

HVAC REPLACEMENT LODI MIDDLE SCHOOL

LODI UNIFIED SCHOOL DISTRICT

945 S HAM LANE

LODI, CA 95242

ABBREVIATIONS

& L @ Ø ∟ # R	And Angle At Centerline Diameter Perpendicular Pound or Number Plate
A.C. A.D. ADJ. A.F.F. AGGR. ALUM./AL. ARCH. ASPH. AUTO. A.V.	Asphalt Concrete Acoustical Area Drain Adjustable Above Finished Floor Aggregate Aluminum Architectural Asphalt Automatic Auto Visual
B BD. BLDG. BLK. BLKG. BM. BOT. B.S.	Bolt Board Building Block Blocking Beam Bottom Both Sides
CAB. C.B. CB. CEM. CER. C.G. C.I. C.J. C.L. C.L.G. CLKG. CLR. C.M.P. C.M.U. CNTR. COL. CONC. CONN. CONSTR. CONT. CORR.	Cabinet Catch Basin Chalkboard Beam Cement Ceramic Corner Guard Cast Iron Construction Join/Control Joint Chain Link Caling Calking Clear Corrugated Metal Pipe Concrete Masonry Unit Counter Column Concrete Connection Construction Continuous Corridor
d D.A. DBL. DET. D.F. D.I. DIA. DIM. DIM.PT. DN. DP. D.P. DR. D.S. DWG.	Pennyweight (Nails) Designated Accessible Double Detail Drinking Fountain Drain Inlet Diameter Dimension Dimension Point Down Deep Damp Proofing Door Downspout Drawing

MATERIAL LEGEND

	EARTH		WOOD TRIM
	GRAVEL/AGGREGATE BASE		STEEL
	SAND OR PLASTER		TILE
	CONCRETE		BATT INSULATION
	BLOCKING		BRICK
	FRAMING (CONTINUOUS)		GYPSUM BOARD
	PLYWOOD		FIRTEX

APPLICABLE CODES

TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
TITLE 24 CCR, PART 1 - 2022 BUILDING STANDARDS ADMINISTRATIVE CODE
TITLE 24 CCR, PART 2 - 2019 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC)
TITLE 24 CCR, PART 3 - 2019 CALIFORNIA ELECTRICAL CODE (CEC)
TITLE 24 CCR, PART 4 - 2019 CALIFORNIA MECHANICAL CODE (CMC)
TITLE 24 CCR, PART 5 - 2019 CALIFORNIA PLUMBING CODE (CPC)
TITLE 24 CCR, PART 6 - 2019 CALIFORNIA ENERGY CODE (CEC)
TITLE 24 CCR, PART 9 - 2019 CALIFORNIA FIRE CODE (CFC)
TITLE 24 CCR, PART 11 - 2019 CALIFORNIA GREEN BUILDING STDS CODE
TITLE 24 CCR, PART 12 - 2019 CALIFORNIA REFERENCED STANDARDS
2016 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)
2016 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
2017 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS
2017 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS
2016 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
2016 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS
2016 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED)
2016 NFPA 80, FIRE DOOR AND OTHER OPENING PROTECTIVE
2015 NFPA 720, INSTALLATION OF CARBON MONOXIDE DETECTION AND WARNING EQUIPMENT
2015 NFPA 701, CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

SYMBOL LEGEND

SHEET NUMBERING SYSTEM

Discipline Designation
Drawing Type Designation
Sheet Number
Building Designation

ROOM NAME and NUMBER REFERENCE

Room Name
Room Number
Building Unit
Occupancy Load

KEYNOTE REFERENCE

Keynote

SHEET NOTE REFERENCE

Sheet Note

DETAIL REFERENCE

Detail Number
Sheet Number

BUILDING SECTION REFERENCE

Section Number
Sheet Number

STOREFRONT, WINDOW OR LOUVER REFERENCE

Windows Covering Reference
HORIZONTAL BLINDS
VERTICAL BLINDS
D=DARKENING DRAPES

DOOR REFERENCE

Door

CEILING TYPE REFERENCE

Ceiling Type

WALL TYPE REFERENCE

Wall Type

EXTERIOR FINISH REFERENCE

Exterior Finish

PAINT COLOR REFERENCE

Paint Color

STRUCTURAL GRID INDICATOR
(Center of Framing)

Structural Grid

STRUCTURAL GRID INDICATOR
(Face of Framing)

Structural Grid

MATCH LINE

PROPERTYLINE

INTERIOR ELEVATION REFERENCE

INTERIOR ELEVATION
DETAIL NUMBER
SHEET NUMBER

WINDOW (PLAN VIEW)

REVISION

Revision Number
Revision

RADIUS

Radius Point Number
Radius Dimension

CASEWORK REFERENCE

Indicates all drawers and doors to have locks installed

METAL SHELVING REFERENCE

Metal Shelving

LABORATORY CASEWORK REFERENCE

MUSIC CASEWORK REFERENCE

ACOUSTICAL PANEL REFERENCE

Acoustical Panel

SIGN REFERENCE

Sign

OCCUPANCY REFERENCE

Number of Occupants Exitting
Min. Exit Width Required (Inches)

PROJECT TEAM

OWNER
LODI UNIFIED SCHOOL DISTRICT
1305 E. VINE STREET
LODI, CA 95240
CONTACT: JOE PATTY
PHONE: (209) 712-6363
EMAIL: jpatty@lodiusd.net

ARCHITECT
HENRY + ASSOCIATES ARCHITECTS
730 HOWE AVE, SUITE 450
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PHONE: (916) 799-3027
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STRUCTURAL
RW ENGINEERS
1450 HARBOR BLVD., SUITE F
WEST SACRAMENTO, CA 95691
CONTACT: GREG RICHARDS
PHONE: (916) 716-6910
EMAIL: grichards@rwengineers.com

MECHANICAL
CAPITAL ENGINEERING CONSULTANTS, INC.
11020 SUN CENTER DRIVE, SUITE 100
RANCHO CORDOVA, CA 95670
CONTACT: MIKE MINGE
PHONE: (916) 851-3500
EMAIL: mminge@capital-engineering.com

ELECTRICAL
M. NEELS ENGINEERING, INC.
100 HOWE AVENUE, SUITE 235N
SACRAMENTO, CA 95825
CONTACT: SINISHA GLISIC
PHONE: (916) 923-4400
EMAIL: Sglisic@mneellsengineering.com

PROJECT DESCRIPTION

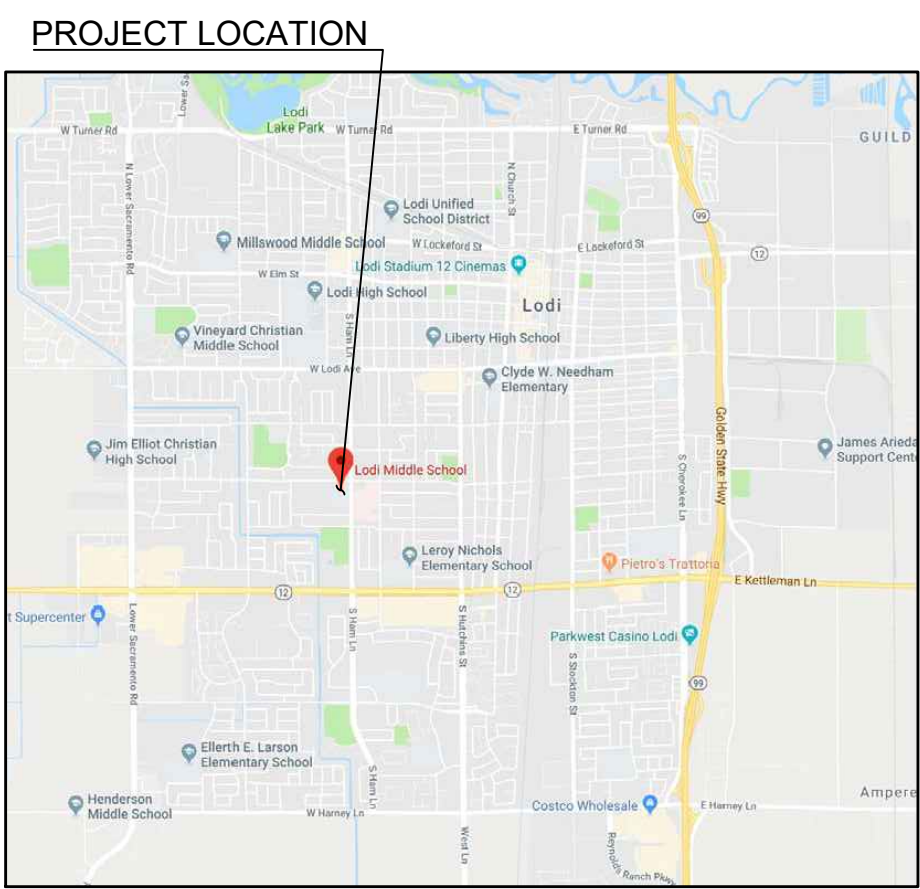
- REMOVE AND REPLACE HVAC EQUIPMENT ON BUILDINGS A, B, D, E & F.

