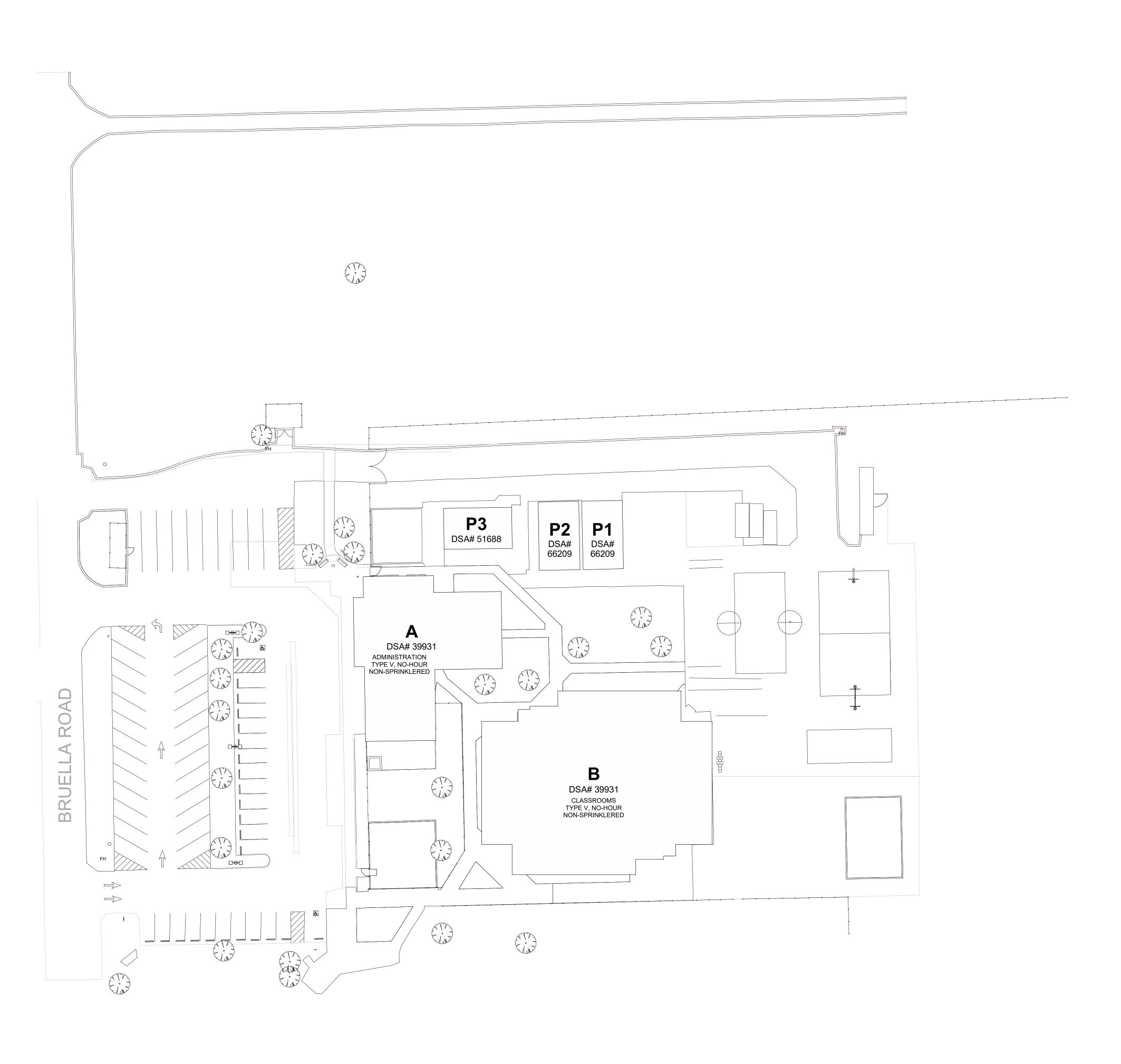
LODI UNIFIED SCHOOL DISTRICT - VICTOR ELEMENTARY SCHOOL HVAC REPLACEMENT

17670 BRUELLA RD LODI, CA 95240



OLUME 1 OF 3

AGENCY APPROVAL:

REVIEWING AGENCIES



HMC ARCHITECTS
3431005-000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 325 1100 / www.hmcarchitects.com

PROJECT TEAM

DESCRIPTION

STRUCTURAL RW CONSULTING ENGINEERS

DATE

1450 HARBOR BLVD SUITE F WEST SACRAMENTO, CA 95691 916.718.6910

MECHANICAL AND ELECTRICAL CAPITAL ENGINEERING

11020 SUN CENTER DR SUITE 100 RANCHO CORDOVA, CA 95670

FACILITY

VICTOR ELEMENTARY SCHOOL 17670 BRUELLA RD LODI, CA 95240

PROJECT:

LODI UNIFIED SCHOOL DISTRICT - VICTOR
ELEMENTARY SCHOOL HVAC REPLACEMENT

SHEET NAME:

COVER SHEET

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

DATE: 10

G0.10

- ARCHITECTURAL SITE PLAN -

NO DUMPING OR PLACING OF ANY DIRT OR STANDARĎ FOR DRY AMENDMENTS) NFPA 17 2021 ED. DEBRIS SHALL BE ALLOWED OUTSIDE OF 22 CALIFORNIA ELECTRICAL CODE (CEC), PART 3 CHEMICAL EXTINGUISHING THE CONTRACTORS LIMIT OF WORK AREA. TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 NFPA 17A STANDARD FOR WET CHEMICAL 2021 ED. **CALIFORNIA AMENDMENTS) EXTINGUISHING SYSTEMS** 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 2019 ED STANDARD FOR STATIONARY 4. TITLE 24 C.C.R. PUMPS FOR FIRE PROTECTION (2021 UNIFORM MECHANICAL CODE AND 2022 STANDARD FOR WATER TANKS 2013 ED. FOR PRIVATE FIRE PROTECTION CALIFORNIA AMENDMENTS) 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, STANDARD FOR THE NFPA 24 2019 ED. TITLE 24 C.C.R. INSTALLATION OF PRIVATE FIRE (2021 UNIFORM PLUMBING CODE AND 2022 MAINS AND THEIR **CALIFORNIA AMENDMENTS)** APPURTENANCES (CA AMENDED) 2022 CALIFORNIA ENERGY CODÉ (CEC), PART 6, NFPA 72 NATIONAL FIRE ALARM & TITLE 24 C.C.R. SIGNALING CODE (CA AMENDED) 2022 CALIFORNIA HISTORICAL BUILDING CODE NFPA 80 STANDARD FOR FIRE DOORS AND 2019 ED. (CHBC), PART 8, TITLE 24 C.C.R. OTHER OPENING PROTECTIVES STANDARD ON CLEAN AGENT 2018 ED. 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 NFPA 2001 FIRE EXTINGUISHING SYSTEMS (2021 INTERNATIONAL FIRE CODE AND 2022 (CA AMENDED) CALIFORNIA AMENDMENTS) STANDARD FOR FIRE TESTING OF 2005 2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), FIRE EXTINGUISHING SYSTEMS (R2014) PART 10. TITLE 24 C.C.R. FOR PROTECTION OF (2021 INTERNATIONAL EXISTING CODE AND COMMERCIAL COOKING 2022 CALIFORNIA AMENDMENTS) EQUIPMENT 2022 CALIFORNIA GREEN BUILDING STANDARDS UL 464 AUDIBLE SIGNAL APPLIANCES 2003 ED. CODE (CALGREEN), PART 11, TITLE 24 C.C.R. FOR FIRE ALARM AND SIGNALING 2022 CALIFORNIA REFERENCED STANDARDS, PART SYSTEMS, INCLUDING 12,TITLE 24 C.C.R. ACCESSORIES TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE 1999 ED. UL 521 STANDARD FOR HEAT MARSHAL REGULATIONS. DETECTORS FOR FIRE (R2005) 2019 ASME A17.1/B44-19 SAFETY CODE FOR PROTECTIVE SIGNALING ELEVATORS AND ESCALATORS SYSTEMS 2020 ASME 18.1 - SAFETY STANDARD FOR STANDARD FOR SIGNALING UL 1971 2002 ED. PLATFORM LIFTS AND STAIRWAY CHAIR LIFTS DEVICES FOR THE HEARING (R2018) IMPAIRED STANDARD FOR BLEACHERS, 2017 ED. FOLDING AND TELESCOPING SEATING AND GRANDSTANDS FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

STATEMENT OF GENERAL CONFORMANCE

THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET WITH AN (*) THIS DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME. AND COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS. OUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B)) I CERTIFY THAT:

ALL DRAWINGS OR SHEETS LISTED ON THE SHEET INDEX WITH AN (*) IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN AND HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

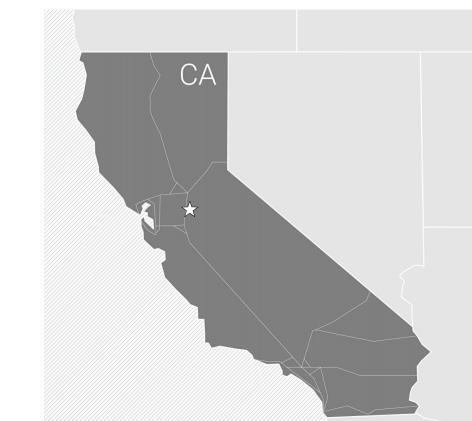
2023.09.22

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE JEFFERY GRAU

C-14648 EXPIRATION DATE

STATE MAP

VICINITY MAP





LICENSE NUMBER

ABBREVIATIONS

NORTH ARROW TICK INDICATES PLAN NORTH ARROW INDICATES TRUE NORTH

REQUIRED BY BOTH.

DESIGN INTENT.

PREPARATION.

PERFORMANCE BY THE CONSTRUCTION

TEAM SHALL BE CONSISTENT WITH THE

DELIVER THE INDICATED RESULTS OF THE

VERIFY ALL DIMENSIONS, LOCATIONS OF

THE JOB SITE PRIOR TO THE START OF

NOTIFY THE ARCHITECT IMMEDIATELY OF

CONSTRUCTION DOCUMENTS. EXISTING

CONDITIONS ARE INDICATED AS A RESULT

OF FIELD OBSERVATIONS, INFORMATION

SHOWN ON AVAILABLE DOCUMENTS AND

ALL MATERIALS AND WORKMANSHIP SHALL

COMPLY WITH ALL GOVERNING CODES.

ORDINANCES, REGULATIONS AND LAWS.

THE DESIGN ADEQUACY AND SAFETY OF

RESPONSIBILITY OF THE CONTRACTOR.

THE REQUIREMENTS OF LAWS, CODES,

THE MOST STRINGENT SHALL GOVERN.

ORDINANCES, RULES AND REGULATIONS,

IN NO CASE SHALL WORKING DIMENSIONS

BE SCALED FROM PLANS, SECTIONS OR

DETAILS MARKED 'TYPICAL' SHALL APPLY IN

ALL CASES UNLESS SPECIFICALLY NOTED

ENACT ALL MEASURES TO PROTECT AND

SAFEGUARD ALL EXISTING ELEMENTS TO

REMAIN FROM BEING DAMAGED. REPLACE

OR REPAIR EXISTING ELEMENTS DAMAGED

BY THE EXECUTION OF THIS CONTRACT TO

WHERE ANY CONFLICT OCCURS BETWEEN

WORK OR PORTIONS OF THE WORK.

ANY DISCREPANCIES BETWEEN THE

ACTUAL FIELD CONDITIONS AND THE

FIELD CONDITIONS AT THE TIME OF

ERECTION BRACING, SHORING,

TEMPORARY SUPPORTS AND

DETAILS ON THE DRAWINGS.

EQUAL OR BETTER CONDITION.

PRIOR TO THE START OF WORK THE

CONTRACTOR SHALL COORDINATE

SATISFACTORILY RELATE TO ONE

ANOTHER. NOTIFY ARCHITECT

CANNOT BE COORDINATED.

BETWEEN THE REQUIREMENTS OF ALL

DISCIPLINES HEREIN AND BETWEEN THE

REQUIREMENTS OF ALL DRAWINGS AND

SPECIFICATIONS IN ORDER THAT ALL ITEMS

IMMEDIATELY REGARDING ANY ITEMS THAT

CONTRACTOR SHALL EXCERCISE EXTREME

CAUTION IN EXCAVATING AND TRENCHING

ON THIS SITE TO AVOID EXISTING DUCTS.

PIPING, CONDUIT, ETC. AND TO PREVENT

STRUCTURES. THE CONTRACTOR SHALL

SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND

HAZARD TO PERSONNEL AND/OR TO

EXISTING UNDERGROUND UTILITIES OR

IMMEDIATELY NOTIFY THE ARCHITECT

SPECIFICATIONS DO NOT INCLUDE THE

CUTTING, BORING, SAWCUTTING OR

REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER

SYMBOL LEGEND

DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE

STARTED UNTIL THE DETAILS HAVE BEEN

NECESSARY COMPONENTS FOR

CONSTRUCTION SAFETY.

NOT USED

OF RECORD.

SCAFFOLDING IS THE SOLE

EXISTING UTILITIES, AND CONDITIONS ON

CONSTRUCTION DRAWINGS AND

SPECIFICATIONS AS NECESSARY TO

ELEVATION CALLOUT LOCATION ON SHEET SHEET WHERE ELEVATION IS DRAWN

PULLBOXES. ETC WHICH ARE TO BE PART

OUTSIDE OF SHOWN LIMIT OF WORK LINES.

DEFERRED SUBMITTAL ITEMS SHALL NOT

ENGINEERING CALCULATIONS FOR THE

BEEN ACCEPTED AND SIGNED BY THE

AND APPROVED BY THE DSA. LIST

PROJECT.

ARCHITECT OR STRUCTURAL ENGINEER

DEFERRED SUBMITTAL ITEMS FOR THIS

CHANGE TO THE APPROVED DRAWINGS

ADDENDA OR CONSTRUCTION CHANGE

A "DSA CERTIFIED" PROJECT INSPECTOR

APPROVED BY DSA SHALL PROVIDE

INSPECTOR TO BE CLASS 1.

STRUCTURAL ENGINEER.

GRADING PLANS, DRAINAGE

WITH ALL LOCAL ORDINANCES.

COMPLY WITH CFC CHAPTER 33.

RECONSTRUCTION IS TO BE IN

AND SPECIFICATIONS SHALL BE MADE BY

DOCUMENT (CCD) APPROVED BY DSA, AS

REQUIRED BY SECTION 4-338, PART 1, TITLE

EMPLOYED BY THE DISTRICT (OWNER) AND

CONTINUOUS INSPECTION OF WORK. THE

DUTIES OF THE INSPECTOR ARE DEFINED

IN SECTION 4-342, PART 1, TITLE 24, CCR.

A DSA ACCEPTED TESTING LABORATORY

DIRECTLY EMPLOYED BY THE DISTRICT

REQUIRED TESTS AND INSPECTIONS FOR

OWNER, INSPECTOR OR RECORD, AND THE

ANY FAILURES OF TESTS AND INSPECTIONS

DSA FIELD ENGINEER. THE REPORTS OF

ARE TO BE SUBMITTED TO DSA DISTRICT

IMPROVEMENTS, ROAD AND ACCESS

REQUIREMENTS AND ENVIRONMENTAL

SAFETY DURING CONSTRUCTION SHALL

THE INTENT OF THESE DRAWINGS AND

SPECIFICATIONS IS THAT THE WORK OF

THE ALTERATION, REHABILITATION, OR

ANY EXISTING CONDITIONS SUCH AS

DETERIORATION OR NON-COMPLYING

NOT COVERED BY THE DSA APPROVED

CONTRACT DOCUMENTS WHEREIN THE

PLANS AND SPECIFICATIONS DETAILING

AND SPECIFYING THE REQUIRED WORK

SHALL BE SUBMITTED TO AND APPROVED

WORK. (SECTION 4-317(C), PART 1, TITLE 24,

BY DSA BEFORE PROCEEDING WITH THE

FINISHED WORK WILL NOT COMPLY WITH

TITLE 24, CCR,, A CONSTRUCTION CHANGE

DOCUMENT (CCD), OR A SEPARATE SET OF

ACCORDANCE WITH TITLE 24, CCR. SHOULD

CONSTRUCTION BE DISCOVERED WHICH IS

HEALTH CONSIDERATIONS SHALL COMPLY

THE PROJECT. THE REPORTS SHALL BE

SUBMITTED TO ARCHITECT OF RECORD

STRUCTURAL ENGINEER OF RECORD,

(OWNER) SHALL CONDUCT ALL THE

ACTUAL SYSTEMS TO BE INSTALLED HAVE

OF THIS WORK, ALTHOUGH OCCURING

FABRICATION AND INSTALLATION OF

BE STARTED UNTIL CONTRACTOR'S

DRAWINGS, SPECIFICATIONS, AND

ELEVATION CALLOUT LOCATION ON SHEET SHEET WHERE ELEVATION IS DRAWN **ELEVATION CALLOUT - ALT.** 18/AX.XX●-**LOCATION & SHEET WHERE** ELEVATION IS DRAWN

SECTION CALLOUT INDICATES A SIMILAR CONDITION LOCATION ON SHEET SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT INDICATES A SIMILAR CONDITION AX.XX LOCATION ON SHEET SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT FIRST FLOOR NAME OF ELEVATION (IF APPLICABLE)
+0' - 0" ELEVATION ABOVE FINISHED FLOOR

GRID BUBBLE EXISTING BUILDING GRID SYMBOL **GRID NUMBER** NEW BUILDING GRID SYMBOL

DOOR CALLOUT DOOR NUMBER (101A)

INTERIOR FINISH CALLOUT FA MATERIAL FINISH TYPE (SEE FINISH SCHEDULE) **WINDOW CALLOUT** WINDOW NUMBER 09-WF1

(SEE WINDOW SCHEDULE)

KEYNOTE KEYNOTE NUMBER (SEE LEGEND ON SHEET) **ROOM EXITING INFORMATION** AREA (SQ FT) OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR) OCCUPANT LOAD FACTOR (REFER TO TABLE 1004.5) OCCUPANCY TYPE NUMBER OF EXITS REQUIRED (REFER TO TABLE 1006.2.1) WIC CASEWORK TAG MANUFACTURER REFERENCE AND MODEL NUMBER LOCK CABINET DEPTH CABINET HEIGHT **CABINET WIDTH** DISCIPLINE SHEET TYPE **BUILDING LETTER,** SEGMENT, 0 CODE ANALYSIS, NOTES (USER DEFINED) 1 SITE PLAN C CIVIL FLOOR PLAN USED ONLY IF REQUIRED A ARCHITECTURE 3 CEILING PLAN IF NOT, COLUMN IS I INTERIORS 4 ROOF PLAN OMITTED. Q EQUIPMENT 5 EXTERIOR ELEVATIONS S STRUCTURAL 6 SECTIONS P PLUMBING 7 ENLARGED PLANS 8 INTERIOR ELEVATIONS M MECHANICAL E ELECTRICAL 9 SCHEDULES FA FIRE ALARM 10 DETAILS T TELECOM AV AV EQUIPMENT K KITCHEN DISCIPLINE SHEET TYPE SERIES / ORDER (IF APPLICABLE) FP FIRE PROTECTION | A | A | 1 | 1 | 1 | A | . A

BULIDING LETTER FLOOR LEVEL OR SEGMENT

(IF APPLICABLE) SEQUENTIAL (IF APPLICABLE)

WALL TYPE CALLOUT

MATCHLINE REFERENCE

SHEET WHERE PLAN IS DRAWN

AS6A WALL TYPE MARK - SEE A10.11

- WALL STC RATING

WALL FIRE RATING TYPE

LOCATION ON SHEET

EXISTING ANCHOR BOLT AC PAVING ASPHALTIC CONCRETE PAVING ACCESS/ACCESSIBLE ACOUSTICAL CEILING PANEL ACOUSTICAL CEILING TILE ADJACENT/ADJUSTABLE ABOVE FINISH FLOOR AGGREGATE AIR HANDLING UNIT **ARCH** ARCHITECTURAL ATTENUATION AUTO AUTOMATIC BLOCKING BUR BUILT UP ROOFING CABT CUBIC FEET CFCI CONTRACTOR FURNISHED. CONTRACTOR INSTALLED CFOI CONTRACTOR FURNISHED OWNER INSTALLED CORNER GUARD **CONTROL JOINT** CENTER LINE CHAIN LINK FENCE CMU CONCRETE MASONRY UNIT CLEANOUT COMP COMPRESSION / COMPOSITE COORD COORDINATE CORR CORRUGATED CERAMIC TILE **COUNTER SKUNK** CURTAINWALL **DEPRESSED / DEPRESSION** DRINKING FOUNTAIN DIMENSION DISPENSER DOWNSPOUT DISHWASHER EACH WAY EXTERIOR INSULATION FINISH SYSTEM **EXPANSION JOINT** ELECTRICAL **ELEV** ELEVATION / ELEVATOR ENCLOSE / ENCLOSURE **ENCL** EOS EDGE OF SLAB **ELECTRICAL PANEL** EXCUTCHEON ELECTRIC WATER COOLER EXPOSED FIRE ALARM FLOOR DRAIN FIRE DEPARTMENT CONNECTION FIRE EXTINGUISHER FIRE EXTINGUISHER W/ CABINET FINISH FLOOR FINISH GRADE FIRE HYDRANT FIRE HOSE CABINET

FLAT HEAD SCREW

FACE OF CONCRETE

FACE OF MASONRY

FIRE RATED GLASS

POLY ISO

PREFIN

PREP

POLYISOCYANURATE

PREP / PREPARATION

PREFINISHED

FACE OF FINISH

FACE OF STUD

FIREPROOFING

FIRE RATED

FINISH

FLOOR

FLR

FOS

FRG

FRP FIBERGLASS REINFORCED PLASTIC FRT FIRE RETARDANT TREATED FINISH SURFACE FOOTING **GRAB BAR** GFRC GLASS FIBER REINFORCED CONCRETE **GLASS TYPE** GLUE LAMINATED BEAM GLB GYP BD GYPSUM BOARD GYP PLAS GYPSUM PLASTIC HOSE BIBB **HEAVY DUTY** HDR HEADER HDWR HARDWARE HGT НМ **HOLLOW METAL** HIGH POINT HSS HOLLOW STEEL SECTION INSIDE DIAMTER INVFRT LANDS LANDSCAPE LAVATORY LLH LONG LEG HORIZONTAL LLV LONG LEG VERTICAL LOW POINT LT WT LIGHT WEIGHT LOUVER MACH MACHINE MACHINE BOLT MDF MEDIUM DENSITY FIBERBOARD MEDIUM DENSITY OVERLAY MDO MECH MECHANICAL MED MEDIUM MEMB MEMBRANE MFR **MANUFACTURER** MANHOLE MASONRY OPENING MO MTD MOUNTED MTL METAL NOT IN CONTRACT NON RATED NRC NOISE REDUCTION COEFFICIENT NTS NOT TO SCALE OVFR OVERALL OC ON CENTER OUTSIDE DIAMTER OFCI OWNER FURNISHED, CONTRACTOR INSTALLED OWNER FURNISHED, OWNER OFOI **INSTALLED** OWNER FURNISHED, VENDOR INSTALLED OPPOSITE HAND OPER OPERABLE OVERFLOW ROOF DRAIN ORD PROPERTY LINE P/L PUBLIC ADDRESS PAF POWDER ACTUATED FASTENER PAVING PCC PORTLAND CEMENT CONCRETE PAVING **PEDESTRIAN** PERF PERFORATED PERIM PERIMETER PERP PERPENDICULAR PH PANIC HARDWARE PIV POST INDICATOR VALVE PLAM PLASTIC LAMINATE PLAS PLASTER PLUMB PLUMBING PNL PANEL PNT PAINT / PAINTED POC POINT OF CONNECTION

PAVEMENT **QUARRY TILE** RADIUS, RISER **RESILIENT BASE** ROOF DRAIN ECEPTACLE RECEP. REFERENCE REFL REFLECT(ED), (IVE) REFLECT(ED), (IVE) REFRIGERATOR REINF REINFORCE/REINFORCED/ REINFORCEMENT REMOVE **ROUND HEAD** ROUND HEAD SCREW ROUGH OPENING RIGHT OF WAY SCHEDULE (FOR PIPE) SCHED SCHEDULE / SCHEDULING STORM DRAIN / SOAP DISPENSER SECT SECTION SAFETY GLASS SHEATHING SHEET METAL SCREW SND SANITARY NAPKIN DISPOSAL SHUT OFF VALVE **SPECIFICATIONS** STAINLESS STEEL STC SOUND TRAMISSION CLASS STSMS SELF TAPPING SHEET METAL SCREW SUSP SHEET VINYL SYM SYMMETRICAL TOP AND BOTTOM TOP OF CURB / CONCRETE TOP OF PARAPET TOP OF STEEL TOP OF WALL TOILET PAPER DISPENSER TACKABLE SURFACE **UNDER CABINET (OR COUNTER** U/C **UNLESS NOTED OTHERWISE** VACUUM VAPOR BARRIER VINYL COMPOSITION TILE VERIFY IN FIELD VTR **VENT THROUGH ROOF** VWC VINYL WALL COVERING W/O WITHOUT WB WC WD WOOD BASE WATER CLOSET WOOD WINDOW WGT WEIGHT WH WATER HEATER WATERPROOFING/WALL PROTECTION WATER RESISTANT WATER RESISTANT GYPSUM WRGB **WOOD SCREW** WSCT WAINSCOT WWF WELDED WIRE FABRIC

OTHER ABBREVIATIONS USED ON THESE

FOR NECESSARY CLARIFICATION.

