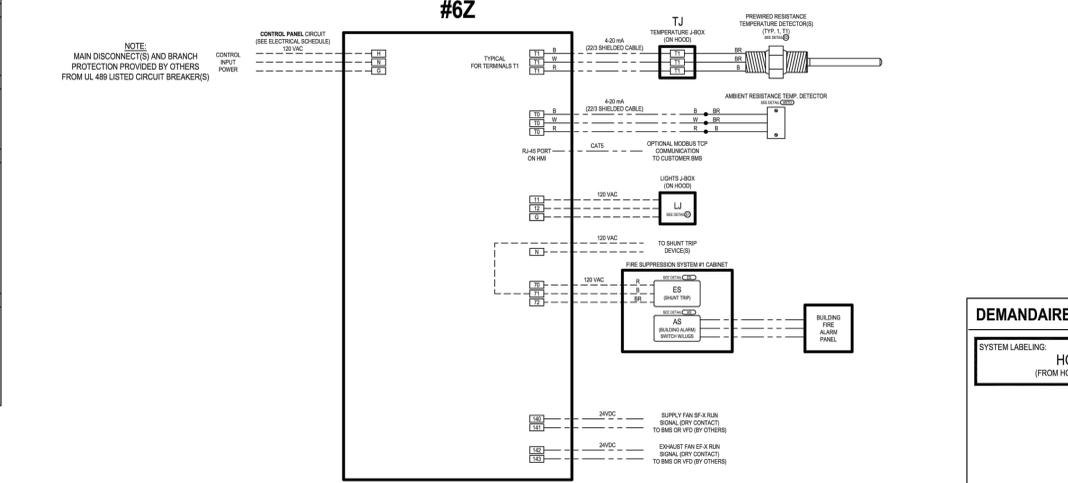
**HFV INTERNAL HOOD FAN (HFV) WIRING DETAIL**



**DCP DEMANDAIRE CONTROL PANEL**



**DEMANDAIRE BRONZE CONTROL PANEL #6Z WIRING DIAGRAM**

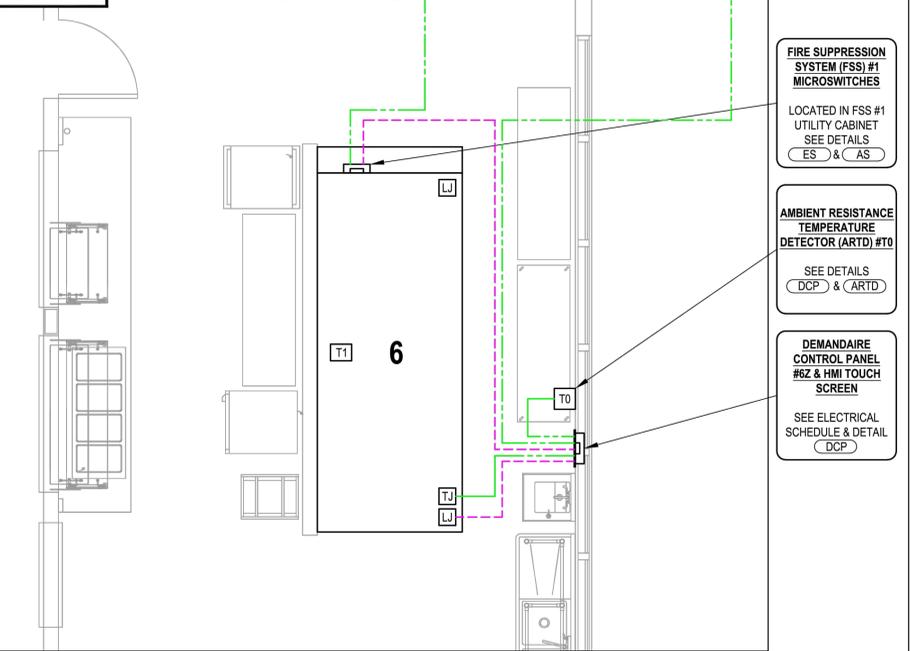


NOTE: DEMANDAIRE CONTROL PANEL ENCLOSURES REQUIRE 36 INCHES MINIMUM OF CLEAR SPACE IN FRONT OF THE DOOR

**BUILDING FIRE ALARM**  
NPPA 96 - 10.6.2: WHERE A FIRE ALARM SIGNALING SYSTEM IS SERVING THE OCCUPANCY WHERE THE EXTINGUISHING SYSTEM IS LOCATED, THE ACTIVATION OF THE AUTOMATIC FIRE-EXTINGUISHING SYSTEM SHALL ACTIVATE THE FIRE ALARM SIGNALING SYSTEM. (SEE DETAIL - C-35)

**FAN MOTOR DRIVE(S)**  
FAN MOTOR DRIVE(S) TO BE SIZED LOCATED PER MEP DRAWINGS. FAN MOTOR DRIVE(S) NOT PROVIDED BY STREIVOR. SEE DEMANDAIRE WIRING DIAGRAM FOR TERMINAL LABELS AND QUANTITY OF CONTROL SIGNALS/CONTACTS. (FAN/BMS)

**DEMANDAIRE DESIGN PLAN**



**LEGEND**

- STREIVOR FACTORY WIRING
- HIGH VOLTAGE FIELD WIRING BY OTHERS
- 120V VAC FIELD WIRING BY OTHERS
- LOW VOLTAGE FIELD WIRING BY OTHERS
- 120V VAC ELECTRICAL CONDUIT (ELECTRICAL CONTRACTOR TO VERIFY QUANTITY AND SIZE)
- LOW VOLTAGE ELECTRICAL CONDUIT (ELECTRICAL CONTRACTOR TO VERIFY QUANTITY AND SIZE)
- HOOD CANOPY LIGHT(S) JUNCTION BOX
- TEMP. MONITOR(S) JUNCTION BOX
- INTERNAL HOOD FAN(S) JUNCTION BOX
- TEMPERATURE MONITOR
- VFD VARIABLE FREQUENCY DRIVE
- BMS BUILDING MANAGEMENT SYSTEM

**DRAWING APPROVAL**

THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

**VERIFY THE FOLLOWING:**

1. ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES.
2. FAN HORSEPOWER, VOLTAGE & PHASE IF VFD'S OR MOTOR STARTERS ARE PROVIDED BY STREIVOR.

**APPROVED FOR FABRICATION**

- APPROVED
- APPROVED AS NOTED
- REVISE & RESUBMIT

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_

**NOTE TO REVIEWER:**  
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION, AS RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

**STREIVOR™ AIR SYSTEMS**  
"STRIVING FOR EXCELLENCE"  
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551  
PHONE: (925) 960-9090 FAX: (925) 960-9055  
WWW.STREIVOR.COM

PROJECT: ALICE ES  
AMD FOODSERVICE DESIGN

SHORT CIRCUIT CURRENT RATING: 5KA RMS, 120V MAX  
"VERIFY JOB SITE REQUIREMENTS"

DESCRIPTION	DATE	INT
TEMPERATURE MONITOR QTY.	12/13/23	KCS

REVISION	DATE	BY

DRAWING: **DA-01**  
SHEET 01 OF 01  
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**California DESIGN WEST**  
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2100 19th Street  
Sacramento, CA 95818  
Phone: (916) 446-2466  
Fax: (916) 446-5118  
Web Page: ca-dw.com

ARCHITECT: \_\_\_\_\_ CONSULTANT: \_\_\_\_\_



CONSULTANT: **AMD FOODSERVICE DESIGN**

PROJECT NAME: ALICE BIRNEY TK-8

6254 13TH STREET  
SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

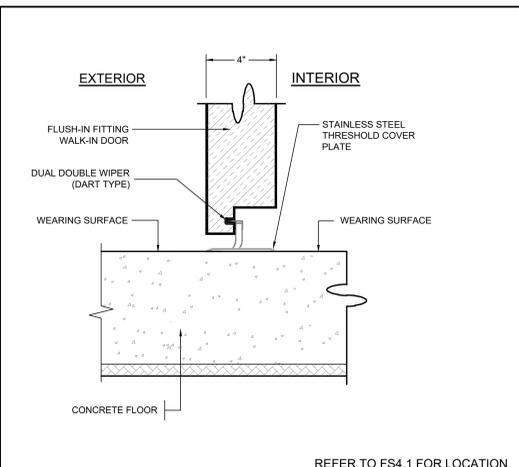
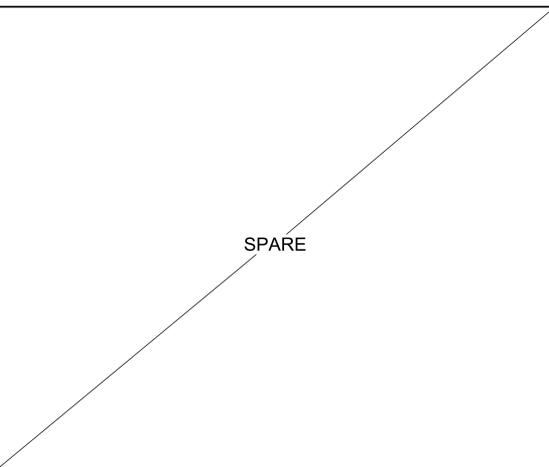
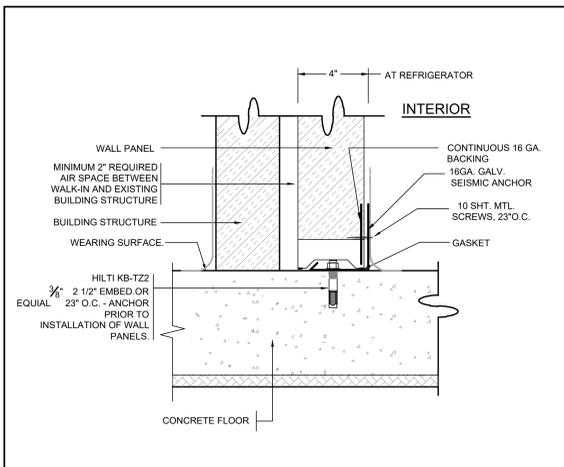
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE: **FOODSERVICE EXHAUST HOOD DETAILS**

OB NUMBER:	SHEET NUMBER:
DATE:	<b>FS5.3</b>
REVISION:	



APPLICATION - WALK-IN COOLER

4" HARD NOSE TONGUE GROOVE HIGH DENSITY URETHANE PERIMETER (CFC FREE) W/ SHT. MTL. FACING FLANGED 1/2" TO 3/4" PERIMETER OF EACH SHEET. CORNERS T-PANELS ONE-PIECE CONSTRUCTION W/ 1/2" RADIUS AT ALL INSIDE VERTICAL CORNERS. JOINTS SEALED W/ PVC GASKET AT INT. EXT. PERIMETER OF PANELS. PANELS RIGID CONNECTION W/ CAM-LOCK FASTENERS (WALL TO WALL: 48" O.C. MAX; WALL TO CEILING: 24" O.C. MAX; WALL TO FLOOR: 24" O.C. MAX., IF APPLY)

INSULATION - 4" THICK FOAMED IN PLACE HIGH DENSITY URETHANE (CFC FREE) FILLED, OVER 90 PERCENT CLOSED CELL CONTENT. LESS THAN 25 FLAME SPREAD IN ACCORD W/ UBC STD. 42-1 (BASED ON UL 723 WHICH IS SIMILAR TO ASTM E84 THE STEINER TUNNEL TEST) AND CLASS 'A' INTERIOR FINISH IN ACCORDANCE W/ NFPA 101, SECTION 6-2, AND NFPA 255. K-FACTOR NOT TO EXCEED 0.14 BTU/HOUR/SQ. FT./ F PER INCH THICKNESS IN ACCORDANCE W/ ASTM C177 AT 75 F MEAN TEMPERATURE. UL REPORT (BLBT.R13780) FOR SURFACE BURNING CHARACTERISTICS

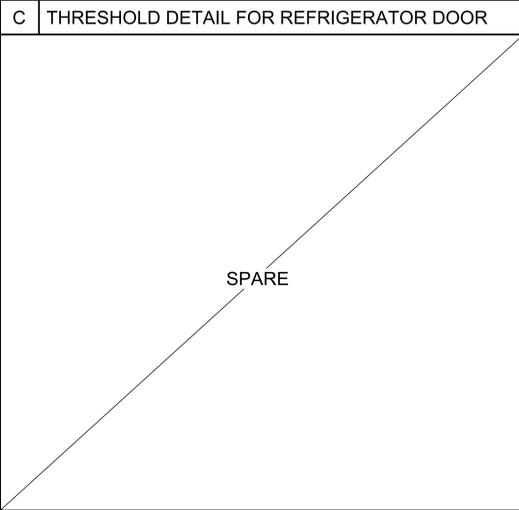
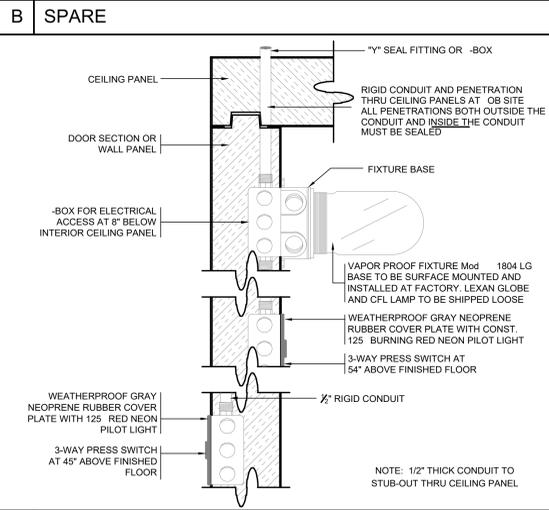
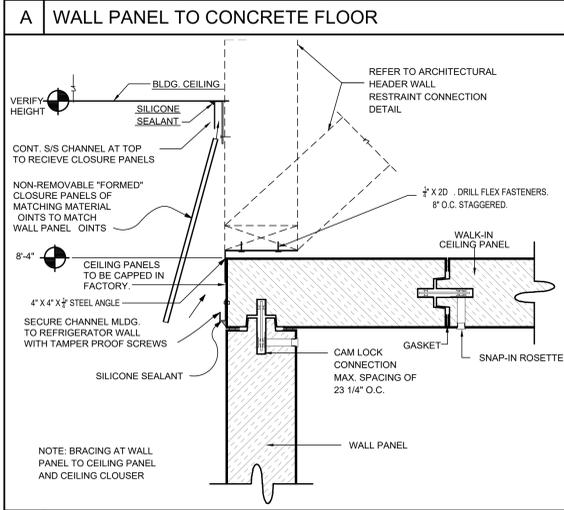
FINISH - WALL INTERIOR - .040 STUCCO EMBOSSED ALUMINUM WHITE FINISH  
 WALL EXTERIOR (EXPOSED) - 22GA. STAINLESS STEEL - TYPE 304, 4 FINISH  
 WALL EXTERIOR (UNEXPOSED) - 26GA. STUCCO EMBOSSED GALVANIZED STEEL  
 CEILING INTERIOR - .040 STUCCO EMBOSSED ALUMINUM WHITE FINISH  
 MAX. CEIL. PANEL DEFLECTION: NOT TO EXCEED 1/240 OF THE SPAN UNDER A LOADING OF 20 LBS/SQ. FT. W/ LATERAL FORCE CAPACITY IN ACCORDANCE W/ CBC SECTION 1630A.3

FLOOR INTERIOR - WEARING SURFACE TO BE SAME AS KITCHEN SEAMLESS THROUGHOUT COVERED UP ALL INTERIOR WALLS TO A HT. OF 6"

DOOR(S) - 1EA. 42" X 80" COOLER, FLUSH IN-FITTING DOOR W/ MAGNETIC GASKET  
 INTERIOR - 22GA. STAINLESS STEEL - TYPE 304, 4 FINISH  
 EXTERIOR - 22GA. STAINLESS STEEL - TYPE 304, 4 FINISH  
 DEAD BOLT - NONE  
 HANDLE - K27 W/ INSIDE SAFETY RELEASE DEAD BOLT LATCH  
 HINGES - (2) K1245 (1) K1248-SPRING LOADED  
 CLOSER - RACK PINION  
 HEATER CABLE - NONE  
 VISION PANEL - 14" X 24" (NON-HEATED)  
 INT KICKPLATES - 42" HIGH, DIAMOND TREAD PLATE ALUMINUM  
 EXT KICKPLATES - 42" HIGH, DIAMOND TREAD PLATE ALUMINUM  
 AMB GUARDS - INT. 48" HIGH, DIAMOND TREAD PLATE ALUMINUM

ACCESSORIES - 2 EA. INT. EXT 3-WAY PRESS SWITCH, WITH EXT. INDICATING RED LIGHT-FLUSH MTD  
 1 EA. TEMPERATURE ALARM SYSTEM W/ DIGITAL THERMOMETER (MODULARM 75LC) - FLUSH MOUNTED ON WALL FACING KITCHEN, PROVIDE SIGN AT EACH FOR COOLER  
 2 EA. VAPOR PROOF LED CEILING MOUNTED LIGHT FIXTURE - SHIPPED LOOSE  
 1 EA. LED LIGHT DOOR MOUNTED FIXTURE - SHIPPED LOOSE

CLOSURES - 1 EA. VINYL STRIP CURTAINS  
 1 LOT INT. COVERED BASE - (TO MATCH INT. WALL PANEL FINISH)  
 1 LOT EXPOSED EXT. COVERED BASE - (TO MATCH EXT. WALL PANEL FINISH)  
 1 LOT WALL CLOSURES - (TO MATCH EXT. WALL PANEL FINISH)  
 1 LOT CEILING ENCLOSURES - (TO MATCH EXT. WALL PANEL FINISH)



ARCHITECT CONSULTANT:

LICENSED ARCHITECT  
 NO. C-17250  
 STATE OF CALIFORNIA

CONSULTANT:

AMD  
 FOODSERVICE DESIGN

PROJECT NAME:

**ALICE BIRNEY TK-8**

6254 13TH STREET  
 SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

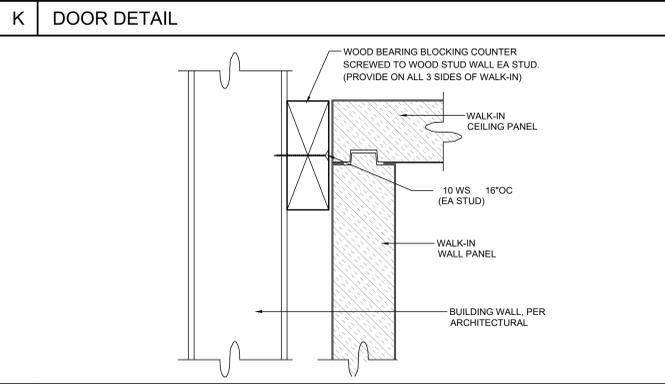
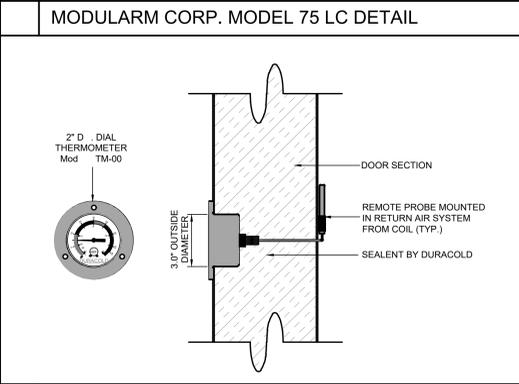
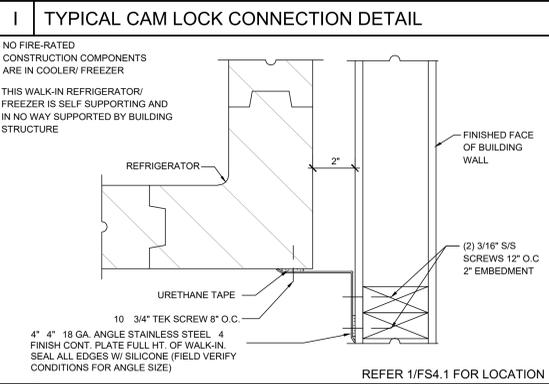
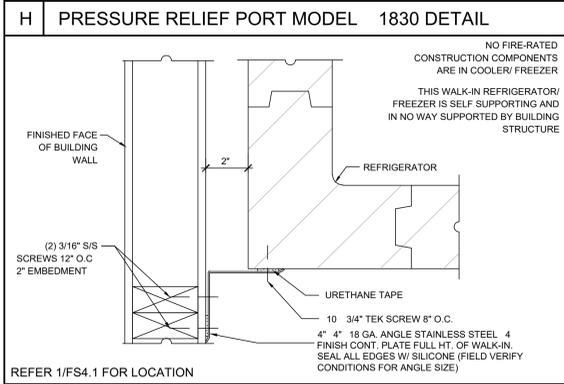
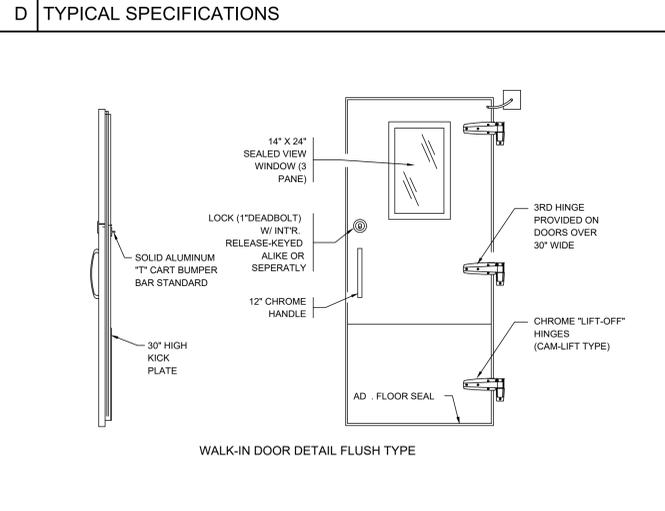
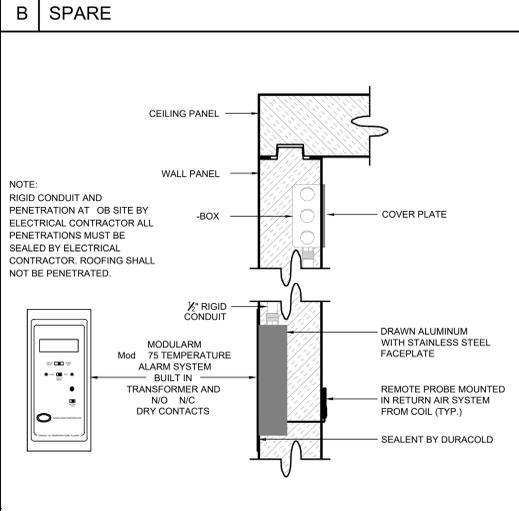
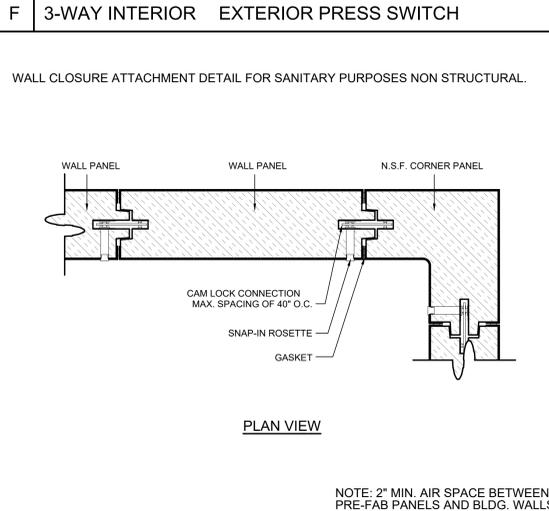
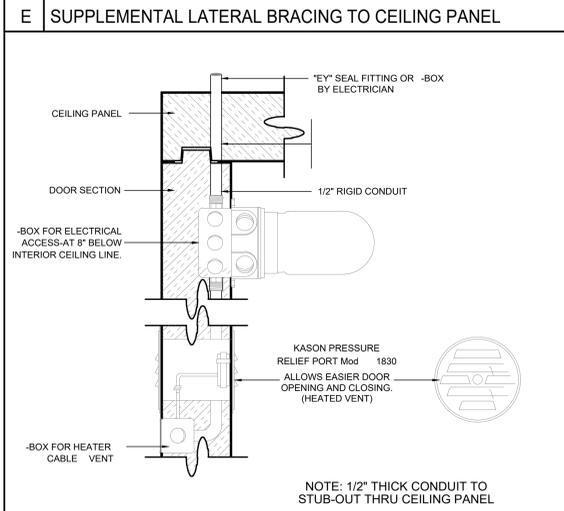
KEY PLAN:

↑ SHEET TITLE:

**FOODSERVICE EQUIPMENT WALK-IN DETAILS**

OB NUMBER: SHEET NUMBER:  
**FS6.1**

DATE: REVISION:



REFER 1/FS4.1 FOR LOCATION

REFER 1/FS4.1 FOR LOCATION

REFER 1/FS4.1 FOR LOCATION

REFER 1/FS4.1 FOR LOCATION



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 Sacramento, CA 95818  
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 Web Page: ca-dw.com

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 41 42 43 44 45 46 47 48 49 50

ARCHITECT CONSULTANT:



CONSULTANT:



PROJECT NAME:

**ALICE BIRNEY TK-8**

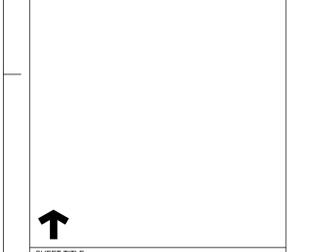
6254 13TH STREET  
 SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:

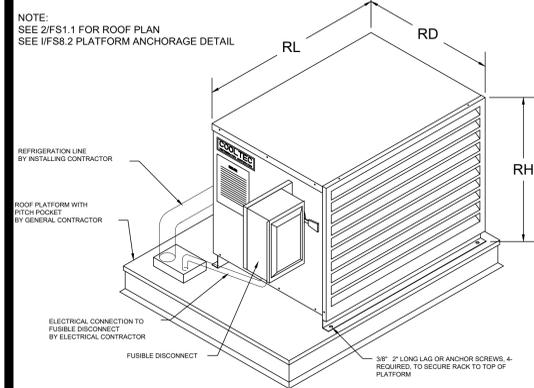


↑ SHEET TITLE:  
**FOODSERVICE EQUIPMENT WALK-IN DETAILS**

OB NUMBER: SHEET NUMBER:  
**FS6.1**

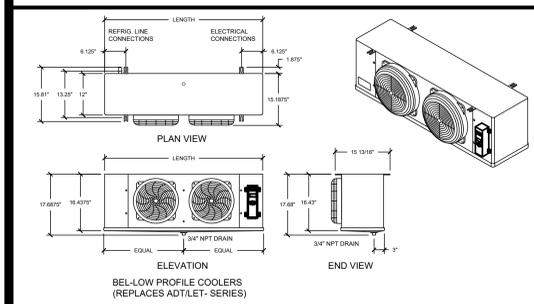
DATE: REVISION:

**"POWER-PAK" SYSTEMS**  
ALLOW 36" CLEARANCE ALL AROUND



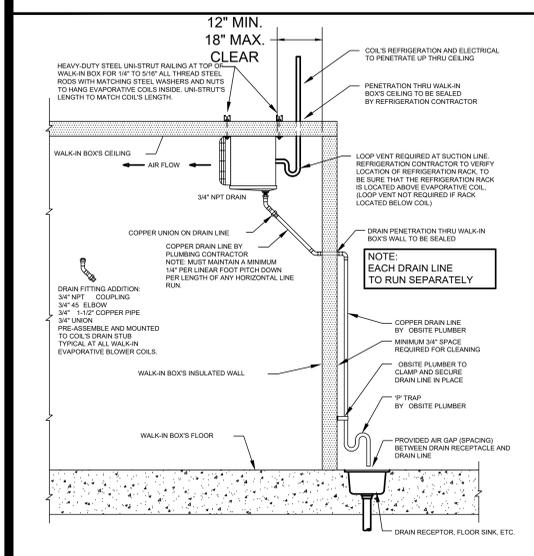
SYSTEM	ITEM	HP	TEMP. RATING	QTY.	PP-HOUSING			PLATFORM		
					PP MODEL	RL	RD	RH	PL	PD
A	23	1.0	MED.	1	PP-1	28"	30"	33"	210	48"

**POWER-PAK #PP-SERIES**  
**REFRIGERATION RACKS**

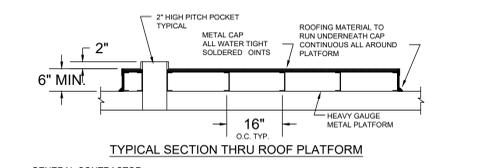
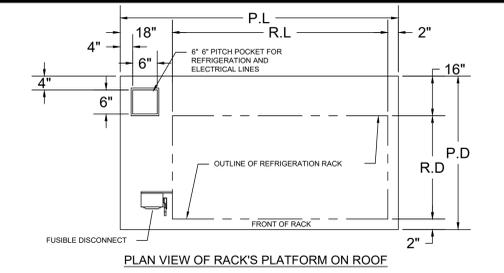


SYSTEM	UNIT MODEL No.	CAPACITY BTU	LENGTH	QTY.	FANS	CONNECTIONS (in.)				APPROX. SHIP WT. (LBS.)	
						COIL INLET OD	SUCTION ID	EQUALIZER OD	DRAIN MPT		
A	BELO09SAS6AM	9450	45-1/2"	2	1305	1.8	1/2"	5/8"	1/4"	3/4"	51

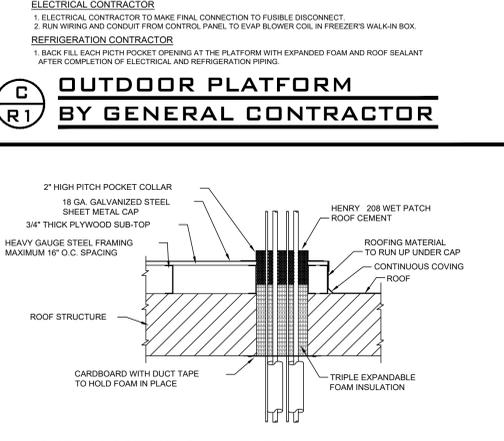
**UNIT COOLER DETAIL**



**TYPICAL DETAIL AT WALK-IN'S**  
**COIL MOUNT AND CONDENSATE**  
**DRAIN LINE**



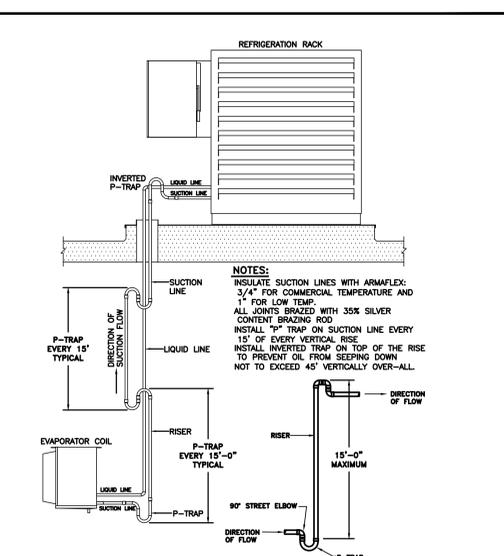
**OUTDOOR PLATFORM**  
**BY GENERAL CONTRACTOR**



**INSTRUCTIONS FOR REFRIGERATION CONTRACTOR**

- TAPE CARDBOARD AT THE BOTTOM OF EACH PITCH POCKET OPENING AS SHOWN.
- AT THE TOP OF THE PITCH POCKET OPENING, FILL IN WITH TRIPLE EXPANDABLE FOAM INSULATION (DOW CHEMICAL "GREAT STUFF" INSULATING FOAM), AND LET FOAM CURE FOR ONE HOUR.
- APPLY HENRY 208 WET PATCH ROOF CEMENT IN BETWEEN REFRIGERATION PIPING, ELECTRICAL LINES, AND FOAM. LET CURE FOR FOUR HOURS. THIS SHOULD SEAL ALL PIPING AND LINES IN THE PITCH POCKET, TO PREVENT RAIN WATER FROM PENETRATING THROUGH.

**RAIN TIGHT PITCH POCKET**



**P-TRAP DETAILS AND**  
**SUCTION LINE RISER**

**COOLTEC ENGINEERING SUMMARY**

SYSTEM	ITEM #	DESCRIPTION	TEMP. (F)		REFRIGERANT R-#	REFRIGERANT LBS IN SYSTEM	COMPRESSORS			DEFROST	UNIT COOLER		100' LINE SIZE (O.D.) ACCESSORIES (SEE SUPPLY CODE *)				POWER REQUIREMENTS															
			FWT.	SST.			MODEL	H.P.	RATING @ 60 Hz		MBH. (95°F)	ITEM #	QUANTITY	MODEL	RATING @ 60 Hz	ROUTE	SUCTION	DISCH.	DRAIN	HEAD PRESSURE CONTROL	LIQUID LINE DRIER	SOLENOID VALVE	EXPANSION VALVE	TIME CLOCK	POWER SUPPLY	CONNECTED LOAD	MINIMUM CIRCUIT AMPS	FUSE SIZE	REMARKS			
A	-	WALK-IN COOLER	35	25	448A	16	RZM10-2T	1.0	8.0	208	3	9.95	D	24	1	BELO09SAS6AM	1.8	115	S	7/8	3/8	F	F	F	F	F	KEZMED					

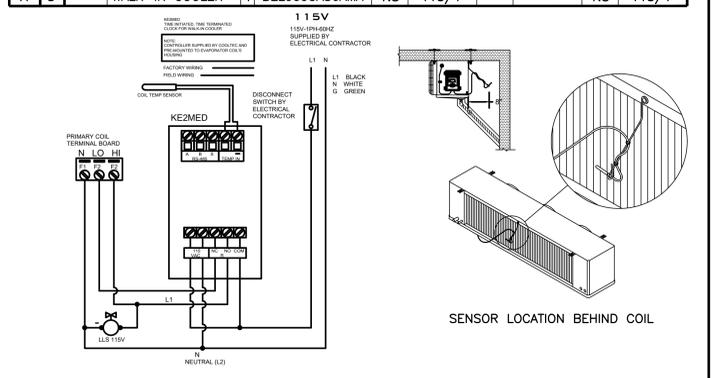
**UL US LISTED**  
**CONDENSING UNIT**  
335Z FILE SA32027

**MODEL NO. PP-1**

**NOTE:**  
- ALL SYSTEMS ENGINEERED WITH R-448A REFRIGERANT. ANY BASES/COILS NOT SUPPLIED BY COOLTEC MUST BE EQUIPPED WITH R448A EXPANSION VALVE.  
- CONNECTION LINE SIZES BASED ON 100' MAX LINE RUNS. IF LINE RUNS EXCEED 100', CONSULT FACTORY FOR PROPER LINE SIZES.  
- \*COMPRESSOR MOTOR PROTECTED UNDER PRIMARY SINGLE PHASE SECTION.  
- EFFECTIVE JANUARY 1, 2009, ALL WALK-IN COOLER AND FREEZER EVAPORATOR COILS INSTALLED IN THE U.S.A. SHALL BE SUPPLIED WITH ENERGY EFFICIENT (EC) MOTORS BASED ON THE FEDERAL ENERGY INDEPENDENCE AND SECURITY ACT (HR-6).  
- KITCHEN EQUIPMENT CONTRACTOR TO SUPPLY POWER FROM BUILDING AND CONNECT POWER TO WALK-IN EVAPORATIVE COIL'S DEMAND DEFROST CONTROL AN TO COIL'S DRAIN HEATER.

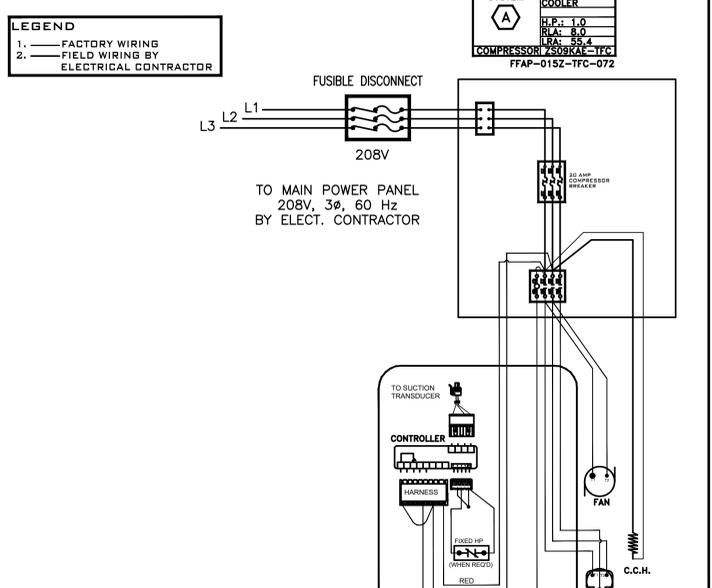
**ELECTRICAL CONTRACTOR TO SUPPLY POWER FROM BUILDING AND CONNECT POWER TO WALK-IN COILS DEMAND DEFROST CONTROL AND TO DRAIN HEATER.**

SYSTEM	DEFROST	ITEM #	DESCRIPTION	QUANTITY	MODEL	POWER FROM BUILDING BY ELECTRICAL CONTRACTOR			
						EVAP. COIL	DRAIN HEATER	TOTAL CONNECTED LOAD	
A	D	-	WALK-IN COOLER	1	BELO09SAS6AM	1.8	115/1	1.8	115/1



**KEZ DEFROST WIRING DIAGRAM FOR COOLER COIL**

**CONSTRUCTION NOTES FOR TRADES**



**WIRING DIAGRAM**

**POWER SUPPLY: 208V/3PH/60HZ**  
**FUSE SIZE: 20 AMP**  
**CONNECTED LOAD= 8.0 AMP**  
**MINIMUM AMPACITY= 11.4 AMP**

SYSTEM	ITEM #	DESCRIPTION	TEMP. (F)		REFRIGERANT R-#	REFRIGERANT LBS IN SYSTEM	COMPRESSORS			DEFROST	UNIT COOLER		100' LINE SIZE (O.D.) ACCESSORIES (SEE SUPPLY CODE *)				POWER REQUIREMENTS															
			FWT.	SST.			MODEL	H.P.	RATING @ 60 Hz		MBH. (95°F)	ITEM #	QUANTITY	MODEL	RATING @ 60 Hz	ROUTE	SUCTION	DISCH.	DRAIN	HEAD PRESSURE CONTROL	LIQUID LINE DRIER	SOLENOID VALVE	EXPANSION VALVE	TIME CLOCK	POWER SUPPLY	CONNECTED LOAD	MINIMUM CIRCUIT AMPS	FUSE SIZE	REMARKS			
A	-	WALK-IN COOLER	35	25	448A	16	RZM10-2T	1.0	8.0	208	3	9.95	D	24	1	BELO09SAS6AM	1.8	115	S	7/8	3/8	F	F	F	F	F	KEZMED					

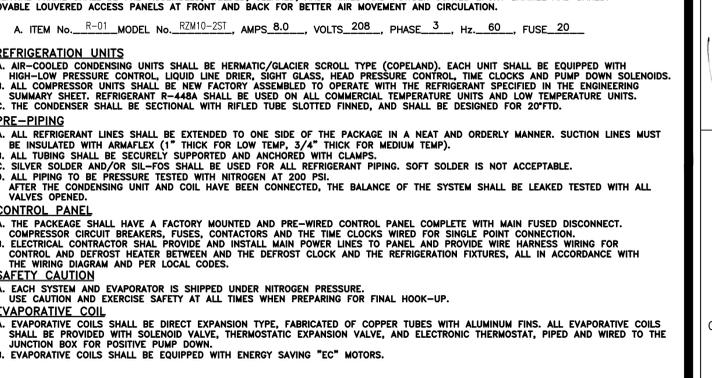
**UL US LISTED**  
**CONDENSING UNIT**  
335Z FILE SA32027

**MODEL NO. PP-1**

**NOTE:**  
- ALL SYSTEMS ENGINEERED WITH R-448A REFRIGERANT. ANY BASES/COILS NOT SUPPLIED BY COOLTEC MUST BE EQUIPPED WITH R448A EXPANSION VALVE.  
- CONNECTION LINE SIZES BASED ON 100' MAX LINE RUNS. IF LINE RUNS EXCEED 100', CONSULT FACTORY FOR PROPER LINE SIZES.  
- \*COMPRESSOR MOTOR PROTECTED UNDER PRIMARY SINGLE PHASE SECTION.  
- EFFECTIVE JANUARY 1, 2009, ALL WALK-IN COOLER AND FREEZER EVAPORATOR COILS INSTALLED IN THE U.S.A. SHALL BE SUPPLIED WITH ENERGY EFFICIENT (EC) MOTORS BASED ON THE FEDERAL ENERGY INDEPENDENCE AND SECURITY ACT (HR-6).  
- KITCHEN EQUIPMENT CONTRACTOR TO SUPPLY POWER FROM BUILDING AND CONNECT POWER TO WALK-IN EVAPORATIVE COIL'S DEMAND DEFROST CONTROL AN TO COIL'S DRAIN HEATER.