DEFERRED APPROVALS

- (NONE)

VICINITY MAP

LODI MIDDLE SCHOOL
945 S HAM LANE, LODI, CA 95242



SHEET INDEX

CS COVER SHEET

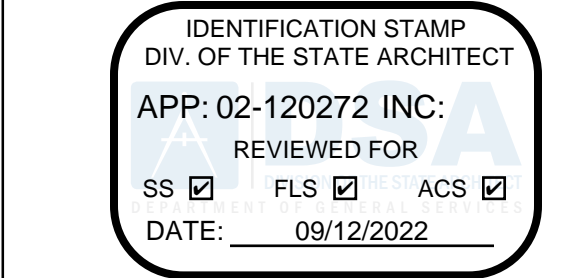
ARCHITECTURAL
A0.1 TYPICAL DETAILS
A1.1.1 CODE ANALYSIS SITE PLAN
A2.1.A DEMOLITION ROOF PLAN - BUILDING A
A2.2.A ROOF PLAN - BUILDING A
A2.4.A REFLECTED BUILDING PLAN - BUILDING A
A2.1.B DEMOLITION ROOF PLAN - BUILDING B
A2.2.B ROOF PLAN - BUILDING B
A2.4.B REFLECTED CEILING PLAN - BUILDING B
A2.1.C DEMOLITION ROOF PLAN - BUILDING C
A2.2.C ROOF PLAN - BUILDING C
A2.3.C DEMOLITION REFLECTED CEILING PLAN - BUILDING C
A2.4.C REFLECTED CEILING PLAN - BUILDING C
A2.1.D DEMOLITION ROOF PLAN - BUILDING D
A2.2.D ROOF PLAN - BUILDING D
A2.3.D DEMOLITION REFLECTED BUILDING PLAN - BUILDING D
A2.4.D REFLECTED BUILDING PLAN - BUILDING D
A2.1.E DEMOLITION ROOF PLAN - BUILDING E
A2.2.E ROOF PLAN - BUILDING E
A2.3.E DEMOLITION REFLECTED CEILING PLAN - BUILDING E
A2.4.E REFLECTED CEILING PLAN - BUILDING E
A2.1.F DEMOLITION ROOF PLAN - BUILDING F
A2.2.F ROOF PLAN - BUILDING F
A2.3.F DEMOLITION REFLECTED CEILING PLAN - BUILDING F
A2.4.F REFLECTED CEILING PLAN - BUILDING F
A2.5.F ENLARGED TOILET FLOOR PLANS - BUILDING F
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S2.1.A ROOF FRAMING PLAN - BUILDING A
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S2.1.C ROOF FRAMING PLAN - BUILDING C
S2.1.D ROOF FRAMING PLAN - BUILDING D
S2.1.E ROOF FRAMING - BUILDING E
S2.1.F ROOF FRAMING - BUILDING F
S4.0.1 DETAILS
S4.0.2 DETAILS

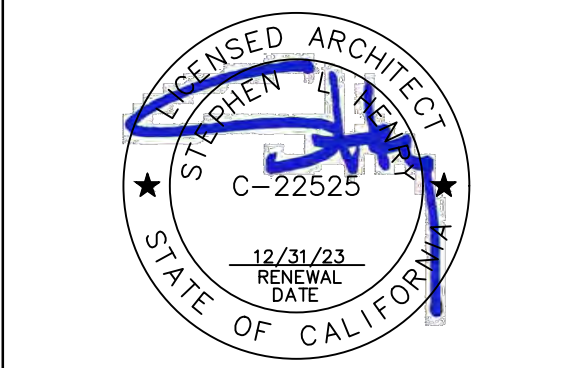
MECHANICAL
M0.0.1 MECHANICAL LEGEND
M0.0.2 MECHANICAL SCHEDULES
M0.0.3 MECHANICAL SCHEDULES
M0.0.4 MECHANICAL SCHEDULES
M1.1.A MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING A
M1.1.B MECHANICAL - DEMOLITION ROOF PLAN - BUILDING A
M2.1.A MECHANICAL - FLOOR PLAN - BUILDING A
M2.2.A MECHANICAL - ROOF PLAN - BUILDING A
M1.1.B MECHANICAL - DEMOLITION FLOOR PLANS - BUILDING B
M1.2.B MECHANICAL - DEMOLITION ROOF PLAN - BUILDING B
M2.1.B MECHANICAL - FLOOR PLAN - BUILDING B
M2.2.B MECHANICAL - ENLARGED MECH. RM. & ROOF PLAN - BUILDING B
M1.1.C MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING C
M1.2.C MECHANICAL - DEMOLITION ROOF PLAN - BUILDING C
M2.1.C MECHANICAL - FLOOR PLAN - BUILDING C
M2.2.C MECHANICAL - ROOF PLAN - BUILDING C
M1.1.D MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING D
M1.2.D MECHANICAL - DEMOLITION ROOF PLAN - BUILDING D
M2.1.D MECHANICAL - FLOOR PLAN - BUILDING D
M2.2.D MECHANICAL - ROOF PLAN - BUILDING D
M1.1.E MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING E
M1.2.E MECHANICAL - DEMOLITION ROOF PLAN - BUILDING E
M2.1.E MECHANICAL - FLOOR PLAN - BUILDING E
M2.2.E MECHANICAL - ROOF PLAN - BUILDING E
M1.1.F MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING F
M1.2.F MECHANICAL - DEMOLITION ROOF PLAN - BUILDING F
M2.1.F MECHANICAL - FLOOR PLAN - BUILDING F
M2.2.F MECHANICAL - ROOF PLAN - BUILDING F
M5.1 MECHANICAL DETAILS
M5.2 MECHANICAL DETAILS
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M7.4 MECHANICAL TITLE 24 COMPLIANCE DOCUMENTS
M7.5 MECHANICAL TITLE 24 COMPLIANCE DOCUMENTS
M7.6 MECHANICAL TITLE 24 COMPLIANCE DOCUMENTS
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ELECTRICAL
E0.1 ELECTRICAL SHEET INDEX, SYMBOL LIST AND ABBREVIATIONS
E1.1 SITE PLAN - ELECTRICAL
E2.1.A DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING A
E2.2.A REMODEL ROOF PLAN - ELECTRICAL - BUILDING A
E2.1.B DEMOLITION/REMODEL ROOF PLANS - ELECTRICAL - BUILDING B
E2.1.C DEMOLITION/REMODEL ROOF PLANS - ELECTRICAL - BUILDING C
E2.4.C LIGHTING - BUILDING C
E2.1.D DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING D
E2.2.D REMODEL ROOF PLAN - ELECTRICAL - BUILDING D
E2.4.D LIGHTING - BUILDING D
E2.1.E DEMOLITION/REMODEL ROOF PLANS - ELECTRICAL - BUILDING E
E2.4.E LIGHTING - BUILDING E
E2.1.F DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING F
E2.2.F REMODEL ROOF PLAN - ELECTRICAL - BUILDING F
E2.4.F LIGHTING - BUILDING F
E3.1 ONE LINE DIAGRAM - POWER, PANEL SCHEDULE
E5.1 ELECTRICAL DETAILS