DRAWINGS ARE CONSIDERED STANDARDS IN

THE BUILDING INDUSTRY. CONTACT ARCHITECT

POST TENSIONED CONCRETE

PAPER TOWEL DISPENSER

PNEUMATIC TUBE STATION /

POLYVINYL CHLORIDE

PARTITION

VICTOR ELEMENTARY SCHOOL 17670 BRUELLA RD

LODI, CA 95240

PROJECT: LODI UNIFIED SCHOOL DISTRICT - VICTOR

SHEET NAME: PROJECT DATA SHEET

CONSTRUCTION DOCUMENTS

ELEMENTARY SCHOOL HVAC REPLACEMENT

DATE: 10.03.2023

PLEASE RECYCLE 🕉

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AND CURBS

AND CURBS

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ELECTRICAL

M7.01

E0.01

E4.10A

E4.10B

E4.11A

E4.11B

Grand total: 29

MECHANICAL

AGENCY APPROVAL:

HMC ARCHITECTS 3431005-000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 325 1100 / www.hmcarchitects.com

△ DESCRIPTION

DATE

REVIEWING AGENCIES STAMP HERE

2-16d FACE NAIL

3-16d END NAIL

2-8d TOE NAIL EA END

2-8d FACE NAIL

1.	BLKG BTWN CLG JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRMG BLW	3-8d TOE NAIL, EA END
	BLKG BTWN RAFTERS OR TRUSSES NOT AT THE WALL TOP PLATE, TO RAFTER OR TRUSS	2-8d TOE NAIL OR 2-16d END NAIL, EA END
	FLAT BLKG TO TRUSS & WEB FILLER	16d FACE NAIL @ 6"cc
2.	CLG JOIST TO TOP PLATE	3-8d TOE NAIL EA JOIST
3.	CLG JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OV/ PARTITIONS (NO THRUST)	3-16d FACE NAIL
4.	CLG JOIST ATTACHED TO PARALLEL RAFTER, LAPS OV/ PARTITIONS (W/ THRUST)	CBC TABLE 2308.7.3.1
5.	COLLAR TIE TO RAFTER	3-10d FACE NAIL
6.	RAFTER OR TRUSS TO TOP PLATE (SEE CBC SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3-10d TOE NAIL

6.	RAFTER OR TRUSS TO TOP PLATE (SEE CBC SECTION 2308.7.3.1, TAI	BLE 2308.7.3.1)	3-10d TOE NAIL
7.	RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS; OR RAFTER TO 2" RID	GE	3-10d TOE NAIL OR 2-16d END NAIL
WA	ALL		
8.	STUD TO STUD (NOT BRACED WALL PANELS)		16d @ 24"cc FACE NAIL
9.	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL COP	NERS (BRACED WALL PANELS)	16d @ 6"cc FACE NAIL
10.	BUILT UP HEADER (2" TO 2" HEADER)		16d @ 16"cc FACE NAIL
11.	CONT HEADER TO STUD		4-8d TOE NAIL
	TOP PLATE TO TOP PLATE		16d @ 16"cc FACE NAIL
13.	TOP PLATE TO TOP PLATE, AT END JOINTS	3-16d EA SIDE OF END JOINT FAC	E NAIL (24" MIN LAP SPLICE EA END)
14.	BOT PLATE TO JOIST, RIM, BAND JOIST OR BLKG (NOT @ BRACED W	'ALL PANELS)	16d @ 16"cc
15.	BOT PLATE TO JOIST, RIM, BAND JOIST OR BLKG (BRACED WALL PA	NELS)	2-16d @ 16"cc
16.	STUD TO TOP OR BOT PLATE		4-8d TOE NAIL
	TOP OR BOT PLATE TO STUD		2-16d END NAIL
18.	TOP PLATED, LAPS AT CORNERS & INTERSECTIONS		2-16d FACE NAIL

20. 1x6 SHEATHING TO EA BEARING	2-8d FACE NAIL
21. 1x8 & WIDER SHEATHING TO EA BEARING	3-8d FACE NAIL
FLOOR	
22. JOIST TO SILL, TOP PLATE OR GIRDER	3-8d TOE NAIL
23. RIM JOIST, BAND JOIST, OR BLKG TO TOP PLATE, SILL, OR OTHER	FRAMING BLW 8d @ 6"cc TOE NAIL
24. 1x6 SUB FLOOR OR LESS TO EA JOIST	2-8d FACE NAIL
25. 2" SUB FLOOR TO JOIST OR GIRDER	2-16d FACE NAIL
26. 2" PLANKS EA BEARING (PLANK & BEAM, FLOOR & ROOF)	2-16d FACE NAIL
27. BUILT UP GIRDERS & BEAMS, 2" LUMBER LAYERS	10d @ 24"cc FACE NAIL AT TOP & BOT, STAGGER ON OPPOSITE SIDES
28. LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16d EA JOIST OR RAFTER FACE NAIL
29. JOIST TO BAND JOIST OR RIM JOIST	3-16d END NAIL

19. 1" BRACE TO EA STUD & PLATE

20. 1x6 SHEATHING TO EA BEARING

30. BRIDGING OR BLKG TO JOIST, RAFTER OR TRUSS

ROUGH CARPENTRY-MATERIALS:

- 1. ALL SAWN LUMBER SHALL BE DOUG FIR UNO AND HAVE MOISTURE CONTENT NOT TO EXCEED 19% AT TIME OF INSTALLATION. EACH PIECE SHALL BEAR THE STAMP OF WCLIB OR WWPA SHOWING GRADE MARK.
- 2. ALL COMPOSITE WOOD PRODUCTS (IE LVL, LSL, GLULAM, ETC) SHALL BE PROTECTED FROM EXPOSURE AND EXCESSIVE MOISTURE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. MOISTURE CONTENT OF 16% PRIOR TO MEMBERS BEING WRAPPED OR ENCLOSED.

ELOW:

ALL SAWN LUMBER TO BE SPECI	ES & GRADE AS NOTED	BEI
MEMBER	SPECIES & GRADE	
2x_ & 3x_STUDS	#2 DF	
2x_ JOISTS, PLATES	#1 DF	
4x_ HEADERS	#1 DF	
4x_ COLUMNS	#1 DF	
6x_ & LARGER HEADERS	SS DF	
6x_ & LARGER COLUMNS	SS DF	

- 3.1 MATERIAL EXPOSED TO WEATHER OR IN CONTACT W/CONCRETE SHALL BE PRESSURE TREATED
- 3.2 OPTIONAL FOR EXPOSED 8X_ BEAMS & POSTS TO BE #1 AC IN
- 3.3 STUDS TALLER THAN 12'-0" SHALL BE #1 DF

LIEU OF TREATED DF

- 4. PRESERVATIVE TREATED & PRESSURE TREATED LUMBER
- 4.1 SAWN LUMBER TO BE PROTECTED FROM EARTH, WEATHER, EARTH, & CONCRETE/CMU OR WOOD SHALL BE TREATED
- 4.2 PRESERVATIVE TREATMENT & CLEARANCES TO SOIL OR CONCRETE SHALL BE PER CBC 2303.1.9 & 2304.12.1.2
- 4.3 FIELD CUTS & HOLES IN TREATED LUMBER SHALL BE PROTECTED IN ACCORDANCE W/AWPA STANDARD M4
- 4.4 CONTRACTOR TO COORDINATE WITH TREATED WOOD SUPPLIER TO DETERMINE THE APPROPRIATE LEVEL OF CORROSION PROTECTION FOR HARDWARE & FASTENERS IN CONTACT WITH WOOD TREATED WITH CORROSIVE CHEMICALS.
- 5. ALL WOOD PANEL STRUCTURAL SHEATHING SHALL BE STAMPED W/APA TRADEMARK AND CONFORM TO MOST CURRENT EDITION OF PS-1. USE THICKNESS AND NAILING AS SHOWN ON DRAWINGS. SHEATHING SHALL HAVE EXPOSURE RATING AS APPROPRIATE FOR ON-SITE EXPOSURE CONDITIONS DURING CONSTRUCTION AND IN FINAL CONDITION.

ROUGH CARPENTRY-NAILS:

1. ALL SPECIFIED NAILS SHALL CONFORM TO ASTM F1667 OR ICC ESR-1539. ALTERNATE FASTENERS MUST HAVE AN ICC EVALUATION REPORT AND MAY NOT BE USED UNLESS APPROVED IN WRITING BY RW CONSULTING ENGINEERS. ALL NAILS SHALL BE FULL ROUND HEAD WITH MINIMUM PROPERTIES AS FOLLOWS:

SPECIFIED FASTENER	DIAMETER	LENGTH	PENETRATION	APPLICATION
8d	.131"Ø	2½"	13/8"	SHTG/FRMG
10d	.148"Ø	3"	1½"	SHTG/FRMG
16d BOX	.135"Ø	3½"	15/8"	FRMG
16d SINKER	.148"Ø	31/4"	1½"	FRMG
16d COMMON	.162"Ø	3½"	15/8"	FRMG

- ALL NAILS SHALL BE COMMON WIRE NAILS EXCEPT WHERE SPECIFICALLY NOTED
- 2. NAILS SHALL BE LOCATED AND SPACED TO PREVENT SPLITTING OF WOOD. PREDRILL ALL FASTENERS 75% MAX OF FASTENER DIAMETER WHERE WOOD TENDS TO SPLIT.
- 3. TOENAILS SHALL BE DRIVEN AT AN ANGLE OF APPROX 30° WITH THE MEMBER AND STARTED APPROX 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.
- 4. NAILS USED IN HARDWARE SHALL BE AS SPECIFIED BY HARDWARE MFR.
- 5. MINIMUM NAILING SHALL BE PER CBC TABLE 2304.10.1 UNO (SEE TABLE ON THIS SHEET
- 6. NAILS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, NAILS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS D OR TYPE 316 STAINLESS STEEL.
- 7. SHEATHING NAILS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN ARE FLUSH WITH THE SURFACE OF THE SHEATHING.

ROUGH CARPENTRY-HARDWARE:

- ALL STEEL CONNECTORS, STRAPS, HANGERS, HARDWARE, ETC SHALL BE BY SIMPSON STRONG-TIE OR APPROVED EQUAL UNO. ATTACH WITH FASTENERS PER MFR TO ACHIEVE THE MAXIMUM TABULATED VALUE.
- HARDWARE COMPONENTS AND FASTENERS INSTALLED AGAINST OR INTO TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, ALL HARDWARE AND FASTENERS INTO/AGAINST TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED (G185 MIN FOR HARDWARE) OR STAINLESS STEEL.
- INSTALL ALL SPECIFIED FASTENERS BEFORE LOADING THE CONNECTION.
- 4. NAILS FOR HARDWARE SHALL NOT BE OVERDRIVEN OR DEFORM THE PART. THE CONTRACTOR SHALL VERIFY WITH THE HARDWARE MFR THAT THE PART PUBLISHED CAPACITIES ARE NOT REDUCED AS A RESULT OF THE INSTALLED CONDITION.
- 5. FASTENER SUBSTITUTIONS FOR HARDWARE ARE NOT ALLOWED UNLESS APPROVED FOR USE BY THE MFR AND THE HARDWARE CAPACITY IS NOT REDUCED.
- 6. WASHERS AT WOOD CONNECTIONS SHALL BE SQUARE PLATE STEEL OR

LE IRON WITH THE FOLLOWING MIN DIMENSIONS:											
	FASTENER DIAMETER	MIN WASHER DIMENSIONS	MIN THICKNESS								
	1/2" 5/8" 3/4" 7/8"	2" x 2" 2½" x 2½" 2¾" x 2¾" 3" x 3"	3/16" 1/4" 5/16" 5/16"								
	1"	3½" x 3½"	3/8"								

ROUGH CARPENTRY-LAG SCREWS:

- 1. ALL SPECIFIED LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1.
- 2. LEAD HOLES FOR LAG SCREWS SHALL BE BORED TO AVOID SPLITTING OF WOOD MEMBERS. THE LEAD HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AND LENGTH AS THE UNTHREADED SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL NOT EXCEED 70% OF THE SHANK DIAMETER AND HAVE MIN LENGTH EQUAL TO THREADED PORTION.
- 3. LAG SCREWS SHALL BE INSTALLED BY TURNING OF THE LAG SCREW & NOT BY DRIVING OF A HAMMER.
- 4. SOAP OR OTHER LUBRICANT MAY BE USED ON THE LAG SCREW OR IN THE LEAD HOLE AS REQ'D TO PREVENT DAMAGE TO THE LAG SCREW.
- 5. LAG SCREWS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, LAG SCREWS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS C OR TYPE 316 STAINLESS STEEL.
- 6. LAG SCREWS SHALL BE INSTALLED WITH A STANDARD CUT WASHER OR PLATE WASHER WITH CORROSION PROTECTION TO MATCH THE LAG SCREW.
- 7. ALL LAG SCREWS TO BE TIGHTENED DURING INSTALLATION & RE-TIGHTENED JUST PRIOR TO CLOSING IN.

DESIGN CRITERIA:

 PROJECT ADDRESS: 17670 BRUELLA ROAD LODI, CA 95240

BUILDING CODE: 2022 CALIFORNIA BUILDING CODE

3. GRAVITY LOADS: (ESTIMATES OF AS-BUILT CONDITIONS

BUILDING ROOFS DEAD LOAD = 13 PSF

4. LATERAL LOADS: RISK CATEGORY III

WIND LOADS (ASCE 7-16) BASIC WIND SPEED 100 MPH (77 MPH ASD) EXPOSURE BUILDING IS CONSIDERED "ENCLOSED"

PRESSURE COEFFICIENTS INTERNAL PRESSURE COEFFICIENT, GCpi = ± 0.18 TOPOGRAPHIC FACTOR, K_{rt} = 1.00 WIND DIRECTIONALITY FACTOR, $K_d = 0.85$ GROUND ELEVATION FACTOR, K_e = 1.00

ROOF LIVE LOAD = 20 PSF (REDUCIBLE)

q(0'-15') = 11.0 PSF (ASD)

q(15'-20') = 11.6 PSF (ASD)SEISMIC LOADS (ASCE 7-16) SITE CLASS

SEISMIC DESIGN CATEGORY IMPORTANCE FACTOR REDUNDANCY FACTOR, ρ $S_c = 0.560$ $S_1 = 0.243$ $F_a = 1.352$ $F_{y} = 2.114$ $S_{MS} = 0.757$ $S_{M1} = 0.513$ $S_{DS} = 0.505$ $S_{D1} = 0.342$

MECHANICAL EQUIPMENT (ASCE 7-16) IMPORTANCE FACTOR, I RESPONSE MOD FACTOR, R_p 6.0 AMPLIFICATION FACTOR, a_p

GENERAL NOTES:

- 1. ALL NEW WORK SHALL CONFORM TO TITLE 24 2022 EDITIONS WITH ALL DSA AMENDMENTS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
- 2. THIS SET OF STRUCTURAL DRAWINGS IS APPLICABLE ONLY TO THE LISTED PROJECT AND SITE LOCATION.
- 3. NOTES ON THIS SHEET ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. TYPICAL DETAILS SHALL APPLY FOR ALL LIKE
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, EXISTING CONDITIONS, AND OTHER RELATED ITEMS. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CONFLICTS ARE SHOWN OR NOTED.
- SECTIONS OF THE CALIFORNIA "CONSTRUCTION SAFETY ORDERS" AND ALL OSHA REQUIREMENTS. THE ENGINEER OF RECORD ACCEPTS NO RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY W/ THESE
- 6. STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. DESIGN AND CONSTRUCTION OF ALL TEMPORARY BRACING, SHORING, FORMING, ETC REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 7. A COPY OF TITLE 24 CCR PARTS 1 -5 SHALL BE KEPT ON SITE AT ALL TIMES

INSPECTION NOTES:

- 1. ALL TESTS AND INSPECTIONS ARE TO BE PROVIDED BY A QUALIFIED TESTING LAB OF RECORD, HIRED BY THE DISTRICT (T-24 PART 1, 4-335).
- 2022 CBC AND THE PROJECT SPECIFIC DSA-103.
- 3. ALL SPECIAL INSPECTORS SHALL HAVE A MINIMUM OF THREE YEARS OF EXPERIENCE WITH MATERIAL BEING INSPECTED.

STRUCTURAL SHEET INDEX: STRUCTURAL NOTES

S2.01 STRUCTURAL PLAN - ADMIN BUILDING S2.02 STRUCTURAL PLAN - CLASSROOM BUILDING S4.01 DETAILS

ABBREVIATIONS:

```
ANCHOR BOLT
         AMERICAN CONCRETE INSTITUTE
         AMERICAN INSTITUTE OF STEEL CONSTRUCTION
          AMERICAN IRON AND STEEL INSTITUTE
          AMERICAN PLYWOOD ASSOCIATION
         ARCHITECT/ARCHITECTURAL
          AMERICAN SOCIETY OF TESTING AND MATERIALS
          AMERICAN WELDING SOCIETY
AWS
BLKG
         BLOCKING
BLW
          BELOW
BTWN
         BETWEEN
B.O.
         BOTTOM OF
         BOTTOM
          CALIFORNIA BUILDING CODE
          CENTER TO CENTER
         COLD JOINT
         CEILING
CMU
          CONCRETE MASONRY UNIT
          DIAMETER
          DRAWINGS
DSA
          DIVISION OF THE STATE ARCHITECT
         EDGE SCREW w/SPACING PER SHEAR WALL DIAGRAMS
F.O.
         FACE OF
FRMG
          FRAMING
         HOLDOWN
          HOLLOW STRUCTURAL SECTION
          STEEL ANGLE
          MAXIMUM
         MISCELLANEOUS CHANNEL
MIN
          MINIMUM
         NOT TO SCALE
         NUMBER OR POUNDS
```

OPPOSITE HAND

SHEET METAL SCREW

UNLESS NOTED OTHERWISE

TOP AND BOTTOM

PANEL JOINT

THROUGH

TOP OF

TYPICAL

POWDER-ACTUATED FASTENER

STRUCTURAL ENGINEER OF RECORD

OVER

SMS

T.O.

UNO

T & B

THRU

- CONDITIONS UNLESS OTHERWISE NOTED OR DETAILED.
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO RELEVANT

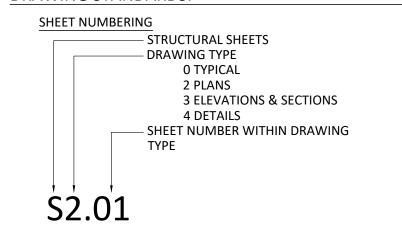
(T-24 PART 1, 4-317(c)).

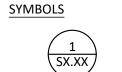
- 2. ALL TESTS AND INSPECTIONS SHALL CONFORM TO CHAPTER 17A OF THE

4. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER OF RECORD SHALL

OBSERVE ALL GRADING, BUILDING PAD PREP, AND FOOTING EXCAVATIONS.

DRAWING STANDARDS:

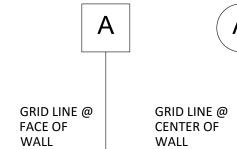




STANDARD

DETAIL &

LOCATION



AGENCY **APPROVAL:**



3431005-000

2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 916 325 1100 / www.hmcarchitects.com

∆ DESCRIPTION DATE

1450 HARBOR BLVD SUITE F WEST SACRAMENTO, CA 95691 916.716.6910

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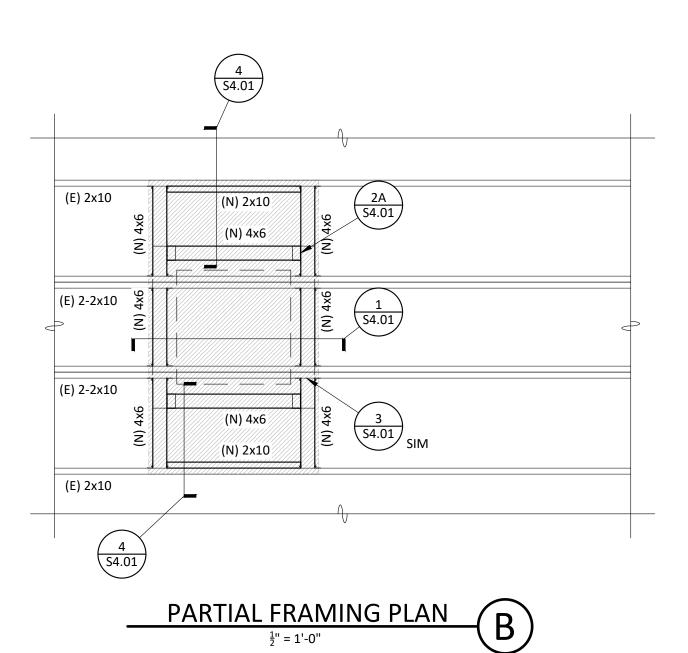
PROJECT:

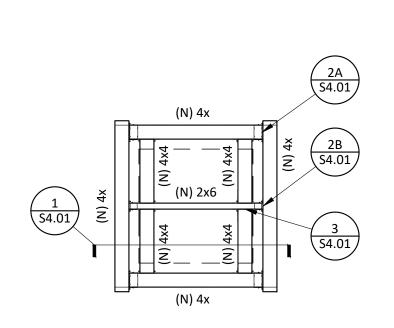
HVAC MODERNIZATION

SHEET NAME:

STRUCTURAL NOTES







NOTE: NEW 4x's ARE SHAPED PT LEVELING CURBS WITH 6" MIN DEPTH

PLATFORM FRAMING PLAN

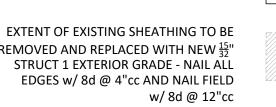
1/2" = 1'-0"

- 1. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMPING.
- 2. STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE HVAC UPGRADES TO EACH BUILDING. ALL WORK PERFORMED IS TO NOT IMPACT EXISTING LATERAL FORCE RESISTING SYSTEM.
- 3. NEW MECHANICAL EQUIPMENT IS TO BE PLACED ON CURBS PER MECHANICAL DRAWINGS.
- 5. ALL NEW FRAMING REQUIRED IS TO BE INSTALLED FROM ABOVE THE ROOF DECK OR STRUCTURAL SHEATHING.
- 6. ALL DUCT DROP OPENINGS IN THE ROOF ARE EXISTING. NO NEW ROOF PENETRATIONS ARE TO BE CREATED WITHOUT PRIOR APPROVAL OF SEOR.
- 7. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AT LOCATION OF EQUIPMENT PRIOR TO COMMENCING WORK.