**ELECTRICAL CONTRACTOR TO SUPPLY POWER FROM BUILDING AND CONNECT POWER TO WALK-IN COILS DEMAND DEFROST CONTROL AND TO DRAIN HEATER.**

SYSTEM	DEFROST	ITEM #	DESCRIPTION	QUANTITY	MODEL	POWER FROM BUILDING BY ELECTRICAL CONTRACTOR			
						EVAP. COIL	DRAIN HEATER	TOTAL CONNECTED LOAD	
A	D	-	WALK-IN COOLER	1	BELO09SAS6AM	1.8	115/1	1.8	115/1



**KEZ DEFROST WIRING DIAGRAM FOR COOLER COIL**

**CONSTRUCTION NOTES FOR TRADES**

- REFRIGERATION UNITS**
  - AIR-COOLED CONDENSING UNITS SHALL BE HERMETIC/GLACIER SCROLL TYPE (COPELAND). EACH UNIT SHALL BE EQUIPPED WITH HIGH-LOW PRESSURE CONTROL, LIQUID LINE DRIER, SIGHT GLASS, HEAD PRESSURE CONTROL, TIME CLOCKS AND PUMP DOWN SOLENOIDS.
  - ALL COMPRESSOR UNITS SHALL BE NEW FACTORY ASSEMBLED TO OPERATE WITH THE REFRIGERANT SPECIFIED IN THE ENGINEERING SUMMARY SHEET. REFRIGERANT R-448A SHALL BE USED ON ALL COMMERCIAL TEMPERATURE UNITS AND LOW TEMPERATURE UNITS. THE CONDENSER SHALL BE SECTIONAL WITH RIFLED TUBE SLOTTED FINNED, AND SHALL BE DESIGNED FOR 20°F TD.
- PRE-PIPING**
  - ALL REFRIGERATION LINES SHALL BE EXTENDED TO ONE SIDE OF THE PACKAGE IN A NEAT AND ORDERLY MANNER. SUCTION LINES MUST BE INSULATED WITH ARMAFLEX (1" THICK FOR LOW TEMP., 3/4" THICK FOR MEDIUM TEMP.).
  - ALL TUBING SHALL BE SECURELY SUPPORTED AND ANCHORED WITH CLAMPS.
  - SILVER SOLDER AND/OR SIL-FOS SHALL BE USED FOR ALL REFRIGERATION PIPING. SOFT SOLDER IS NOT ACCEPTABLE.
  - ALL PIPING TO BE PRESSURE TESTED WITH NITROGEN AT 200 PSI. AFTER THE CONDENSING UNIT AND COIL HAVE BEEN CONNECTED, THE BALANCE OF THE SYSTEM SHALL BE LEAKED TESTED WITH ALL VALVES OPENED.
- CONTROL PANEL**
  - THE PACKAGE SHALL HAVE A FACTORY MOUNTED AND PRE-WIRED CONTROL PANEL COMPLETE WITH MAIN FUSED DISCONNECT, COMPRESSOR CIRCUIT BREAKERS, FUSES, CONTACTORS AND THE TIME CLOCKS WIRED FOR SINGLE POINT CONNECTION.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERATION PIPING TO PANEL AND PROVIDE WIRE HARNESS WIRING FOR CONTROL AND DEFROST HEATER BETWEEN THE DEFROST CLOCK AND THE REFRIGERATION FIXTURES, ALL IN ACCORDANCE WITH THE WIRING DIAGRAM AND PER LOCAL CODES.
- SAFETY CAUTION**
  - EACH SYSTEM AND EVAPORATOR IS SHIPPED UNDER NITROGEN PRESSURE. USE CAUTION AND EXERCISE SAFETY AT ALL TIMES WHEN PREPARING FOR FINAL HOOK-UP.
- EVAPORATIVE COIL**
  - EVAPORATIVE COILS SHALL BE DIRECT EXPANSION TYPE, FABRICATED OF COPPER TUBES WITH ALUMINUM FINNS. ALL EVAPORATIVE COILS SHALL BE PROVIDED WITH SOLENOID VALVE, THERMOSTATIC EXPANSION VALVE, AND ELECTRONIC THERMOSTAT, PIPED AND WIRED TO THE JUNCTION BOX FOR POSITIVE PUMP DOWN.
  - EVAPORATIVE COILS SHALL BE EQUIPPED WITH ENERGY SAVING "EC" MOTORS.



CALIFORNIA DESIGN WEST ARCHITECTS, INC.  
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Web Page: ca-dw.com

ARCHITECT: CONSULTANT:



CONSULTANT:



PROJECT NAME:

**ALICE BIRNEY TK-8**

6254 13TH STREET  
SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

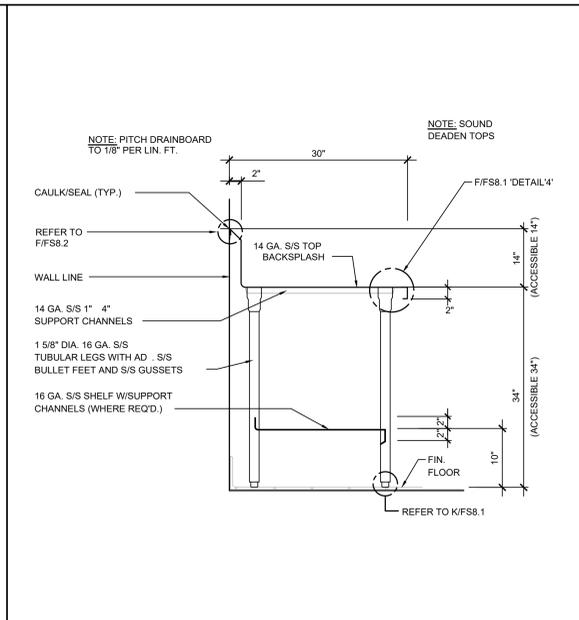
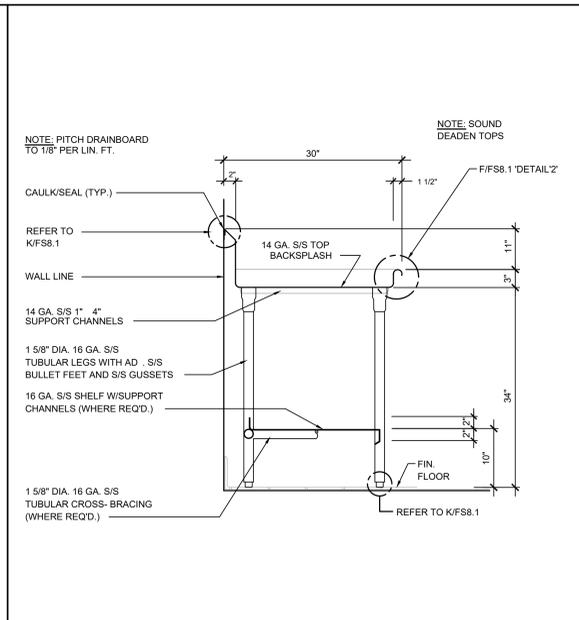
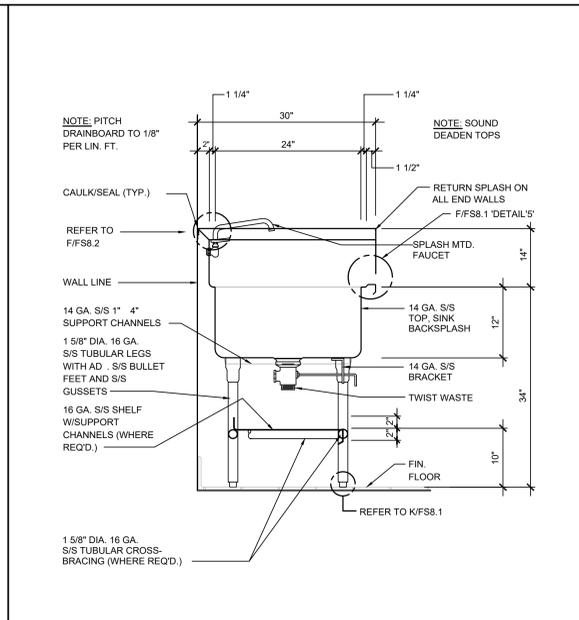
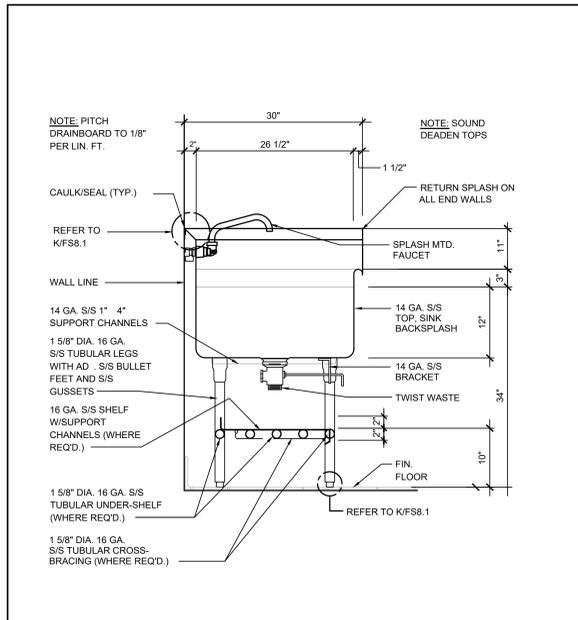
SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE:

**FOODSERVICE**  
**REFRIGERATION**  
**DETAILS**

OB NUMBER:	SHEET NUMBER:
DATE:	<b>FS7.1</b>
REVISION:	

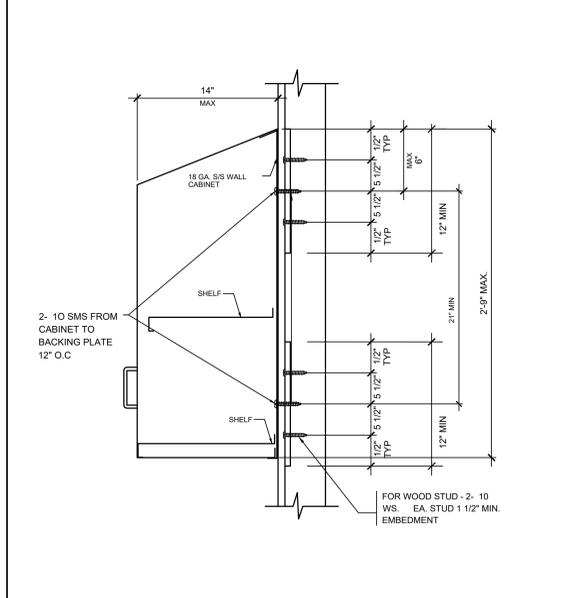
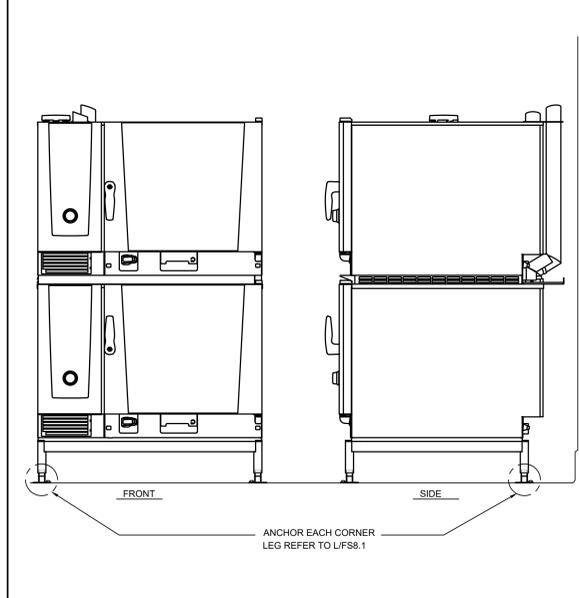
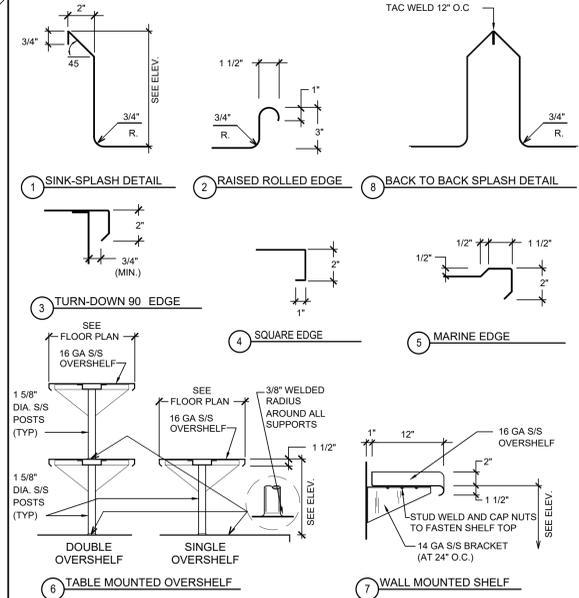
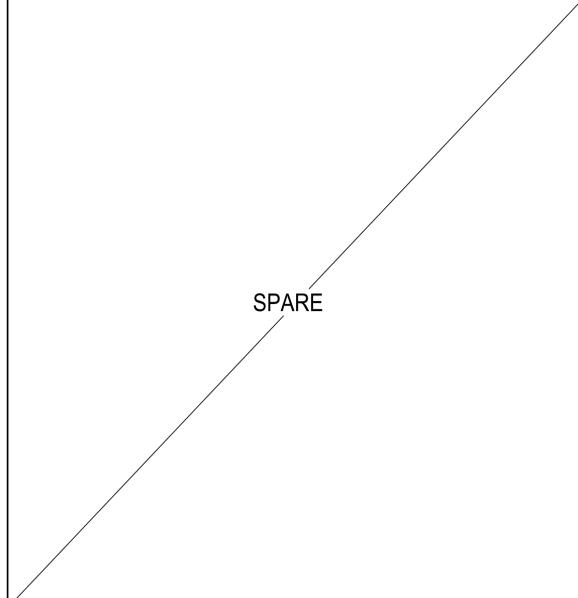


**A SECTION AT POT SINK (INTEGRAL) NTS**

**B SECTION AT PREP SINK NTS**

**C SECTION AT DISHTABLE NTS**

**D SECTION AT WORKCOUNTER NTS**

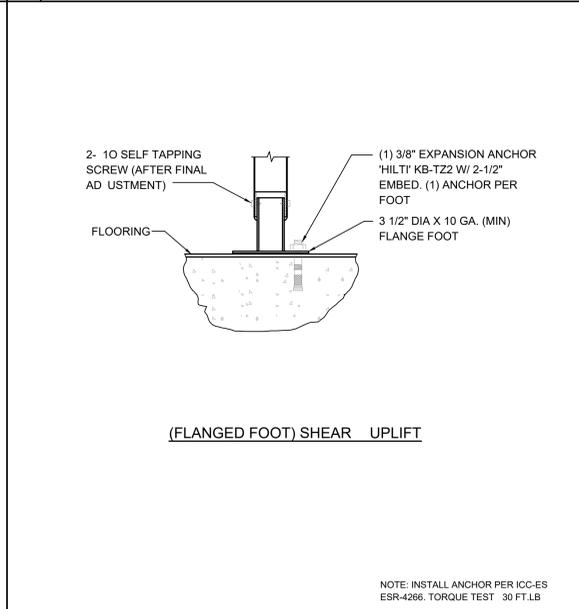
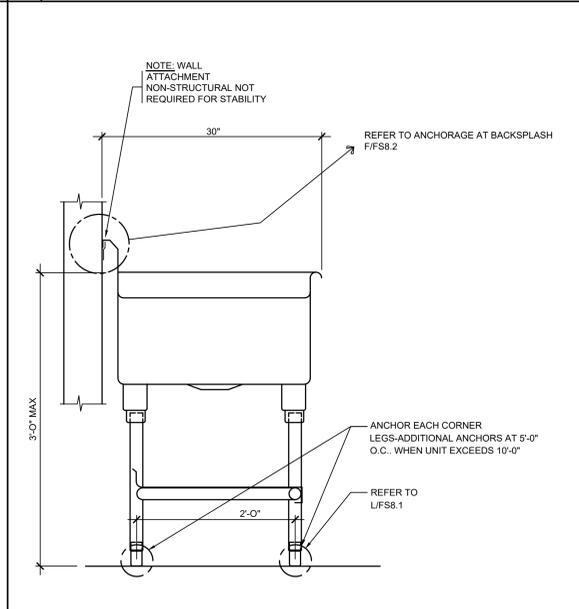
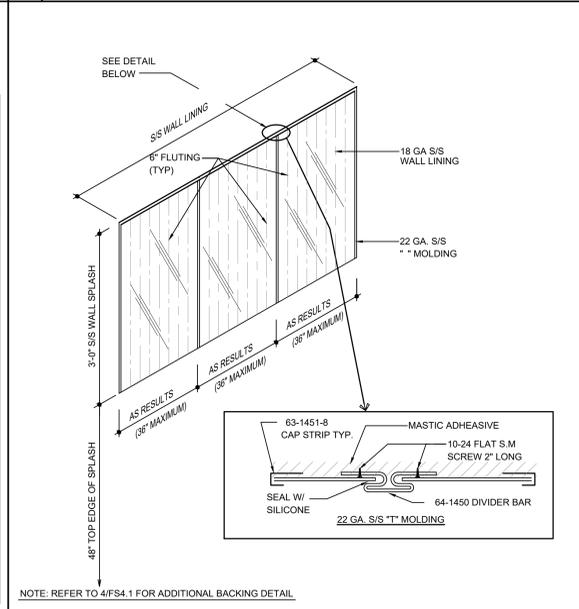
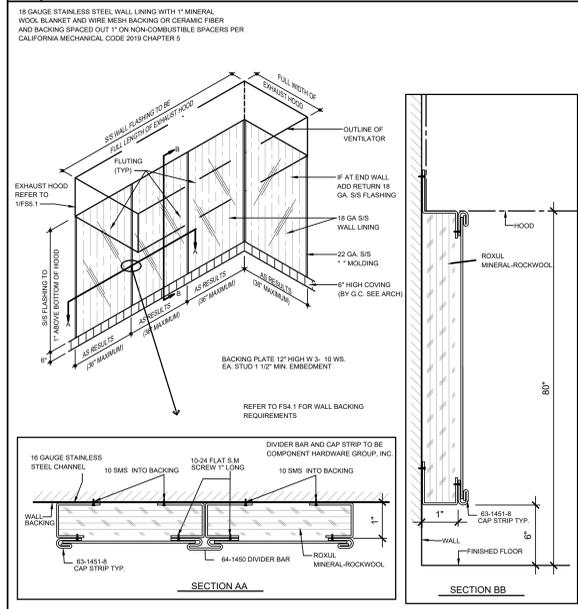