■ DRAWING SET CONTAINS 92 SHEETS ■



730 Howe Avenue, Suite 450
Sacramento, CA 95825
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Fax: 916.921.2212

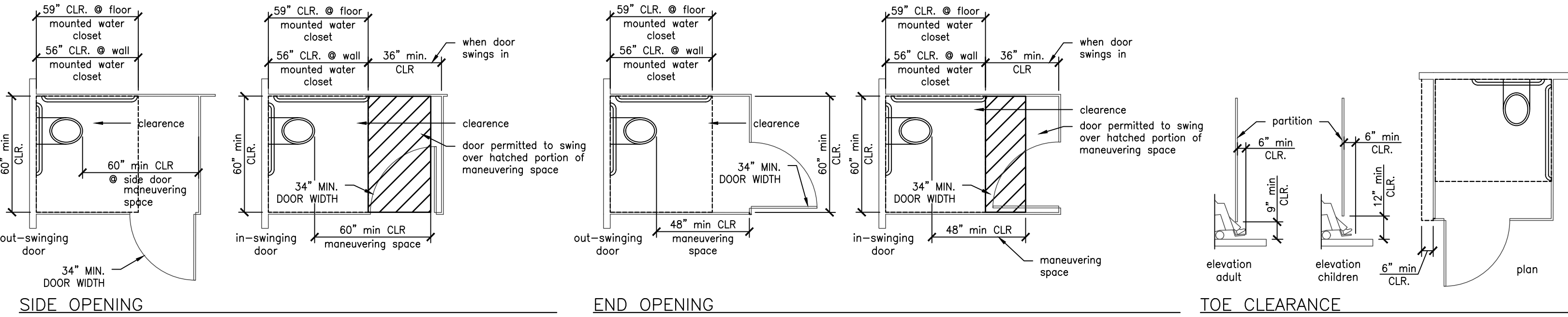


HVAC REPLACEMENT
LODI MIDDLE SCHOOL

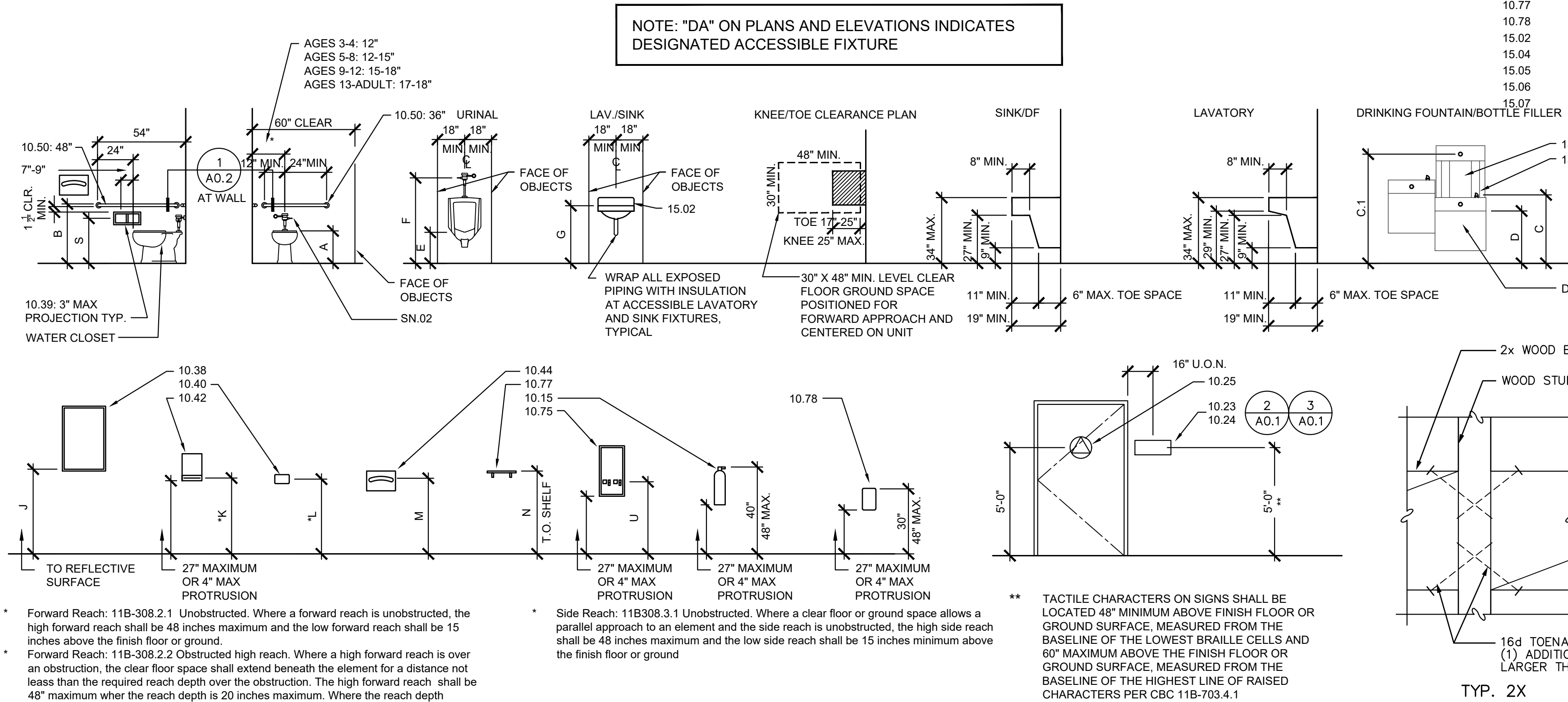
COVER SHEET

CONSULTANT		
PROJECT NO. 22-32-057	REVISIONS	BY
DATE 8/26/2021		
DRAWN MS		
CHECKED SLH		
SCALE		
CADFILE BORDER.DWG		
UPDATED 8/26/2022		
SHEET NO.		