EXISTING STUD WALL ======== EXISTING BEAM/GIRDER MEMBER EXISTING JOIST/RAFTER MEMBER NEW FRAMING MEMBER

EXTENT OF EXISTING SHEATHING TO BE REMOVED AND REPLACED WITH NEW $\frac{15}{32}$ "

NEW HVAC EQUIPMENT



STRUCTURAL PLAN KEY NOTES:

- 1 EXISTING $\frac{1}{2}$ " PLYWOOD SHEATHING
- 2 NEW HVAC EQUIPMENT (TO REPLACE EXISTING EQUIPMENT) TO BE INSTALLED ON EXISTING CURB, WEIGHT INDICATED IN PARENTHESIS - SEE MECHANICAL
- (3) EXISTING DUCT OPENINGS TO REMAIN
- NEW HVAC EQUIPMENT (PLACED IN NEW LOCATION) TO BE INSTALLED ON NEW PLATFORM, WEIGHT INDICATED IN PARENTHESIS SEE MECHANICAL DRAWINGS, A/S2.01 & B/S2.01

STRUCTURAL PLAN NOTES:



DATE

3431005-000

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AGENCY APPROVAL:

△ **DESCRIPTION**

CONSULTING Engineers Inc

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916.716.6910



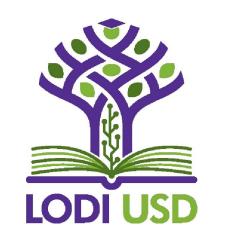
LODI USD - VICTOR ELEMENTARY SCHOOL 17670 BRUELLA ROAD

LODI, CA 95240

HVAC MODERNIZATION

STRUCTURAL PLAN - ADMIN BUILDING

CONSTRUCTION DOCUMENTS



DATE

3431005-000

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LODI USD - VICTOR ELEMENTARY SCHOOL 17670 BRUELLA ROAD

HVAC MODERNIZATION

STRUCTURAL PLAN - CLASSROOM BUILDING

CONSTRUCTION DOCUMENTS

FRAMED PLATFORM NOTES:

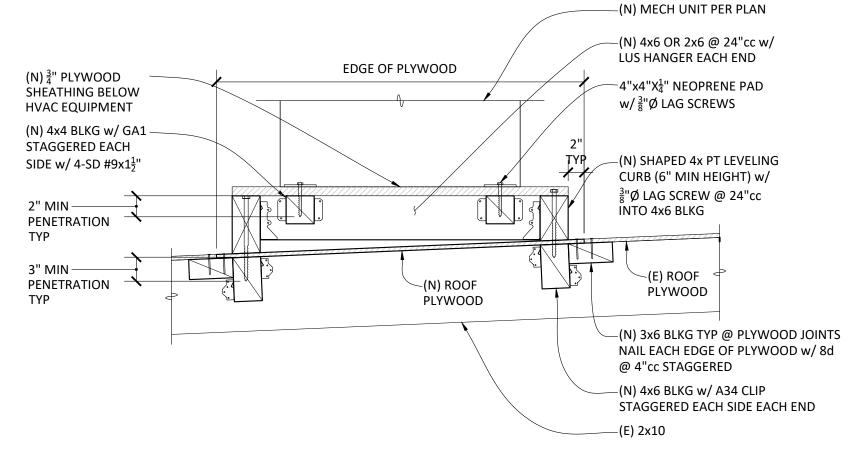
1. TOP OF PLATFORMS ARE TO BE SHEATHED WITH $\frac{3}{4}$ " STRUCTURAL PLYWOOD - NAIL WITH 10d @ 6"cc ALONG ALL EDGES AND 12"cc WITHIN FIELD. NAIL TO ALL CROSS BLOCKING WITH 10d @ 6"cc. ALL EDGES ARE TO BE SUPPORTED ON FRAMING MEMBERS.

2. STRUCTURAL PLYWOOD TO IS TO BE EXTERIOR GRADE, EXPOSURE 1 PER APA DOC PS-1.

DETAIL

1½" = 1'-0"

4



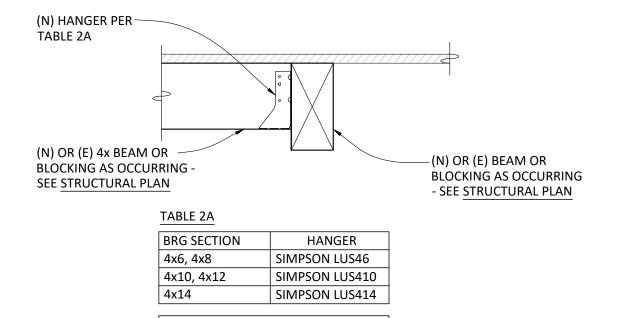
FRAMED PLATFORM NOTES:

1. TOP OF PLATFORMS ARE TO BE SHEATHED WITH $\frac{3}{4}$ " STRUCTURAL PLYWOOD - NAIL WITH 10d @ 6"cc ALONG ALL EDGES AND 12"cc WITHIN FIELD. NAIL TO ALL CROSS BLOCKING WITH 10d @ 6"cc. ALL EDGES ARE TO BE SUPPORTED ON FRAMING MEMBERS.

2. STRUCTURAL PLYWOOD TO IS TO BE EXTERIOR GRADE, EXPOSURE 1 PER APA DOC

DETAIL

1½" = 1'-0"



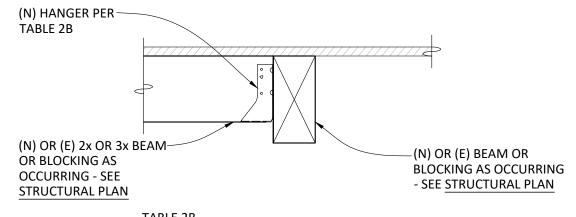


 TABLE 2B

 BRG SECTION
 HANGER

 2x6, 2x8
 SIMPSON LUS26

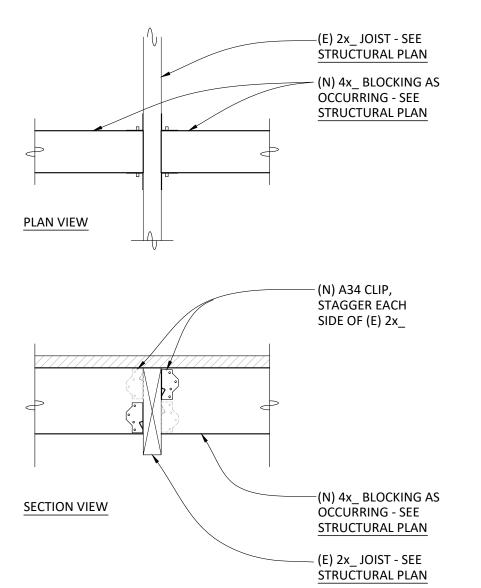
 2x10, 2x12, 2x14
 SIMPSON LUS210

 3x12
 SIMPSON LUS310

'A' CONDITION @ 4x FRAMING

'B' CONDITION @ 2x & 3x FRAMING

DETAIL 2



THIS DETAIL IS TO BE USED
WHERE NEW 4x_ MEMBERS
ARE TO BE FRAMED INTO
EXISTING JOIST

DETAIL 3

AGENCY APPROVAL:



DATE

HMC ARCHITECTS
3431005-000

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SSUE

Δ **DESCRIPTION**

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S_4555 | S_455 | S_4555 | S_45

FACILITY:

LODI USD - VICTOR ELEMENTARY SCHOOL 17670 BRUELLA ROAD LODI, CA 95240

PROJECT:

HVAC MODERNIZATION

SHEET NAME

DETAILS

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

MECHANICAL GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
 VERIFY EXACT LOCATION OF ALL (E) EQUIPMENT, DUCTWORK, DIFFUSERS, REGISTERS, AND GRILLES. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN (E) SYSTEMS AND DRAWINGS.
- 3. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS, AND WALLS WITH ARCHITECTURAL STRUCTURAL SYSTEMS PRIOR TO COMMENCING WORK.
- COORDINATE EXACT SIZE AND ROUTING OF DUCTWORK WITH ARCHITECTURAL PLANS, STRUCTURE, AND EQUIPMENT PRIOR TO COMMENCING WORK.
- 5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES.
- FURNISH AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER.
 FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS ARE LIMITED TO 5' MAXIMUM LENGTH.
- 8. ALL DUCTWORK, CEILING DIFFUSERS/REGISTERS/GRILLES, EQUIPMENT, PIPING, ETC. ARE NEW U.O.N. (SHOWN HEAVY). (E) DUCTWORK, PIPING, ETC. IS SHOWN LIGHT. SEE LEGEND.
- 9. (E) DUCTWORK AND ITEMS TO BE REMOVED ARE SHOWN CROSSED ("X") OUT, SEE LEGEND. COORDINATE CLOSELY WITH (N) DUCTWORK AND P.O.C.'S SHOWN. ALL OTHER (E) DUCTWORK, ETC. TO REMAIN.
- 10. WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"Ø AND 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMODATE THE ROUND DUCT CONNECTION.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G., HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS
- 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 AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

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

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

PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND

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

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

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

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

CALIFORNIA ENERGY CODE - ACCEPTANCE TESTING

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT.

A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR

INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

SYMBOL	DESCRIPTION
ABC	ABOVE CEILING
ABV	ABOVE
ACC DR	ACCESS DOOR
ACC P	ACCESS PANEL
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP, INCHES WATER COLUMN
ATV	ACOUSTIC TURNING VANE
BD	BALANCE DAMPER
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSE POWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CD	CONDENSATE DRAIN
CEF	CEILING EXHAUST FAN
CFM	CUBIC FEET OF AIR FLOW PER MINUTE
CLG	CEILING
CONC	CONCRETE
COND	CONDENSER
CONT	CONTINUATION
D	DAMPER
DIA	DIAMETER
DL	DOOR LOUVER
DN	DOWN
DB	DRY BULB
EA	EXHAUST AIR
EAD	EXHAUST AIR DAMPER
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
ELEC	ELECTRIC/ELECTRICAL
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
f	CUBIC FEET OF AIR FLOW PER MINUTE
F	DEGREES FAHRENHEIT
FA	FROM ABOVE
FB	FROM BELOW
FC	FLEXIBLE CONNECTION
-	
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FSD	FIRE AND SMOKE DAMPER
FT (') FT ²	FOOT OR FEET SQUARE FEET
GA	GAUGE
GALV	GALVANIZED
GI	GALVANIZED IRON
HDG	HEAVY DUTY GRILLE
HP	HORSE POWER
IN, (")	INCH
IN ²	SQUARE INCHES
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB
LRA	LOCKED ROTOR AMPS
LVR LWB	LOUVER LEAVING WET BULB
MAT	MINED AID TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTUs PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL

LV	GALVANIZED GALVANIZED IRON
G	HEAVY DUTY GRILLE HORSE POWER
(")	INCH SQUARE INCHES
Г	LEAVING AIR TEMPERATURE
S	POUNDS
В	LEAVING DRY BULB
A -	LOCKED ROTOR AMPS
₹	LOUVER
В	LEAVING WET BULB
Т	MIXED AIR TEMPERATURE
X	MAXIMUM
H	THOUSAND BTUs PER HOUR
A	MINIMUM CIRCUIT AMPACITY
CH	MECHANICAL
R	MANUFACTURER
N 	MINIMUM
OCP	MAXIMUM OVERCURRENT PROTECTION
	OUTSIDE AIR
D	OUTSIDE AIR DAMPER
	OVERHEAD
	OUTLET VELOCITY
	PRESSURE DROP
I (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
	RETURN AIR
D	RETURN AIR DAMPER
F	ROOF EXHAUST FAN
M	REVOLUTIONS PER MINUTE
A	RATED LOAD AMPS
	SUPPLY AIR
ER	SEASONAL ENERGY EFFICIENCY RATING
	SUPPLY FAN
	SHEET METAL
D	STATIC PRESSURE STATIC PRESSURE DROP
FT	SQUARE FEET
IN	SQUARE INCHES
	STAINLESS STEEL
RUC	STRUCTURAL
	TO ABOVE
	TO BELOW
MP	TEMPERATURE
VII	TOTAL PRESSURE
P	TOTAL STATIC PRESSURE
P	TYPICAL
N	UNLESS OTHERWISE NOTED
	ONLEGG OTHERWISE NOTED
	VOLUME DAMPER
	WATTS
3	WET BULB
NS	WIRE MESH SCREEN
•	WEIGHT

SYMBOLS LEGEND											
SYMBOL	ABBREVIATION	DESCRIPTION									
- 6-		BALL VALVE									
		BOTTOM CONNECTION									
ВРТ	BPT	BYPASS TIMER									
── ₩	CBV	CALIBRATED BALANCE VALVE									
DS	DS	DYNAMIC SENSOR									
		ECCENTRIC REDUCER									
-^	EJ	EXPANSION JOINT									
F	FD	FIRE DAMPER									
FS	FS	FIRE/SMOKE DAMPER									
		FLEXIBLE CONNECTOR									
-		FLOW ARROW									
Нх	Н	HUMIDISTAT									
—		LIMIT OF DEMOLITION									
\$		PIPE BREAK									
<u> </u>		PIPE CAP									
		PIPE DOWN									
ф— o— o—		PIPE UP									
		POINT OF CONNECTION									
		REDUCER									
SD	SD	SMOKE DAMPER									
SD	SKD	SMOKE DETECTOR									
TSX	TS	TEMPERATURE SENSOR									
T _X	Т	THERMOSTAT									

SINGLE	DUCT	LEGEND
LINE SYMBOL	LINE SYMBOL	RECTANGULAR DUCT:
24x12	24x12	WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
26x14L	26x14L	ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
R or D	RorD	RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
	OR	RECTANGULAR TO RECTANGULAR TRANSISTION OR ROUND TO ROUND TRANSITION, MAX. SLOPE OF 1:3
		RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
	$\frac{R}{W} = 1.5$	ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
ROUND	DUCT	ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
	N Z Z	FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. FOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
\boxtimes		SUPPLY AIR, SUPPLY DROP/RISE
		RETURN AIR, RETURN AIR DROP/RISE
		EXHAUST AIR, EXHAUST AIR DROP/RISE
	111111	FLEXIBLE DUCT (ROUND)

AGENCY APPROVAL:

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HMC Architects

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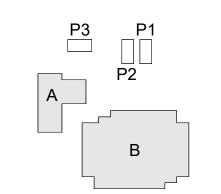
Δ DESCRIPTION DATE

KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR

STOCKTON, CA 95210

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:

MECHANICAL LEGEND AND NOTES

CONSTRUCTION DOCUMENTS

	MULTI-ZONE UNIT SCHEDULE																							
	"CME" CUSTOM	QTY	OTV LINIT	SUPPLY	MINI OA		DX COOLING				TC	OTAL GAS LOA	/D		ELECTRI	CAL DATA		ELECTRICAL DATA		MOUNTING	CONTROL	ODED W.T.		
EQUIPMENT TAG	MECHANICAL EQUIPMENT	BUILDING	QTY UNIT ZONES	AIR (CFM)	MIN OA (CFM)	SENSIBLE	TOTAL	EAT		INPUT	(MBH)	OUTPU	T (MBH)				MCA	MOCP	DATA SEER (EER) MOUNTING DETAIL	CONTROL DIAGRAM	OPER WT (LBS)		NOTES	
	MODEL NO	ZONES		(CFM)	(0)	CAPACITY	COOLING CAP (MBH)	EDB E	EWB (F)	LOW FIRE	HIGH FIRE	LOW FIRE	HIGH FIRE	AFUE (%)	VOLT	PHASE		(AMPS)		J=./	2,, (3, (3, 11)	(233)		
MZ-1	PMZ3-15GG41-XX	5	3	5740	889	132.2	174.5	80	67	171	264	165	255	96	460	3	41	45		1/M5.03	M6.04	4181	1, 2, 3, 4, 5, 6, 7, 8, 9	
MZ-2	PMZ3-25GG41-XX	6	5	6630	966	146.0	194.7	80	67	285	440	275	425	96	460	3	55	60		1/M5.03	M6.05	5549	1, 2, 3, 4, 5, 6, 7, 8, 9	
MZ-3	PMZ3-25GG41-XX	5	5	6130	938	157.4	204.2	80	67	285	440	275	425	96	460	3	54	60		1/M5.03	M6.06	5528	1, 2, 3, 4, 5, 6, 7, 8, 9	

- 1. PROVIDE CONDENSING UNITS WITH OPTIMAL START TO PREVENT ALL CONDENSERS FROM STARTING SIMULTANEOUSLY.
- 2. (E) ROOF CURBS SHALL BE RE-USED.
- 3. ALL UNITS SHALL BE CONSTRUCTED FROM PRE-PAINTED MATERIAL. COLOR SHALL BE PER ARCHITECT.
- 4. UNITS SHALL BE CUSTOM BUILT/FITTED TO MATE DIRECTLY TO EXISTING ZONE DUCT AND RETURN DUCT CONNECTIONS.
- 5. UNIT OPERATING WEIGHT INCLUDES FURNACES AND CONDENSING UNITS.
- 6. PROVIDE WITH MANUFACTURER'S RELIEF FAN. FAN TO PROVIDE POWERED RELIEF DURING ECONOMIZER OPERATION. FAN, CONTROLS, AND WIRING SHALL BE BY UNIT MANUFACTURER.
- 7. MCA AND MOCP INCLUDE INTERIOR FURNACE UNITS AND EXTERIOR CONDENSING UNITS. THERE IS A SINGLE POINT OF CONNECTION.
- 8. PROVIDE UNITS WITH 2" THICK MERV 13 FILTERS.
- 9. DUCT SMOKE DETECTOR IS REQUIRED IN THE SUPPLY DUCTS, (ONE PER FURNACE ACCORDING TO 2022 CMC 608. DETECTOR TO SHUT DOWN UNIT UPON DETECTION OF PARTICLES OF COMBUSION AND SIGNAL THE FIRE ALARM SYSTEM.

						FUR	NACE V	VITH DX	COILS	SCHED	ULE					
	D D						"LENNOX"	0011 455 (1)			GAS HEATING			ELECT	RICAL DATA	
EQUIPMENT TAG	BUILDING ZONE	UNIT ZONE	"LENNOX" MODEL NO	CFM	MIN OA (CFM)	ESP (IN WG)	COIL MODEL	COIL APD (IN WG)	INPUT	(MBH)	OUTPU	T (MBH)	AFUE	FAN	VOLT	MOTES
	ZONE		WODEL NO		(01 101)	(114 44 0)	NO	*****	LOW FIRE	HIGH FIRE	LOW FIRE	HIGH FIRE	(%)	HP	VOLI	
F-1-2	3 & 5	2	EL296UH090XV60C	2000	305	0.8	76L14	0.24	57	88	55	85	96	1	120	1, 3
F-1-3	4	3	EL296UH090XV60C	1740	261	0.8	76L14	0.20	57	88	55	85	96	1	120	1, 3
F-1-4	1 & 2	4	EL296UH090XV60C	2000	323	0.8	76L14	0.25	57	88	55	85	96	1	120	1, 2
F-2-1	1	1	EL296UH090XV60C	1250	180	0.8	76L14	0.15	57	88	55	85	96	1	120	1, 3
F-2-3	5	3	EL296UH090XV60C	1130	170	0.8	76L14	0.13	57	88	55	85	96	1	120	1, 2
F-2-4	3	4	EL296UH090XV60C	1250	173	0.8	76L14	0.13	57	88	55	85	96	1	120	1, 3
F-2-5	2	5	EL296UH090XV60C	1250	180	0.8	76L14	0.15	57	88	55	85	96	1	120	1, 3
F-2-6	4 & 6	6	EL296UH090XV60C	1750	263	0.8	76L14	0.25	57	88	55	85	96	1	120	1, 2
F-3-2	3	2	EL296UH090XV60C	1250	180	0.8	76L14	0.15	57	88	55	85	96	1	120	1, 3
F-3-3	5	3	EL296UH090XV60C	1130	210	0.8	76L14	0.21	57	88	55	85	96	1	120	1, 2
F-3-4	1	4	EL296UH090XV60C	1250	180	0.8	76L14	0.15	57	88	55	85	96	1	120	1, 3
F-3-5	4	5	EL296UH090XV60C	1250	188	0.8	76L14	0.16	57	88	55	85	96	1	120	1, 3
F-3-6	2	6	EL296UH090XV60C	1250	180	0.8	76L14	0.15	57	88	55	85	96	1	120	1, 3

- 1. FURNACE IS AN INTEGRAL PART OF THE MULTI-ZONE UNIT.
- 2. INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR AUTOMATIC SHUDOWN OF HVAC SYSTEM UPON SENSING SMOKE. PROVIDED, POWERED, AND INTERLOCKED WITH FIRE ALARM SYSTEM BY DIV. 26, INSTALLED AND CONNECTED TO FURNACE UNIT BY DIV. 23.
- 3. AUTOMATIC SHUTDOWN OF HVAC SYSTEM IS NOT REQUIRED PER 2019 CMC, SECTION 608.1, EXCEPTION 2: ALL ROOMS HAVE DIRECT EXIT TO OUTSIDE WITH TRAVEL DISTANCE LESS THAN 100 FEET.

					С	ON	DEN	SING (JNIT - A	IR COOL	ED SC	HEDUL	E.					
EQUIPMENT TAG	"LENNOX" MODEL NO	UNIT ZONE	EVAP CFM	SENSIBLE COOLING CAP.	TOTAL COOLING CAP.		EWB	VOLT	PHASE	CONDENSER - FAN FLA	COMPR LRA	RESSOR RLA	MCA	SEER	MOUNTING DETAIL	CONTROL DIAGRAM	OPER WT (LBS)	REMARKS
CU-1-2	ML14XC1-060-463	2	4550	(MBH) 0	(MBH) 0	(F) 80	(F) 67	460	3	1.0	60	7.8	10.7	0	2/M5.03	M6.04	267	1, 3, 4, 5, 6, 7
CU-1-3	ML14XC1-060-463	3	4550	0	0	80	67	460	3	1.0	60	7.8	10.7	0	4/M5.03	M6.04	267	1, 3, 4, 5, 6, 7
CU-1-4	ML14XC1-060-463	4	4550	0	0	80	67	460	3	1.0	60	7.8	10.8	0	4/M5.03	M6.04	267	2, 3, 4, 5, 6, 7
CU-2-1	ML14XC1-036-463	1	3160	0	0	80	67	460	3	0.6	38	5.8	7.8	0	4/M5.03	M6.05	190	2, 3, 4, 5, 6, 7
CU-2-3	ML14XC1-036-463	3	3160	0	0	80	67	460	3	0.6	38	5.8	7.8	0	4/M5.03	M6.05	190	2, 3, 4, 5, 6, 7
CU-2-4	ML14XC1-036-463	4	3160	0	0	80	67	460	3	0.6	38	5.8	7.8	0	2/M5.03	M6.05	190	1, 3, 4, 5, 6, 7
CU-2-5	ML14XC1-036-463	5	3160	0	0	80	67	460	3	0.6	38	5.8	7.8	0	4/M5.03	M6.05	190	2, 3, 4, 5, 6, 7
CU-2-6	ML14XC1-060-463	6	4550	0	0	80	67	460	3	1.0	60	7.8	10.7	0	2/M5.03	M6.05	267	1, 3, 4, 5, 6, 7
CU-3-2	ML14XC1-036-463	2	3160	0	0	80	67	460	3	0.6	38	5.8	7.8	0	4/M5.03	M6.06	190	2, 3, 4, 5, 6, 7
CU-3-3	ML14XC1-048-463	3	3600	0	0	80	67	460	3	0.9	60	7.1	8.5	0	2/M5.03	M6.06	218	1, 3, 4, 5, 6, 7
CU-3-4	ML14XC1-036-463	4	3160	0	0	80	67	460	3	0.6	38	5.8	7.8	0	4/M5.03	M6.06	190	2, 3, 4, 5, 6, 7
CU-3-5	ML14XC1-048-463	5	3600	0	0	80	67	460	3	0.9	60	7.1	8.5	0	2/M5.03	M6.06	218	1, 3, 4, 5, 6, 7
CU-3-6	ML14XC1-036-463	6	3160	0	0	80	67	460	3	0.6	38	5.8	7.8	0	4/M5.03	M6.06	190	2, 3, 4, 5, 6, 7

- 1. CONDENSING UNIT TO BE MOUNTED ON MULTI-ZONE UNIT CURB CAP/SUPPORT FRAME.
- 2. CONDENSING UNIT TO BE REMOTE MOUNTED ON THE ROOF. SEE PLAN FOR LOCATIONS.
- 3. CONDENSING UNIT INDIVIDUAL ELECTRICAL DATA IS INCLUDED IN THE MULTI-SONE UNIT MCA AND MOCP.
- 4. ELECTRICAL CONTRACTOR TO WIRE BETWEEN CONDENSER AND DISCONNECT LOCATED ON EXTERIOR OF MULTI-ZONE UNIT.
- 5. CONTROL CONTRACTOR TO WIRE BETWEEN CONDENSER AND CONTROL "J" BOX LOCATED ON EXTERIOR OF MULTI-ZONE UNIT.
- 6. REFRIGERANT: R-410a
- 7. CONTRACTOR TO RUN REFRIGERANT LINES BETWEEN CONDENSING UNIT AND STUBS AT MULTI-ZONE UNIT AND INSTALL SIGHT GLASS AT CONDENSING UNIT, PROVIDED BY UNIT MANUFACTURER.

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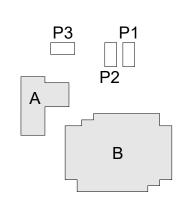
△ DESCRIPTION

KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR. STOCKTON, CA 95210

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:

MECHANICAL SCHEDULES

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

10.02

SET DIFFUSER / GRILLE TO AIRFLOW NOTED.
 (E) BUILDING ZONE 1.

3 (E) BUILDING ZONE 3.

4 (E) BUILDING ZONE 2. 5 (E) BUILDING ZONE 5. 6 (E) BUILDING ZONE 4.