**E SPARE NTS**

**F EDGE/SPLASH/SHELF DETAILS NTS**

**G COMBI OVEN NTS**

**H WALL MOUNTED CABINET NTS**



**I S/S INSULATED WALL LINING DETAIL NTS**

**J WALL SPLASH NTS**

**K FLOOR MOUNTED SINK WALL NTS**

**L FOOT ANCHORAGE DETAIL NTS**

**California WEST**

CALIFORNIA DESIGN WEST ARCHITECTS, Inc.  
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ARCHITECT: CONSULTANT:



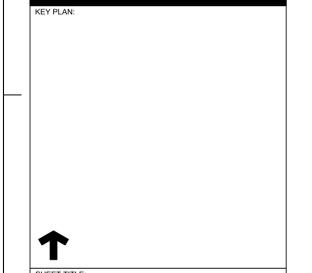
PROJECT NAME:  
**ALICE BIRNEY TK-8**

6254 13TH STREET  
SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

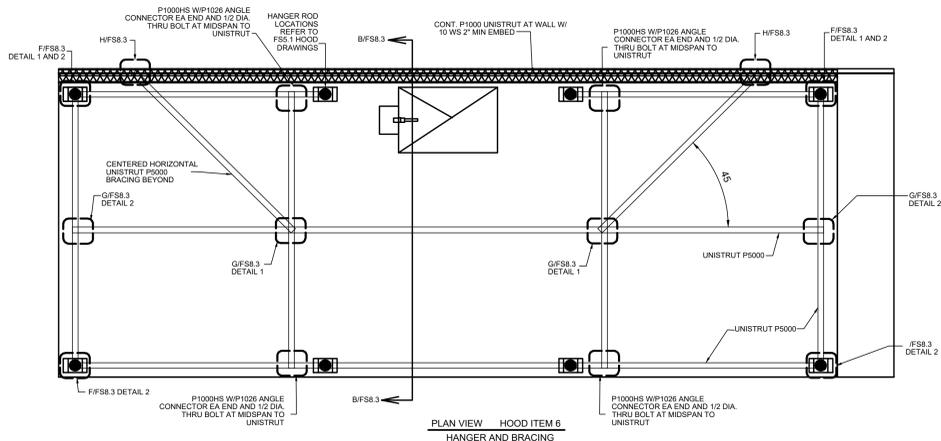
SACRAMENTO COUNTY



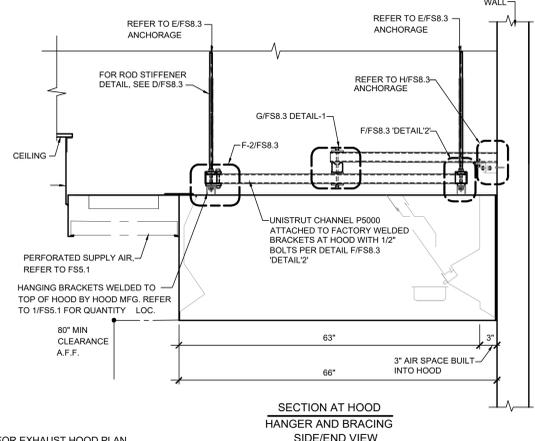
**FOODSERVICE EQUIPMENT ANCHORAGE DETAILS**

OB NUMBER: SHEET NUMBER:  
**FS8.1**

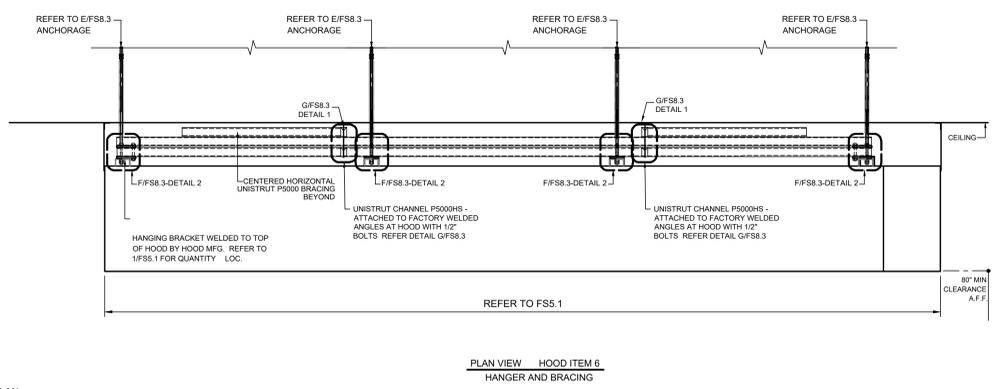




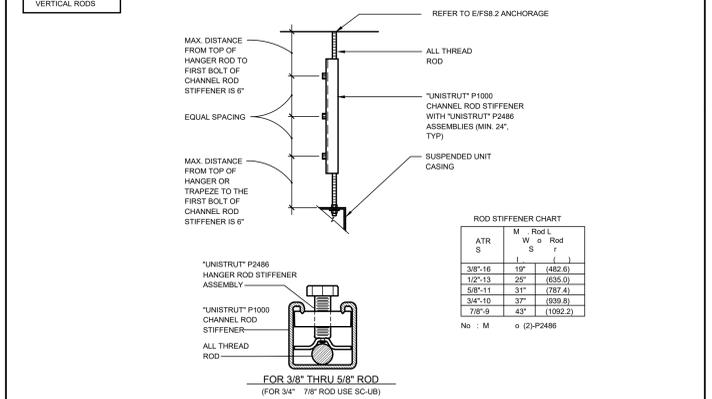
**A EXHAUST HOOD ANCHORAGE DETAIL PLAN VIEW**



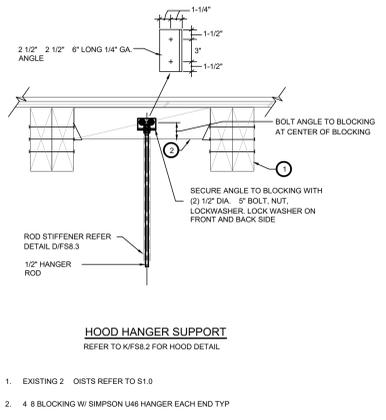
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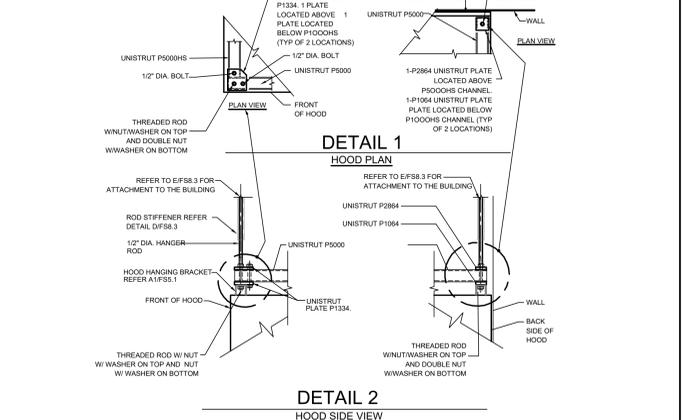
**C EXHAUST HOOD ELEVATIONS**



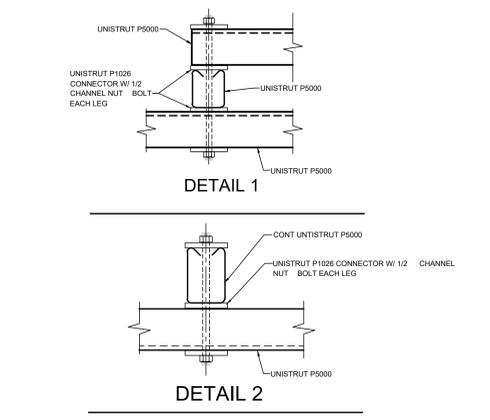
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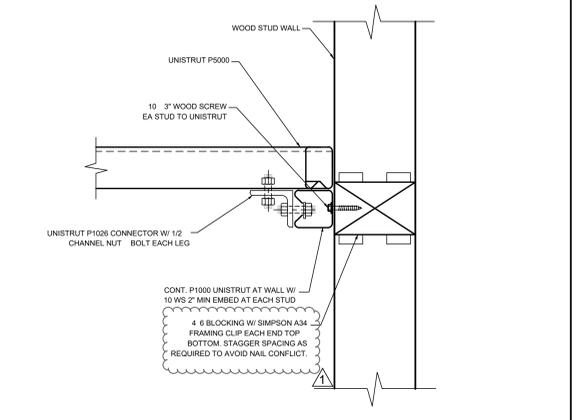
**E TYP. UPPER ATTACHMENT**



**F HOOD HANGING SUPPORT**



**G UNISTRUT CONNECTION DETAIL**



**H HOOD BRACING AT WALL DETAIL**

SPARE

SPARE

SPARE

SPARE



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ARCHITECT CONSULTANT:



CONSULTANT:  
**AMD**  
 FOODSERVICE DESIGN

PROJECT NAME:  
**ALICE BIRNEY TK-8**

6254 13TH STREET  
 SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED  
 SCHOOL DISTRICT

SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE:  
**FOODSERVICE EQUIPMENT ANCHORAGE DETAILS**

OB NUMBER: SHEET NUMBER:  
**FS8.3**

DATE:

REVISION:  
 ADD#3 03/05/24

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T E R M S O F E N G I N E E R I N G S E R V I C E S  
C O N T A I N E D I N T H E S E P L A N S

ARCHITECT CONSULTANT:



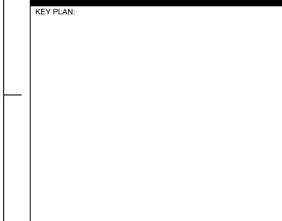
PROJECT NAME:  
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SACRAMENTO, CA 95831

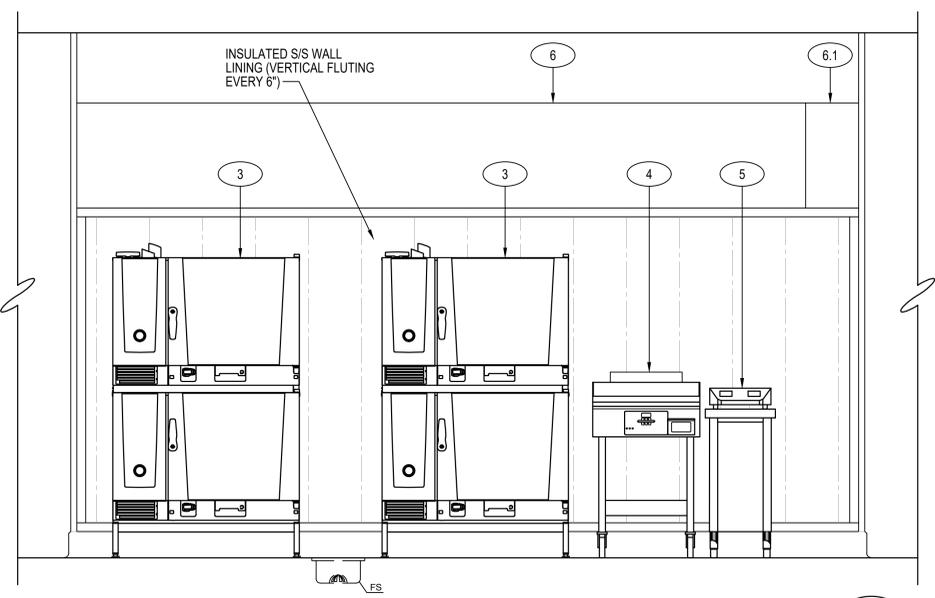
**CAMPUS RENEWAL**

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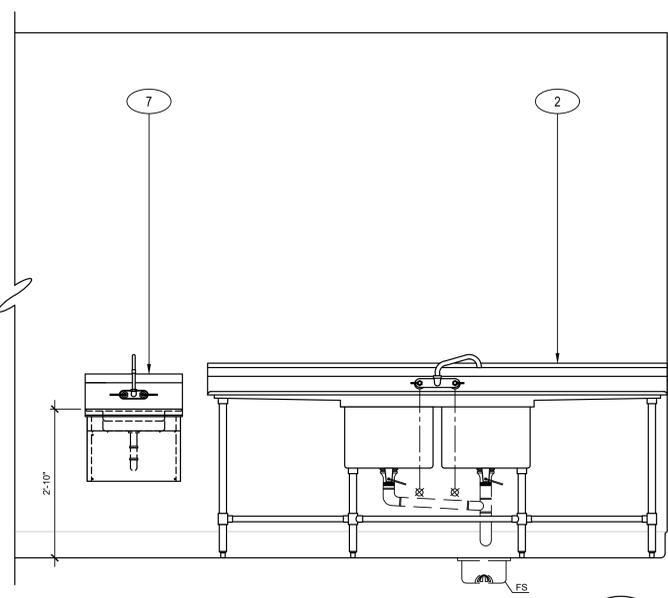
SACRAMENTO COUNTY



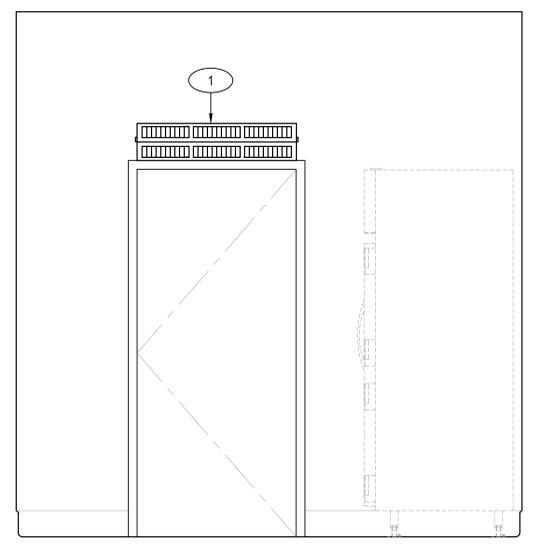
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OB NUMBER:	SHEET NUMBER: <b>FS9.1</b>
DATE:	
REVISION:	



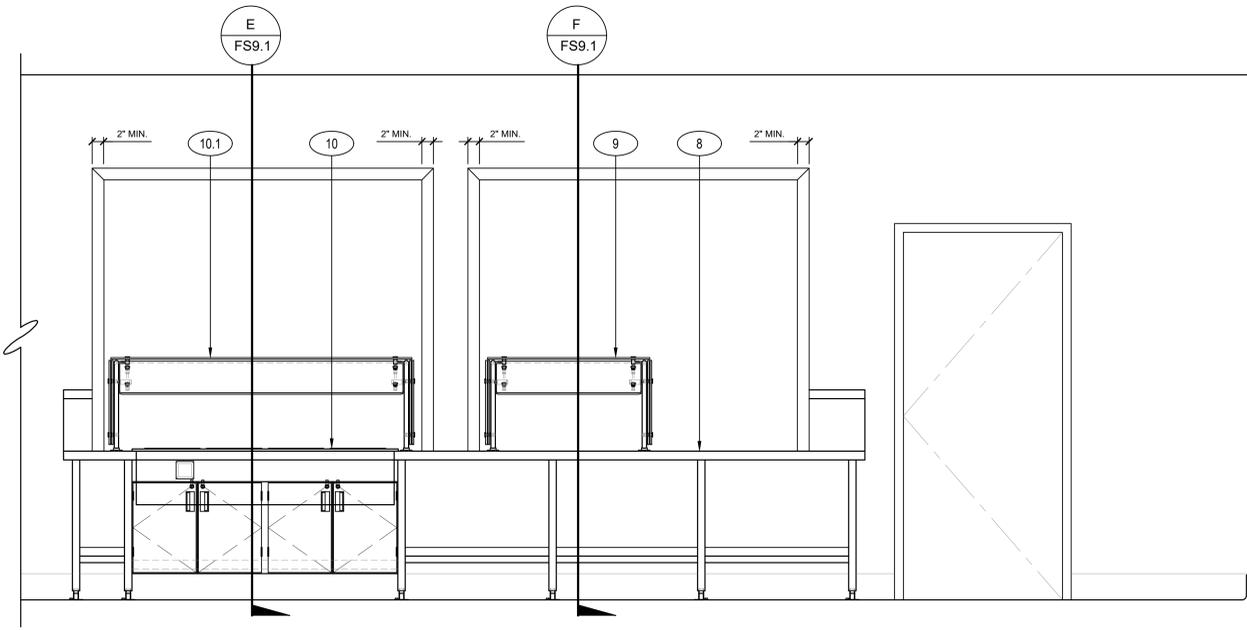
**ELEVATION**  
SCALE : 3/4" 1'-0"  
A  
FS9.1



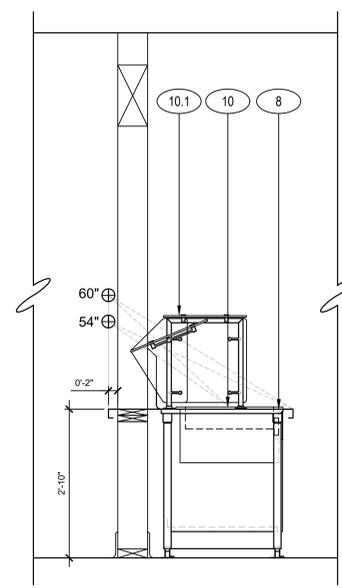
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FS9.1



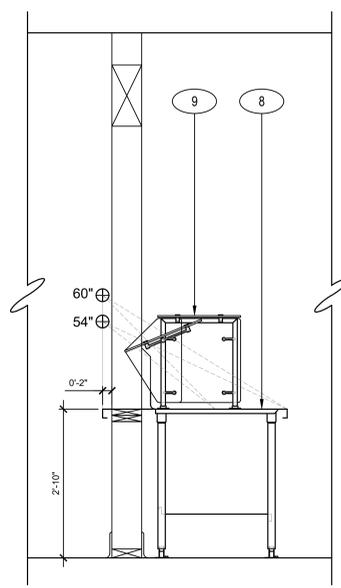
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C  
FS9.1



**ELEVATION**  
SCALE : 3/4" 1'-0"  
D  
FS9.1



**SECTION**  
SCALE : 3/4" 1'-0"  
E  
FS9.1



**SECTION**  
SCALE : 3/4" 1'-0"  
F  
FS9.1

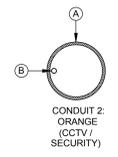
NOTE  
FOR FOODSERVICE EQUIPMENT SCHEDULE SEE  
SHEET FS1.1

6 5 4 3 2 1

NOT USED

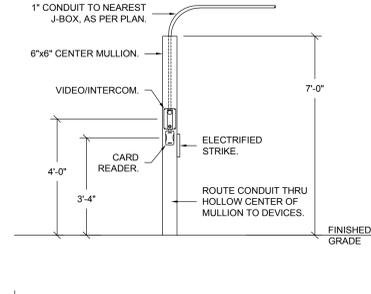
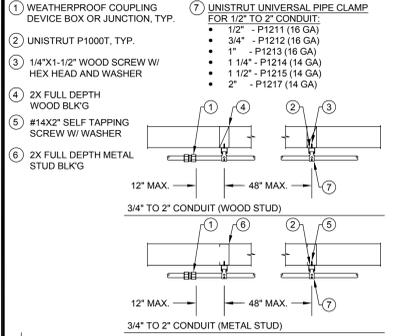
- (A) 11 EA, 3/4" CONDUIT
- (B) 1/2" NYLON MULE STRING, PN: NEPTCO WP900P

CONDUIT DIA.	FILL RATIO (0.250" DIA.)
3/4"	4-CABLES
1"	6-CABLES
1-1/4"	10-CABLES
2"	26-CABLES
4"	102-CABLES

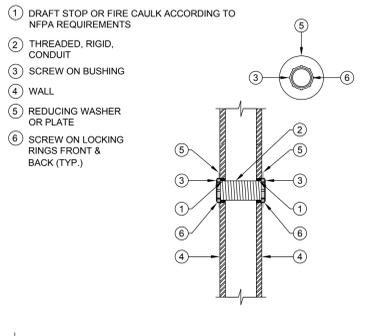
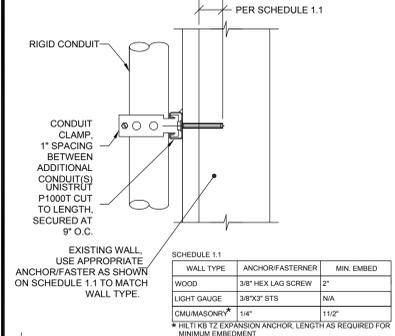


NOTE: CONTRACTOR SHALL BE REQUIRED TO UPSIZE CONDUIT AND/OR QTY AS NOTED PER FILL RATIO CABLE CAPACITY.