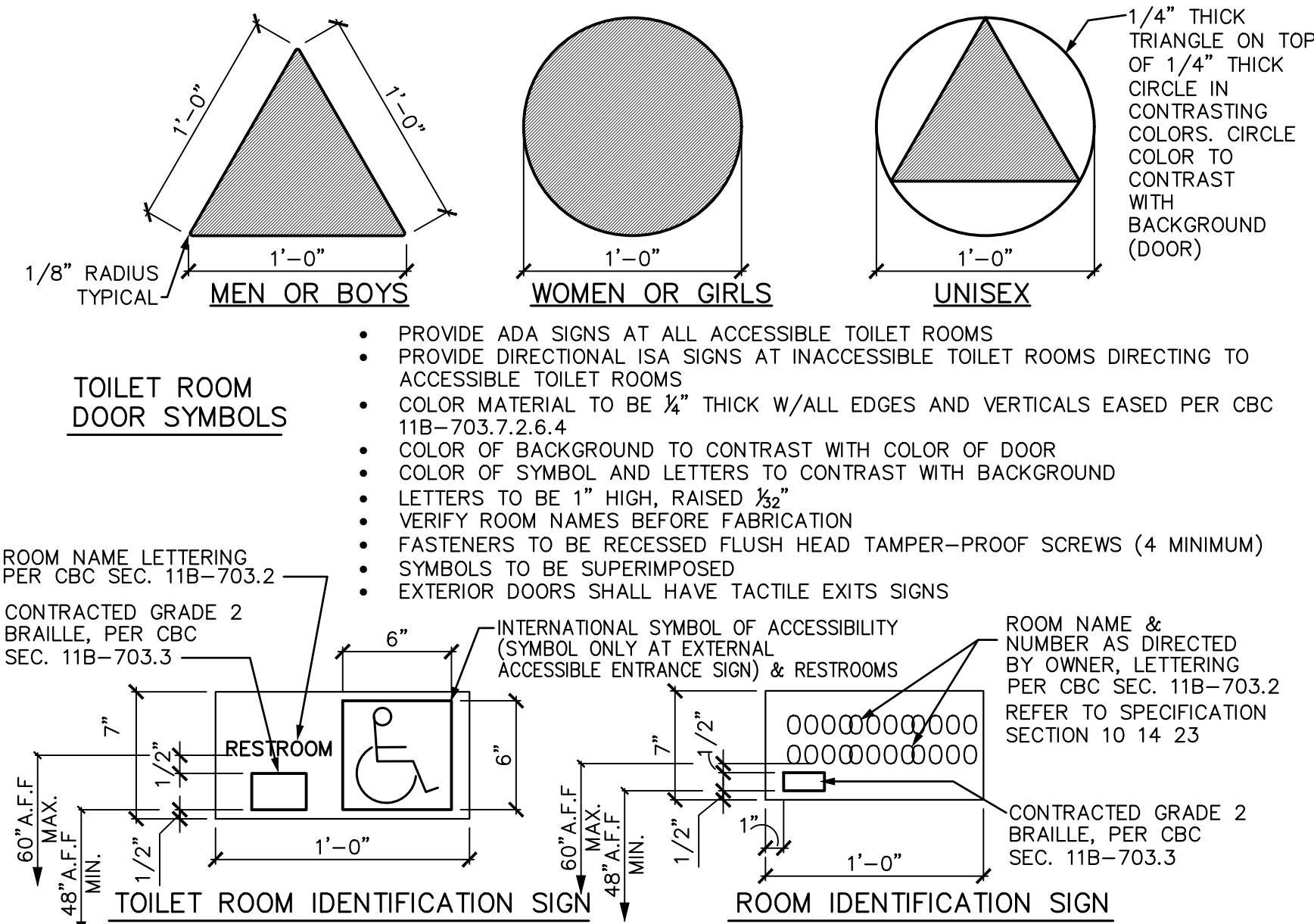
CS



D.A. TOILET STALL

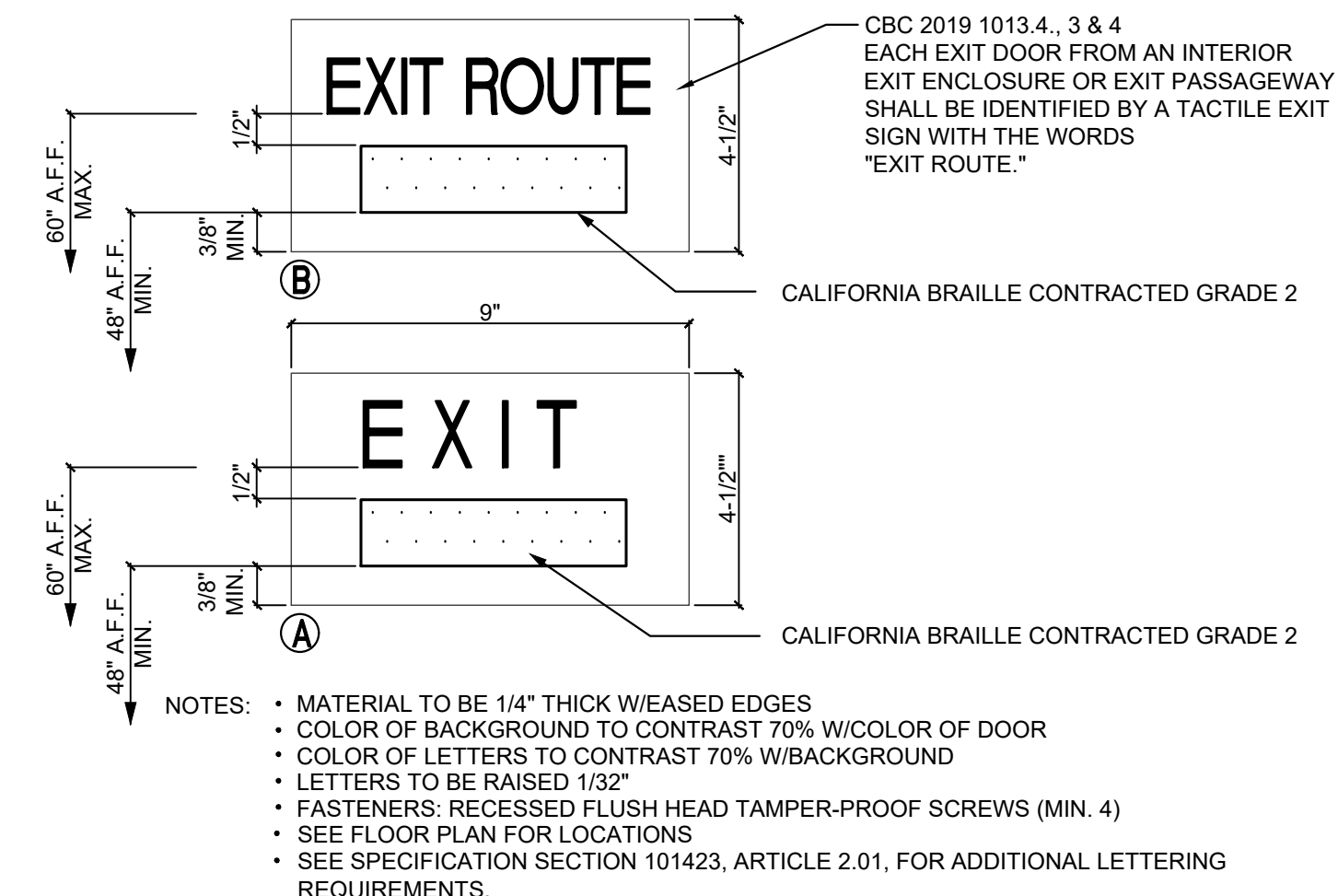


1 N.T.S. FIXTURE and ACCESSORY HEIGHTS/SIGNAGE MOUNTING

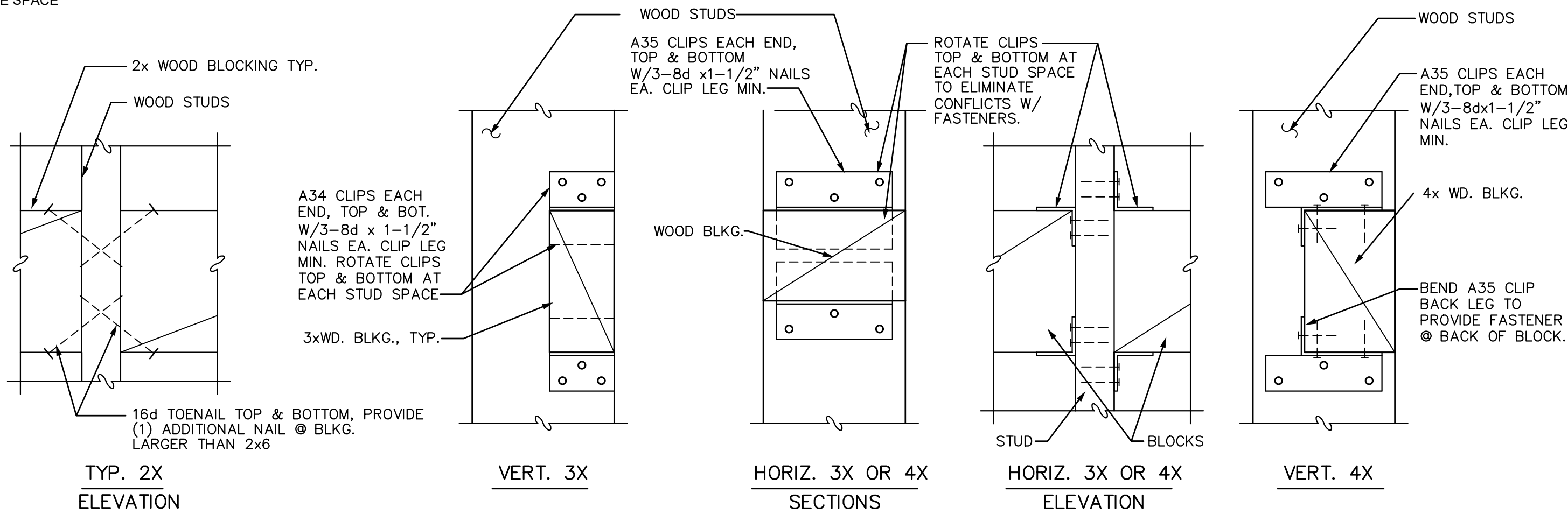


2 1 1/2"=1'-0" TYPICAL SIGNAGE

3 N.T.S. TACTILE EXIT SIGN



4 3"=1'-0" TYPICAL WOOD BLOCKING



GENERAL NOTES

- ALL DESIGNATED ACCESSIBLE DIMENSIONS ARE MAXIMUM DIMENSIONS U.O.N.
- MOUNTING HEIGHTS SHOWN FOR ELEMENTARY SCHOOL AND STAFF APPLY TO THIS PROJECT.
- DESIGNATED ACCESSIBLE FIXTURE AND EQUIPMENT DIMENSIONS MUST BE USED FIRST PRIOR TO STANDARD DIMENSIONS.

SHEET NOTES

- SN.01 NOT USED
- SN.02 AT DESIGNATED ACCESSIBLE WATER CLOSET, FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE ENCLOSURE.