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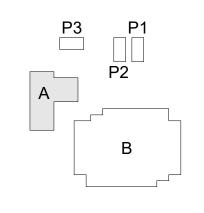
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KEYNOTES

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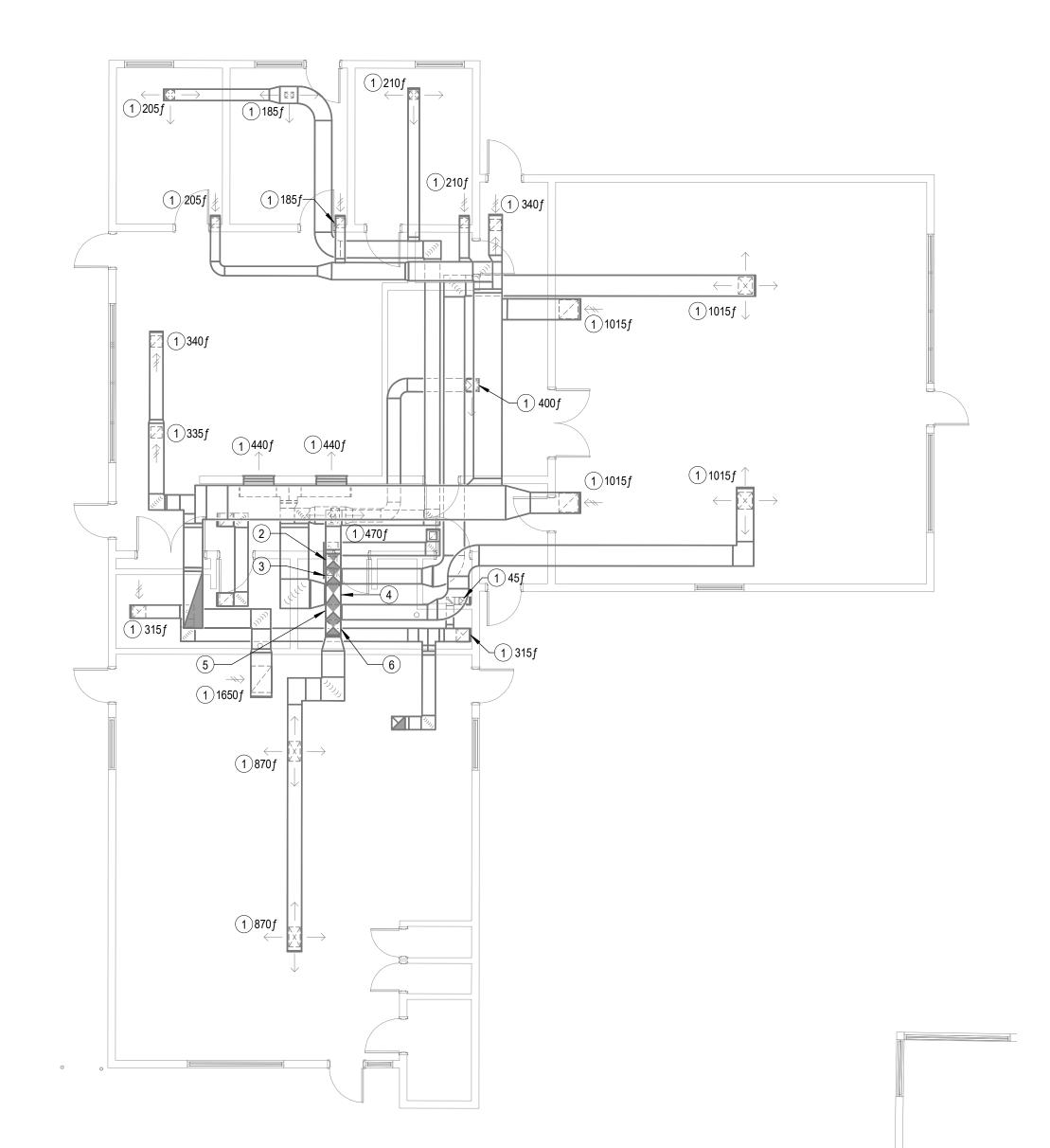


LODI USD VICTOR ES HVAC REPLACEMENT

MECHANICAL FLOOR PLAN - ADMINISTRATION BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

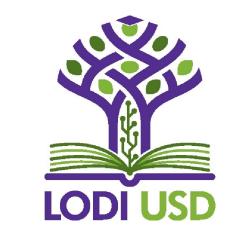


M2.11A SCALE: 1/8" = 1'-0"

4 (E) BUILDING ZONE 3.
5 (E) BUILDING ZONE 5.
6 (E) BUILDING ZONE 4.
7 (E) BUILDING ZONE 6.

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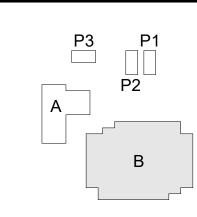
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KEYNOTES

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(EY PLAN:



FACILITY

8405 TAM O'SHANTER DI

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

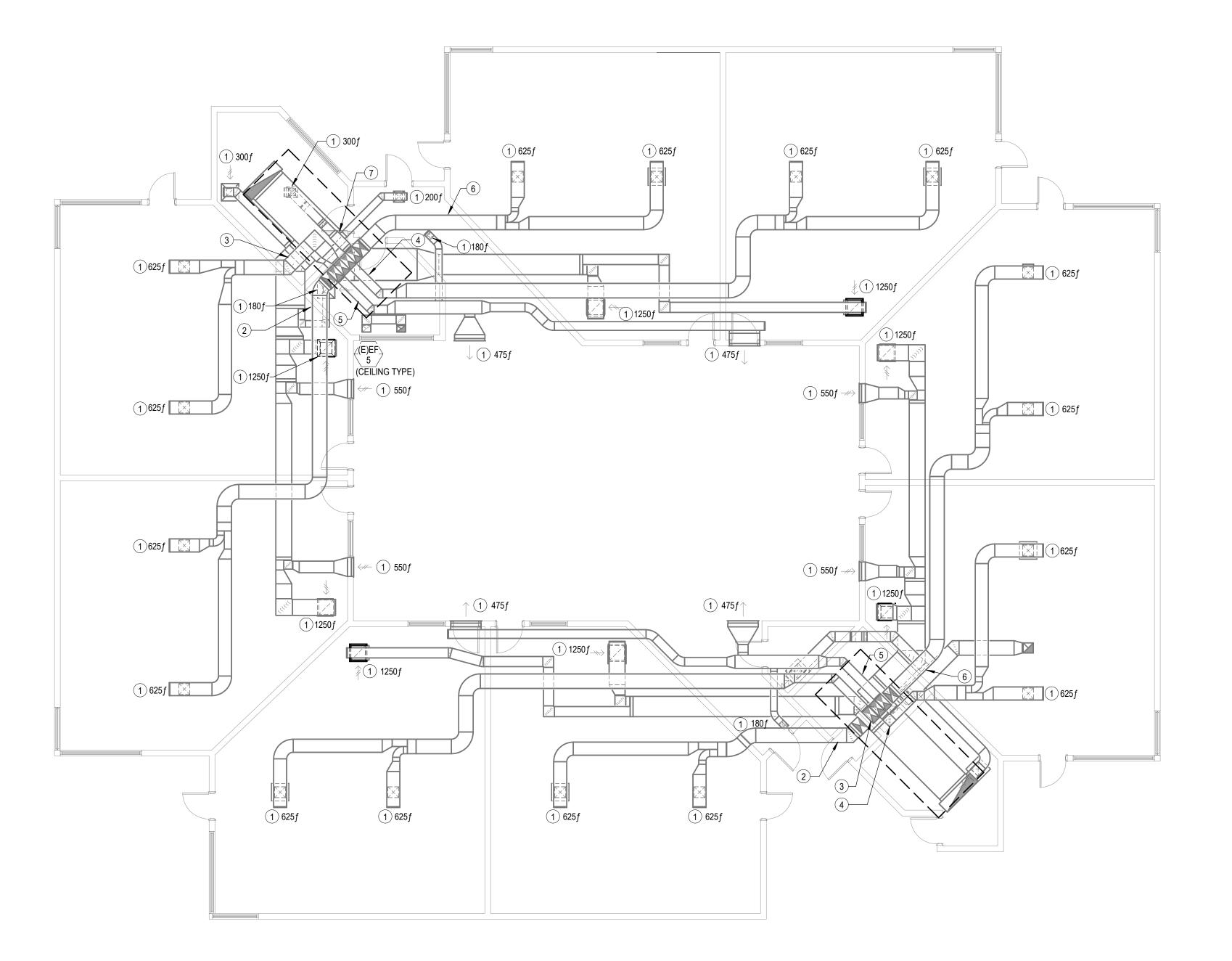
MECHANICAL FLOOR PLAN - CLASSROOM BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

DATE: 10.03.

M2.11B



1 MULTI-ZONE UNIT TO BE REMOVED. ROOF CURB TO REMAIN. GAS PIPING, CONDENSATE PIPING,

AND CONTROLS WIRING TO REMAIN.

2 2" G THOURH ROOF TO REMAIN. 3 1-1/2" CD THROUGH ROOF TO REMAIN.

DEMOLITION NOTES

BEFORE START OF MZ-UNIT DEMOLITION, REMOVE ALL EXISTING EMCS CONTROL COMPONENTS INCLUDING SENSORS, MAIN PANELS, THERMOSTATS, AND UNIT CONTROLLERS. PACKAGE IN BOXES WITH DESCRIPTIONS OF CONTENTS AND DELIVER TO:

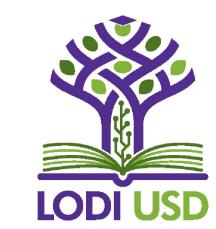
LODI UNIFIED SCHOOL DISTRICT ATTN: RYAN LANCASTER, LEAD CONSTRUCTION PROJECTS SPECIALIST

880 N. GUILD AVE. LODI, CALIFORNICA 95240

AGENCY APPROVAL:

> REVIEWING AGENCIES STAMP HERE

> > DATE



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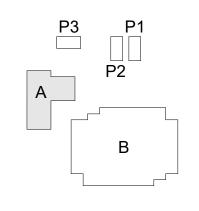
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△ **DESCRIPTION**

KEYNOTES

NOTES





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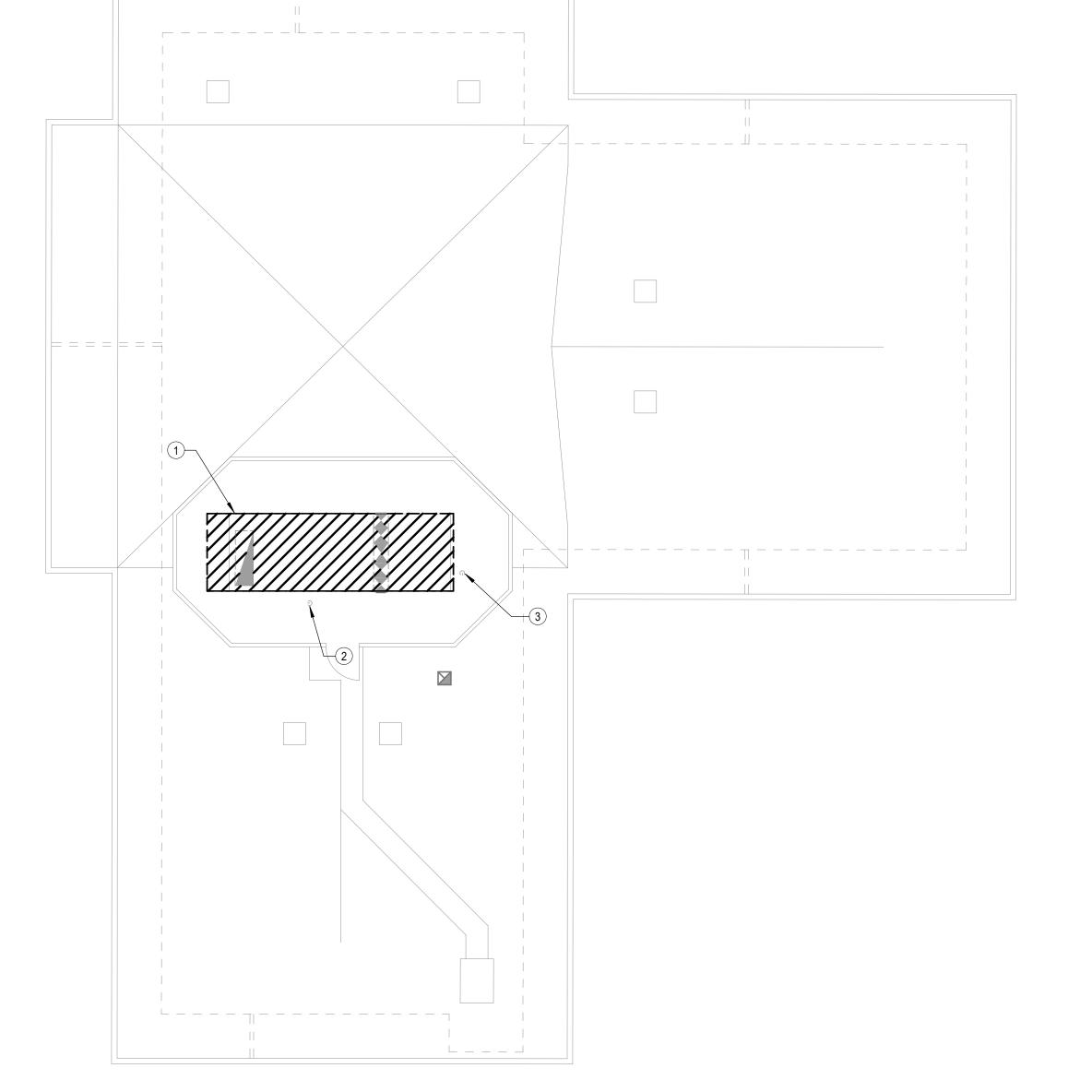
PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:

MECHANICAL ROOF DEMOLITION PLAN - ADMINISTRATION BLDG

CONSTRUCTION DOCUMENTS

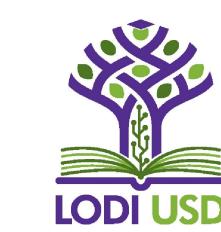


DEMOLITION NOTES

3 1-1/2" CD THROUGH ROOF TO REMAIN.

BEFORE START OF MZ-UNIT DEMOLITION, REMOVE ALL EXISTING EMCS CONTROL COMPONENTS INCLUDING SENSORS, MAIN PANELS, THERMOSTATS, AND UNIT CONTROLLERS. PACKAGE IN BOXES WITH DESCRIPTIONS OF CONTENTS AND DELIVER TO:

LODI UNIFIED SCHOOL DISTRICT ATTN: RYAN LANCASTER, LEAD CONSTRUCTION PROJECTS SPECIALIST 880 N. GUILD AVE. LODI, CALIFORNICA 95240



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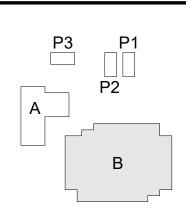
APPROVAL:

KEYNOTES

NOTES



(EY PLAN:



ACILITY:

8405 TAM O'SHANTER DI STOCKTON. CA 95210

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:

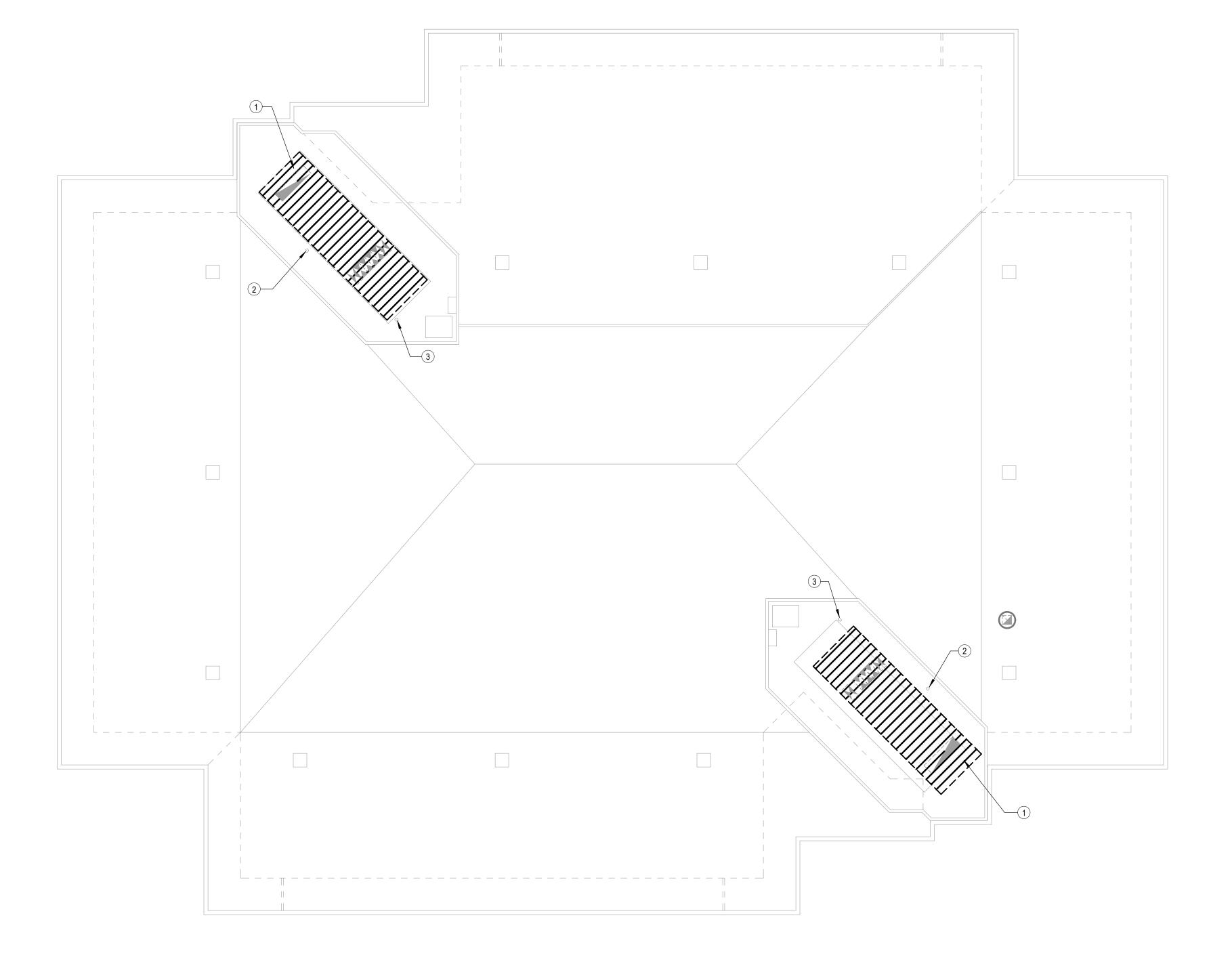
MECHANICAL ROOF DEMOLITION PLAN CLASSROOM BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

DATE: 10.03

M4.10B



- KEYNOTES
- 2" G, CONNECT TO UNIT WITH SOV AND 6" DIRT LEG.
 1-1/2" CD, CONNECT TO UNIT WITH MIN. 3" DEEP P-TRAP.
- 3 RS & RL PIPING, SEE CONDENSING UNIT SCHEDULE FOR SIZES, SEE DETAIL 5/M5.03 FOR
- 4 CONDENSING UNIT SUPPORT PLATFORM, SEE DETAIL 4/M5.03.

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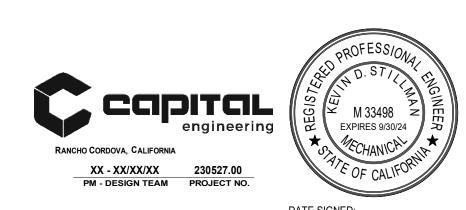
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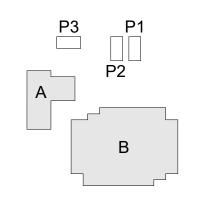
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KEYNOTES

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(EY PLAN:



ACILITY:

8405 TAM O'SHANTER DI

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

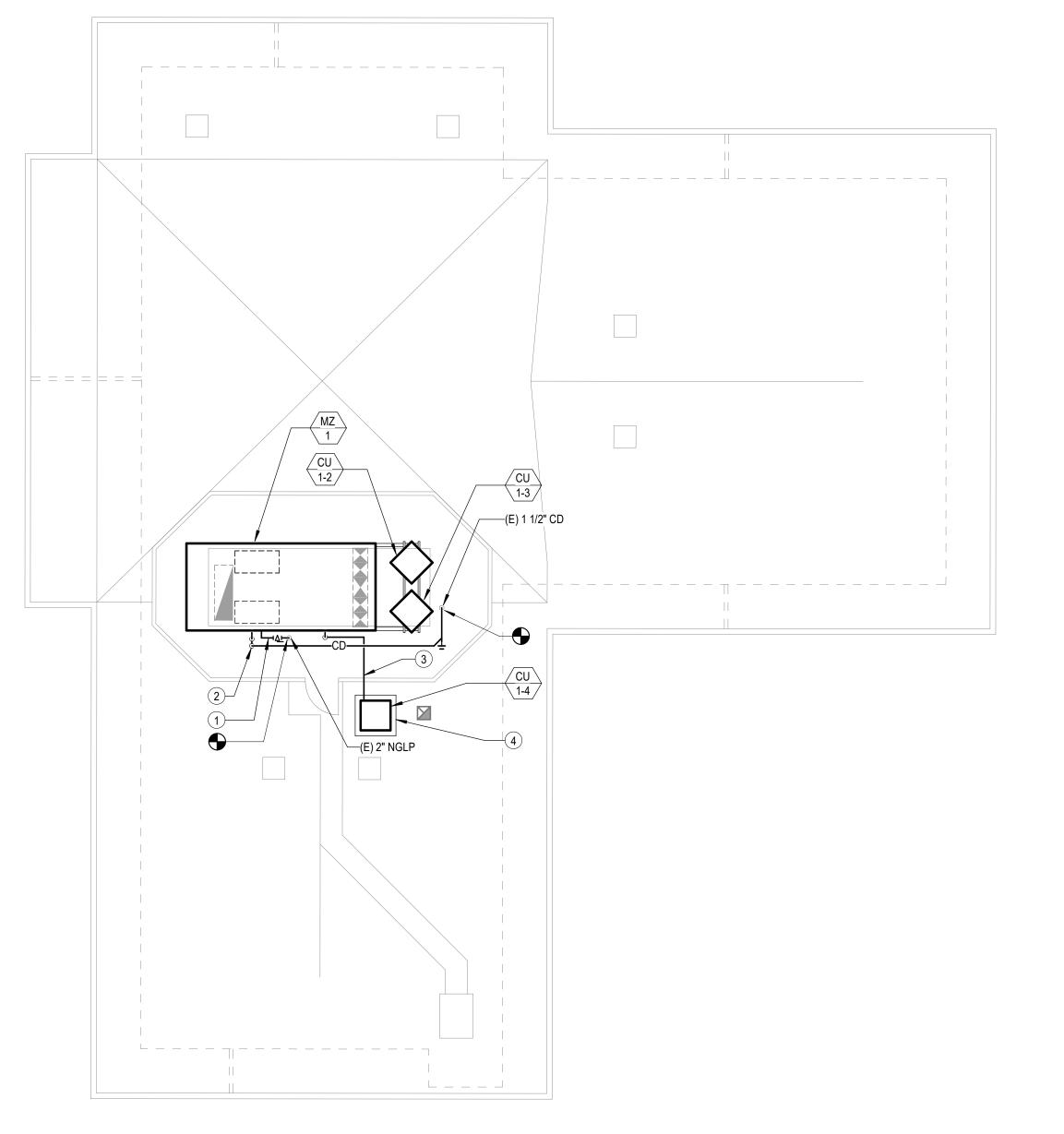
CHEET NAME:

CONSTRUCTION DOCUMENTS

MECHANICAL ROOF PLAN - ADMINISTRATION BLDG

DATE: 10.03.2023

VI4.11A



M4.11A SCALE: 1/8" = 1'-0"

- KEYNOTES
- 2" G, CONNECT TO UNIT WITH SOV AND 6" DIRT LEG.
 1-1/2" CD, CONNECT TO UNIT WITH MIN. 3" DEEP P-TRAP.
- 3 RS & RL PIPING, SEE CONDENSING UNIT SCHEDULE FOR SIZES, SEE DETAIL 5/M5.03 FOR
- 4 CONDENSING UNIT SUPPORT PLATFORM, SEE DETAIL 4/M5.03.