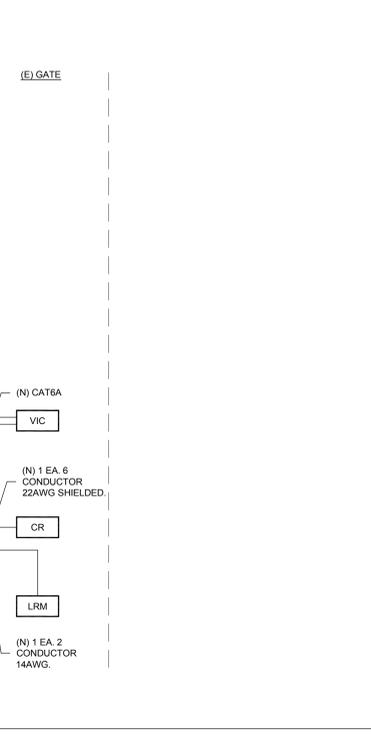
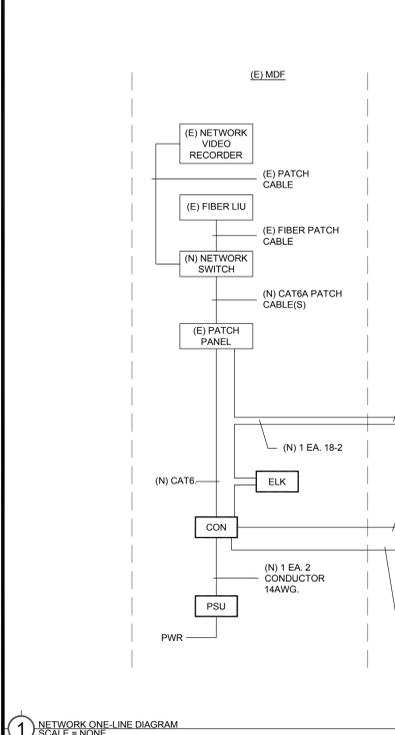
4 CONDUIT LAYOUT DETAIL - HORIZONTAL BACKBONE / SLEEVES  
SCALE = NONE



3 VIDEO / INTERCOM / ELEC. ACCESS CONTROL IN GATE MULLION DETAIL  
SCALE = NONE



2 CONDUIT SLEEVE PENETRATION DETAIL  
SCALE = NONE



1 NETWORK ONE-LINE DIAGRAM  
SCALE = NONE

**ABBREVIATIONS:**

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ANN	ANNUNCIATOR
AP	ACCESS POINT
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BICSI	BUILDING INDUSTRY CONSTRUCTION SERVICE INTERNATIONAL
BLDG	BUILDING
C	CONDUIT
CAB	CABINET
CAT	CATEGORY
CATV	CABLE TELEVISION
CD	CANDLE
CD	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED
CL	CENTER LINE
CO	CARBON MONOXIDE
DN	DOWN
(E)	EXISTING
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE
FA	FIRE ALARM
FAFP	FIRE ALARM CONTROL PANEL
FTC	FIRE TERMINAL CABINET
GRC	GALVANIZED RIGID CONDUIT
G OR GB	GROUND BOX
IACP	INTRUSION ALARM CONTROL PANEL
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
J OR JB	JUNCTION BOX
MEP	MECHANICAL / ELECTRICAL / PLUMBING
MDF	MAIN DISTRIBUTION FRAME
MOPE	MINIMUM POINT OF ENTRY
(N)	NEW
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
N/A	NOT APPLICABLE
OFE	OWNER FURNISHED EQUIPMENT
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OFI	OWNER FURNISHED/OWNER INSTALLED
OSP	OUTSIDE PLANT
PVC	POLYVINYL CHLORIDE
RCDD	REGISTERED COMMUNICATION DISTRIBUTION DESIGNER
RCWY	RACEWAY
RM	ROOM
SR	SURFACE RACEWAY
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
W	WATT
WP	WEATHERPROOF

**TECHNOLOGY SYMBOL LEGEND:**  
ALL EQUIPMENT AND MATERIALS ARE CONTRACTOR FURNISHED, INSTALLED AND CONFIGURED (UNO)

SYMBOL	DESCRIPTION	MODEL	PART NUMBER	NOTES / DETAIL REFERENCES
[MDF / IDF]	DATA RACK / CABINET	EXISTING	EXISTING	N/A
[J]	SURFACE MOUNTED WEATHERPROOF JUNCTION BOX	GENERIC	AS PER PLAN	GREY = EXISTING
[J]	SURFACE MOUNTED JUNCTION BOX	1-GANG	GENERIC	1-GANG "BELL" BOX, 3 EA. THREADED 1" OUTLETS
---	ABOVE GROUND CONDUIT	GRC	1"	GREY = EXISTING
---	FREE AIR CABLE J-HOOK	N/A	N/A	GREY = EXISTING
[T]	BACKBONE CONDUIT STUB	N/A	N/A	GREY = EXISTING
[CON]	ACCESS CONTROL MANAGEMENT EMBEDDED CONTROLLER	AVIGILON	AC-MER-CONT-LP1502	INSTALL AT MDF LOCATION
[CR]	CARD READER	AVIGILON	AC-ING-READ-APTQ-SNG-MT15	N/A
[PSU]	ACCESS CONTROL POWER SUPPLY UNIT W/ BATTERY BACKUP	AVIGILON	AC-LSP-2DR-MER-LCK	INSTALL AT MDF LOCATION
[EL]	ELECTRONIC SURFACE STRIKE	VON DUPRIN	6300	N/A
[VIC]	VIDEO INTERCOM WITH SURFACE MOUNTED BACKBOX	AVIGILON	HAVIRO-1-IR-HAVI-MT-SURF1	N/A
[TEL]	ADMINISTRATIVE DESK PHONE SET	CISCO	EXISTING	PROGRAM SOFT KEY AT (E) PHONE SET FOR GATE UNLOCK
[ELK]	24VDC RELAY	ELK	ELK-924	N/A
	RFID CARDS - QTY. = 100	SCHLAGE	8520	PER DISTRICT REQUIREMENTS

**TECHNOLOGY GENERAL PROJECT NOTES:**

- UPON COMPLETION OF THE INSTALLATION OF THE SYSTEMS, THE CONTRACTOR SHALL PROVIDE A SATISFACTORY TEST OF THE ENTIRE SYSTEMS IN THE PRESENCE OF THE ARCHITECT/DESIGNER, INSPECTOR, AND THE OWNER.
- A STAMPED SET OF APPROVED SYSTEM DESIGN DOCUMENTS, AND CONTRACTOR FURNISHED SHOP DRAWINGS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. THE CONTRACTOR SHALL INCORPORATE ANY AND ALL REVISIONS TO DRAWINGS SETS AS REQUIRED. ANY DEVIATION FROM APPROVED DESIGN DOCUMENTS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE ARCHITECT/DESIGNER AND THE OWNER PRIOR TO INSTALLATION.
- ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/DESIGNER PRIOR TO INSTALLATION.
- ALL PENETRATIONS THROUGH RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITH THROUGH PENETRATION FIRST STOP SYSTEMS WITH A "T" RATING EQUAL TO THE ASSEMBLY PENETRATED, SEE DETAILS ON SHEET 1901 FOR MORE INFORMATION.
- PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH DEVICE. DO NOT SPLICE THE WIRE. THERE MUST BE AT LEAST 6" OF LEAD WIRE FROM THE BOX TO THE DEVICE.
- LOW VOLTAGE PANELS, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURER'S SPECIFICATIONS. NO SINGLE DEVICE SHALL EXCEED THE WEIGHT FOR 20 lbs., WITHOUT SPECIAL MOUNTING DETAILS.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/DESIGNER AT A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO FINAL INSPECTION FOR FINAL PUNCH ALL ITEMS ON PUNCH LIST MUST BE COMPLETE FOR JOB TO FINAL.
- PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE ALL PROJECT AS-BUILT DRAWINGS AND MANUALS PER SPECIFICATIONS.
- THE CONTRACTOR SHALL ALSO PROVIDE A TYPED RECORD OF COMPLETION. A FINAL WILL NOT BE GRANTED UNTIL THE ABOVE IS APPROVED BY THE OWNER.
- THE TERM "PROVIDE" SHALL MEAN TO FURNISH, INSTALL AND MAKE FULLY OPERATIONAL.

**PROJECT CODES AND STANDARDS:**

PARTIAL LIST OF APPLICABLE CODES AND STANDARDS EFFECTIVE : JANUARY 1, 2023:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), CCR, TITLE 24, PART 1
- 2022 CALIFORNIA BUILDING CODE (CBC), CCR, TITLE 24, PART 2 (2018 INTERNATIONAL BUILDING CODE WITH CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), CCR, TITLE 24, PART 3 (2017 NATIONAL ELECTRICAL CODE WITH CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA MECHANICAL CODE (CMC), CCR, TITLE 24, PART 4 (2018 UNIFORM MECHANICAL CODE WITH CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6
- 2022 CALIFORNIA FIRE CODE (CFC), CCR, TITLE 24, PART 9 (2018 INTERNATIONAL FIRE CODE WITH CALIFORNIA AMENDMENTS)
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CCR, TITLE 24, PART 11
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, CCR, TITLE 24, PART 12
- 2022 NFPA 72: NATIONAL FIRE ALARM AND SIGNALING CODE, NATIONAL FIRE PROTECTION ASSOCIATION

- CONTRACTOR FURNISHED DOCUMENTS:**
- (SHOP DRAWINGS / PRODUCT SUBMITTALS / QUALIFICATIONS)
- ORDERING AND INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL THE FOLLOWING:
    - CONTRACTOR FURNISHED SHOP DRAWINGS ARE RECEIVED AND APPROVED BY THE DESIGNER
    - PRODUCT SUBMITTAL DOCUMENTS ARE RECEIVED AND APPROVED BY THE DESIGNER
    - APPLICABLE QUALIFICATION DOCUMENTATION ARE RECEIVED AND APPROVED BY THE DESIGNER.
  - ANY DESIGN AND/OR INSTALLATION DISCREPANCIES/CHANGE ORDER REQUESTS ARE TO BE ADDRESSED AT TIME OF SHOP DRAWING CREATION. CHANGE ORDERS AFTER APPROVED SHOP DRAWINGS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
  - ALTERNATIVE PRODUCTS ARE TO SUBMITTED WITH A FORMAL SUBSTITUTION REQUEST AND THE CONTRACTOR IS RESPONSIBLE FOR DEMONSTRATING PRODUCT FULL EQUIVALENCY.
  - IT SHALL BE UNDERSTOOD THAT THE DRAWINGS, DETAILS, AND ONE-LINES PROVIDED WITH THE DESIGN PACKAGE ARE DIAGRAMMATIC. INFORMATION PRESENTED IN DESIGN DRAWINGS ARE AS ACCURATE AS POSSIBLE, BUT ACCURACY IS NOT GUARANTEED AND FIELD VERIFICATION, OF ALL DIMENSIONS, ROUTING, ETC., BY THE CONTRACTOR IS REQUIRED.
  - DRAWINGS AND SPECIFICATIONS ARE PROVIDED TO SHOW THE INTENT OF THE DESIGN TO ASSIST THE CONTRACTOR IN SUBMITTING AN ACCURATE BID. CONTRACTOR IS DIRECTED TO MAKE FIELD SURVEYS AS PART OF THEIR WORK PRIOR TO SUBMITTING SYSTEM LAYOUT DRAWINGS (SHOP DRAWINGS). THE CONTRACTOR SHALL MAKE ALLOWANCE IN THE PROPOSAL TO COMPLY WITH THE INTENT OF THE DESIGN.
  - IN CASE OF DOUBT OF WORK INTENDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REQUEST INSTRUCTIONS FROM THE DESIGNER OR OWNER PRIOR TO BID.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE, OPERABLE, AND FULLY FUNCTIONING SYSTEM.

- SCOPE OF WORK:**
- FURNISH AND INSTALL VIDEO INTERCOM, CARD READER AND ELECTRONIC LATCH ON CENTER GATE MULLION. SEE DETAIL 3/1000 FOR MORE INFORMATION.
  - PROVIDE, INSTALL AND PROGRAM ELECTRONIC ACCESS CONTROLLER AND POWER SUPPLY IN MDF. MODIFICATIONS TO THE ELECTRICAL POWER TO BE PERFORMED BY A LICENSED ELECTRICIAN.
  - COORDINATE WITH DISTRICT TO PROGRAM ADMIN PHONE SET FOR RING DOWN FROM VIDEO INTERCOM.
  - EXISTING 4 EA. 2" CONDUIT BACKBONE PATHWAY FROM EXISTING JUNCTION BOX TO EXISTING JUNCTION BOX.
  - PROVIDE AND INSTALL 1 EA. 1" CONDUITS MOUNTED TO NEW CHANNEL STRUT ON EXISTING CANOPY WOOD STRUCTURE.
  - PROVIDE AND INSTALL 2 EA. 2" CONDUITS MOUNTED TO NEW CHANNEL STRUT ON EXISTING CANOPY WOOD STRUCTURE.
  - PROVIDE AND INSTALL 14"x14"x4" NEMA 3R JUNCTION BOX ON WALL W/ 2 EA. 2" PENETRATIONS INTO MDF ROOM.



PROJECT NAME:  
**ALICE BIRNEY TK-8**

6254 13TH STREET  
SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED  
SCHOOL DISTRICT

5735 47TH AVENUE  
SACRAMENTO, CA 95824

SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE:  
**TECHNOLOGY COVER SHEET**

JOB NUMBER: SHEET NUMBER:

DATE:  
JAN 05, 2024

REVISION:

T000



**GENERAL NOTES:**

- NO STRUCTURAL BEAMS SHALL BE PENETRATED OR ALTERED.
- ALL WIRELESS SYSTEM CLOCKS REMOVED SHALL BE BOXED AND DELIVERED IN GOOD CONDITION TO DISTRICT MAINTENANCE WAREHOUSE.

**SCOPE OF WORK:**

- FURNISH AND INSTALL VIDEO INTERCOM, CARD READER AND ELECTRONIC LATCH ON CENTER GATE MULLION. SEE DETAIL 37000 FOR MORE INFORMATION.
- PROVIDE, INSTALL AND PROGRAM ELECTRONIC ACCESS CONTROLLER AND POWER SUPPLY IN MDF. MODIFICATIONS TO THE ELECTRICAL POWER TO BE PERFORMED BY A LICENSED ELECTRICIAN.
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ARCHITECT



PROJECT NAME:  
**ALICE BIRNEY TK-8**

6254 13TH STREET  
SACRAMENTO, CA 95831

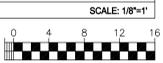
**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED  
SCHOOL DISTRICT  
5735 47TH AVENUE  
SACRAMENTO, CA 95824  
SACRAMENTO COUNTY

KEY PLAN:  
SHEET TITLE:  
**TECHNOLOGY FLOOR PLAN**

JOB NUMBER: SHEET NUMBER:  
DATE:  
JAN 05, 2024  
REVISION:  
**T200**

**TECHNOLOGY FLOOR PLAN**



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# FABRIC SHADE STRUCTURE

## DSA P.C. 04-121917

✓	SHEET NO.	SHEET DESCRIPTION	UNIT STRUCTURE TYPE	MAX. UNIT SIZE	UNIT MODEL NUMBER
XX	T-1.0	TITLE SHEET			
XX	T-2.0	UNIT SELECTION			
XX	T-3.0	T&I FORMS			
	1.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 15'	DSA4012030-22
	1.2-2000	REACTIONS	HIP	20' x 30' x 15'	DSA4012030-22
	2.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 15'	DSA4013030-22
	2.2-2000	REACTIONS	HIP	30' x 30' x 15'	DSA4013030-22
XX	3.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 15'	DSA4013040-22
XX	3.2-2000	REACTIONS	HIP	30' x 40' x 15'	DSA4013040-22
	4.1-1000	PRODUCT INFORMATION	HIP	40' x 40' x 15'	DSA4014040-22
	4.2-2000	REACTIONS	HIP	40' x 40' x 15'	DSA4014040-22
	5.1-1000	PRODUCT INFORMATION	HIP	20' x 30' x 12'	DSA401203012-22
	5.2-2000	REACTIONS	HIP	20' x 30' x 12'	DSA401203012-22
	6.1-1000	PRODUCT INFORMATION	HIP	30' x 30' x 12'	DSA401303012-22
	6.2-2000	REACTIONS	HIP	30' x 30' x 12'	DSA401303012-22
	7.1-1000	PRODUCT INFORMATION	HIP	30' x 40' x 12'	DSA401304012-22
	7.2-2000	REACTIONS	HIP	30' x 40' x 12'	DSA401304012-22
	8.1-1000	PRODUCT INFORMATION	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	8.2-2000	REACTIONS	HIP (20 psf SNOW LOAD)	20' x 30' x 15'	DSA401S2030-22
	9.1-1000	PRODUCT INFORMATION	JOINED HIPS	VARIES	DSA401J-22
	9.2-1001	DETAILS	JOINED HIPS	VARIES	DSA401J-22
	9.3-2000	REACTIONS	JOINED HIPS	VARIES	DSA401J-22
	10.1-1000	PRODUCT INFORMATION	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.2-1001	DETAILS	QUAD JOINED HIPS	VARIES	DSA401Q-22
	10.3-2000	REACTIONS	QUAD JOINED HIPS	VARIES	DSA401Q-22
	11.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
	11.2-2000	REACTIONS	FULL CANTILEVER HIP SINGLE	20' x 30' x 15'	DSA2022030-22
	12.1-1000	PRODUCT INFORMATION	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
	12.2-2000	REACTIONS	FULL CANTILEVER HIP JOINED	20' x 200' x 15'	DSA3022060-22
	13.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	13.2-2000	REACTIONS	SINGLE POST PYRAMID	14' x 14' x 12'	DSA1031414-22
	14.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	14.2-2000	REACTIONS	SINGLE POST PYRAMID	20' x 20' x 12'	DSA1032020-22
	15.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	15.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	14' x 14' x 12'	DSA1241414-22
	16.1-1000	PRODUCT INFORMATION	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	16.2-2000	REACTIONS	SINGLE POST PYRAMID CANTILEVER	20' x 20' x 12'	DSA1242020-22
	17.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	17.2-2000	REACTIONS	MARINER PEAK	30' x 30' x 15'	DSA4073030-22
	18.1-1000	PRODUCT INFORMATION	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	18.2-2000	REACTIONS	MARINER PEAK	30' x 40' x 18'	DSA4073040-22
	19.1-1000	PRODUCT INFORMATION	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	19.2-2000	REACTIONS	MARINER PEAK JOINED	30' x 133' x 15'	DSA407J3060-22
	20.1-1000	PRODUCT INFORMATION	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q0600-22
	20.2-2000	REACTIONS	MARINER PEAK QUAD	60' x 60' x 15'	DSA407Q0600-22
	21.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	21.2-2000	REACTIONS	TRI TRUSS HIP SINGLE WIDE	20' x 30' x 15'	DSA2062030-22
	22.1-1000	PRODUCT INFORMATION	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	22.2-2000	REACTIONS	TRI TRUSS HIP JOINED	20' x 200' x 15'	DSA3052060-22
	23.1-1000	PRODUCT INFORMATION	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	23.2-2000	REACTIONS	TENSION SAILS THREE POINT	30' x 133' x 15'	DSA30730-22
	24.1-1000	PRODUCT INFORMATION	TENSIONS SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	24.2-2000	REACTIONS	TENSIONS SAILS FOUR POINT	20' x 200' x 15'	DSA4182020-22
	25.1-1000	PRODUCT INFORMATION	TENSIONS SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	25.2-2000	REACTIONS	TENSIONS SAILS FOUR POINT	30' x 133' x 15'	DSA4183030-22
	26.1-1000	PRODUCT INFORMATION	TRIANGLE	25' x 25' x 15'	DSA30125-22
	26.2-2000	REACTIONS	TRIANGLE	25' x 25' x 15'	DSA30125-22
	27.1-1000	PRODUCT INFORMATION	TRIANGLE	40' x 40' x 15'	DSA30140-22
	27.2-2000	REACTIONS	TRIANGLE	40' x 40' x 15'	DSA30140-22
	28.1-1000	PRODUCT INFORMATION	HEXAGON	040' X 15'	DSA60340-22
	28.2-2000	REACTIONS	HEXAGON	040' X 15'	DSA60340-22
	29.1-1000	PRODUCT INFORMATION	HEXAGON	060' X 15'	DSA60360-22
	29.2-2000	REACTIONS	HEXAGON	060' X 15'	DSA60360-22

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN CONSENT.