KEYNOTES

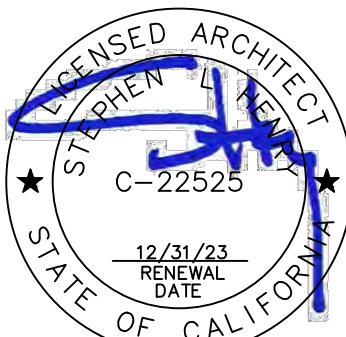
- 10.15 FIRE EXTINGUISHER
- 10.23 SIGN: ROOM IDENTIFICATION
- 10.24 SIGN: TACTILE EXIT SIGN
- 10.25 SIGN: TOILET ROOM DOOR SYMBOL
- 10.38 TOILET ROOM ACCESSORY: MIRROR (MEASURE TO BOTTOM OF REFLECTIVE SURFACE)
- 10.39 TOILET ROOM ACCESSORY: TOILET TISSUE DISPENSER
- 10.40 TOILET ROOM ACCESSORY: SOAP DISPENSER
- 10.42 TOILET ROOM ACCESSORY: PAPER TOWEL DISPENSER
- 10.44 TOILET ROOM ACCESSORY: SEAT COVER DISPENSER
- 10.50 TOILET ROOM ACCESSORY: GRAB BAR
- 10.75 TOILET ROOM ACCESSORY: SANITARY NAPKIN DISPENSER
- 10.77 TOILET ROOM ACCESSORY: SHELF
- 10.78 TOILET ROOM ACCESSORY: SANITARY NAPKIN DISPOSAL
- 15.02 SINK/LAVATORY
- 15.04 DRINKING FOUNTAIN
- 15.05 WATER CLOSET
- 15.06 URINAL
- 15.07 BOTTLE FILLER

ACCESSORY MOUNTING HEIGHTS

DIM	KEYNOTE	ELEMENTARY SCHOOL / KINDERGARTEN GRADES 1-6				MIDDLE SCHOOL / JUNIOR HIGH		HIGH SCHOOL / COLLEGE/STAFF	
		STD	DA	STD	DA	STD	DA	STD	DA
A	15.05 (WC) TOP OF SEAT	12"	10"-12"	14"	15"	15"	17"-19"	15"	18"
B	10.50 (GB)	N/A	20"-22"	N/A	27"	22"	N/A	N/A	34-1/2" CL
C	15.04 (BUBBLER HEIGHT)	24"	30"	28"	32"	40"	36" MAX.	40"	36" MAX.
C.1	15.07 (BOTTLE FILLER BUTTON)	48"	48" MAX.	48"	48" MAX.	48"	48" MAX.	48"	48" MAX.
D	15.04 (KNEE CLEARANCE)	27"	22"	20"	24"	31"	27" MIN.	31"	27" MIN.
E	15.06 (LIP HEIGHT)	17"	13"	17"	15"	24"	17" MAX.	N/A	17" MAX.
F	15.08 (FLUSH HANDLE HEIGHT)	36"	32"	29"	36"	51"	44" MAX.	51"	44" MAX.
G	15.02 (TOP HEIGHT)	24"	24"	26"	29"	34"	34" MAX.	34"	34" MAX.
H	15.02 (KNEE CLEARANCE)	19"	19"	21"	24"	29"	29" MIN.	29"	29"
J	10.38 (BOTTOM OF GLASS)	35"	32"	36"	38"	48"	40" MAX.	52"	40" MAX.*
K	10.42 (P.T.D)	27"	32"	33"	36"	40"	40" MAX.	N/A	40" MAX.
L	10.40 (SOAP)	27"	32"	32"	36"	40"	40" MAX.	42"	40" MAX.
M	10.44 (S.C.)	27"	32"	40"	36"	42"	40" MAX.	42"	40" MAX.
N	10.77 (SHELF)	N/A	N/A	N/A	N/A	42"	40" MAX.	46"	40" MIN. 48" MAX.
P	10.78 (1-1/2" CLR. TO GRAB BAR)							22"	19" MIN.
Q	(NOT USED)								
R	(NOT USED)								
S	10.39 (T.P. DOPSEN. OUTLET HGT)	12"	N/A	15"	N/A	18"	19" MIN.	22"	19" MIN.
T	10.39 (C.L. IN FRONT OF TOILET)	12"	6"	12"	6"	12"	7"-9"	12"	7"-9"
U	10.75	N/A	N/A	N/A	N/A	42"	40" MAX.	N/A	40" MAX.

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 02-120272 INC:
 REVIEWED FOR
 SS ☒ FLS ☒ ACS ☒
 DATE: 09/12/2022

730 Howe Avenue, Suite 450
 Sacramento, CA 95825
 Phone: 916.921.2112
 Fax: 916.921.2212



HVAC REPLACEMENT
 LODI MIDDLE SCHOOL

TYPICAL DETAILS

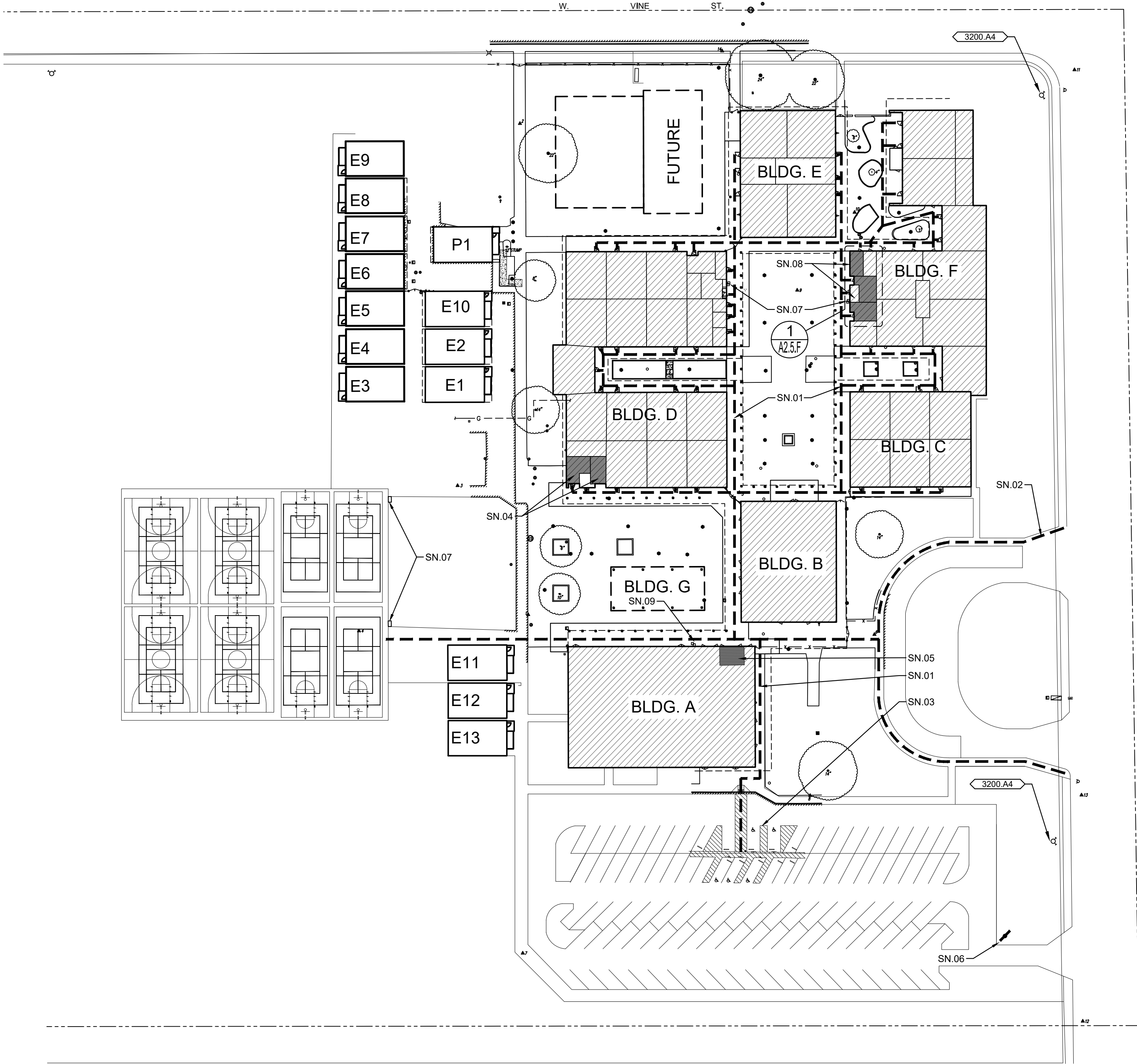
CONSULTANT

PROJECT NO.	REVISIONS	BY
22-32-057		
DATE		
8/26/2021		
DRAWN		
MS		
CHECKED		
SLH		
SCALE		
N.T.S.		
CADFILE		
A SHEETS.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