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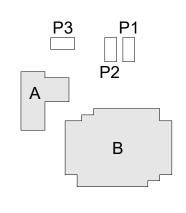
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APPROVAL:

KEYNOTES

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LODI USD VICTOR ES HVAC REPLACEMENT

MECHANICAL ROOF PLAN - CLASSROOM BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

MECHANICAL ROOF PLAN - CLASSROOM BLDG

M4.11B SCALE: 1/8" = 1'-0"

PLEASE RECYCLE

M5.01 SCALE: NONE

M5.01 SCALE: NONE

AGENCY APPROVAL:

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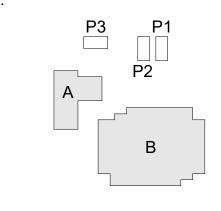
DATE

KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR. STOCKTON, CA 95210

LODI USD VICTOR ES HVAC REPLACEMENT

MECHANICAL MULTIZONE COMPONENTS AND CURBS

CONSTRUCTION DOCUMENTS

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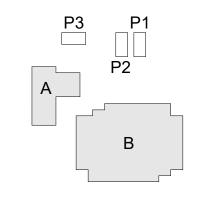
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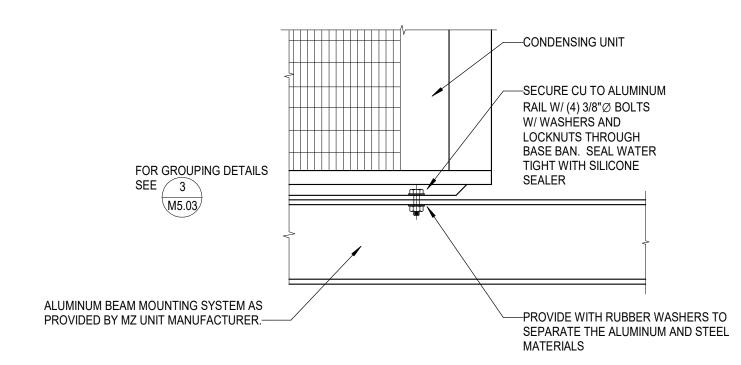
FACILITY:

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LODI USD VICTOR ES HVAC REPLACEMENT

MECHANICAL MULTIZONE COMPONENTS AND CURBS

CONSTRUCTION DOCUMENTS



CU SUPPORT AT ALUMINUM BEAM

M5.03/ SCALE: NONE

REFRIGERANT PIPING, CONTROL AND ELECTRICAL CONDUIT, TYP.

—12 GA. GALV. SM 1-1/2"x2-1/2" ANGLE, (2) PER SUPPORT

SCREWS, TYP.

-SECURE COVER TO ANGLE WITH (2) #10 TEK

——1/2" THICK TRAFFIC PAD, SPOT ADHERED IN ROOFING MASTIC. NOTE: AT SINGLE-PLY

ROOF, PROVIDE ROOFING MFRS ACCEPTABLE PAD & CEMENT PER MFRS

RECOMMENDATIONS.

6" MIN. (TYP.)

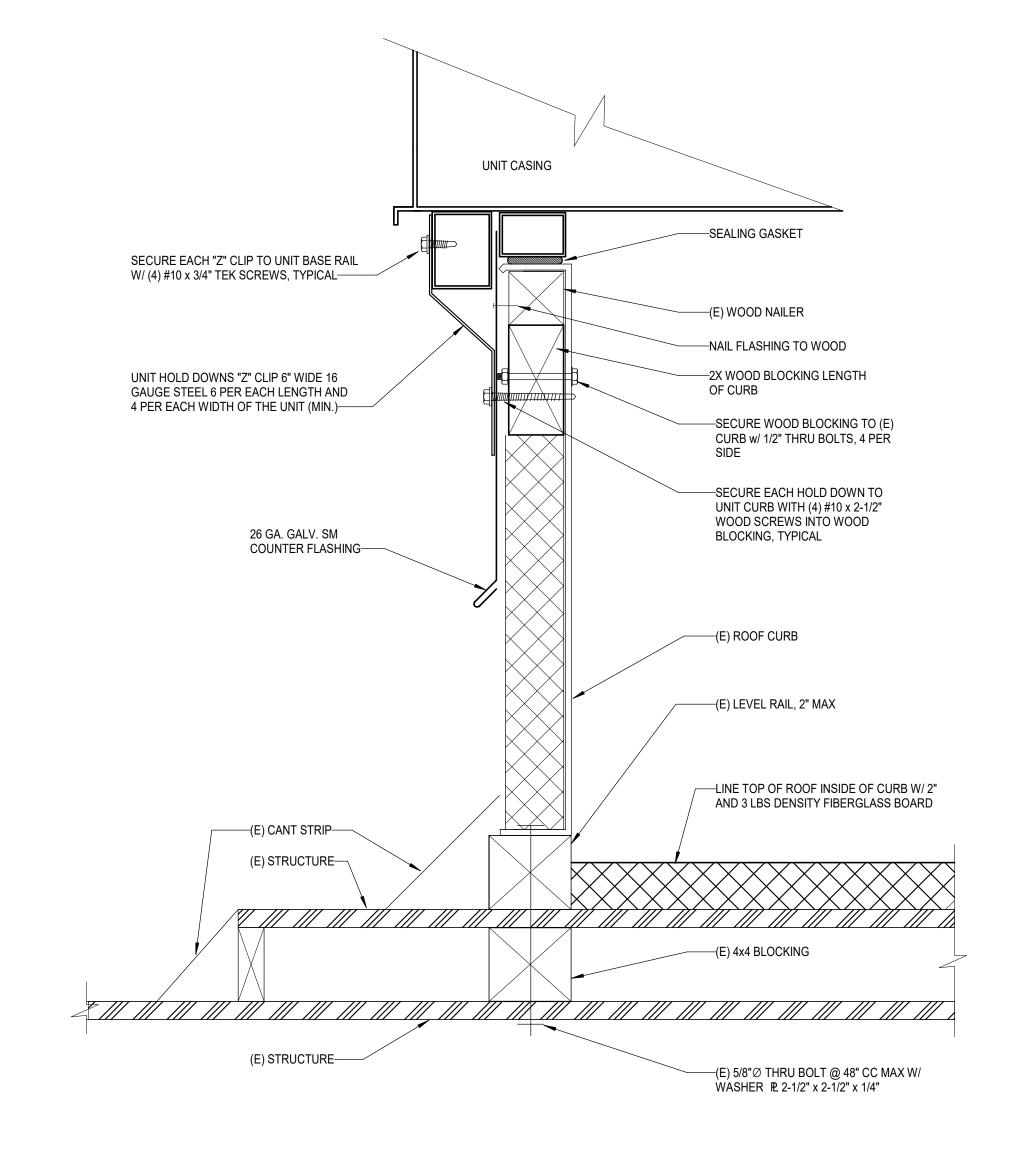
4x6 BLOCKING @ BOLTS WITH JOIST HANGER AT EACH END

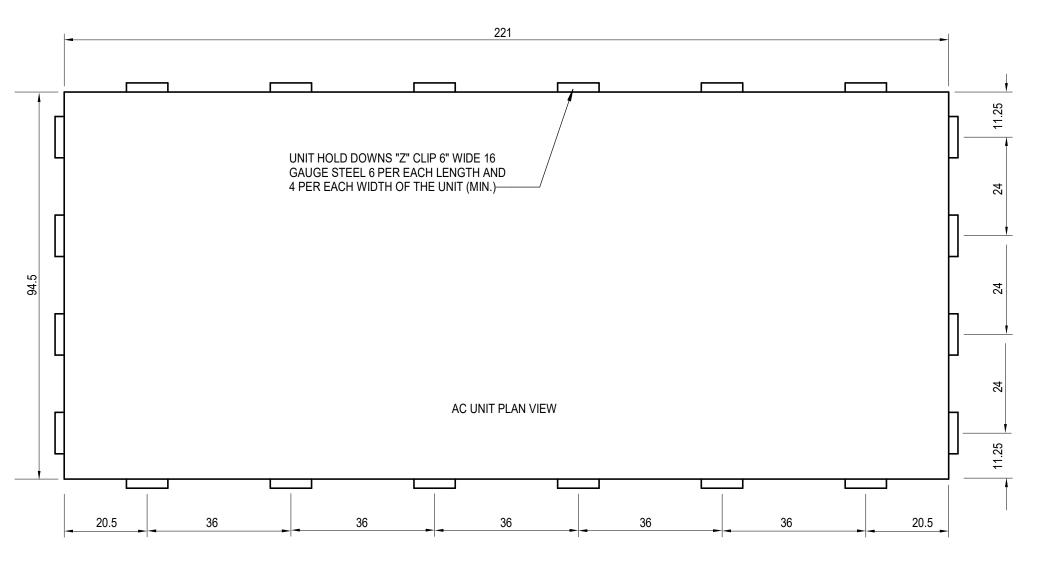
---4" X 4" 1/4" NEOPRENE PAD SET IN SEALANT, TYP. OF 4

—4 X 4 BLOCKING

-ROOFING UP AND UNDER FLASHING

—CANT STRIP





1. PRIOR TO COMMENCEMENT OF WORK, FIELD VERIFY ALL CONDITIONS INCLUDING DIMENSIONS OF EXISTING CURBS, STRUCTURAL ELEMENTS ETC.

MZ UNIT TO CURB

M5.03 SCALE: NONE

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/ EDIT THIS FAMILY, AND $\dot{}$ PLACE A PROJECT IMAGE HERE. IT WILL UPDATE ALL TITLEBLOCKS AUTOMATICALLY.

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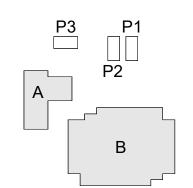
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KEY PLAN:



FACILITY:

PROJECT:

8405 TAM O'SHANTER DR.

STOCKTON, CA 95210

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME: **MECHANICAL DETAILS**

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

CU SUPPORT RAIL M5.03 SCALE: NONE

16 GA. GALV. SM COVER

"B-LINE" B-2000 SERIES PIPE CLAMP, TYP.

OVER REFRIGERANT LINES—

SECURE ANGLE TO CHANNEL

W/ SPRING NUT AND BOLT-

"B-LINE" DURA-BLOK DB6 SERIES SUPPORT BASE W/

LENGTH AS REQUIRED—

MIN. 3" ALL AROUND—

SET IN MASTIC

ON WALK PAD.-

SECURE UNIT TO PLATFORM WITH (4)

PENETRATION INTO PLATFORM, PRE-

SCREWS @ 6" C.C AT ALL LEVELING RAILS & FRAMING MEMBERS.

DRILL HOLES AND FILL WITH SEALANT-

3/8" DIA. LAG SCREWS, MIN 2-1/2"

1-1/8" PLYWOOD W/#10 WOOD

24 GA. WATER TIGHT PAN OVER PLATFORM—

ROOF DECK-

DIA. LAG SCREW-

SECURE PLATFORM ABOVE

TO BLOCKING WITH (2) 1/2"

M5.03 SCALE: NONE

B12 OR EQUAL - MIN. 6" HIGH,

PIPE SUPPORT ON ROOF - COVERED

-4X PRESSURE TREADED FIRE RETARDANT

DF RAILS, RIPPED LEVEL , ALL 4 SIDES

SECURE RAIL W/ 1/2" DIA LAG SCREW AT EACH 4x6 BLOCK. LAG SCREW SPACING @ 24" O.C. AND MIN. (2) PER SIDE----

1. MIN. 24" BETWEEN CONDENSING UNITS ON PLATFORM. CO-ORDINATE PLATFORM SIZE AND

SHEATHING INSTALLING BLOCKING AND REINSTALLING SHEATHING AND ROOFING TO MATCH

4"x4"x1/8" ALUMINUM I BEAM RAIL PROVIDED BY MZ UNIT MFR.

NOTES: 1. NUMBER AND TYPE AS SHOWN ON MECH FLOOR PLANS

CONDENSING

- 32%%145" - - 12" - - 32%%145" - - 12" - - 32%%145" - -

CONDENSING

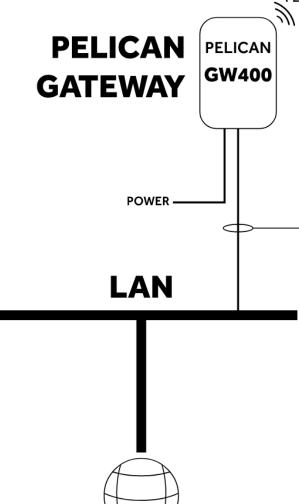
2. ALL ROOF FRAMING SUPPORT WORK TO BE PERFORMED FROM OUTSIDE THE BUILDING ENVELOPE. ADDITION OF BLOCKING TO BE ACHIEVED BY REMOVING ROOFING AND ROOF

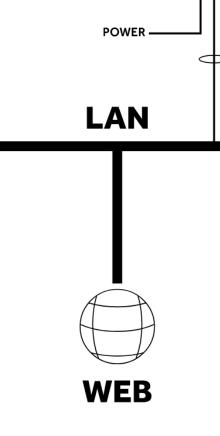
LOCATION WITH CLEARANCE REQUIREMENTS OF CONDENSING UNITS.

EXISTING. COORDINATE THE ROOFING WITH ARCHITECTURAL PLANS.

CU SUPPORT AT PLATFORM

PLEASE RECYCLE





NETWORK DEVICE PLACEMENT

NETWORK COMMUNICATION

CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DISTRICT INTERNET TECHNOLOGIES DEPARTMENT TO BE

COORDINATE WITH DISTRICT TO BE PROVIDED AN AVAILABLE AND SECURE 120VAC POWER CONNECTION. IF DISTRICT

PROVIDED AN AVAILABLE ETHERNET PORT AT REQUIRED LOCATION. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE TO

ALREADY HAS A GATEWAY INSTALLED AT CAMPUS, GATEWAY SHALL BE RE-LOCATED TO NEW LOCATION. DO NOT INSTALL

A MINIMUM OF (2) PELICAN REPEATERS SHALL BE INSTALLED AT THE CAMPUS, UNLESS ADVICES OTHERWISE BY PELICAN

BE INSTALLED IN A LOCATION WHERE SOMEONE CANNOT ACCESS. DO NOT INSTALL REPEATERS ON NETWORK RACKS OR

ALL OTHER PELICAN DEVICES SHALL BE WIRELESS REPEATERS IN THE WIRELESS NETWORK (NOT SHOWN IN NETWORK

CONTROLS CONTRACTOR IS RESPONSIBLE TO WORK WITH PELICAN TECHNICAL SUPPORT TO ESTABLISH BEST PRACTICES

PELICAN ETHERNET GATEWAY

PELICAN REPEATER

TO BE PROVIDED AN AVAILABLE AND SECURE 120VAC POWER CONNECTION AT EACH REPEATER LOCATION. REPEATER SHALL

NEXT TO OTHER NETWORK OR WIRELESS EQUIPMENT. ADDITIONAL REPEATERS SHALL BE INSTALLED, IF NEEDED, TO BRIDGE

A SINGLE (1) PELICAN GATEWAY SHALL BE INSTALLED AT THE CAMPUS, UNLESS ADVISED OTHERWISE BY PELICAN TECHNICAL SUPPORT. GATEWAY SHALL BE INSTALLED CENTRAL TO CAMPUS LAYOUT AS SHOWN IN DIAGRAM TO THE RIGHT. CONTROLS

COMMUNICATION SHALL BE ESTABLISHED ACROSS THE CAMPUS OVER PELICAN'S WIRELESS MESH NETWORK.

GATEWAYS ON NETWORK RACKS OR NEXT TO OTHER NETWORK OR WIRELESS EQUIPMENT.

THE ENTIRE CAMPUS INTO THE PELICAN WIRELESS MESH NETWORK.

DIAGRAM TO THE RIGHT.

WHEN IT COMES TO NETWORK ESTABLISHMENT.

GW400

WR400

PELICAN

PELICAN

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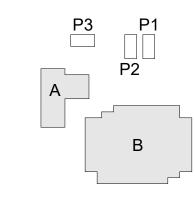
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LODI USD VICTOR ES HVAC REPLACEMENT

MECHANICAL CONTROLS

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

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ALL NOTES APPLY

NOTE 1: DEVICE WILL REQUIRE POWER FROM AN UNINTERRUPTED 120V POWER SOURCE.

NOTE 2: INSTALL IN A LOCATION THAT IS HIGH ON THE WALL WITH THE ANTENNA POINTED STRAIGHT UP NOTE 3: LINE OF SITE TO PELICAN DEVICES FROM THE GATEWAY ARE NOT TO BE OBSTRUCTED BY ANY SOLID METAL STRUCTURE, BUNDLE OF WIRING, OR METAL PIPING. NOTE 4: DO NOT PLACE WITHIN 10 FEET OF ANY OTHER WIRELESS EMITTING DEVICE OF HIGH VOLTAGE SOURCE OR DEVICE SUCH AS TRANSFORMERS, MOTORS, VFDs, OR SWITCHGEAR. NOTE 5: LOCATE IN SUCH A LOCATION THAT IT CAN REACH THE LTE NETWORK OUTSIDE THE STRUCTURE.

Internet

The Pelican Repeater extends the Pelican Network signal.

CONTROLS WIRING SCHEMATIC

ALL NOTES APPLY NOTE 1: DEVICE WILL REQUIRE POWER FROM AN UNINTERRUPTED 120V POWER SOURCE. NOTE 2: INSTALL IN A LOCATION THAT IS HIGH ON THE WALL WITH THE ANTENNA POINTED STRAIGHT UP. NOTE 3: LINE OF SITE TO PELICAN DEVICES FROM THE GATEWAY ARE NOT TO BE OBSTRUCTED BY ANY SOLID METAL STRUCTURE, BUNDLE OF WIRING, OR METAL PIPING. NOTE 4: DO NOT PLACE WITHIN 10 FEET OF ANY OTHER WIRELESS EMITTING DEVICE OR HIGH VOLTAGE SOURCE OR DEVICE SUCH AS TRANSFORMERS, MOTORS, VFDs, OR SWITCHGEAR. NOTE 5: PLUG CATV CABLE INTO CUSTOMERS INTERNET SWITCH FOR OUTBOUND ACCESS TO THE INTERNET. **GATEWAY MODEM ROUTER NETWORK SWITCH**

Internet

The Pelican Gateway connects to your network router or switch. It recieves a DHCP IP address (static IP is optional) and will establish an Outbound connection to your Pelican App.

CONTROLS WIRING SCHEMATIC

SEQUENCE OF OPERATION

THE PELICAN REPEATER COMMUNICATES THE PELICAN WIRELESS NETWORK UTILIZING IEEE STANDARD 802.15.4 AT 2.48GHZ LOCALLY WITH ALL PELICAN DEVICES AND CONNECTS THEM TO THE PELICAN CLOUD OVER AN ENCRYPTED VLAN CONNECTION THROUGH OUTBOUND ONLY FIREWALL PORTS. THERE IS NO PUBLIC IP ASSIGNED AND MAPPED TO ANY INTERNAL CUSTOMER LOCATION.

CONFIGURATIONS

Configuration with Pelican WebApp: Go to - ADMIN > NETWORK MAP> and select the correct serial number.

Put the building and room number as the name. e.g. BLDG1RM201, or BLDG76RM400

NOTE: IF YOU HAVE ANY TROUBLE WITH THIS STEP PLEASE CONTACT PELICAN WIRELESS SUPPORT AT support@pelicanwireless.com or 888-512-0490 Opt 2.

SEQUENCE OF OPERATION

THE PELICAN GATEWAY COMMUNICATES THE PELICAN WIRELESS NETWORK UTILIZING IEEE STANDARD 802.15.4 AT 2.48GHZ LOCALLY WITH ALL PELICAN DEVICES AND CONNECTS THEM TO THE PELICAN CLOUD OVER AN ENCRYPTED VLAN CONNECTION THROUGH OUTBOUND ONLY FIREWALL PORTS. THERE IS NO PUBLIC IP ASSIGNED AND MAPPED TO ANY INTERNAL CUSTOMER LOCATION.

THE GATEWAY IS CONFIGURED TO RECEIVE A LOCAL ADDRESS VIA DHCP. IT CAN BE GIVEN A STATIC ADDRESS AFTER IT IS CONNECTED TO THE PELICAN CLOUD.

CONFIGURATIONS

CONFIGURE THE GATEWAY FOR A NEW SITE: GO
TO WWW.PELICANWIRELESS.COM > NEW SITE
SETUP

CONFIGURE THE GATEWAY ON AN EXISTING
SITE: GO TO THE SITE NAME OF THE EXISTING
SITE: NOTE: IF YOU HAVE ANY TROUBLE WITH THIS STEP
PLEASE CONTACT PELICAN WIRELESS SUPPORT AT
support@pelicanwireless.com or 888-512-0490 Opt 2.

STEP 1 - ENTER THE GATEWAY SERIAL NUMBER STEP 1 - LOGIN TO THE SITE STEP 2 - ENTER THE DESIRED NAME OF THE SITE STEP 2 - CLICK ON ADMIN WITH NO SPACES. LETTERS, NUMBERS, DASH, AND UNDERSCORE ARE ACCEPTABLE. THE NAME STEP 3 - CLICK ON SITE SETTINGS IS NOT CASE SENSITIVE. (IF THE NAME IS

ALREADY IN USED YOU WILL BE NOTIFIED.)

STEP 4 - CLICK ON GATEWAYS STEP 3 - ENTER YOUR EMAIL ADDRESS AS THE STEP 5 - CLICK THE "+" ADMINISTRATOR. (YOU CAN ADD AS MANY ADMINISTRATORS AND USERS LATER AS WELL AS STEP 6 - ENTER THE NEW GATEWAY SERIAL REMOVE YOURSELF IF YOU CHOOSE.)

STEP 4 - ENTER THE ZIP CODE OF THE LOCATION STEP 7 - CLICK ON THAT GATEWAY AND ENTER WHERE YOU ARE INSTALLING. THE NAME OF THE ROOM IT IS LOCATED IN. STEP 5 - VERIFY THAT THE INFORMATION, ESPECIALLY THE EMAIL ADDRESS, IS CORRECT AND CLICK SUBMIT.

STEP 6 - FROM THE AUTO GENERATED EMAIL (POSSIBLY IN YOUR SPAM FOLDER) LOGIN TO THE SITE.

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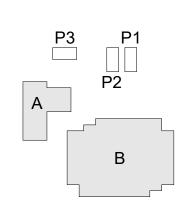
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KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR. STOCKTON, CA 95210

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME: MECHANICAL CONTROLS

CONSTRUCTION DOCUMENTS

SYSTEM CONFIGURATIONS

SINGLE THERMOSTAT SYSTEMS

Configuration with Pelican WebApp: Go to – ADMIN > THERMOSTAT CONFIGURATION > and select the correct serial number.

Thermostat Setup Page:

Name: ** This is the room name that the stat is located in. Group: ** Set as instructed by the CUSTOMER. Description: The first line should be the RTU Number + Zone Number. e.g., RTU1-Z4, or RTU13-Z1-2

Thermostat Settings System Type: Conventional Heat Stages: 2 Cool Stages: 1 Fan Stages: 1 (this will show "1- variable" later)

Temperature Settings Heat Range: 56° to 72° Cool Range: 68° to 86° CO2 Ventilation: 800ppm

Heat Needs Fan: Yes

Thermostat Operation Please leave these as shown

Economizer = On

Note that you should run the "Economizer test and calibration Input Sensor T1 = Off function first to verify operation of the economizer damper. Damper open and closed positions will be recorded

automatically. Auto Configure: No

Minimum Damper Position: 10%* Maximum Ventilation Position: 100%*

Variable Speed Fan = On Cooling Fan Speed: 100%* Heating Fan Speed: 50%* Heating Fan Speed – Stage 2: 80%* Ventilation Fan Speed: 40% *

Input Sensor T1 = On Function: Supply Temperature Cool Safe Range: 40° to 85° Heat Safe Range: 50° to 165°

Input Sensor T2 = On Function: Alarm Label: Fan Status Alarm Active Indication: Open* Alarm Enabled: During Fan

Function: Outside Temperature Wired Sensor

Function: Supply Temperature

Input Sensor T3 = On

Cool Safe Range: 40° to 85° Heat Safe Range: 50° to 165° Notification Settings

Sensitivity: Custom Setpoint Deviation: 5° Notify if Unreachable: Yes Safe Range: 35° to 95° CO2 Warning Level: 1800ppm

Configuration with Pelican WebApp: Go to – ADMIN > ZONE CONTROLLER > and select the correct serial number then click CONFIGURATION SETTINGS

Name: ** This is the RTU number and AHU number. e.g., RTU2-4, RTU7-2

BUILDING STATIC COORDINATOR SETTINGS

System Settings System Type: Conventional Heat Stages: 0 Cool Stages: 0 Fan Stages: 1 Heat Needs Fan: Yes

§ Building Static Control = On Modulating Control Type (A1) = Damper Actuator Actuator Voltages: Open = 0.0 / Closed = 10.0 Maximum Building Static: 0.06wc Start Exhaust First (G2) = Yes Variable Speed Fan = Off Bypass Controller = Off

Static Pressure = Off Economizer = Off Humidity Settings = Off Boiler Controller = Off

Input Sensor T2 = Off Input Sensor T3 = Off

NOTES:

All configurations are not shown here. Only the ones relevant to this installation. If you have any questions regarding any configuration you are seeing, please contact Pelican Technical Support and reference the document and or project number on this page.