**CORPORATE HEADQUARTERS**  
2580 ESTERS BLVD, SUITE 100  
DFW AIRPORT, TX, 75261  
800-966-5005

**CERTIFICATIONS:**  
IAS CERTIFICATION No: FA-428  
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

**CUSTOMER:**  
Sacramento City U.S.D.

**PROJECT NAME:**  
Alice Birney Public Waldorf TK-8 School

**LOCATION:**  
6251 13th Street  
Sacramento, CA 95831

**MODEL NUMBER:**



CALIFORNIA DESIGN WEST ARCHITECTS, INC.  
2100 19th Street  
Sacramento, CA 95818

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ARCHITECT:



CONSULTANT:

PROJECT NAME:

**ALICE BIRNEY PUBLIC WALDORF TK-8 SCHOOL**

6254 13TH STREET  
SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE  
SACRAMENTO, CA 95824

SACRAMENTO COUNTY



SHEET TITLE:

**TITLE SHEET**

JOB NUMBER:	SHEET NUMBER:
DATE: JAN 5, 2024	<b>T-1.0</b>
REVISION: ADD#3 03/05/24	

**GENERAL NOTES:**

- ALL WORK SHALL CONFORM TO THE 2022 EDITION OF THE TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
- ALL WORK SHALL BE IN COMPLIANCE WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION.
- SEE INDIVIDUAL STRUCTURAL DRAWINGS FOR SPECIFIC DESIGN NOTES AND LOADING.
- PRIOR TO SUBMITTAL ARCHITECT OF RECORD SHALL IDENTIFY PC MODEL(S) SELECTED BY END USER ON SHEETS T-1.0 AND T-2.0 BY CHECKING THE APPROPRIATE BOX ASSOCIATED WITH SELECTED PC MODEL(S). EXCLUDE SHEETS FOR MODELS NOT SELECTED.

**PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:**

- COMPLETE SCOPE OF WORK INCLUDING THE SHADE STRUCTURE MODEL NUMBER, P.C. NUMBER, AND SPECIFIC SIZE OF THE SHADE STRUCTURE(S).
- PROVIDE A CODE ANALYSIS, INCLUDING ACTUAL SHADE STRUCTURE AREA (SQ. FT.), OCCUPANCY TYPE (A-3), AND TYPE OF CONSTRUCTIONS (V-B). INDICATE OCCUPANT LOAD FACTOR (2022 CBC, SECTION 1004).
- ACTUAL DIMENSIONS OF SHADE STRUCTURES.
- DIMENSIONS FROM ADJACENT STRUCTURES AND PROXIMITY OF ASSUMED OR ACTUAL PROPERTY LINES.
- INDICATE LOCATIONS OF FIRE EXTINGUISHERS WITHIN 75 FEET.
- SHOW LOCATION OF AUDIBLE FIRE ALARM.
- ALL SADDLES, CLAMPS AND FITTINGS SHALL CONFORM TO THE GUIDELINES AS SPECIFIED IN APPENDICES "A, B, & C", RESPECTIVELY, IN ASCE/SEI 19-16. \*STRUCTURAL APPLICATIONS OF STEEL CABLES FOR BUILDINGS.\*
- ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED GEOLOGIC HAZARD ZONE. GEOHAZARD REPORTS REQUIREMENTS SHALL COMPLY WITH DSA IR A-4.
- ARCHITECTS OF RECORD TO DETERMINE IF SPECIFIC SITE IS LOCATED IN A MAPPED FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE AREA.

**FOR SNOW LOAD MODELS ONLY:**

- INDICATE DIMENSIONS FROM THE ROOF TO THE HIGHER STRUCTURE OR TERRAIN FEATURE. MINIMUM DIMENSION OF 20'-0" FOR SNOW LOAD MODEL. (ASCE 7-16).
- ACTUAL SITE ELEVATION (FEET) TO DETERMINE IF THE SITE OCCURS AT OR BELOW THE UPPER ELEVATION LIMIT FOR THE GROUND SNOW LOAD SHOWN IN ASCE 7-16.

**PLANS FOR SPECIFIC APPLICATION SHALL INCLUDE THE FOLLOWING:**

**LIST OF APPLICABLE CODES:**

- 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
- 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
- 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
- 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
- 2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

**APPLICABLE STANDARDS:**

FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 36 AND CFC CHAPTER 80.

APPLICABLE CODES			
SITE SPECIFIC PARAMETERS			
INSTRUCTIONS: DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE.			
<b>SYSTEM:</b>			
<input type="checkbox"/>	DESIGN BASED ON SITE CLASS D <sub>min</sub>	RED GEOTECHNICAL INVESTIGATION REQUIRED	S <sub>u</sub> = _____
<input type="checkbox"/>	DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16	GEOTECHNICAL INVESTIGATION PROVIDED	S <sub>u</sub> = _____
<input type="checkbox"/>	DESIGN BASED ON SITE CLASS SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16	SHORT PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S <sub>dp</sub> , SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION	S <sub>dp</sub> = _____
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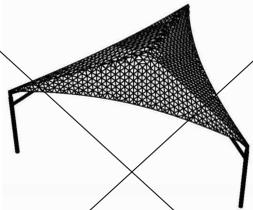
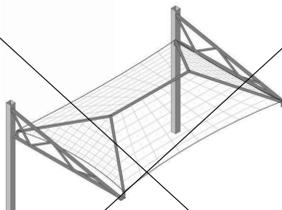
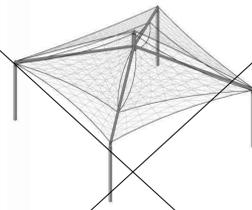
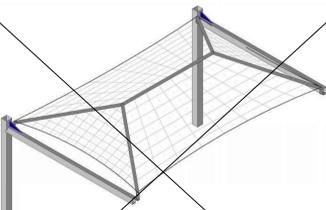
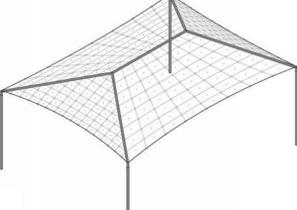
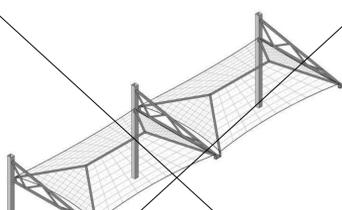
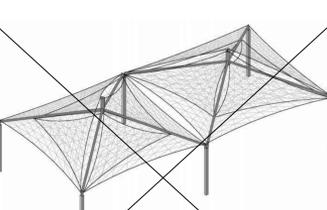
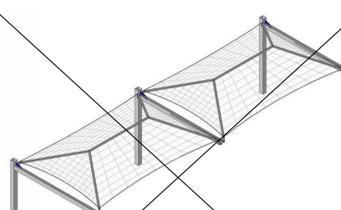
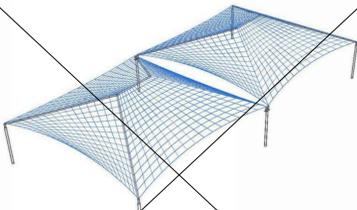
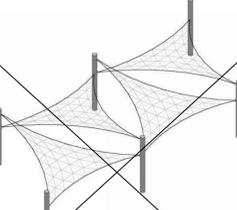
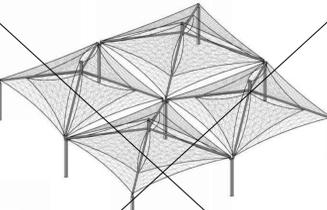
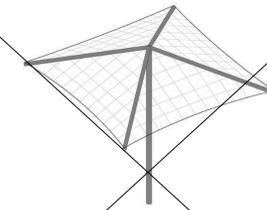
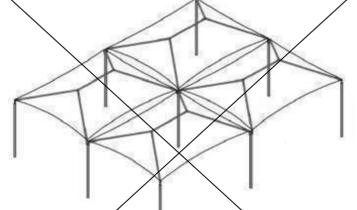
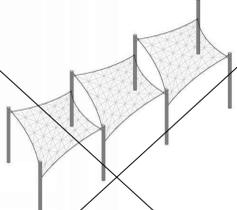
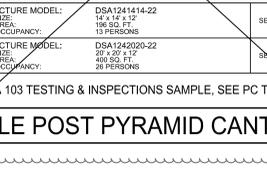
A

B

C

D

E

 STRUCTURE MODEL: DSA30125-22 MAX. SIZE: 29' x 29' x 19' MAX. AREA: 271 SQ. FT. MAX. OCCUPANCY: 18 PERSONS SEE SHEET 26.1-1000	 STRUCTURE MODEL: DSA2062030-22 MAX. SIZE: 30' x 30' x 19' MAX. AREA: 800 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 21.1-1000	 STRUCTURE MODEL: DSA4073030-22 MAX. SIZE: 30' x 30' x 19' MAX. AREA: 800 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 17.1-1000	 STRUCTURE MODEL: DSA2022030-22 MAX. SIZE: 30' x 30' x 19' MAX. AREA: 800 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 11.1-1000	 STRUCTURE MODEL: DSA4012030-22 MAX. SIZE: 30' x 30' x 19' MAX. AREA: 800 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 1.1-1000
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>TRIANGLE</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>TRI-TRUSS HIP SINGLE WIDE</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>MARINER PEAK</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>FULL CANTILEVER HIP SINGLE</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>HIP</b>
 STRUCTURE MODEL: DSA60340-22 MAX. SIZE: 30' x 15' MAX. AREA: 1,040 SQ. FT. MAX. OCCUPANCY: 60 PERSONS SEE SHEET 28.1-1000	 STRUCTURE MODEL: DSA3052060-22 MAX. SIZE: 30' x 30' x 19' MAX. AREA: 2,000 SQ. FT. MAX. OCCUPANCY: 200 PERSONS SEE SHEET 22.1-1000	 STRUCTURE MODEL: DSA4073060-22 MAX. SIZE: 30' x 30' x 19' MAX. AREA: 2,000 SQ. FT. MAX. OCCUPANCY: 200 PERSONS SEE SHEET 19.1-1000	 STRUCTURE MODEL: DSA3022060-22 MAX. SIZE: 30' x 30' x 19' MAX. AREA: 2,000 SQ. FT. MAX. OCCUPANCY: 200 PERSONS SEE SHEET 12.1-1000	 STRUCTURE MODEL: DSA401J-22 MAX. SIZE: VARIES MAX. AREA: SEE JOINED HIP UNIT SHEET MAX. OCCUPANCY: VARIES SEE SHEET 9.1-1000
FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>HEXAGON</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>TRI-TRUSS HIP JOINED</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>MARINER PEAK JOINED</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>FULL CANTILEVER HIP JOINED</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>JOINED HIP</b>
NOT USED	 STRUCTURE MODEL: DSA30730-22 MAX. SIZE: 30' x 133' x 19' MAX. AREA: 3,000 SQ. FT. MAX. OCCUPANCY: 200 PERSONS SEE SHEET 23.1-1000	 STRUCTURE MODEL: DSA4073060-22 MAX. SIZE: 30' x 30' x 19' MAX. AREA: 2,000 SQ. FT. MAX. OCCUPANCY: 200 PERSONS SEE SHEET 20.1-1000	 STRUCTURE MODEL: DSA1032020-22 MAX. SIZE: 30' x 30' x 19' MAX. AREA: 800 SQ. FT. MAX. OCCUPANCY: 40 PERSONS SEE SHEET 14.1-1000	 STRUCTURE MODEL: DSA401Q-22 MAX. SIZE: VARIES MAX. AREA: SEE QUAD HIP UNIT SHEET MAX. OCCUPANCY: VARIES SEE SHEET 10.1-1000
NOT USED	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>TENSIONS SAILS THREE-POINT</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>MARINER PEAK QUAD</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>SINGLE POST PYRAMID</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>QUAD HIP</b>
NOT USED	 STRUCTURE MODEL: DSA4182020-22 MAX. SIZE: 30' x 207' x 19' MAX. AREA: 4,000 SQ. FT. MAX. OCCUPANCY: 200 PERSONS SEE SHEET 24.1-1000	NOT USED	 STRUCTURE MODEL: DSA124144-22 MAX. SIZE: 14' x 14' x 12' MAX. AREA: 196 SQ. FT. MAX. OCCUPANCY: 13 PERSONS SEE SHEET 15.1-1000	 STRUCTURE MODEL: DSA1242020-22 MAX. SIZE: 48' x 22' x 12' MAX. AREA: 480 SQ. FT. MAX. OCCUPANCY: 28 PERSONS SEE SHEET 16.1-1000
NOT USED	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>TENSIONS SAILS FOUR-POINT</b>	NOT USED	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>SINGLE POST PYRAMID CANTILEVER</b>	FOR DSA 103 TESTING & INSPECTIONS SAMPLE, SEE PC T-3.0 & PC T-4.0 <b>SINGLE POST PYRAMID CANTILEVER</b>

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN CONSENT.

**USASHADE & Fabric Structures**

**CORPORATE HEADQUARTERS**  
 2580 ESTERS BLVD., SUITE 100  
 DFW AIRPORT, TX, 75261  
 800-966-5005

**CERTIFICATIONS:**  
 IAS CERTIFICATION No: FA-428  
 CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

**CUSTOMER:**  
 Sacramento City U.S.D.

**PROJECT NAME:**  
 Alice Birney Public Waldorf TK-8 School

**LOCATION:**  
 6251 13th Street  
 Sacramento, CA 95831

**MODEL NUMBER:**

**STRUCTURE TYPE:**

**SCALE:** VARIES

**DRAWING SIZE:** D

**PRE-CHECK (PC) DOCUMENT**  
 Code: 2022-CBC  
 A separate project application for construction is required.

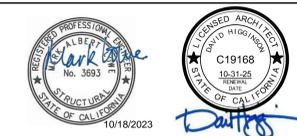
**Eng. By:** DWH 2/14/23  
**Design By:** DWH 2/14/23  
**Approved By:** DWH 2/14/23

**DRAWING DESCRIPTION:**

**DWG. UNIT SELECTION**

**SHEET T-2.0**

**REV.**



**PROJECT NAME:**  
**ALICE BIRNEY PUBLIC WALDORF TK-8 SCHOOL**  
 6254 13TH STREET  
 SACRAMENTO, CA 95831

**CAMPUS RENEWAL**

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
 5735 47TH AVENUE  
 SACRAMENTO, CA 95824  
 SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE:  
**UNIT SELECTION**

JOB NUMBER: SHEET NUMBER:  
**T-2.0**

DATE:  
 JAN 5, 2024

REVISION:  
 ADD#3 03/05/24

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC**  
 Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917  
 School Name: PC FABRIC SHADE STRUCTURES  
 Date Created: 2023-02-15 15:23:09

**2022 CBC**

**IMPORTANT:** This form is only a summary list of structural tests and special inspections required for the project. Generally, structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The Appendix at the bottom of this form identifies specific DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection details of construction, including but not limited to, special inspections or testing on this form such as structural wood framing, high load wood diaphragms, cold-formed steel framing and change of non-structural components, etc. per Title 24, Part 2, Chapter 17A (2022 CBC).

**\*\*NOTE:** Undefined section and table references found in this document are from the CBC, or California Building Code.

Test or Special Inspection	Type	Performed By	Code References and Notes
1. TYPE			
Continuous - Indicates that a continuous special inspection is required			
Periodic - Indicates that a periodic special inspection is required			
Test - Indicates that a test is required			

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC**  
 Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917  
 School Name: PC FABRIC SHADE STRUCTURES  
 Date Created: 2023-02-15 15:23:09

**2022 CBC**

**IMPORTANT:** This form is only a summary list of structural tests and special inspections required for the project. Generally, structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The Appendix at the bottom of this form identifies specific DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection details of construction, including but not limited to, special inspections or testing on this form such as structural wood framing, high load wood diaphragms, cold-formed steel framing and change of non-structural components, etc. per Title 24, Part 2, Chapter 17A (2022 CBC).

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**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC**  
 Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917  
 School Name: PC FABRIC SHADE STRUCTURES  
 Date Created: 2023-02-15 15:23:09

**2022 CBC**

**IMPORTANT:** This form is only a summary list of structural tests and special inspections required for the project. Generally, structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The Appendix at the bottom of this form identifies specific DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection details of construction, including but not limited to, special inspections or testing on this form such as structural wood framing, high load wood diaphragms, cold-formed steel framing and change of non-structural components, etc. per Title 24, Part 2, Chapter 17A (2022 CBC).

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**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (SOILS), 2022 CBC**  
 Table 1705A.6, Table 1705A.7, Table 1705A.8

Application Number: 04-121917  
 School Name: PC FABRIC SHADE STRUCTURES  
 Date Created: 2023-02-15 15:23:09

**2022 CBC**

**IMPORTANT:** This form is only a summary list of structural tests and special inspections required for the project. Generally, structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The Appendix at the bottom of this form identifies specific DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection details of construction, including but not limited to, special inspections or testing on this form such as structural wood framing, high load wood diaphragms, cold-formed steel framing and change of non-structural components, etc. per Title 24, Part 2, Chapter 17A (2022 CBC).