A0.1

BUILDING DATA					
BUILDING	DSA APPLICATION NUMBER	CONSTRUCTION TYPE	OCCUPANCY TYPE	AREA (SF)	CERTIFIED
BLDG. A - MULTI-PURPOSE	24025, 51591, 02-109532, 02-111649	VA NOT SPRINKLERED	E, A-3	10,240	Y
BLDG. B - ADMINISTRATION	24025, 02-109532	VB NOT SPRINKLERED	B	5,200	Y
BLDG. C - CLASSROOMS	24025, 02-109532	VB NOT SPRINKLERED	E	5,200	Y
BLDG. D - CLASSROOMS	24025, 02-109532, 02-111649	VB NOT SPRINKLERED	E	15,070	Y
BLDG. E - CLASSROOMS	24025	VB NOT SPRINKLERED	E	5,525	Y
BLDG. F - CLASSROOMS	29702, 02-102227, 02-103249, 02-109532	VB NOT SPRINKLERED	E	11,065	Y
BLDG. G - SHADE STRUCTURE	02-112412	VB NOT SPRINKLERED	E	1,920	
BLDG. E1 - RELOCATABLE CLASSROOM	02-102227	VB NOT SPRINKLERED	E	960	Y
BLDG. E2 - RELOCATABLE CLASSROOM	02-102227	VB NOT SPRINKLERED	E	960	Y
BLDG. E10 - RELOCATABLE CLASSROOM	02-102227	VB NOT SPRINKLERED	E	960	Y
BLDG. E11, E12 & E13 - RELOCATABLE CLASSROOMS	69156	VB NOT SPRINKLERED	E	960 EA (2,880 SF TOTAL)	Y
BLDG. E3, E4, E5, E6, E7, E8 & E9 - RELOCATABLE CLASSROOMS	02-102968	VB NOT SPRINKLERED	E	960 EA (6,720 SF TOTAL)	Y
BLDG. P1 - RELOCATABLE CLASSROOM	02-117640	VB NOT SPRINKLERED	E	960	Y
BLDG. P2 - RELOCATABLE CLASSROOM	02-120292	VB SPRINKLERED	E	3,360	N

SITE LEGEND	
	PROPERTY LINE
	ACCESSIBLE PATH OF TRAVEL - SEE NOTES THIS SHEET
	(E) CONCRETE WALK - TO BE IN COMPLIANCE WITH 11B-403.3 ALONG ACCESSIBLE PATH, PER CBC 11B-404.2.5. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE ½ INCH (12.7 MM) HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH SECTIONS 11B-302 AND 11B-303
	ASPHALT CONCRETE PAVING
	ORNAMENTAL METAL FENCE
	CHAIN LINK FENCE
	(E) CHAIN LINK FENCE TO BE REMOVED
	FENCE OR WALL HEIGHT
	CMU WALL
	FIRE HYDRANT
	POST INDICATOR & VALVE (PIV)
	BACKFLOW PREVENTER
	METER AND BACKFLOW
	TRUNCATED DOMES
	EXISTING BUILDING TO BE MODERNIZED
DRAINAGE STRUCTURE - SEE CIVIL	
	CLEAN OUT
	AREA DRAIN
	MAN HOLE COVER
	DROP INLET
	TRENCH DRAIN
ELECTRICAL STRUCTURE - SEE ELECTRICAL	
	POLE MOUNTED FIXT. TOP MOUNTED
	POLE MOUNTED FIXT. TWIN HEAD
	POLE MOUNTED FIXT. SINGLE HEAD
	UNDERGROUND PULLBOX
	TRANSFORMER
	SWITCHBOARD



SHEET NOTES

SN.01	D.A. PATH OF TRAVEL
SN.02	D.A. PATH OF TRAVEL FROM PUBLIC RIGHT OF WAY.
SN.03	D.A. PARKING STALLS CONSTRUCTED UNDER DSA IDENTIFICATION NO. 02-117640
SN.04	D.A. STUDENT TOILET ROOMS CONSTRUCTED UNDER DSA APPLICATION NO. 02-111649
SN.05	D.A. STAFF TOILET ROOMS CONSTRUCTED UNDER DSA APPLICATION NO. 02-111649
SN.06	EXISTING TOW-AWAY SIGN CONSTRUCTED UNDER DSA APPLICATION NO. 02-109532
SN.07	D.A. HI-LOW DRINKING FOUNTAIN CONSTRUCTED UNDER DSA APPLICATION NO. 02-109532
SN.08	D.A. STAFF AND STUDENT TOILET ROOMS UNDER DSA APPLICATION NUMBER 02-102227
SN.09	D.A. HI-LOW DRINKING FOUNTAIN UNDER DSA APPLICATION NUMBER 02-111649

KEYNOTES

3200 SITEMARK
3200.A4 (E) FIRE HYDRANT

PATH OF TRAVEL: - - - - -

Path of travel (P.O.T.) as indicated is a barrier free access without any abrupt vertical changes exceeding 1/8" at 1:2 Maximum slope, except that level changes do not exceed 1/4" vertical(11B-303 & 11B-403.4). P.O.T. is a minimum of 48" wide (11B-403.5.1Ex3) slip resistant surface with 5% max. slope and 1:48 max. cross slope(11B-403.3). Passing spaces(11B-403.5.3) of 60"x60" min. are located not more than 200' apart. Walks with continuous gradients have 60" in length of level areas (11B-403.7) not more than 400' apart. P.O.T. shall be maintained free of overhanging obstructions to 80" min(11B-307.4) and protruding objects(11B-307) greater than 4" projection from wall above 27" and less than 80". There is no drop-off over 4" at the edge of walk or landing unless identified by a guard, a handrail, or a warning curb at least 6" in height above the walk(11B-303.5).

Design Professional in General Responsible Charge Statement

The POT identified in the construction documents is compliant with current applicable California Building Code accessibility provisions for **path of travel requirements for alterations and structural repairs**. As part of the design of this project, the POT was examined and any elements, components or portion of the POT that were determined to be noncompliant 1) have been identified and 2) the corrective work necessary to bring them into compliance has been included within the scope of this project's work through details, drawings and specification incorporated into these construction documents. Any noncompliant elements, components or portion of the POT that will not be corrected by this project based on valuation threshold limitations or a finding of unreasonable hardship are so indicated in these construction documents.

During construction, if POT items within the scope of the project represented as code compliant are found to be nonconforming beyond reasonable construction tolerances, they shall be brought into compliance with the CBC as a part of this project by means of a "Construction Change Document" (form **DSA 140**).

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Phone: 916.921.2112
Fax: 916.921.2212

HENRY+
ASSOCIATES
ARCHITECTS



HVAC REPLACEMENT
LODI MIDDLE SCHOOL

CODE ANALYSIS
SITE PLAN

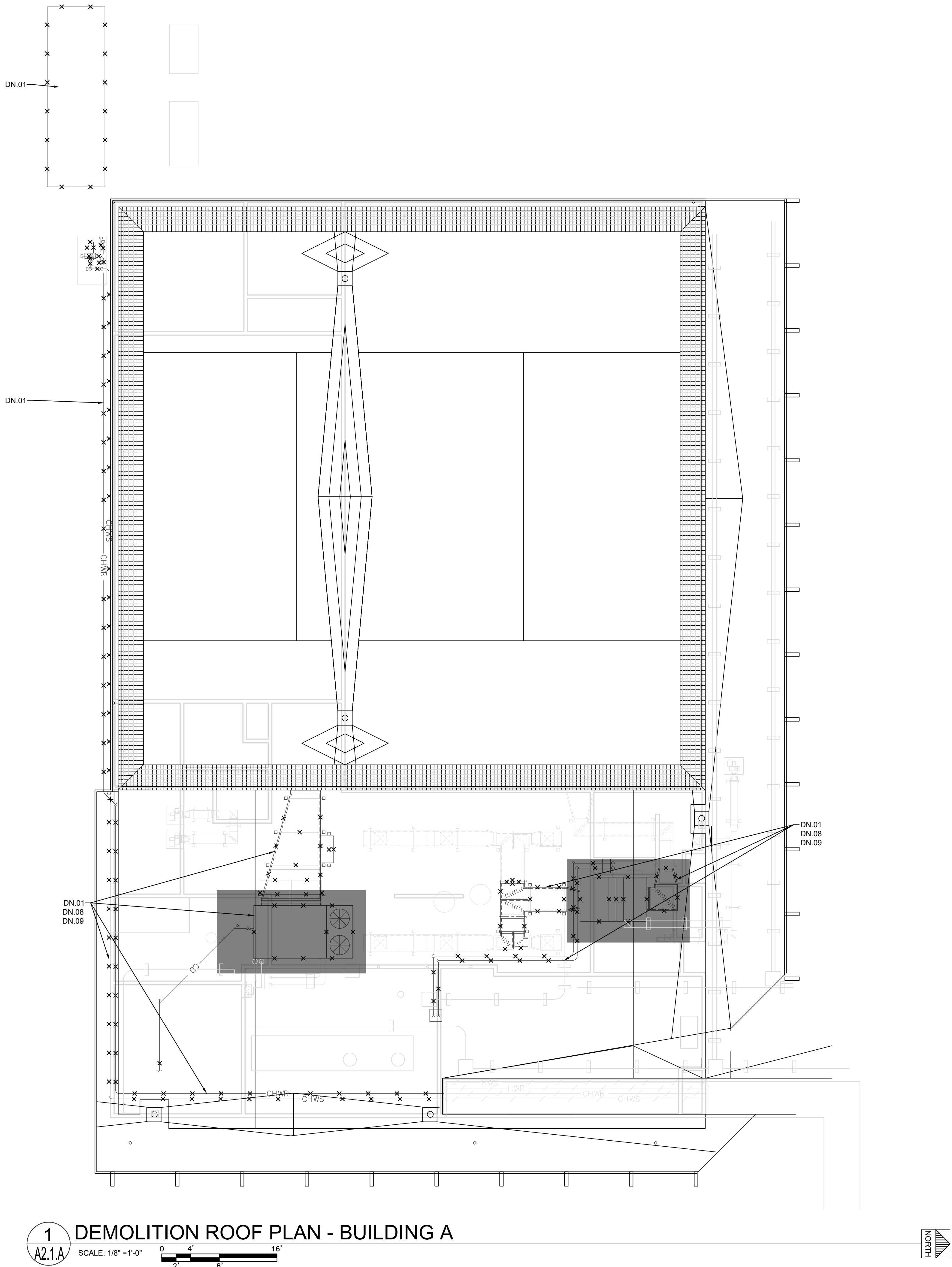
CONSULTANT

PROJECT NO.	REVISIONS	BY
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A1.1.1