* - Set as appropriate per unit

** - Mechanical Contractor is to verify that the name is correct in respect to the Pelican Wireless thermostat serial number. § - Contact Pelican Technical Support for assistance

SEQUENCE OF OPERATION

NORMAL OPERATIONS:

VIA PELICAN EMS, THE UNIT WILL RUN ACCORDING TO THE USER DEFINABLE TIME SCHEDULE IN THE FOLLOW MODES:

A. OCCUPIED MODE: THE AHU WILL MAINTAIN

1. ALL OUTSIDE DAMPERS SHALL MAINTAIN MINIMUM AIRFLOW RATE (SET BY TAB), ALL SUPPLY FANS SHALL RUN SIMULTANEOUSLY. SYSTEMS WITH FLOATING ZONE DAMPERS THE FAN WILL MODULATE BASED ON STATIC PRESSURE OR OPERATE AT MINIMUM SPEED. FOR SYSTEMS WITH BACKDRAFT DAMPERS THE FAN WILL MODULATE BASED ON STAGES OF HEATING, COOLING. OR VENTILATION. B. UNOCCUPIED MODE (NIGHT SETBACK), SCHEDULED FROM PELICAN EMS:

1. ZONE THERMOSTATS SHALL BE SET TO AN ECONOMY (ADJ) ROOM SET POINT.

2. AHU OUTSIDE DAMPER SHALL BE CLOSED AND FANS SHALL BE OFF. 3. ANY THERMOSTAT MAY CALL ANY INDIVIDUAL ZONE AIR HANDLER SYSTEM ON INDEPENDANT OF OTHER ZONES.

C. MORNING START:

1. ALL ZONE THERMOSTAT OCCUPIED SCHEDULES SHALL USE OPTIMUM START, ZONES SHALL BE SCHEDULED FOR THE TIME WHEN OCCUPANTS NORMALLY ARRIVE AND SHALL AUTO-CALCULATE WHEN TO START THE UNIT TO BRING ROOM TO THE OCCUPIED TEMPERATURE SET POINTS. D. HEATING MODES:

1. ON SINGLE ZONE SYSTEM, PELICAN ZONE THERMOSTATS SHALL MONITOR ROOM TEMPERATURE. IF THE ROOM TEMPERATURE IS WITHIN ONE DEGREE BELOW THE HEAT SETPOINT, THERMOSTAT SHALL GO INTO MODERATE HEATING DEMAND, ENABLE FIRST STAGE HEATING, FAN SHALL TARGET THE LOW HEATING SPEED, AND OUTSIDE DAMPER SHALL PROVIDE VENTILATION UNTIL THE SPACE HEATING DEMAND IS SATISFIED. IF THE ROOM TEMPERATURE IS MORE THAN A DEGREE FROM THE HEAT SETPOINT, THERMOSTAT SHALL GO INTO AGGRESSIVE HEATING DEMAND, SECOND STAGE HEAT WILL BE ADDED, FAN SHALL TARGET THE HIGH HEATING SPEED, AND THE OUTSIDE DAMPER SHALL PROVIDE VENTILATION UNTIL THE SPACE HEATING DEMAND IS SATISFIED. ONCE ALL HEATING DEMAND IS ELIMINATED, A PURGE CYCLE SHALL OCCUR TO PUSH EXCESS HEAT OUT OF THE SYSTEM AND INTO THE SPACE. THEN HEAT SHALL BE DISABLED.

E. COOLING MODES: 1. ON SINGLE ZONE SYSTEM, PELICAN ZONE THERMOSTATS SHALL MONITOR ROOM TEMPERATURE. IF THE ROOM TEMPERATURE IS WITHIN ONE DEGREE ABOVE THE COOL SETPOINT, THERMOSTAT SHALL GO INTO MODERATE COOLING DEMAND, ENABLE FIRST STAGE COOLING, FAN SHALL TARGET THE LOW COOLING SPEED, AND OUTSIDE DAMPER SHALL PROVIDE VENTILATION UNTIL THE SPACE HEATING DEMAND IS SATISFIED. IF THE ROOM TEMPERATURE IS MORE THAN A DEGREE FROM THE COOL SETPOINT, THERMOSTAT SHALL GO INTO AGGRESSIVE COOLING DEMAND, SECOND STAGE COOLING WILL BE ADDED, FAN SHALL TARGET THE HIGH COOLING SPEED, AND THE OUTSIDE DAMPER SHALL PROVIDE VENTILATION UNTIL THE SPACE COOLING DEMAND IS SATISFIED. ONCE ALL COOLING DEMAND IS ELIMINATED, A PURGE CYCLE

SHALL OCCUR TO PUSH EXCESS COOLING OUT OF THE SYSTEM AND INTO THE SPACE. THEN COOLING SHALL BE DISABLED. F. ECONOMIZER 1. IF THERE IS COOLING DEMAND AND THE OUTSIDE AIR IS BELOW 65°F (ADJ), AND AT LEAST 4°F BELOW THE SPACE TEMPERATURE, AND IF THE ENTHALPY IS ACCEPTABLE, AHU SHALL ALLOW FOR AN

ECONOMIZER CYCLE TO COOL ZONES. STAGES OF COOLING MAY BE ADDED IF ACCEPTABLE TO MEET SPACE CONDITIONS. G. BUILDING PRESSURIZATION CONTROL: 1. THE BUILDING PRESSURE CONTROLLER WILL MONITOR BUILDING PRESSURE TO MAINTAIN A POSITIVE BUILDING PRESSURE OF 0.06 in wc. AS PRESSURE INCREASES IT WILL START THE EXHAUST FAN

OR FANS AND WILL MODULATE THE SPEED OR SPEEDS TO REDUCE BUILDING PRESSURE. H. DEMAND CONTROLLED VENTILATION

1. PELICAN ZONE THERMOSTATS WILL MEASURE CO2 IN THE SPACE.

2. AS CO2 INCREASES ABOVE THE SETPOINT OF 800ppm THE ASSOCIATED OUTDOOR AIR DAMPER WILL MODULATE OPEN UNTIL THE CO2 LEVEL STOPS INCREASING.

3. AS C02 LEVELS BEGIN TO FALL AFTER EXCEEDING THE SETPOINT THE ASSOCIATED OUTDOOR AIR DAMPER WILL MODULATE BACK TO THE MINIMUM VENTILATION POSITION. I. SAFETIES AND ALARMS:

1. FAULTS SHALL ALARM TO THE PELICAN EMS. 2. DUCT SMOKE DETECTOR(S) ARE TO BE HARD WIRED TO STOP THE EQUIPMENT, SUPPLY & EXHAUST FANS WHEN PRODUCTS OF COMBUSTION ARE DETECTED IN THE AIR STREAM. **AGENCY APPROVAL:**

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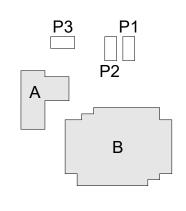
△ **DESCRIPTION**

KEYNOTES

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KEY PLAN:



FACILITY:

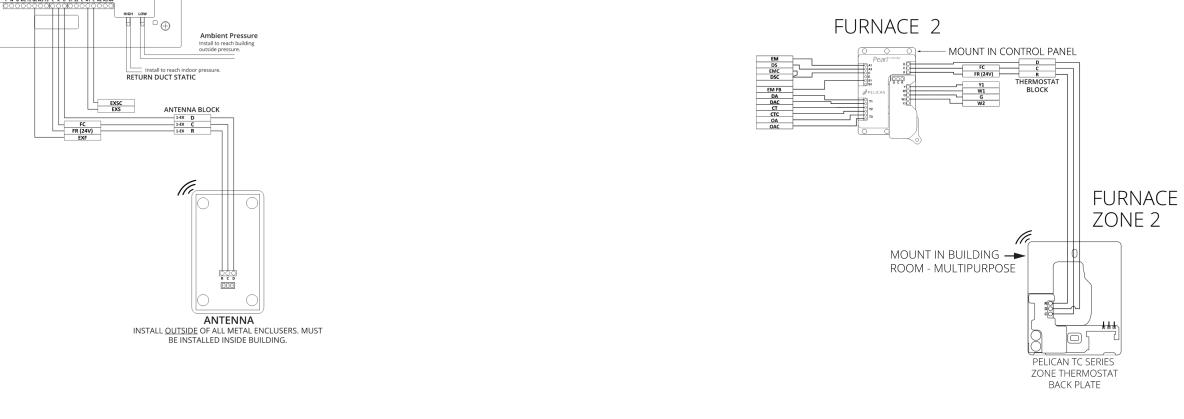
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STOCKTON, CA 95210

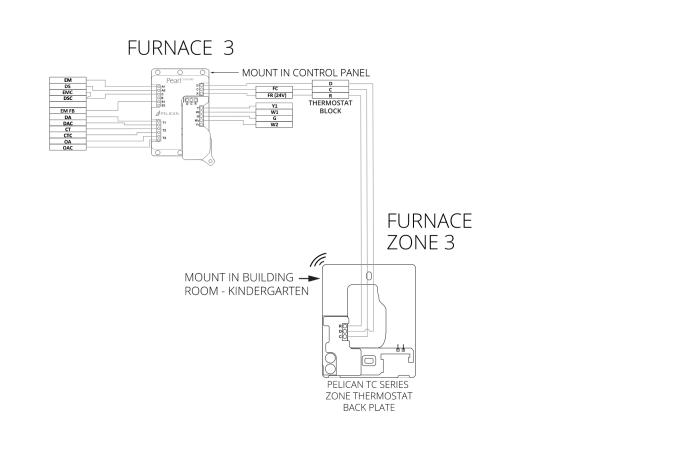
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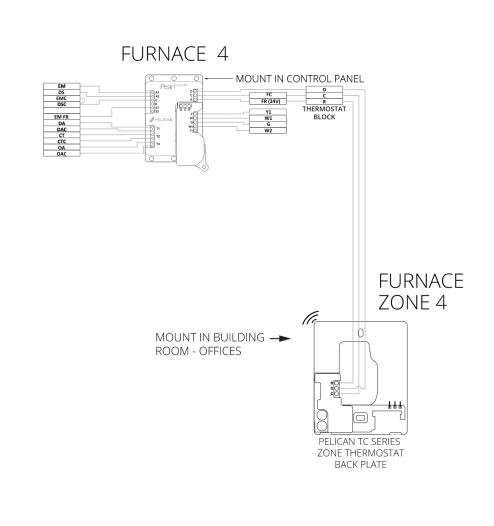
SHEET NAME: MECHANICAL CONTROLS

CONSTRUCTION DOCUMENTS

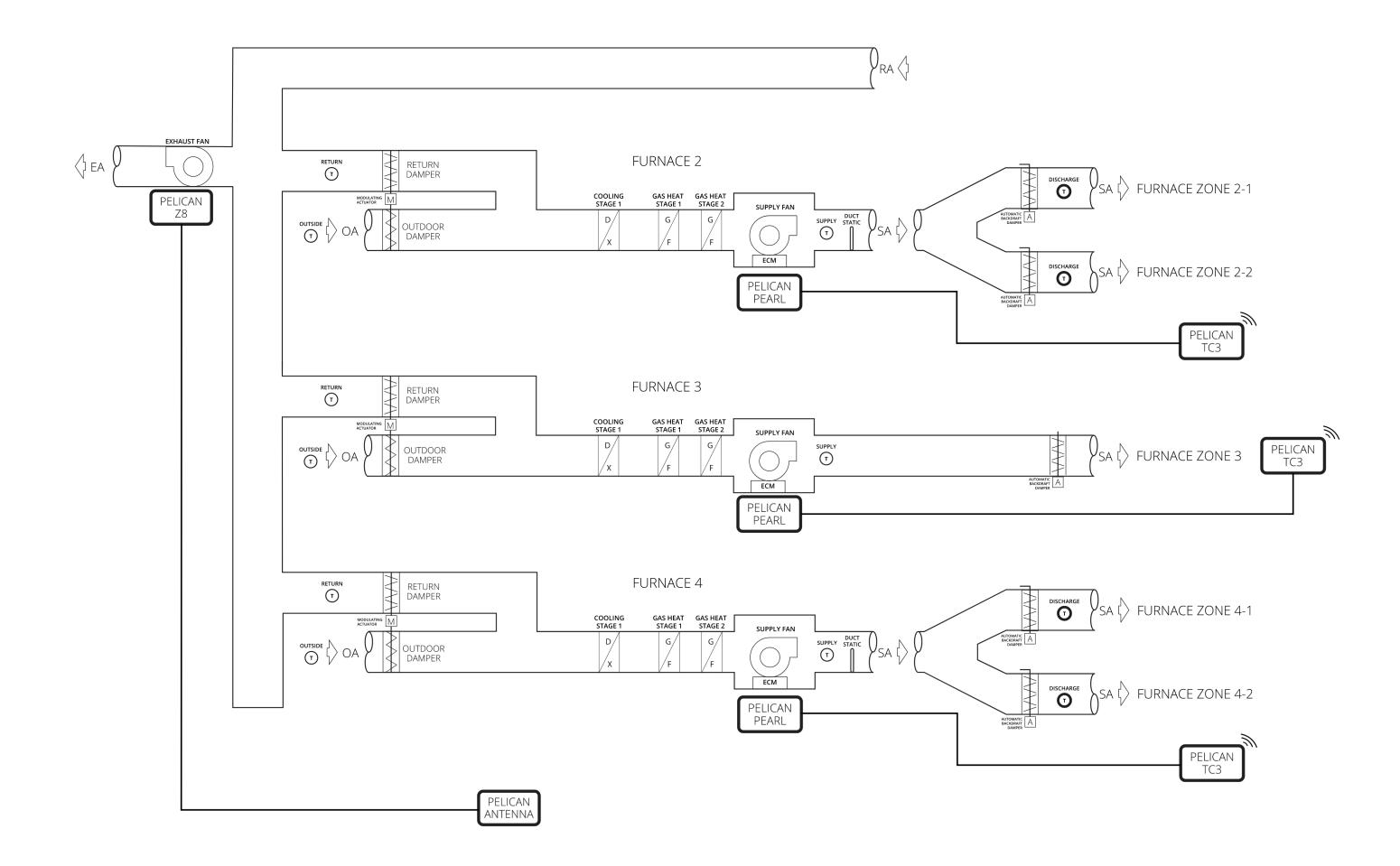


	TERMINAL TABLE
FR (24V)	FURNCE TRANSFORMER 24VAC POWER
FC	FURNACE COMMON
RA/RAC	RETURN SENSOR (10K TYPE 2)
OA/OAC	OUTSIDE SENSOR (10K TYPE 2)
DA/ DAC	SUPPLY SENSOR (10K TYPE 2)
G	SUPPLY FAN
EXF	EXHAUST FAN
W1	HEAT STAGE 1
W2	HEAT STAGE 2
CT/CTC	FAN STATUS (DRY-CONTACT)
DS	FAN SPEED
DSC	FAN SPEED COMMON
EM	ECON ACTUATOR POSITION
EMC	ECON ACTUATOR COMMON
EM FB	ECON FEEDBACK
Y1	COOLING STAGE 1
EXS	EXHAUST FAN SPEED
EXSC	EXHAUST FAN SPEED COMMON





CONTROLS WIRING SCHEMATIC



AIR FLOW SCHEMATIC

MFG PART NUMBER PART NAME

PELICAN TC3 TOUCH THERMOSTAT w/CO2

PELICAN PEARL ADVANCED CONTROLLER

PELICAN Z8 ZONE COORDINATOR

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

DATE



HMC ARCHITECTS 3431005-000

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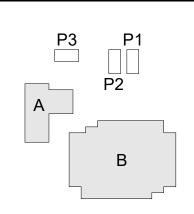
A DESCRIPTION

KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR. STOCKTON, CA 95210

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:
MECHANICAL CONTROLS

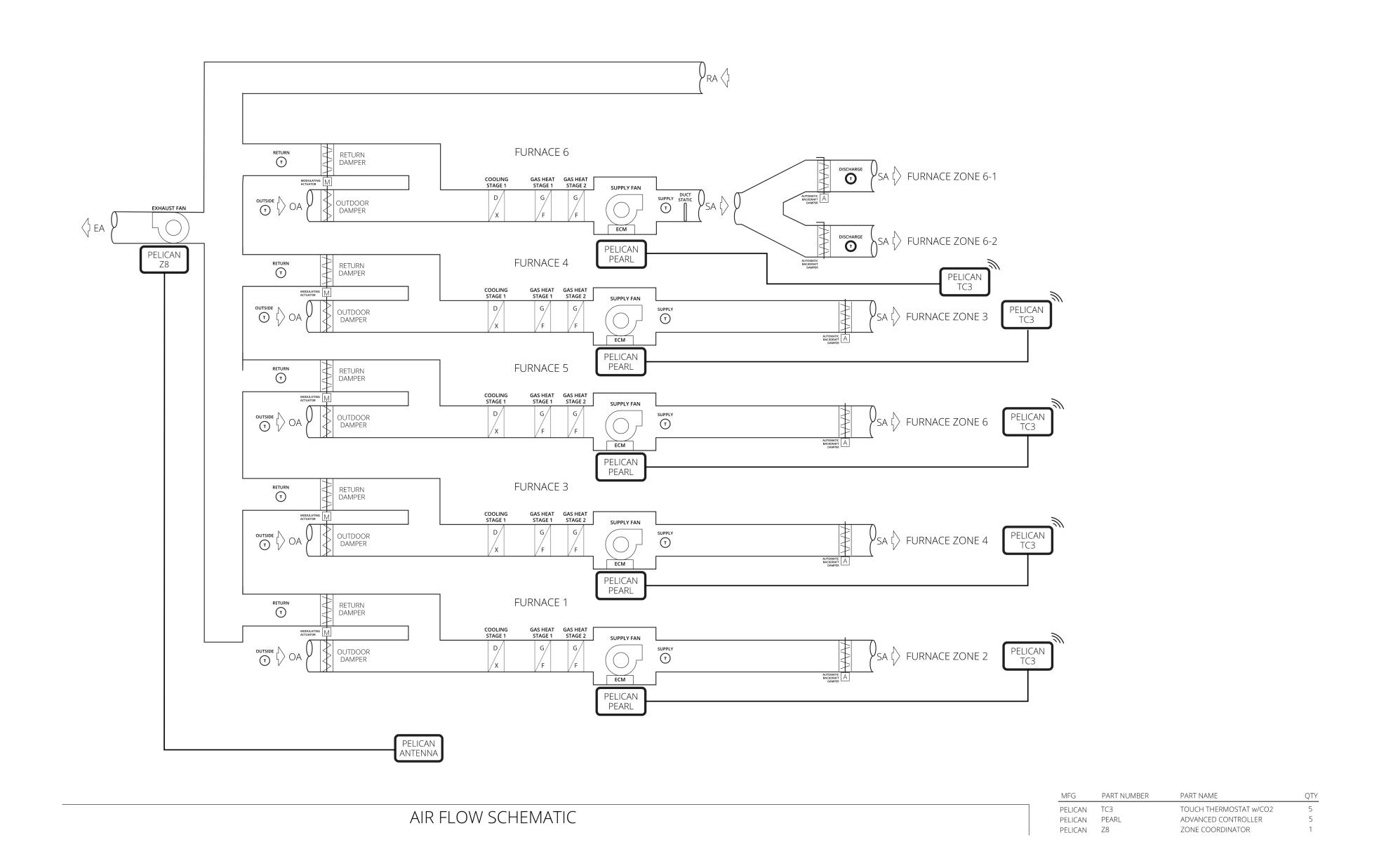
CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

EET:

VI6.04

CONTROLS WIRING SCHEMATIC



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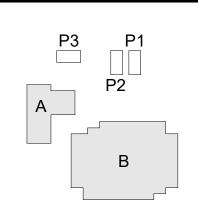
Δ DESCRIPTION DATE

KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR. STOCKTON, CA 95210

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:

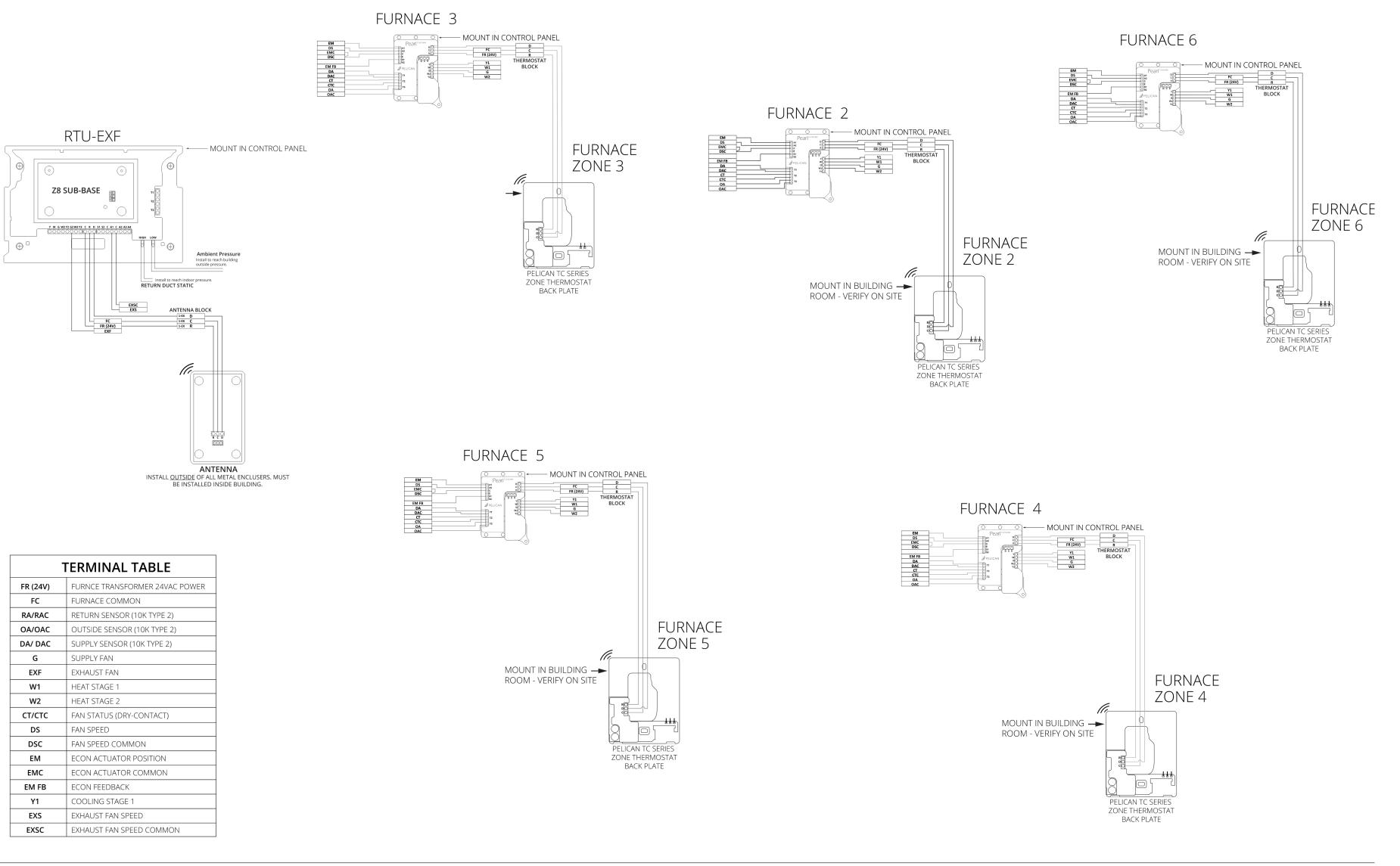
MECHANICAL CONTROLS

CONSTRUCTION DOCUMENTS

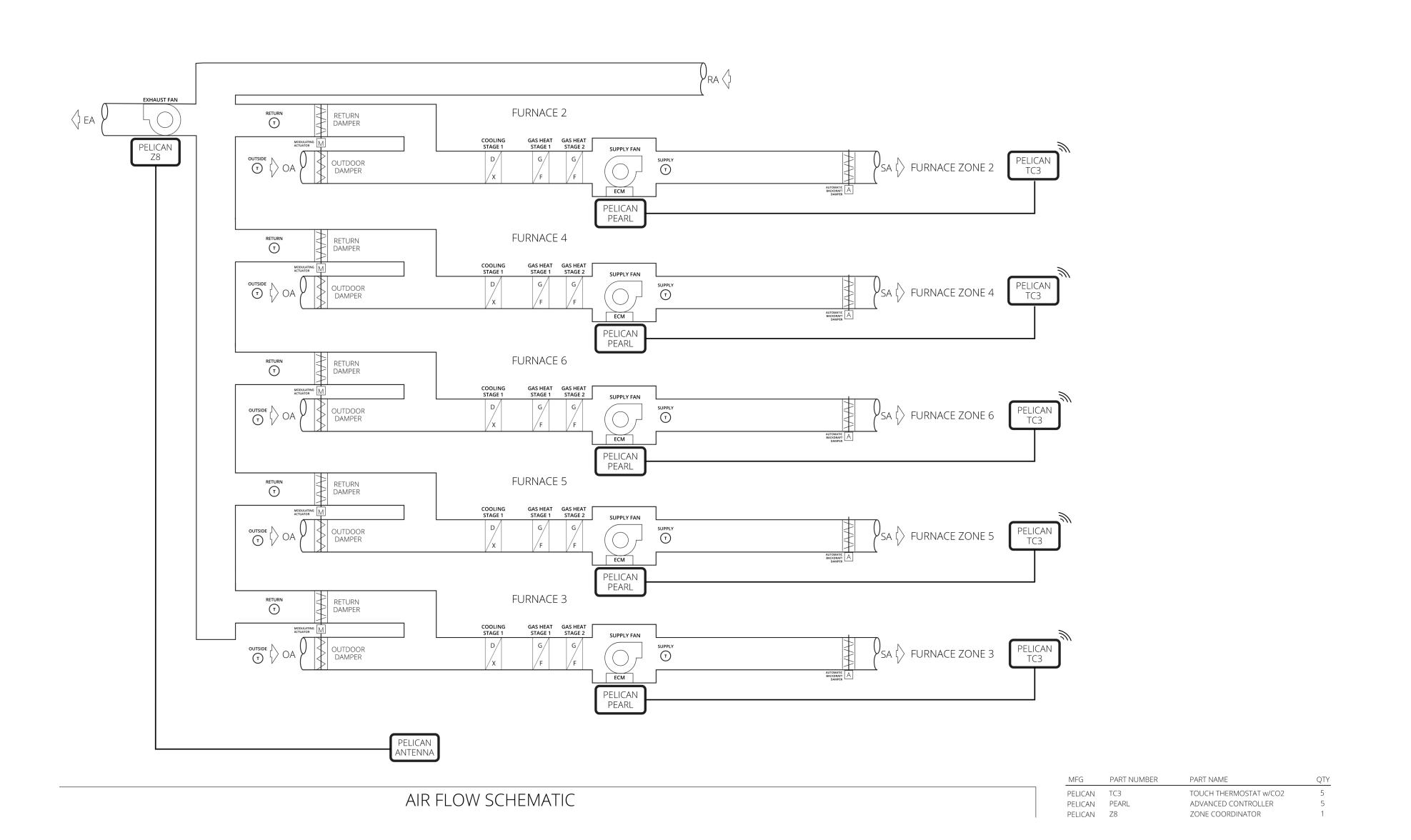
DATE: 10.03.2023

SHEET:

M6.05



CONTROLS WIRING SCHEMATIC



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DATE



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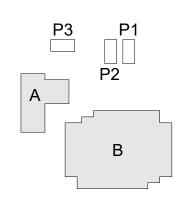
△ DESCRIPTION

KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR. STOCKTON, CA 95210

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:

MECHANICAL CONTROLS

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

PLEASE RECYCLE

STATE OF CALIFORNIA

Classroom

Mechanical Systems

A. GENERAL INFORMATION 01 Project Location (city)

03 Occupancy Types Within Project

or new)

path outlined in 140.4, or 141.0(b)2 for alterations.