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Test or Special Inspection	Type	Performed By	Code References and Notes
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**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC**  
 Table 1705A.2, ACI 318-19 Sections 26.3.2 & 26.3.3

Application Number: 04-121917  
 School Name: PC FABRIC SHADE STRUCTURES  
 Date Created: 2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
1. TYPE			
Continuous - Indicates that a continuous special inspection is required			
Periodic - Indicates that a periodic special inspection is required			
Test - Indicates that a test is required			

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC**  
 Table 1705A.2, ACI 318-19 Sections 26.3.2 & 26.3.3

Application Number: 04-121917  
 School Name: PC FABRIC SHADE STRUCTURES  
 Date Created: 2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
1. TYPE			
Continuous - Indicates that a continuous special inspection is required			
Periodic - Indicates that a periodic special inspection is required			
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**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC**  
 Table 1705A.2, ACI 318-19 Sections 26.3.2 & 26.3.3

Application Number: 04-121917  
 School Name: PC FABRIC SHADE STRUCTURES  
 Date Created: 2023-02-15 15:23:09

Test or Special Inspection	Type	Performed By	Code References and Notes
1. TYPE			
Continuous - Indicates that a continuous special inspection is required			
Periodic - Indicates that a periodic special inspection is required			
Test - Indicates that a test is required			

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**  
 Table 1705A.2, Table 1705A.3, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.5, AWS D1.6, AWS D1.7, AWS D1.8, AWS D1.9, AWS D1.10, AWS D1.11, AWS D1.12, AWS D1.13, AWS D1.14, AWS D1.15, AWS D1.16, AWS D1.17, AWS D1.18, AWS D1.19, AWS D1.20, AWS D1.21, AWS D1.22, AWS D1.23, AWS D1.24, AWS D1.25, AWS D1.26, AWS D1.27, AWS D1.28, AWS D1.29, AWS D1.30, AWS D1.31, AWS D1.32, AWS D1.33, AWS D1.34, AWS D1.35, AWS D1.36, AWS D1.37, AWS D1.38, AWS D1.39, AWS D1.40, AWS D1.41, AWS D1.42, AWS D1.43, AWS D1.44, AWS D1.45, AWS D1.46, AWS D1.47, AWS D1.48, AWS D1.49, AWS D1.50, AWS D1.51, AWS D1.52, AWS D1.53, AWS D1.54, AWS D1.55, AWS D1.56, AWS D1.57, AWS D1.58, AWS D1.59, AWS D1.60, AWS D1.61, AWS D1.62, AWS D1.63, AWS D1.64, AWS D1.65, AWS D1.66, AWS D1.67, AWS D1.68, AWS D1.69, AWS D1.70, AWS D1.71, AWS D1.72, AWS D1.73, AWS D1.74, AWS D1.75, AWS D1.76, AWS D1.77, AWS D1.78, AWS D1.79, AWS D1.80, AWS D1.81, AWS D1.82, AWS D1.83, AWS D1.84, AWS D1.85, AWS D1.86, AWS D1.87, AWS D1.88, AWS D1.89, AWS D1.90, AWS D1.91, AWS D1.92, AWS D1.93, AWS D1.94, AWS D1.95, AWS D1.96, AWS D1.97, AWS D1.98, AWS D1.99, AWS D1.100

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**  
 Table 1705A.2, Table 1705A.3, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.5, AWS D1.6, AWS D1.7, AWS D1.8, AWS D1.9, AWS D1.10, AWS D1.11, AWS D1.12, AWS D1.13, AWS D1.14, AWS D1.15, AWS D1.16, AWS D1.17, AWS D1.18, AWS D1.19, AWS D1.20, AWS D1.21, AWS D1.22, AWS D1.23, AWS D1.24, AWS D1.25, AWS D1.26, AWS D1.27, AWS D1.28, AWS D1.29, AWS D1.30, AWS D1.31, AWS D1.32, AWS D1.33, AWS D1.34, AWS D1.35, AWS D1.36, AWS D1.37, AWS D1.38, AWS D1.39, AWS D1.40, AWS D1.41, AWS D1.42, AWS D1.43, AWS D1.44, AWS D1.45, AWS D1.46, AWS D1.47, AWS D1.48, AWS D1.49, AWS D1.50, AWS D1.51, AWS D1.52, AWS D1.53, AWS D1.54, AWS D1.55, AWS D1.56, AWS D1.57, AWS D1.58, AWS D1.59, AWS D1.60, AWS D1.61, AWS D1.62, AWS D1.63, AWS D1.64, AWS D1.65, AWS D1.66, AWS D1.67, AWS D1.68, AWS D1.69, AWS D1.70, AWS D1.71, AWS D1.72, AWS D1.73, AWS D1.74, AWS D1.75, AWS D1.76, AWS D1.77, AWS D1.78, AWS D1.79, AWS D1.80, AWS D1.81, AWS D1.82, AWS D1.83, AWS D1.84, AWS D1.85, AWS D1.86, AWS D1.87, AWS D1.88, AWS D1.89, AWS D1.90, AWS D1.91, AWS D1.92, AWS D1.93, AWS D1.94, AWS D1.95, AWS D1.96, AWS D1.97, AWS D1.98, AWS D1.99, AWS D1.100

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**  
 Table 1705A.2, Table 1705A.3, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.5, AWS D1.6, AWS D1.7, AWS D1.8, AWS D1.9, AWS D1.10, AWS D1.11, AWS D1.12, AWS D1.13, AWS D1.14, AWS D1.15, AWS D1.16, AWS D1.17, AWS D1.18, AWS D1.19, AWS D1.20, AWS D1.21, AWS D1.22, AWS D1.23, AWS D1.24, AWS D1.25, AWS D1.26, AWS D1.27, AWS D1.28, AWS D1.29, AWS D1.30, AWS D1.31, AWS D1.32, AWS D1.33, AWS D1.34, AWS D1.35, AWS D1.36, AWS D1.37, AWS D1.38, AWS D1.39, AWS D1.40, AWS D1.41, AWS D1.42, AWS D1.43, AWS D1.44, AWS D1.45, AWS D1.46, AWS D1.47, AWS D1.48, AWS D1.49, AWS D1.50, AWS D1.51, AWS D1.52, AWS D1.53, AWS D1.54, AWS D1.55, AWS D1.56, AWS D1.57, AWS D1.58, AWS D1.59, AWS D1.60, AWS D1.61, AWS D1.62, AWS D1.63, AWS D1.64, AWS D1.65, AWS D1.66, AWS D1.67, AWS D1.68, AWS D1.69, AWS D1.70, AWS D1.71, AWS D1.72, AWS D1.73, AWS D1.74, AWS D1.75, AWS D1.76, AWS D1.77, AWS D1.78, AWS D1.79, AWS D1.80, AWS D1.81, AWS D1.82, AWS D1.83, AWS D1.84, AWS D1.85, AWS D1.86, AWS D1.87, AWS D1.88, AWS D1.89, AWS D1.90, AWS D1.91, AWS D1.92, AWS D1.93, AWS D1.94, AWS D1.95, AWS D1.96, AWS D1.97, AWS D1.98, AWS D1.99, AWS D1.100

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**  
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**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**  
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**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**  
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**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**  
 Table 1705A.2, Table 1705A.3, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.5, AWS D1.6, AWS D1.7, AWS D1.8, AWS D1.9, AWS D1.10, AWS D1.11, AWS D1.12, AWS D1.13, AWS D1.14, AWS D1.15, AWS D1.16, AWS D1.17, AWS D1.18, AWS D1.19, AWS D1.20, AWS D1.21, AWS D1.22, AWS D1.23, AWS D1.24, AWS D1.25, AWS D1.26, AWS D1.27, AWS D1.28, AWS D1.29, AWS D1.30, AWS D1.31, AWS D1.32, AWS D1.33, AWS D1.34, AWS D1.35, AWS D1.36, AWS D1.37, AWS D1.38, AWS D1.39, AWS D1.40, AWS D1.41, AWS D1.42, AWS D1.43, AWS D1.44, AWS D1.45, AWS D1.46, AWS D1.47, AWS D1.48, AWS D1.49, AWS D1.50, AWS D1.51, AWS D1.52, AWS D1.53, AWS D1.54, AWS D1.55, AWS D1.56, AWS D1.57, AWS D1.58, AWS D1.59, AWS D1.60, AWS D1.61, AWS D1.62, AWS D1.63, AWS D1.64, AWS D1.65, AWS D1.66, AWS D1.67, AWS D1.68, AWS D1.69, AWS D1.70, AWS D1.71, AWS D1.72, AWS D1.73, AWS D1.74, AWS D1.75, AWS D1.76, AWS D1.77, AWS D1.78, AWS D1.79, AWS D1.80, AWS D1.81, AWS D1.82, AWS D1.83, AWS D1.84, AWS D1.85, AWS D1.86, AWS D1.87, AWS D1.88, AWS D1.89, AWS D1.90, AWS D1.91, AWS D1.92, AWS D1.93, AWS D1.94, AWS D1.95, AWS D1.96, AWS D1.97, AWS D1.98, AWS D1.99, AWS D1.100

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**  
 Table 1705A.2, Table 1705A.3, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.5, AWS D1.6, AWS D1.7, AWS D1.8, AWS D1.9, AWS D1.10, AWS D1.11, AWS D1.12, AWS D1.13, AWS D1.14, AWS D1.15, AWS D1.16, AWS D1.17, AWS D1.18, AWS D1.19, AWS D1.20, AWS D1.21, AWS D1.22, AWS D1.23, AWS D1.24, AWS D1.25, AWS D1.26, AWS D1.27, AWS D1.28, AWS D1.29, AWS D1.30, AWS D1.31, AWS D1.32, AWS D1.33, AWS D1.34, AWS D1.35, AWS D1.36, AWS D1.37, AWS D1.38, AWS D1.39, AWS D1.40, AWS D1.41, AWS D1.42, AWS D1.43, AWS D1.44, AWS D1.45, AWS D1.46, AWS D1.47, AWS D1.48, AWS D1.49, AWS D1.50, AWS D1.51, AWS D1.52, AWS D1.53, AWS D1.54, AWS D1.55, AWS D1.56, AWS D1.57, AWS D1.58, AWS D1.59, AWS D1.60, AWS D1.61, AWS D1.62, AWS D1.63, AWS D1.64, AWS D1.65, AWS D1.66, AWS D1.67, AWS D1.68, AWS D1.69, AWS D1.70, AWS D1.71, AWS D1.72, AWS D1.73, AWS D1.74, AWS D1.75, AWS D1.76, AWS D1.77, AWS D1.78, AWS D1.79, AWS D1.80, AWS D1.81, AWS D1.82, AWS D1.83, AWS D1.84, AWS D1.85, AWS D1.86, AWS D1.87, AWS D1.88, AWS D1.89, AWS D1.90, AWS D1.91, AWS D1.92, AWS D1.93, AWS D1.94, AWS D1.95, AWS D1.96, AWS D1.97, AWS D1.98, AWS D1.99, AWS D1.100

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (STEEL AND ALUMINUM), 2022 CBC**  
 Table 1705A.2, Table 1705A.3, AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.5, AWS D1.6, AWS D1.7, AWS D1.8, AWS D1.9, AWS D1.10, AWS D1.11, AWS D1.12, AWS D1.13, AWS D1.14, AWS D1.15, AWS D1.16, AWS D1.17, AWS D1.18, AWS D1.19, AWS D1.20, AWS D1.21, AWS D1.22, AWS D1.23, AWS D1.24, AWS D1.25, AWS D1.26, AWS D1.27, AWS D1.28, AWS D1.29, AWS D1.30, AWS D1.31, AWS D1.32, AWS D1.33, AWS D1.34, AWS D1.35, AWS D1.36, AWS D1.37, AWS D1.38, AWS D1.39, AWS D1.40, AWS D1.41, AWS D1.42, AWS D1.43, AWS D1.44, AWS D1.45, AWS D1.46, AWS D1.47, AWS D1.48, AWS D1.49, AWS D1.50, AWS D1.51, AWS D1.52, AWS D1.53, AWS D1.54, AWS D1.55, AWS D1.56, AWS D1.57, AWS D1.58, AWS D1.59, AWS D1.60, AWS D1.61, AWS D1.62, AWS D1.63, AWS D1.64, AWS D1.65, AWS D1.66, AWS D1.67, AWS D1.68, AWS D1.69, AWS D1.70, AWS D1.71, AWS D1.72, AWS D1.73, AWS D1.74, AWS D1.75, AWS D1.76, AWS D1.77, AWS D1.78, AWS D1.79, AWS D1.80, AWS D1.81, AWS D1.82, AWS D1.83, AWS D1.84, AWS D1.85, AWS D1.86, AWS D1.87, AWS D1.88, AWS D1.89, AWS D1.90, AWS D1.91, AWS D1.92, AWS D1.93, AWS D1.94, AWS D1.95, AWS D1.96, AWS D1.97, AWS D1.98, AWS D1.99, AWS D1.100

**DSA 103 (SAMPLE) - STATEMENT OF STRUCTURAL TESTS AND INSPECTIONS**

1. THE SAMPLE DSA-103 FORM PROVIDED ON THIS SHEET IS FOR ILLUSTRATIVE PURPOSES ONLY TO ASSIST IN THE COMPLETION OF SPECIFIC DSA-103 FORMS FOR FUTURE PROJECTS.

2. A CURRENT DSA-103 FORM IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS P.C. DOCUMENT IS BEING INCORPORATED INTO AND ALL SAMPLE DSA-103 SHEETS ARE TO BE CROSSED OUT ON THIS SHEET

**GENERAL DSA-103 NOTES:**

1. THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE EMPLOYED BY THE SCHOOL DISTRICT AND APPROVED BY DSA AND THE ARCHITECT OF RECORD.

2. A DSA CERTIFIED PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-362, PART 1, TITLE 24, CCR.

3. THE SITE PROJECT INSPECTOR SHALL BE CLASS 2.

4. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TEST AND INSPECTIONS FOR THE PROJECT.

5. THE COSTS OF THE PROJECT INSPECTOR AND TESTING AGENCY SHALL BE BORN BY THE SCHOOL DISTRICT. COPIES OF THE VERIFIED REPORTS SHALL BE SENT TO DSA, THE ARCHITECT, THE SCHOOL DISTRICT, THE CONTRACTOR, AND THE PROJECT INSPECTOR.

6. THE IN-PLANT INSPECTOR SHALL BE A WELDING SPECIAL INSPECTOR FOR MATERIAL VERIFICATION AND WELDING.

7. PER 2022 CBC SECTION 1705A.3.3, BATCH PLANT INSPECTION MAY BE WAIVED WHEN THE FOLLOWING REQUIREMENTS ARE MET:

a. A LICENSED WELDMAN SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.

b. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD. SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFICATION. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENGINEERING AGENCY.



10/18/2023

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN

**USASHADE & Fabric Structures**

CORPORATE HEADQUARTERS  
 280 ESTERS BLVD, SUITE 100  
 DFW AIRPORT, TX, 75261  
 800-966-5005

**CERTIFICATIONS:**  
 IAS CERTIFICATION No: FA-428  
 CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 365

**CUSTOMER:**  
 Sacramento City U.S.D.

**PROJECT NAME:**  
 Alice Birney Public Waldorf TK-8 School  
 6251 13th Street  
 Sacramento, CA 95831

**MODEL NUMBER:**

**GENERAL NOTES**

- SPECIAL INSPECTION REQUIREMENTS SHALL FOLLOW THE ATTACHED SAMPLE TEST AND INSPECTION LIST (T-1 LIST) APPROVED BY DSA. THE SHOP WELDING INSPECTION SHALL INCLUDE WELDING OF ALL STEEL MEMBERS AND IDENTIFICATION OF STEEL THROUGH MILL CERTIFICATE OR MATERIAL TESTING. UNCERTIFIED STEEL SHALL BE TESTED TO THE REQUIREMENTS OF CBC 2022 CHAPTER 17A. THE FIELD SPECIAL INSPECTION SHALL INCLUDE COMPRESSION CYLINDER TESTS FOR THE CONCRETE FOUNDATION.
  - STRUCTURE SHALL BE IN THE LOCATION SHOWN ON THE SITE SPECIFIC DSA APPLICATION DRAWING.
  - FOUNDATION DESIGN BASED ON CBC 2022, TABLE 1806A.2, SOIL CLASS 5 (ALLOWABLE FOUNDATION PRESSURE 1500 PSF)
  - DESIGN PER FOLLOWING CODES: CBC 2022 (CHAPTER 35), ASCE 7-16, AISC 360-16, AISC 341-16, ACI 318-19, ASCE 55-16 ASCE 19-16
- STRUCTURAL STEEL**
- FABRICATION OF THE STEEL STRUCTURES SHALL BE PERFORMED BY SHADE STRUCTURES OR AN AUTHORIZED LICENSEE. MATERIAL TESTING (OR MILL CERTIFICATES) AND INSPECTION OF WELDING SHALL BE CONDUCTED PER CBC 2022 SECTIONS 1704A, 1705A, AND TABLE 1705A.2.1.
  - ONLY CALIFORNIA LICENSED CONTRACTORS AUTHORIZED BY SHADE STRUCTURES SHALL INSTALL THE SHADE STRUCTURES.
  - ALL WORK SHALL CONFORM TO CBC 2022 EDITION, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
  - ALL GALVANIZED STEEL TUBE PRODUCTS MANUFACTURED BY ALLIED TUBE CONDUIT FOR THIS STRUCTURE SHALL BE, AND CONFORM TO ASTM A500-16 GRADE C, IN ITS ENTIRETY. TYPICAL MECHANICAL PROPERTIES ARE:  
ROUND TUBE GRADE C 46,000 PSI YIELD STRESS MINIMUM / 62,000 PSI TENSILE STRESS MINIMUM
  - ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR HSS PRODUCTS:  
SQUARE AND RECTANGULAR 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS  
ROUND PIPE 50,000 PSI YIELD STRESS / 62,000 PSI TENSILE STRESS
  - ALL PLATES PRODUCTS SHALL COMPLY WITH ASTM A572 GRADE 50.
  - STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERRECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.
  - ALL WELDING TO CONFORM WITH AMERICAN WELDING SOCIETY STANDARDS AND SHALL BE INSPECTED BY AN AWS/CWI INSPECTOR. AWS D1.1 FOR HOT ROLLED. AWS D1.3 FOR SHEET/COLD FORMED. AWS D1.8 SEISMIC SUPPLEMENT.
  - ALL FULL PENETRATION WELD SHALL BE CONTINUOUSLY INSPECTED PER AWS D1.1 D1.8.
  - SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" E70T5X ELECTRODES UNLESS OTHERWISE NOTED. GMAW IS ACCEPTABLE.
  - ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, YIELD STRENGTH 45 KSI, TENSILE STRENGTH 85 KSI MINIMUM, ALLOY GROUP 2, CONDITION CWP2. ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 2, CONDITION CWP2. REFER TO RSCC, ASTM F-593 IS NOT CONSIDERED AS HIGH STRENGTH BOLTS. BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION (ST).
  - ALL STRUCTURAL STEEL (ITEMS FROM NOTE 5) SHALL BE POWDER COATED WITH ONE SHOP COAT (2.5 MILS MIN.) OF ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT, OR EQUIVALENT PAINT SYSTEM. THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS ASKO NOBEL, PRO OR TIGER DRYLAC) TO ACHIEVE OPTIMUM ADHESION. IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TOIC) SPECIFICATIONS SHALL BE AS FOLLOWS:  
- PENCIL HARDNESS (ASTM D-3383) - HUMIDITY (ASTM D-2247)  
- SOLVENT RESISTANCE (PCI METHOD) - 50 DBL RUBS SL SOFTNESS.
  - ALL STEEL ROUND TUBING (ITEMS FROM NOTE 4) SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE CONDUIT.
  - ALL EXPOSED STEEL FASTENERS SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT DIP GALVANIZED (ASTM A153, CLASS B MINIMUM OR ASTM F2329) AS APPLICABLE, OR PROTECTED WITH CORROSION PREVENTATIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.

**CONCRETE SPECIFICATION**

- CONCRETE SHALL BE SAMPLED AND TESTED PER CBC 2022 SECTION 1903A. SLAG BE INSPECTED PER SECTION 1903A.
- CONCRETE TO BE F' 4500 PSI, TYPE V CEMENT PLUS POZZOLAN OR SLAG CEMENT. MAXIMUM WATER/CEMENT RATIO OF 0.45, PER ACI 318-19 CHAPTER 19. (NO ADMIXTURES CONTAINING CALCIUM CHLORIDE WILL BE USED.) REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 AND TO BE F 60000 PSI, MIN. GR. 60 ALSO COATED ACCORDING TO ASTM A776/A776M, STANDARD SPECIFICATION FOR ZINC-COATING (GALVANIZED) STEEL BARS FOR CONCRETE REINFORCEMENT.
- ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 36 (GALVANIZED PER ASTM A153, CLASS B MINIMUM OR ASTM F2329). ANCHOR BOLTS DIAMETER NEEDS TO BE AS FOLLOWS:  
A) ANCHOR BOLT 1 1/4"
- CERTIFIED MILL TEST REPORTS ARE TO BE PROVIDED FOR EACH SHIPMENT OF REINFORCEMENT.
- ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1107, WHEN APPLICABLE.
- CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.