03 OF 93 SHEETS

1 CODE ANALYSIS SITE PLAN
A1.1.1 SCALE: 1" = 50'-0" 0 25' 100' 12.5' 50'



GENERAL NOTES

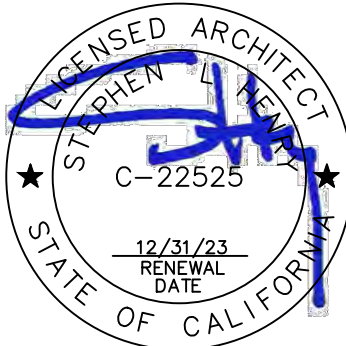
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DEMOLITION NOTES

- NOTE: NOT ALL NOTES MAY BE USED
- DN.01 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.02 REMOVE (E) ROOF MATERIAL, ROOF HATCH AND ROOF FRAMING FOR ACCESS. REMOVE (E) MECHANICAL EQUIPMENT IN ATTIC SPACE. SALVAGE ROOF HATCH FOR RE-INSTALLATION. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.03 DISCONNECT AND REMOVE (E) MECHANICAL GRILLE AND DUCTWORK ABOVE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.04 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT AND CURB. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.05 DISCONNECT AND REMOVE (E) ELECTRICAL WIRE, CONDUIT, EQUIPMENT, ETC. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.06 REMOVE (E) LIGHT FIXTURES AND SALVAGE FOR RE-INSTALLATION. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.07 REMOVE AND DISPOSE OF (E) LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.08 REMOVE (E) ROOFING MATERIAL.
- DN.09 REMOVE (E) EQUIPMENT CURB.
- DN.10 REMOVE (E) CEILING FINISH MATERIALS.
- DN.11 REMOVE (E) BEAM AND CEILING FRAMING.
- DN.12 REMOVE (E) METAL ROOF MATERIAL AT MANSARD AT (N) EQUIPMENT CURB. SALVAGE FOR RE-INSTALLATION.
- DN.13 NOT USED

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DEMOLITION ROOF PLAN -
BUILDING A

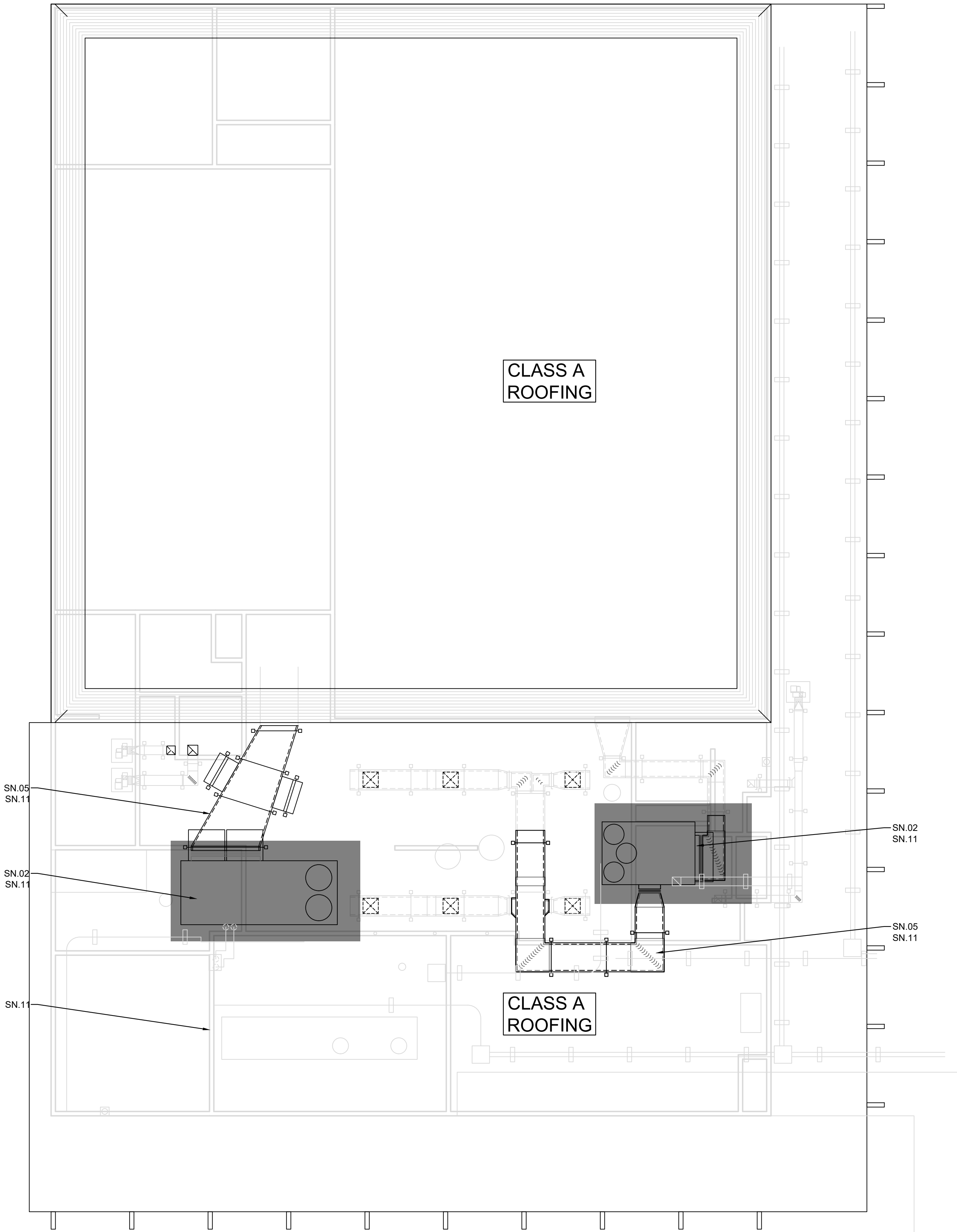
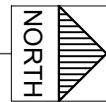
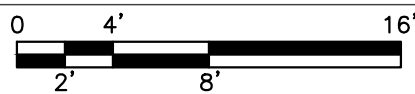
CONSULTANT