Project Name: Victor ES HVAC Replacement-Lodi USD

140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

Mechanical Controls

Mechanical Controls (existing to remain, altered

Status

e Allowance for system serving

dronic/DX cooling coil or heat

Gas heat

Exhuast/Return/Relief/Transfer Fan Base

Allowance(kW)

CERTIFICATE O	F COM	PLIANCE													NRCC-MCH-
Project Name:	Vic	tor ES HVAC Rep	placeme	nt-Lodi USD					ort Page						(Page 2 of 11
								Date	Prepar	ed:				2023	-09-22T14:26:48-04:0
C. COMPLIA															
										I requirements compliant for			itable b	y the user. If this to	able says "DOES
01	0, 0	02	LXCEPT	03	is reje	04	or the t	05	us not	06	guidai	07		08	09
System	1		1												
Summary		Pumps		Fans/ Economizers		System Controls				Terminal Box	4.115	Distribution			
110.1, 110.2,	AND	140.4(k),	AND	140.4(c),	AND	110.2, 120.2,	AND	Ventilation 120.1, 160.2	AND	Controls 140.4(d),	AND	120.3, 140.4(I),	AND	Cooling Towers 110.2(e)2	6 !
140.4,		170.2(c)4I		140.4(e),		140.4(f),		120.1, 160.2		170.2(c)4B		160.2, 160.3		110.2(e)2	Compliance Result
170.2(c)				170.2(c)		170.2(c)				270.2(0).0		200.2, 200.0			
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
у												м			COMPLIES with
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		Exceptional Conditions
				Mandatory	Measu	res Complian	ce (See	Table Q for D	etails)				COMP	LIES	
								-							
D EXCEPTIO	ΝΔΙ	CONDITIONS													
			table co	omments hero	use of	selections mad	de or di	ata entered in	tahles	throughout th	e form				
										ed elsewhere o	_	alans			
													armit ar	oplicant's explanat	ion
Selections in	aue III I	ne certificate:	S UI ACC	ертапсе табіе	nave L	een changeu	by the	ретпік арріка	iii. see	rable E. Addi	LiOilai i	veillaiks for p	eriiii aş	opiicant s explanat	1011.
E. ADDITION															
		emarks made													
{NRCA-MCH-0	03-A E	(planation) No	t autor	natically move	d to ye	s - Needed for	Single	Zone Sys							

Generated Date/Time:

Schema Version: rev 20220101

Exhaust Air Exhaust Air

Airflow per 140.4(q) & 170.2(c)40

170.2(c)40

25k ft²

Generated Date/Time:

Report Version: 2022.0.000

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

Heat Recovery | Heat Recovery | Type Of Heat | Required

at Full Design Requirement 140.4(q) & Recovery Rating Recovery Ratio

Demand Response

110.12 120.2(b) &

160.3(a)2B

EMCS

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

EXHAUST AIR HEAT RECOVERY 140.4(q), 170.2(c)40

SF-2000 cfm

41.0(b)2E 180.2(b)2 for altered space conditioning system

Operation per

< 8,000

Single zone <= 25,000 ft²

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Design Supply Outdoor

Airflow Rate Airflow

Thermostats

System Zoning Being Served (ft²) 110.2(b) & (c)¹, 120.2(a) Controls 120.2(e) & 120.2(e) & 120.2(g) & 160.3(a)2P Controls 120.2(g) & 160.3(a)2F

System | Floor Area | 110.2(b) & (c)¹, 120.2(a) | Controls

2,000

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Name

SF 2000 cfm

Fan Energy Index (FEI)

I. SYSTEM CONTROLS

System Name

have setback thermostats.

Mechanical Systems

CALIFORNIA ENERGY COMMISSION

2023-09-22T14:26:48-04:00

This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive

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

Generated Date/Time:

System all other Zoning systems Units Not Serving System Dwelling Dwelling Dwelling Airflow

Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

Report Version: 2022.0.000

Schema Version: rev 20220101

Water Economizer

☐ Cooling Towers

05 Total Unconditioned Floor Area

Air Economizer

☐ Electric Resistance Heat

Ductwork (existing to remain, altered or new)

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CALIFORNIA ENERGY COMMISSION

Nameplate Electrical

Horsepower Power (kW)

Design Electrical Input Power Method

Default per Table 140.4-D >=1 and <1_5

Fan System Electrical

Documentation Software: Energy Code Ace

Compliance ID: 144256-0923-0002

Output (kW)

Project Name:	Victor ES HVAC	Replacement-Lo	di USD			Report Page	:					(F	Page 3 of 1	
						Date Prepar	ed:				20	23-09-22T14	26:48-04:	
F. HVAC SYSTER	M SUMMARY	(DRY & WET	SYSTEMS)											
Space Condition	ing System Inf	formation												
01		0	2	03			04		0)5		06		
System N	System Name Qua		antity System Serving			Sys	tem Status		Space	е Туре	Utili	zing Recove	red Heat	
MZ-1 - F-1-2 thru F-1-4		3 Single zone			New/ Addition			School or	Classroom					
MZ-2 F2-1 t	hru F2-6	5	5 Single zone			New/ Addition			School or	Classroom				
MZ-3 F-3-2 t	hru F-3-6		5	Single zone		Nev	w/ Addition		School or	Classroom				
Dry System Equi	pment Sizing	(includes air co	nditioners, con	densers, heat pumps, VR	F, furn	aces and u	nit heaters	and DOAS	ystems)					
01	(02		03		04	05	06	07	08	09	10	11	
Name or Item Tag	Tables 110.2,	Category per 140.4(a)2 and 2(c)3aii	ype per Tables 110.2 and Title 20		allest Size vailable ¹ 1.4(a) and 70.2(c)1	Hea	ating Outpu	140.4(a&b)	cr Mechanica , 170.2(c)1 { Cooling C Sensible Per Design	½ 170.2(c)2	, , ,	Total Sensibl		
							(1.210) 1.1	(1.200)11)	(kBtu/h)	(kBtu/h)	(1.2 cu),	(kBtu/h)	Load	
MZ-1 - F-1-2 thru F-1-4	Unitary AC	/ Condensers	ndensers AC, air cooled, split (3 phase)			Yes				60	60		60	
MZ-2 F2-1 thru F2-6	Unitary AC	/ Condensers	AC, air co	oled, split (3 phase)		Yes				48	60		48	
MZ-3 F-3-2 thru F-3-6	Unitary AC	/ Condensers	AC, air co	oled, split (3 phase)		Yes				48	48		48	
F-3-6 FOOTNOTES: Eq. 140.4(a) and 170 It is common pro If equipment is	uipment shall 0.2(c)1. Health actice to show heating only, l	be the smallest care facilities ar rated output co leave cooling ou	size, within the re excepted. apacity on the e atput and load l	oled, split (3 phase) available options of the organism of th	ible co ling on	d equipmen oling outpu nly, leave he	t comes froi ating outpu	m specificat	ion sheet to	heating an		ads of the b	u	

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Generated Date/Time:

Report Version: 2022.0.000

Schema Version: rev 20220101

STATE OF CALIFORNIA

Documentation Software: Energy Code Ace

Compliance ID: 144256-0923-0002

Report Generated: 2023-09-22 11:26:55

CALIFORNIA ENERGY COMMISSION

Temp. Reset | Window Interlocks per

170.2(c)4D

140.4(f) & 140.4(n) & 170.2(c)4D

Documentation Software: Energy Code Ace

Compliance ID: 144256-0923-0002

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(Page 6 of 11)

Mechanical Systems

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

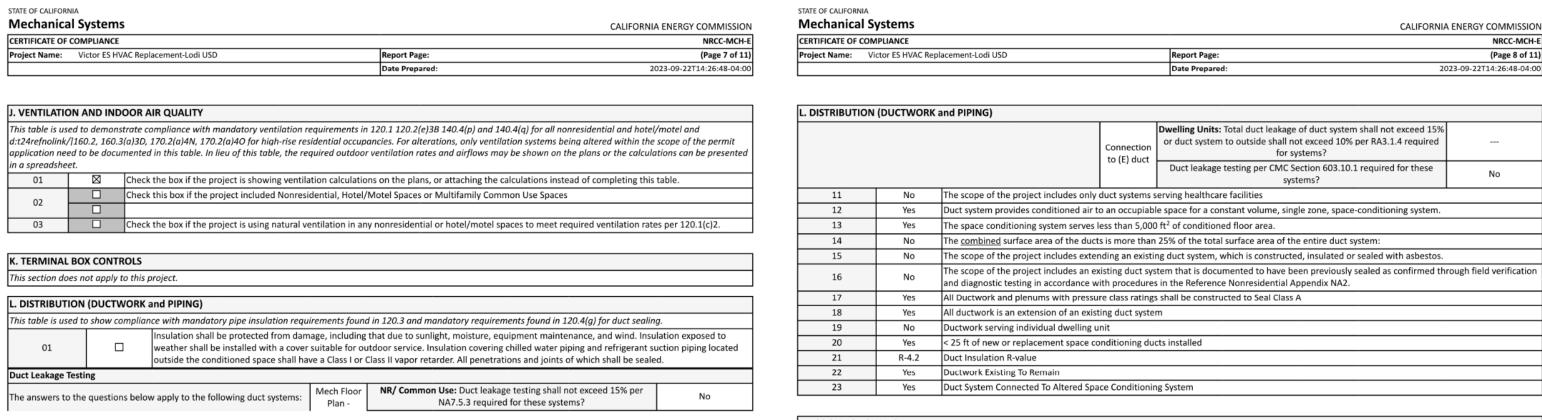
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps) O1	CERTIFICATE OF CO	OMPLIANCE							NRCC-MCH
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)	Project Name:	Victor ES HVAC Replacement-Lodi USD		F		(Page 4 of 1			
Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps				C	Date Prepared:			2023-09	9-22T14:26:48-04:
Name or Item Tag Size Category (Btu/h) Size Ca			ninal Air Condit	ioners (PTAC) and	Package Terminal	Heat Pumps (PTHF	P). DX-DOAS and D	Dual Fuel Heat Pui	mps)
Name or Item Tag Size Category (Btu/h) Rating Condition (°F) Required per Tables 110.2 / Title 20 MZ-1 - F-1-2 thru F-1-4 M3-2 F2-1 thru F2-6 MZ-3 F-3-2 thru F-3-6 MZ-3 F-3-2 thru F-3-6									
Name or Item Tag Size Category (Btu/h) Rating Condition (°F) Efficiency Unit Efficiency Required per Tables 110.2 / Title 20 Design Efficiency Efficiency Unit Efficiency Required per Tables 110.2 / Title 20 SEER 13 13 MZ-1 - F-1-2 thru F2-6 MZ-2 F2-1 thru F2-6 MZ-3 F-3-2 thru F3-6 SEER 13 13 13		1	+				Cooling Mode		
F-1-4			Condition	Efficiency Unit	Efficiency Required per Tables 110.2 /	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 /	Design Efficien
F2-6		<65,000					SEER	13	13
F-3-6 <65,000 SEER 13 13		<65,000					SEER	13	13
G. PUMPS		<65,000					SEER	13	13
This section does not apply to this project.		not apply to this project.							

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Report Version: 2022.0.000

Schema Version: rev 20220101



CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

STATE OF CALIFORNIA

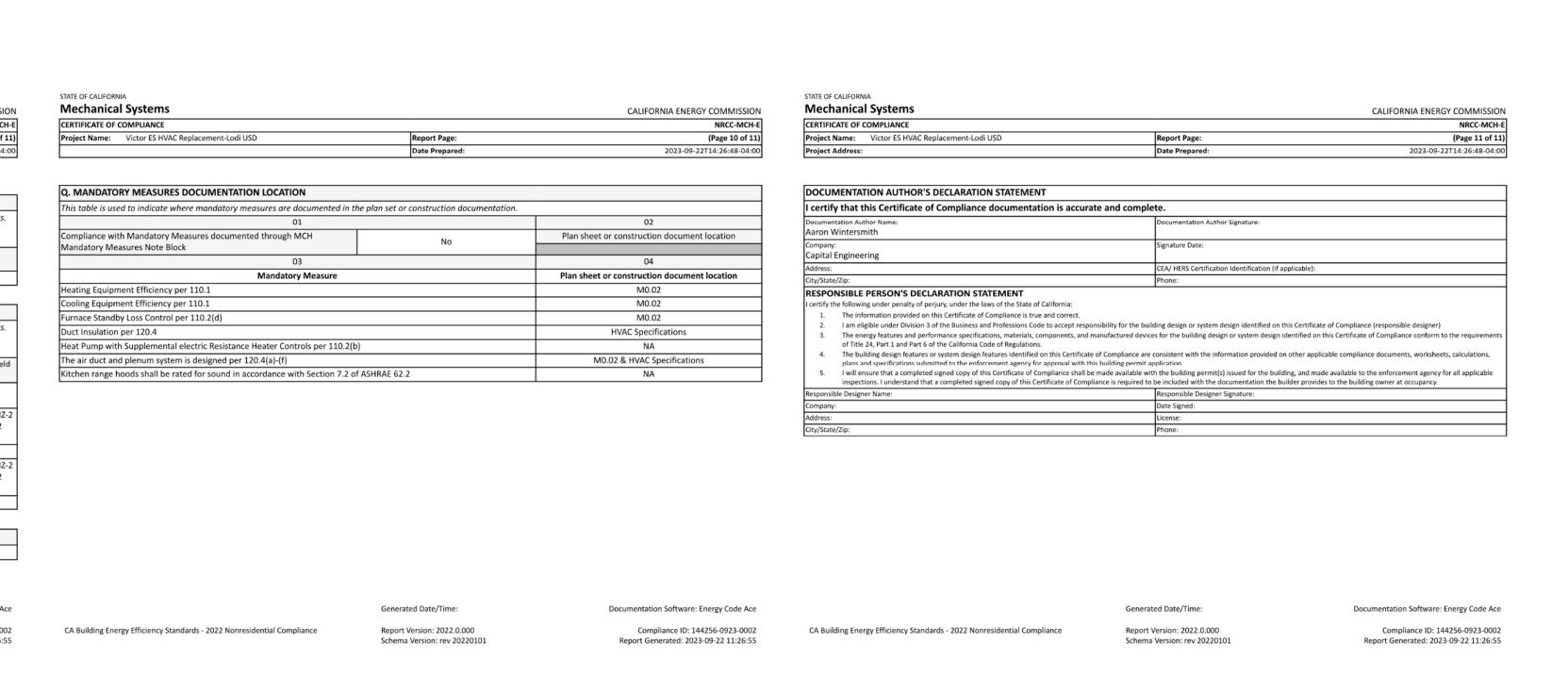
CALIFORNIA ENERGY COMMISSION

Documentation Software: Energy Code Ace

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L. DI	ISTRIBUTION	(DUCTWORK	(and PIPING)								
				Connection to (E) duct	Dwelling Units: Total duct leakage of duct system shall not exceed 15% or duct system to outside shall not exceed 10% per RA3.1.4 required for systems?						
				(2, 3.33)	Duct leakage testing per CMC Section 603.10.1 required for these systems?	No					
	11	No	The scope of the project includes only	duct systems s	serving healthcare facilities						
	12	Yes	Duct system provides conditioned air	to an occupiab	le space for a constant volume, single zone, space-conditioning system.						
	13	Yes	The space conditioning system serves	less than 5,000	Oft ² of conditioned floor area.						
	14	No	The combined surface area of the duc	ts is more than	25% of the total surface area of the entire duct system:						
	15	No	The scope of the project includes exte	nding an existi	ng duct system, which is constructed, insulated or sealed with asbestos.						
	16	No	, ,		stem that is documented to have been previously sealed as confirmed thes in the Reference Nonresidential Appendix NA2.	nrough field verifica					
	17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A								
	18	Yes	All ductwork is an extension of an existing duct system								
19 No Ductwork serving individual dwelling unit											
	20	Yes	< 25 ft of new or replacement space conditioning ducts installed								
	21	R-4.2	Duct Insulation R-value	Duct Insulation R-value							
	22	Yes	Ductwork Existing To Remain								
	23	Yes	Duct System Connected To Altered Spa	ace Conditionir	ng System						







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KEYNOTES

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Compliance ID: 144256-0923-0002

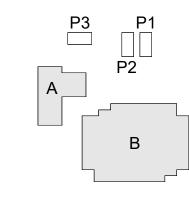
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AGENCY APPROVAL:

NOTES



KEY PLAN:



FACILITY:

PROJECT:

8405 TAM O'SHANTER DR STOCKTON, CA 95210

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME: TITLE 24 DOCUMENTATION

DEPT DEPARTMENT

DISC DISCONNECT

DIST DISTRIBUTION

DOWN

EXISTING

DOUBLE THROW

ELEC ELECTRIC, ELECTRICAL

EMERGENCY

EP ELECTRIC PNEUMATIC

EXP EXPLOSION PROOF

FUTURE

FÁ FIRE ALARM

FCU FAN COIL UNIT

FLUOR FLUORESCENT

FIXT FIXTURE

FLR FLOOR

FU FUSE

GA GAUGE

GAL GALLON GALV GALVANIZED

GEN GENERATOR

GYP BD GYPSUM BOARD

HORIZ HORIZONTAL

HP HORSEPOWER

HEIGHT

HV HIGH VOLTAGE

INFRARED

I/W INTERLOCK WITH

KVA KILOVOLT-AMPERE

KWH KILOWATT HOUR

LIGHT

LTG LIGHTING

LTNG LIGHTNING LV LOW VOLTAGE

MAX MAXIMUM

LOC LOCATE OR LOCATION

MAG.S MAGNETIC STARTER

J-BOX JUNCTION BOX KV KILOVOLT

KW KILOWATT

HTG HEATING

HTR HEATER

HPF HIGH POWER FACTOR

CONDITIONING

ISOLATED GROUND

EWC ELECTRIC WATER COOLER

FABP FIRE ALARM BOOSTER POWER SUPPLY PANEL

FACP FIRE ALARM CONTROL PANEL

GC GENERAL CONTRACTOR

GFP GROUND FAULT PROTECTOR

HOA HANDS-OFF-AUTOMATIC SWITCH

HVAC HEATING, VENTILATING AND AIR

INTRUSION ALARM PANEL

IMC INTERMEDIATE METAL CONDUIT

KVAR KILOVOLT-AMPERE REACTIVE

INTERRUPTING CAPACITY

GRS GALVANIZED RIGID STEEL (CONDUIT) V

FUDS FUSED SAFETY DISCONNECT SWITCH TYP TYPICAL

GFI GROUND FAULT CIRCUIT INTERRUPTER UT UNDERGROUND TELEPHONE

INTERMEDIATE DISTRIBUTION FRAME XFR TRANSFER

SAFETY DISCONNECT SWITCH

ELECTRICAL CONTRACTOR

EMS ENERGY MANAGEMENT SYSTEM

STA STATION

SW SWITCH

SYS SYSTEM

TERM TERMINAL

TEL TELEPHONE

T-STAT THERMOSTAT

TV TELEVISION

UTIL UTILITY

UV ULTRAVIOLET

VOI T

VERT VERTICAL

VOL VOLUME

WIRE

WITH WG WIRE GUARD

W/O WITHOUT

ANGLE

FEET

INCHES

NUMBER

CENTER LINE

PHASE

PLATE

' DELTA

WH WATER HEATER

WP WEATHERPROOF

XFMR TRANSFORMER

STD STANDARD

SWBD SWITCHBOARD

SYM SYMMETRICAL

SURF SURFACE MOUNTED

TEL/DATA TELEPHONE/DATA

TWIST LOCK

TR TAMPER RESISTANT

TTC TELEPHONE TERMINAL CABINET

TVTC TELEVISION TERMINAL CABINET

UNDERGROUND ELECTRICAL

UNDER COUNTER

UNDERGROUND

UNDERWRITER LAB

UNIT HEATER

VOLT-AMPERES

VDT VIDEO DISPLAY TERMINAL

VERIFY IN FIELD

VFD VARIABLE FREQUENCY DRIVE

EMT ELECTRICAL METALLIC TUBING

DIAMETER

DET DETAIL

DPR DAMPER

ELEV ELEVATOR

EQUIP EQUIPMENT

EXIST EXISTING

EXH EXHAUST

MANUFACTURER'S ASSOCIATION PULL BOX OR PUSHBUTTON POTENTIAL TRANSFORMER RCPT RECEPTACLE REQD REQUIRED ROOM RSC RIGID STEEL CONDUIT RTU ROOF TOP UNIT SURFACE CONDUIT SECONDARY SHEET SIM SIMILAR S/N SOLID NEUTRAL SPEC SPECIFICATION SPKR SPEAKER SPARE SURFACE RACEWAY STAINLESS STEEL SSW SELECTOR SWITCH STOP/START PUSHBUTTONS