**FABRIC SPECIFICATION**

- FABRIC SHALL BE MANUFACTURED BY MULTIKNIT LTD., WHICH MEETS THE SPECIFICATIONS LISTED ON PAGE 2000, AND SHALL BE FABRICATED FROM POLYETHYLENE MATERIALS. MINIMUM SEAM LENGTH 34".
- THE FABRIC SHALL RETAIN 80% OF ITS TENSILE AND TEARING STRENGTH AFTER ULTRAVIOLET EXPOSURE PER ASTM G53 USING A 313 NM LIGHT SOURCE FOR 500 HOURS WHILE MOISTENED FOR 1 HOUR EVERY 12 HOURS.
- PROVIDE CERTIFICATION BY MANUFACTURER AND STATE FIRE MARSHAL TO SCHOOL'S DISTRICT INSPECTOR OF RECORD AT SITE SPECIFIC INSTALLATION. COPY OF FIRE CERTIFICATION SHALL BE SENT TO DSA.
- FABRIC SHALL REQUIRE ANNUAL INSPECTION AND MAINTENANCE BY THE DISTRICT. FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84 EXTENDED 30 MINUTES TEST FLAME SPREAD INDEX (FSI): 10, SMOKE DEVELOPED INDEX (SDI): 50. FABRIC IS ACCEPTABLE FOR USE IN WILDLIFE URBAN INTERFACE AREA.
- FABRIC TOP NEEDS TO BE REMOVED IF SNOW EXCEEDING 5 PSF ARE ANTICIPATED. FABRIC TOP NEEDS TO BE REMOVED IF WINDS EXCEEDING 115 MPH ARE ANTICIPATED.
- A VISUAL INSPECTION LOOKING FOR TEAR AND ABNORMAL WEAR IN FABRIC MATERIAL AND THREAD IS REQUIRED PRIOR TO RE-INSTALLATION. USA SHADE FABRIC STRUCTURES SHALL BE NOTIFIED IF SIGNIFICANT DAMAGE IS PRESENT BEFORE RE-INSTALLATION.

**AIRCRAFT CABLE**

- FOR FABRIC ATTACHMENT USE 3/8" 7 19 GALV. CABLE PER ASTM A1023/A1023M WITH A BREAKING STRENGTH VALUE OF 14,400 LBS. CABLE SHALL BE TENSIONED TO 300 LBS MINIMUM AND 500 LBS MAXIMUM. THE MAXIMUM CALCULATED CABLE ALLOWABLE CAPACITY IS 5 4909 LB.
- CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTING VISITS AS REQUIRED.

MAXIMUM OCCUPANT LOAD (PER CBC 2022 TABLE 1604A.5)	
-K-12:	250 PERSONS
-PUBLIC ASSEMBLY:	300 PERSONS
-EDUCATIONAL OCCUPANCIES ABOVE 12TH GRADE:	500 PERSONS

**CBC PC DESIGN NOTES**

- BUILDING CODE: CBC 2022 (BASED ON IBC 2021)  
FLOOR LIVE LOAD: N/A  
ROOF LIVE LOAD: 5 PSF
- ALLOWABLE SOIL PRESSURE:  
DL LL (CONC FTG) 1500 PSF  
DL LL SEISMIC (CONC FTG) 1500 PSF  
LATERAL BEARING DESIGN VALUE 100 PSF/FT BELOW NATURAL GRADE, PER TABLE 1806A.2 TWO TIMES THE TABULAR VALUE IS USED (200 PSF/FT)  
PER CBC SECTION 1806A.3.4.  
ALLOWABLE PIER FRICTIONAL RESISTANCE 230 PSF MAXIMUM BASED ON SECTION 1810A.3.3.1.4 (ONE-SIXTH OF THE BEARING VALUE). UPLIFT FRICTIONAL RESISTANCE HAVE A SAFETY FACTOR OF 3.

**ROOF SNOW LOAD**

- ICE LOAD: 5 PSF  
ZERO PSF  
FLOOD HAZARD AREA: ZONE X  
WHEN A SITE SPECIFIC PRO ECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC ARE STILL APPLICABLE.

**WIND DESIGN DIRECTIONAL PROCEDURE: ASCE 7-16, SECTION 27.3.2**

- NOTE: WIND DESIGN IS LIMITED TO UNOBSTRUCTED CLEAR FLOW CONDITION  
- BASIC DESIGN WIND SPEED (3 SEC GUST) V 115 MPH  
- ASD WIND LOAD (CBC 2022 SEC. 1603A.1.4) V ASD 90 MPH  
- WIND EXPOSURE FACTOR C 0.85 (1/316' HOLE)  
- TOPOGRAPHIC FACTOR K 1  
- RISK CATEGORY II  
- WIND VELOCITY PRESSURE EXPOSURE COEFFICIENT K 0.8  
- VELOCITY PRESSURE K 25.32 PSF

**SEISMIC DESIGN:**

- SITE CLASS D  
NOTE: UNLESS A SITE-SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED, THE SMI VALUE INCREASED BY 50% SHALL BE LESS THAN THE DESIGN CRITERIA STATED HEREIN.  
SS 3.00  
S1 1.389  
SDS 2.00  
SD1 1.39

**-SPECTRAL RESPONSE COEFFICIENTS**

- LATERAL FORCE RESISTING SYSTEM G.2 ORDINARY CANTILEVERED COLUMN SYSTEM.  
I 1.0  
V 4210 LB  
R 1.6  
C 1.25  
EQUVALENT LATERAL FORCE ANALYSIS PROCEDURE II  
- RISK CATEGORY E  
- SEISMIC DESIGN CATEGORY 1  
- SITE COEFFICIENT CATEGORY F  
- REDUNDANCY FACTOR p 1.3

**GEHAZARD REPORT IS NOT REQUIRED FOR OPEN FABRIC STRUCTURES**

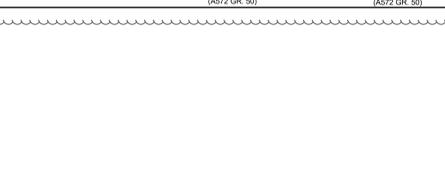
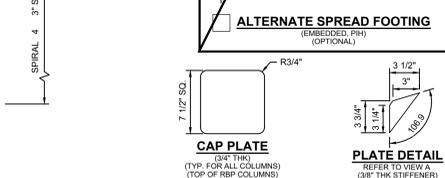
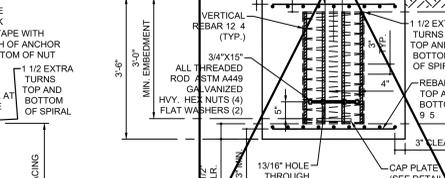
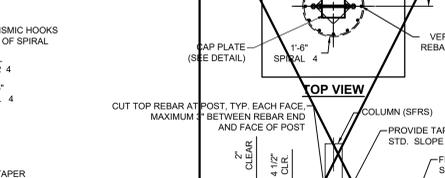
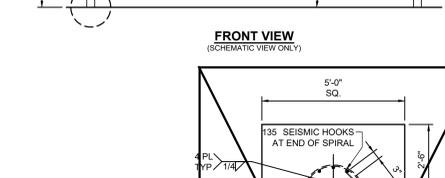
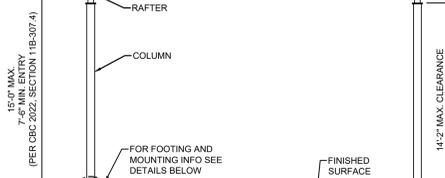
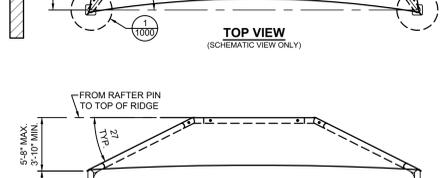
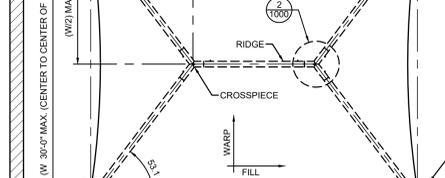
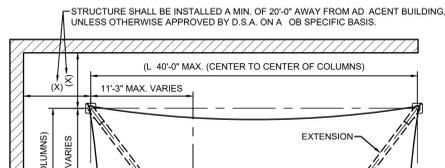
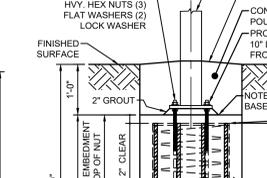
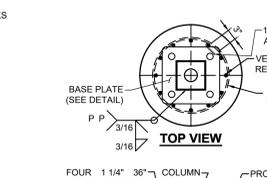
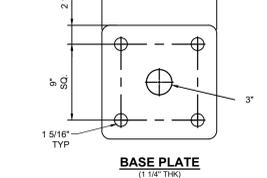
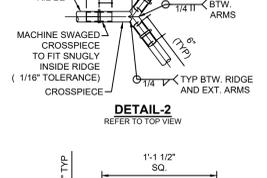
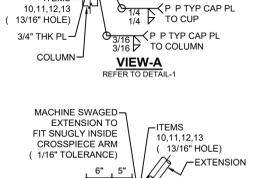
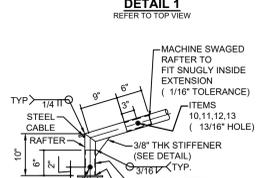
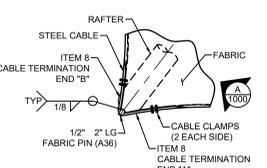
- 1,600 SQ FT OR LESS COMPLYING WITH THE REQUIREMENTS OF IR 4-4 SECTION 3.1.1. OPEN FABRIC SHADE STRUCTURES GREATER THAN 1,600 SQUARE FEET UP TO A MAXIMUM OF 4,000 SQUARE FEET AND COMPLYING WITH THE REQUIREMENTS NOTED IN IR 4-4 SECTION 3.1.1 DO NOT REQUIRE A GEHAZARD REPORT PROVIDED A GEOTECHNICAL REPORT INDICATES THAT NO LIQUEFACTION POTENTIAL EXISTS.

**ARCHITECT OF RECORD TO DETERMINE IF SPECIFIC SITE IS IN GEOLOGIC HAZARD ZONE. GEHAZARD REPORT REQUIREMENTS PER DSA IR 4-4.**

**PC OPTIONS SHALL NOT INCLUDE LIQUEFIABLE SOIL (EXCEPTION: OPEN FABRIC SHADE STRUCTURES 1,600 SQUARE FEET OR LESS COMPLYING WITH REQUIREMENTS OF IR 4-4 SECTION 3.1.1). IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PRO ECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD.**

**MINIMUM FOUNDATION SETBACK LIMIT IN AD ACENT SLOPE: THE DEPTH OF REQUIRED PIER EMBEDMENT SHALL START FROM AN ELEVATION THAT CORRESPONDS WITH A HORIZONTAL CLEAR DISTANCE OF 14 FEET THAT INTERSECT WITH THE SLOPE (DAYLIGHTING). IF SETBACK LIMITS ARE SMALLER THAN CBC REQUIRES, A SITE-SPECIFIC SOILS REPORT IS REQUIRED.**

**MINIMUM CLASS 2 PRO ECT INSPECTOR REQUIRED.**



**LIST OF MATERIALS**

ITEM	QTY	DESCRIPTION	MATERIAL
1	4	COLUMN	HSS 7.0 7.0 0.250
2	4	CUP CONNECTOR (6\"/>	

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**USASHADE & Fabric Structures**

**CORPORATE HEADQUARTERS**  
2580 ESTERS BLVD, SUITE 100  
DFW AIRPORT, TX, 75261  
800-966-5005

**CERTIFICATIONS:**

IAS CERTIFICATION No: FA-428  
CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

**CUSTOMER:**

Sacramento City U.S.D.

**PROJECT NAME:**

Alice Birney Public Waldorf TK-8 School

**LOCATION:**

6251 13th Street  
Sacramento, CA 95831

**MODEL NUMBER:**

DSA4013040-22

**STRUCTURE TYPE:**

HIP  
DSA

**SIZE:**

MAXIMUM  
30' x 40' x 15'e MAX.

**SCALE:**

NONE

**DRAWING SIZE:**

D

**PRE-CHECK (PC) DOCUMENT**

Code: 2022 CBC  
A separate project application for construction is required.

**Eng. By:**

HH 12/01/22

**Design By:**

OS 12/01/22

**Approved By:**

MB 12/01/22

**DRAWING DESCRIPTION:**

PRODUCT INFORMATION

**DWG.:**

DSA4013040-22

**SHEET:**

3.1-1000

**REV.:**

NC

**California WEST**

CALIFORNIA DESIGN WEST ARCHITECTS, INC.  
2100 19th Street  
Sacramento, CA 95818

**CUSTOMER:**

Sacramento City U.S.D.

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DSA4013040-22



**CONSULTANT:**

PROJECT NAME:

**ALICE BIRNEY PUBLIC WALDORF TK-8 SCHOOL**

**6254 13TH STREET SACRAMENTO, CA 95831**

**CAMPUS RENEWAL**

**SACRAMENTO CITY UNIFIED SCHOOL DISTRICT**

**5735 47TH AVENUE SACRAMENTO, CA 95824**

**SACRAMENTO COUNTY**

**KEY PLAN:**

**SHEET TITLE:**

**PRODUCT INFORMATION**

JOB NUMBER: SHEET NUMBER:

DATE: JAN 5, 2024

REVISION: ADD#3 03/05/24

1

## Aircraft Cable

Preformed, made in accordance with commercial specifications military and federal specification rope available.

**Carbon Steel (Aircraft Cable)** - Galvanized cable has the highest strength and greatest fatigue life of the materials offered. It has good to fair corrosion resistance in rural to industrial atmosphere environments. This material is most widely used for small diameter cables. Tin over galvanized cable offers greater corrosion resistance and reduced friction over pulleys.



7 x 19

7 x 19		Galvanized Min. Breaking Strengths (lbs)
Dia. (In)	Approx. Wt 1000 Ft/lbs	
3/32	17.	1,000
1/8	29.	2,000
5/32	45.	2,800
3/16	65.	4,200
7/32	86.	5,600
1/4	110.	7,000
9/32	139.	8,000
5/16	173.	9,800
3/8	243.	14,400



## 190/F5 Fire rated specifications

Standard range

Revision 0 28-Oct-12

Colour	Shade %	UV Block %	Average GSM	Average Warp break strength kgs	Average Elongation %	Average Weft break strength kgs	Average Elongation %	Average Burst Kpa	Average Burst ratio	
Desert Sand	80	92	185	50	40	72	73	156	0.84	
Blue	80	85	185	50	40	72	73	156	0.84	
Brown	85	85	185	50	40	72	73	156	0.84	
Green	80	85	185	50	40	72	73	156	0.84	
Red	80	86	185	50	40	72	73	156	0.84	
Silver	80	81	185	50	40	72	73	156	0.84	
Terracotta	75	82	185	50	40	72	73	156	0.84	
Yellow	80	89	185	50	40	72	73	156	0.84	
			110 LB				159 LB	3258 PSF		

CONVERSION TO IMPERIAL UNITS:  
185 GSM = .0378 psf  
50 KGS = 110 Lb  
72 KGS = 159 Lb  
156 Kpa = 3258 psf

Notes:

190/F5 conforms to The California State Fire Marshal Title 19 Test for Small scale Fabrics  
Tear tests are done using a 50mm wide strip and a cross head speed of 500mm/min

This report has been compiled using the mean results from all tests conducted on the given sample by our Quality Control Laboratory, the information provided is considered to be a good reflection of the relevant properties of the fabric tested. These results must only be used as an indication of the quality and characteristics of the fabric tested.  
Company cannot be held responsible or liable in any way whatsoever should this information differ to that of a registered testing institution.

*Deon Joubert*  
Deon Joubert  
General Manager - Multiknit (Pty) Ltd

*Tommy Rogers*  
Tommy Rogers  
Managing Director - Multiknit (Pty) Ltd



Product Marketed by:

MULTIKNIT (PTY) LTD  
BOX 798 WHITE RIVER 1240  
MPUMALANGA SOUTH AFRICA

Issue Date : 05/08/2023  
Expiration Date : 06/30/2024

This product meets the minimum requirements of flame resistance established by the California State Fire Marshal for products identified in Section 13115, California Health and Safety Code. The scope of the approved use of this product is provided in the current edition of the CALIFORNIA APPROVED LIST OF FLAME RETARDANT CHEMICALS AND FABRICS, GENERAL AND LIMITED APPLICATIONS CONCERNS published by the California State Fire Marshal.

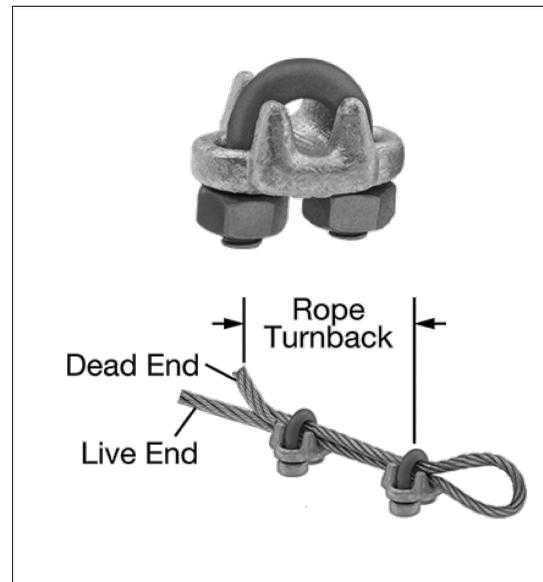
*C Walker*  
Issued By Courtney Walker  
Fire Engineering License Manager  
Fire Engineering & Investigations Division

*Patricia Setter*  
Reviewed and Approved By Patricia Setter  
Deputy State Fire Marshal III  
Fire Engineering & Investigations Division

OFFICE OF THE STATE FIRE MARSHAL

Please visit [calfire.govmotus.org](http://calfire.govmotus.org) for more information on Licensing and Permitting with CAL FIRE

Page 1 of 1



FORGED WIRE ROPE CLAMP

FITTING TYPE ROPE CLAMP  
FABRICATION: FORGED  
MATERIAL: GALVANIZED STEEL  
FOR WIRE ROPE DIAMETER 3/8"  
NUMBER OF CLAMPS REQUIRED: 2  
ROPE TURNBACK: 6 1/2"  
FOR WIRE ROPE CONSTRUCTION 7 x 19  
ATTACHMENT TYPE: LOOP  
CLAMP WIDTH 2", HEIGHT 1 15/16", THICKNESS 1 11/16"  
REQUIRED INSTALLATION TOOL TORQUE WRENCH  
REQUIRED TORQUE 45 FT.-LBS.  
CAPACITY 80% OF THE ROPE'S CAPACITY  
SPECIFICATIONS MET ASME B30.26, FED. SPEC. FF-C-450



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DSA4013040-22

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HIP  
DSA  
SIZE: MAXIMUM  
30' x 40' x 15'e MAX.

SCALE: NONE  
DRAWING SIZE:  
D

PRE-CHECK (PC) DOCUMENT  
Code : 2022-CBC  
A separate project application for construction is required.

Eng. By : HH 12/01/22  
Design By : OS 12/01/22  
Approved By : MB 12/01/22

DRAWING DESCRIPTION:  
SPECIFICATIONS

DWG. DSA4013040-22

SHEET 3.2-2000

REV. NC



CALIFORNIA DESIGN WEST ARCHITECTS, Inc.  
2100 19th Street  
Sacramento, CA 95818

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ARCHITECT:



CONSULTANT:

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CAMPUS RENEWAL

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

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SACRAMENTO, CA 95824

SACRAMENTO COUNTY

KEY PLAN:

SHEET TITLE:

**SPECIFICATIONS**

JOB NUMBER: SHEET NUMBER:

DATE:

JAN 5, 2024

**3.2-2000**

REVISION:

ADD#3 03/05/24