ELECTRICAL SYMBOL LEGEND SYMBOL DESCRIPTION **DESCRIPTION** 0 LIGHTING FIXTURES, TYPICAL. SINGLE RECEPT RECTANGULAR DUPLEX RECEPT. • FILLED CIRCLES INDICATE RECESSED. (DESIGNATES SPECIFIC MOUNTING HEIGH) OPEN CIRCLES INDICATE SURFACE DIAGONAL LINE INDICATES LENSED DUPLEX RECEPT. OUTER DOTS INDICATE SUSPENDED GFI GFI DUPLEX RECEPT. (FEED THROUGH) GFI WEATHERPROOF RECEPT. LIGHTING FIXTURES, TYPICAL, ROUND CENTER DOT INDICATES PENDANT SPLIT DUPLEX RECEPT. DIAGONAL LINE INDICATES LENSED DUPLEX ISOLATED GROUND RECEPT. CHEVRON INDICATES WALL WASH DUPLEX RECEPT. ON EMERG. CIRCUIT WALL-MOUNTED FIXTURES, TYPICAL FLOOR DUPLEX RECEPT. CEILING DUPLEX RECEPT CLNG STRIP FIXTURE FOURPLEX RECEPT → DIRECTIONAL LIGHT, TRACK, FLOOD FOURPLEX GFI RECEPT LINEAR LIGHT, TAPE LIGHT 240V RECEPTACLE ► EMERGENCY LIGHTING UNIT, CEILING- $\longrightarrow \sim$ RECEPT. ON CORD REEL MOUNTED, INTEGRAL BATTERY SPECIAL RECEPT. EMERGENCY LIGHTING UNIT, CEILING-MOUNTED, REMOTE BATTERY JUNCTION BOX FLOOR JUNCTION BOX EMERGENCY LIGHTING UNIT, WALL-**CEILING JUNCTION BOX** MOUNTED, INTEGRAL BATTERY EMERGENCY LIGHTING UNIT, WALL-MOUNTED, REMOTE BATTERY MULTIOUTLET ASSEMBLY EXIT LIGHT, CEILING-MOUNTED, SHADING AND ARROWS INDICATE FACES AND EXIT LIGHT, WALL-MOUNTED, SHADING COMB. MOTOR STARTER (FUSED) AND ARROWS INDICATE FACES AND SAFETY DISC. SW. (NON-FUSED) DIRECTION SAFETY DISC. SW. (FUSED) EXIT/ELU COMBO RELAY **PUSH BUTTON** POLE/AREA LIGHTS ABOVE COUNTER DUPLEX RECEPT. POST-TOP AREA LIGHT TAMPER RESISTANT DUPLEX RECEPT. **BOLLARD LIGHT** TAMPER RESISTANT FOURPLEX RECEPT DIAGONAL HATCH INDICATES LIGHT ON A CRITICAL CIRCUIT POWER POLE (OPEN OFFICE STYLE) SOLID HATCH INDICATES LIGHT ON AN SURGERY SERVICE COLUMN **EMERGENCY OR LIFE SAFETY CIRCUIT** STATIC GROUND RECEPTACLE SINGLE POLE SWITCH -P- UTILITY SERVICE POWER POLE 3-WAY SWITCH 4-WAY SWITCH / XX-1 MOTOR KEYED SWITCH SWITCH W/PILOT EXISTING TO REMAIN RELOCATED DEMOLISHED DIMMER SWITCH (º) XX-1 (º) XX-1 (^) XX-1 OCCUPANCY SENSOR W/ DIMMER AND MANUAL ON/OFF SWITCH T1 TRANSFORMER TIMER SWITCH BUS DUCT W/ PLUG IN DISCONNECT TIME DELAY SWITCH

TIME CONTROL SWITCH

SYMBOL DESCRIPTION TELEPHONE OUTLET ▼ FLOOR TELEPHONE OUTLET √ 1V2D VOICE/DATA OUTLET -# OF VOICE AND # OF DATA OUTLETS. FOR EXAMPLE 1V2D = 1 VOICE, 2 DATA ▼ FLOOR DATA OUTLET **CEILING DATA OUTLET** MICROPHONE OUTLET CATV OUTLET TV OUTLET VOLUME CONTROL $H\Box p$ DOOR BELL $H\Box /$ DOOR BUZZER DOOR CHIME $\vdash \Box$ D DOOR SIGNAL AUTO DOOR PUSH PAD ELECTRIC STRIKE MAGNETIC LOCK COMBINATION LOCK DOOR CONTACT CARD READER SECURITY KEYPAD MOTION DETECTOR -MD-► NURSE CALL EMERG. STATION NURSE CALL CODE BLUE STATION NURSE CALL DUTY STATION NURSE CALL STAFF STATION NURSE CALL PATIENT STATION

WIRELESS ACCESS POINT OUTLET

CCTV OUTLET

CABLE TAP BOX

LIGHTING FIXTURE TAG DESCRIPTORS: TOP VALUE: FIXTURE TYPE ID. BOTTOM VALUE, LOWERCASE LETTER: SWITCH DESIGNATION. SWITCH IN THE SPACE. "x" IN PLACE OF THE SWITCH ID INDICATES NIGHT LIGHT, UNSWITCHED. MOUNTING. SHADED AREA INDICATES ILLUMINATED FACE(S). ARROW INDICATES DIRECTIONAL ARROW ON ILLUMINATED FACE(S). THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. EXAMPLE: THE WALL MOUNTED EXIT LIGHT TYPE "E1" WITH SINGLE FACE AND DIRECTIONAL ARROW IS CONNECTED TO CIRCUIT 1. DEVICES. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER. THE DESIGNATION IS INDICATED BY A LOWER CASE LETTER. EXAMPLE: SPLIT DUPLEX RECEPTACLE IS CONNECTED TO CIRCUIT 1 AND ONE RECEPTACLE OUTLET IS CONTROLLED BY SWITCH "d". EXAMPLE: SINGLE POLE SWITCH "d" TO CONTROL LIGHTING FIXTURES INDICATED BY "d". SPECIFICATIONS FOR WATTAGE IF NOT INDICATED. SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A CIRCLE. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. THE CIRCUIT DESIGNATION IS NO. ELEC-1; 1 PHASE CONNECTION TO CIRCUITS 2, 4. PANELBOARDS. PANELBOARD DOORS MAY BE SHOWN TO INDICATE OPENING SIDE OF RECESSED PANELBOARDS. SEE PANELBOARD IDENTIFICATION FOR DESIGNATION CODES. FLOOR CLEARANCE AREA MOTOR CONNECTIONS. THE MOTOR IS INDICATED BY A NUMBER WITHIN OR CHARACTERS ADJACENT TO THE MOTOR SYMBOL. SEE THE MOTOR AND EQUIPMENT SCHEDULE FOR THE MOTOR DESCRIPTION AND ELECTRICAL NURSE CALL DOME LIGHT (1-COLOR) REQUIREMENTS. NURSE CALL DOME LIGHT (2-COLORS) TRANSFORMERS. THE TRANSFORMER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "T". SEE THE TRANSFORMER SCHEDULE OR THE SINGLE LINE DIAGRAM FOR THE TRANSFORMER DESCRIPTION AND REQUIREMENTS. EXAMPLE: TRANSFORMER TYPE "T1". CONDUIT IN CEILING, FLOOR OR WALL AS REQUIRED BY FIELD CONDITIONS

BOTTOM VALUE, NUMBER: CIRCUIT NUMBER, REFER TO DRAWINGS FOR ABSENCE OF A SWITCH ID INDICATES FIXTURE IS CONTROLLED BY THE ONLY EXIT LIGHTS. STEM INDICATES WALL MOUNTING. NO STEM INDICATES CEILING THE CONTROL DEVICE DESIGNATION IS INDICATED BY A LOWER CASE LETTER WALL BOX DIMMER WITH SIZE AS INDICATED AT DEVICE. EXAMPLE: 600 WATT WALL BOX DIMMER TO CONTROL LIGHTING FIXTURES INDICATED BY "e". SEE INDICATED BY NUMBER(S) ADJACENT TO THE SYMBOL. EXAMPLE: EQUIPMENT

ELECTRICAL SYMBOL NOTES

CONDUIT IN FLOOR CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 1 # 12 CONDUCTOR PER PHASE, NEUTRAL, AND GROUND IN 3/4" CONDUIT UNLESS SPECIFIC

EQUIPMENT REQUIRES A DIFFERENT SIZE. CONDUIT SHOWN SHALL CONTAIN 1 # 10 CONDUCTOR PER PHASE IN ELECTRICAL CODE SIZED MINIMUM CONDUIT UNLESS A CONDUCTOR AND CONDUIT SIZE IS SHOWN ADJACENT. HOME RUN TO BRANCH CIRCUIT PANELBOARD. THE PANELBOARD

DESIGNATION IS SHOWN ADJACENT TO THE HOME RUN ARROW AS A \P4N-102 NUMERATOR AND THE CIRCUIT DESIGNATION IS SHOWN AS THE DENOMINATOR. CIRCUIT BREAKER SIZES (AMPS/NUMBER OF POLES) ARE SHOWN IN THE PANELBOARD SCHEDULE WITH THE CORRESPONDING PANELBOARD AND CIRCUIT DESIGNATION. EXAMPLE: HOME RUN TO PANELBOARD P4N-102; CIRCUITS 1, 3, 5.

— - — - — EXISTING CONDUIT TO REMAIN

-x - x - x - EXISTING CONDUIT TO BE REMOVED

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 29 AND 30.

- 1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
- 2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR
- WATER. "PERMANENTLY ATTACHED: SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCET PLUGS FOR 110/220 VOLT RECEPTACLES HAVING FLEXIBLE CABLE 3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE COMPONENT ARE REQUIRED TO BE RETRAINED WITH TEMPORARY ATTACHMENTS.

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

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

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS

PIPING, DUCTWORK, & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

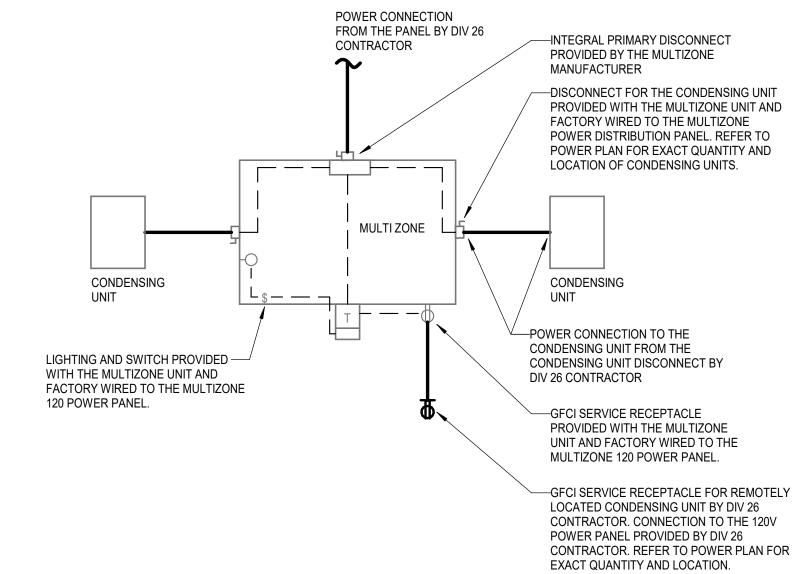
PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO RESIST THE FORCES PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND

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

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

- MP □ MD □ PP □ E ☒ OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS
- MP □ MD □ PP □ E □ OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM #) #_ AS INCLUDED IN THESE DRAWINGS WITH PROJECT-SPECIFIC NOTES AND DETAILS.

E	LECTRICAL SHEET INDEX	
SHEET NUMBER	SHEET NAME	
E0.01	ELECTRICAL LEGEND AND NOTES	1
E4.10A	ELECTRICAL ROOF DEMOLITION PLAN - ADMINISTRATION BLDG	
E4.10B	ELECTRICAL ROOF DEMOLITION PLAN - CLASSROOM BLDG	
E4.11A	ELECTRICAL ROOF PLAN - ADMINISTRATION BLDG]
E4.11B	ELECTRICAL ROOF PLAN - CLASSROOM BLDG	



TYPICAL MULTI ZONE WIRING DIAGRAM

E0.01 SCALE: NONE

AGENCY APPROVAL:

> **REVIEWING AGENCIES** STAMP HERE

> > DATE

 $^{/}$ FDIT THIS FAMILY, AND $^{\circ}$ PLACE A PROJECT IMAGE HERE. IT WILL UPDATE ALL TITLEBLOCKS AUTOMATICALLY.

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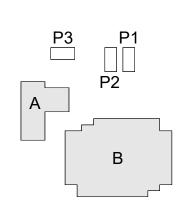
DESCRIPTION

KEYNOTES

NOTES



KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR

STOCKTON, CA 95210

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME: **ELECTRICAL LEGEND AND NOTES**

CONSTRUCTION DOCUMENTS

KEYNOTES

- 1 DISCONNECT AND REMOVE (E) DISCONNECT SWITCH. PROTECT EXISTING BRANCH CIRCUIT CONDUIT AND WIRING TO BE REUSED IN THE RENOVATION PLAN. SEE RENOVATION PLAN FOR
- 2 EXISTING DUCT SMOKE DETECTOR TO BE REMOVED AND REINSTALLED. PRESERVE EXISTING FIRE ALARM CONNECTION TO BE REUSED ON THE RENOVATION PLAN.

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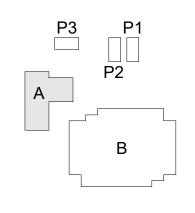
DESCRIPTION

KEYNOTES

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KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DE

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:

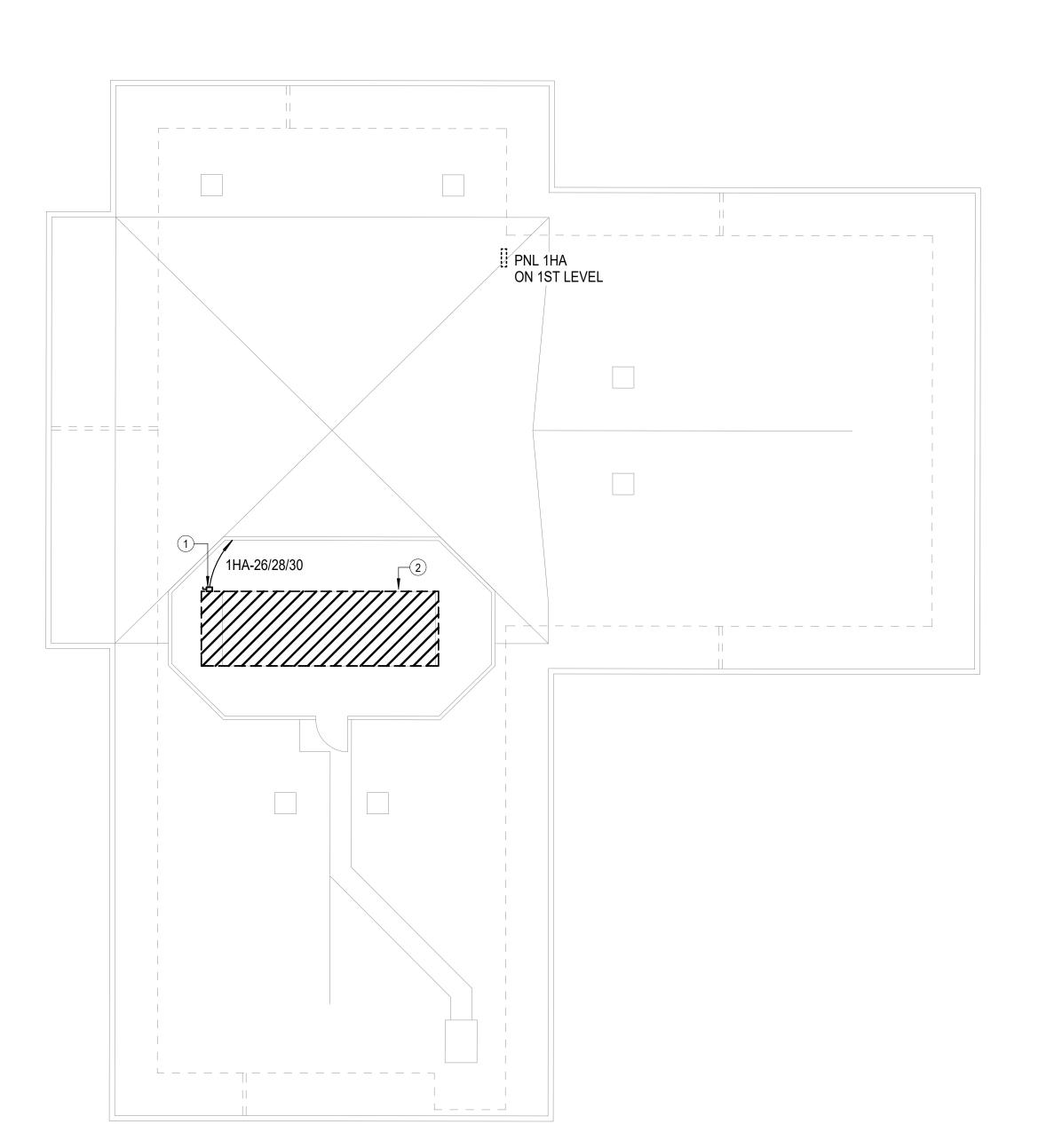
ELECTRICAL ROOF DEMOLITION PLAN ADMINISTRATION BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

E4.10A



1 ELECTRICAL ROOF DEMOLITION PLAN - ADMINISTRATION BLDG

A SOAL

2 EXISTING DUCT SMOKE DETECTOR TO BE REMOVED AND REINSTALLED. PRESERVE EXISTING FIRE ALARM CONNECTION TO BE REUSED ON THE RENOVATION PLAN.

AGENCY APPROVAL:

> REVIEWING AGENCIES STAMP HERE



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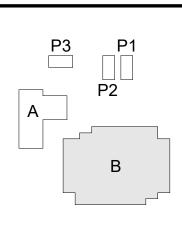
DATE

KEYNOTES

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KEY PLAN:



LODI USD VICTOR ES HVAC REPLACEMENT

ELECTRICAL ROOF DEMOLITION PLAN - CLASSROOM BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

ELECTRICAL ROOF DEMOLITION PLAN - CLASSROOM BLDG E4.10B | SCALE: 1/8" = 1'-0"

PLEASE RECYCLE

- 1 INTERCEPT AND EXTEND (E) BRANCH CIRCUIT CONDUIT AND CONDUCTORS TO THE MULTI ZONE
- AIR HANDLER INTEGRAL PRIMARY DISCONNECT SWITCH.

 2 PROVIDE POWER CONNECTION FROM EACH CONDENSING UNIT TO THE FACTORY SUPPLIED DISCONNECT SWITCH. USE 3/4" C 3#12, #12G. SEE DETAIL 5 ON MECHANICAL SHEET M5.03 FOR PIPE SUPPORT ON ROOF MOUNTING DETAIL. REFER TO DETAIL 1 ON SHEET E0.01 FOR ADDITIONAL INFORMATION.
- 3 REPLACE EXISTING 90A/3P CIRCUIT BREAKER FOR AC-1 ON CIRCUIT 26/28/30 WITH NEW 45A/3P FOR M7-1
- 4 CONNECT NEW SERVICE RECEPTACLE TO THE LOAD SIDE FACTORY SUPPLIED GFCI SERVICE RECEPTACLE PROVIDED BY THE MZ MANUFACTURER. USE 1/2"C 2#12, #12G.
- 5 REINSTALL PRESERVED DUCT SMOKE DETECTOR. RECONNECT TO THE PRESERVED CONNECTION FROM THE EXISTING FIRE ALARM SYSTEM. CONNECT TO THE NEW MULTI-ZONE UNIT FOR AUTOMATIC SHUTOFF.

EDIT THIS FAMILY, AND PLACE A PROJECT IMAGE HERE. IT WILL UPDATE ALL TITLEBLOCKS AUTOMATICALLY.

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DATE

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AGENCY

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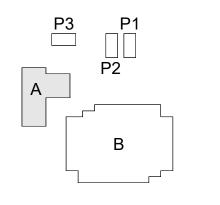
△ DESCRIPTION

KEYNOTES

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KEY PLAN:



FACILITY:

8405 TAM O'SHANTER DR. STOCKTON, CA 95210

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:

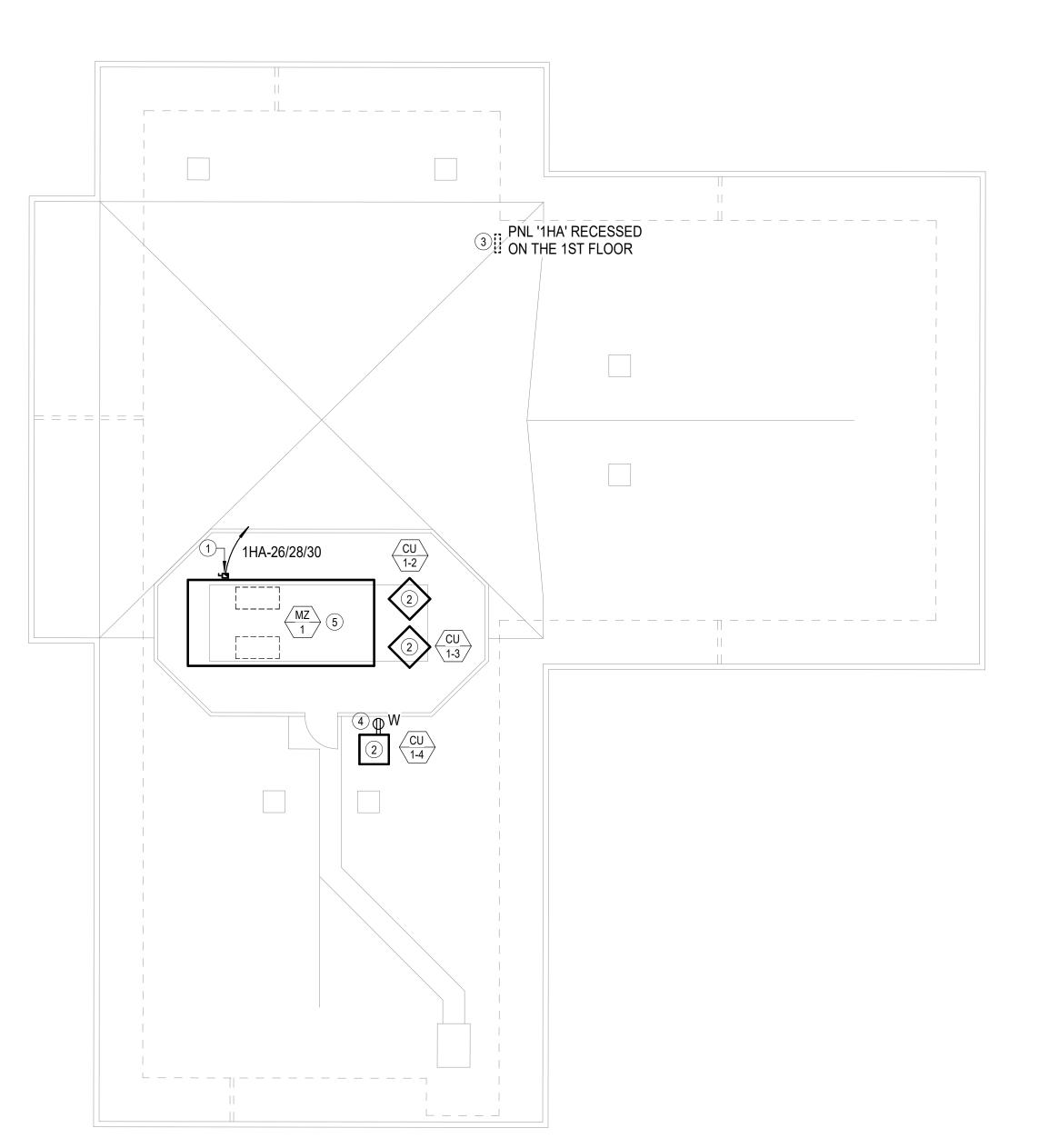
ELECTRICAL ROOF PLAN - ADMINISTRATION BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

SHEET:

E4.11A



E4.11A SCALE: 1/8" = 1'-0"

- 1 INTERCEPT AND EXTEND (E) BRANCH CIRCUIT CONDUIT AND CONDUCTORS TO THE MULTI ZONE AIR HANDLER INTEGRAL PRIMARY DISCONNECT SWITCH.
- PROVIDE POWER CONNECTION FROM EACH CONDENSING UNIT TO THE FACTORY SUPPLIED DISCONNECT SWITCH. USE 3/4" C 3#12, #12G. SEE DETAIL 5 ON MECHANICAL SHEET M5.03 FOR PIPE SUPPORT ON ROOF MOUNTING DETAIL. REFER TO DETAIL 1 ON SHEET E0.01 FOR
- ADDITIONAL INFORMATION.

 REPLACE EXISTING 90A/3P CIRCUIT BREAKER WITH NEW 60A/3P. EQUIPMENT AND CIRCUIT INFORMATION AS FOLLOWS:

 * AC-2 => MZ-2; 1HB-32/34/36
- * AC-3 => MZ-3 ; 1HB-38/40/42

 4 CONNECT NEW SERVICE RECEPTACLE TO THE LOAD SIDE FACTORY SUPPLIED GFCI SERVICE RECEPTACLE PROVIDED BY THE MZ MANUFACTURER. USE 1/2"C 2#12, #12G.
- 5 REINSTALL PRESERVED DUCT SMOKE DETECTOR. RECONNECT TO THE PRESERVED CONNECTION FROM THE EXISTING FIRE ALARM SYSTEM. CONNECT TO THE NEW MULTI-ZONE UNIT FOR AUTOMATIC SHUTOFF.

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Δ DESCRIPTION

DATE

KEYNOTES

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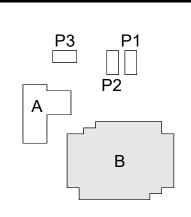
RANCHO CORDOVA, CALIFORNIA

XX - XX/XX/XX

PM - DESIGN TEAM

PROJECT NO.

EY PLAN:



ACILITY:

8405 TAM O'SHANTER DR. STOCKTON, CA 95210

PROJECT:

LODI USD VICTOR ES HVAC REPLACEMENT

SHEET NAME:

ELECTRICAL ROOF PLAN - CLASSROOM BLDG

CONSTRUCTION DOCUMENTS

DATE: 10.03.2023

DATE: 10.

E4.11B