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A2.1.A

1 ROOF PLAN - BUILDING A
A2.2.A

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



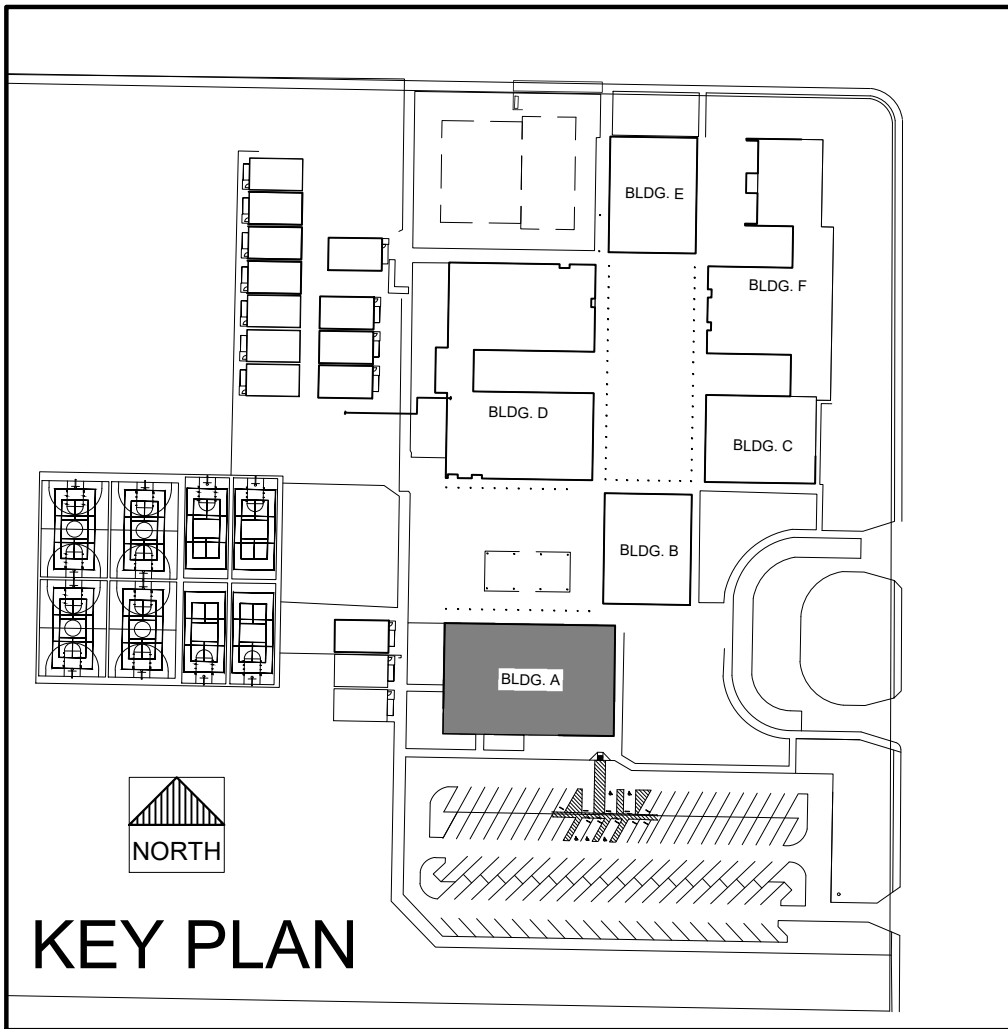
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SHEET NOTES

(NOTE: NOT ALL NOTES MAY BE USED)

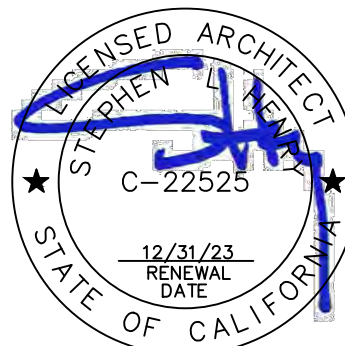
- SN.01 RE-FRAME ROOF AND ROOF HATCH OPENING. REINSTALL (E) SALVAGED ROOF HATCH. PATCH BACK TPO ROOF MATERIALS PER MANUFACTURERS DETAILS AND SPECIFICATIONS. MANUFACTURER IS FIRESTONE BUILDING PRODUCTS LLC. MATERIAL IS 60-MIL TPO MEMBRANE. THE SAME MANUFACTURER AND MATERIAL MUST BE USED TO MAINTAIN WARRANTY.
- SN.02 FRAME (N) EQUIPMENT CURB AND INSTALL (N) HVAC EQUIPMENT. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. INSTALL (N) 60-MIL TPO ROOF AT (N) HVAC EQUIPMENT AND CURB. LAP (N) ROOF MATERIAL WITH (E) ROOF MATERIAL. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.03 RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN.04 INFILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN.05 INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.06 FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILING. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 1-6/S4.0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.07 FRAME (N) OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.08 RE-FRAME OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.09 INFILL FRAME OPENINGS IN CEILINGS AND INSTALL GYPSUM BOARD OVER CLOSED OPENINGS. PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.10 PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.11 PATCH AND REPAIR TPO ROOF WHERE EQUIPMENT, PIPE, CONDUIT, DUCT, ETC. HAS BEEN REMOVED, MOVED, REPLACED, RELOCATED, ETC. INSTALL (N) TPO ROOF, FLASH, CAULK (N) AND (E) EQUIPMENT TO RESTORE, REPAIR AND WATERPROOF ROOF OR ALL ROOF AREAS AFFECTED BY THIS WORK. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.12 CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN.13 RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.14 INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.15 EXISTING 2-HOUR AREA SEPARATION WALL.
- SN.16 REMOVE AND REPLACE AIR HVAC IN CLOSET BELOW. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.



KEY PLAN

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ROOF PLAN -
BUILDING A

CONSULTANT

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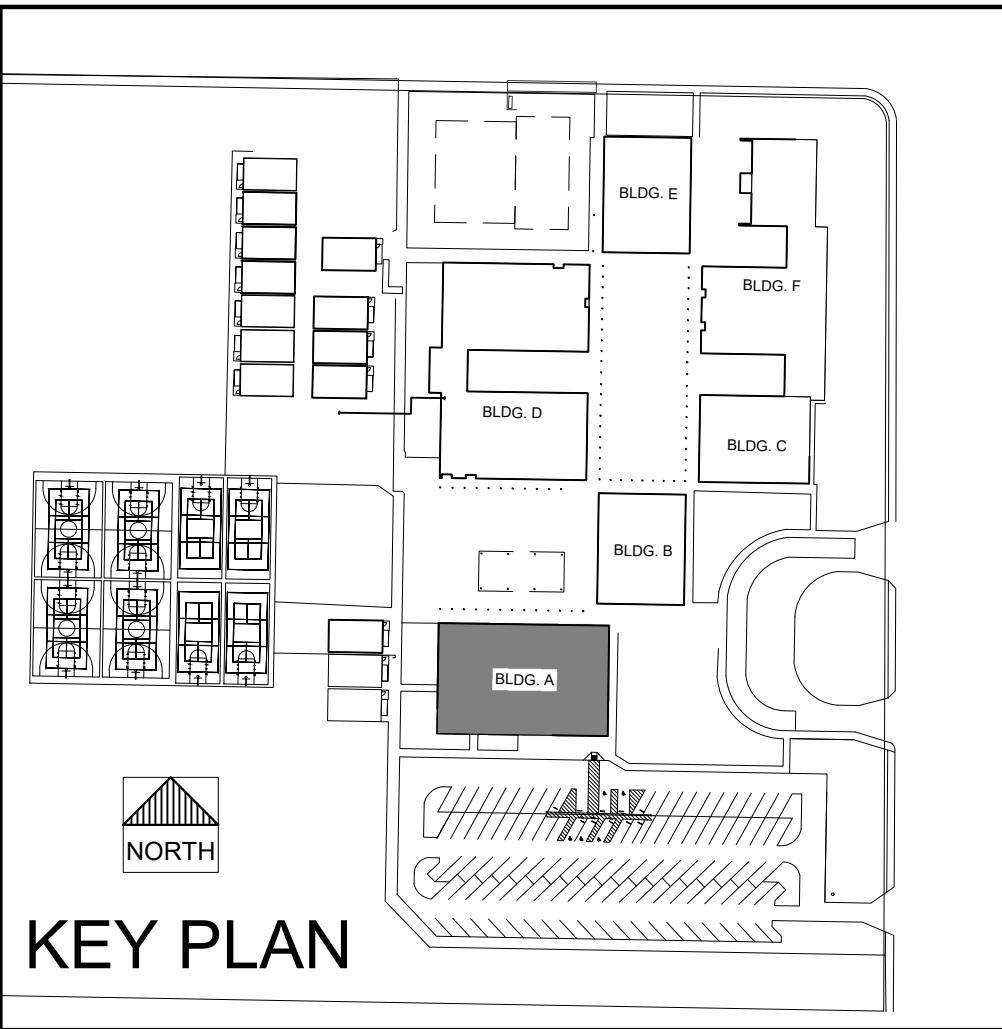
1 REFLECTED CEILING PLAN - BUILDING A
A2.4.A

GENERAL NOTES

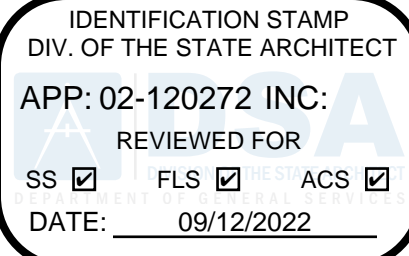
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- SN.03 RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN.04 IN-FILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN.05 INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.06 FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILING. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 1-6/54.0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.07 FRAME (N) OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
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- SN.12 CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN.13 RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.14 INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.15 EXISTING 2-HOUR AREA SEPARATION WALL.
- SN.16 REMOVE AND REPLACE AIR HVAC IN CLOSET BELOW. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.



KEY PLAN



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HVAC REPLACEMENT
LODI MIDDLE SCHOOL

REFLECTED CEILING PLAN -
BUILDING A

CONSULTANT

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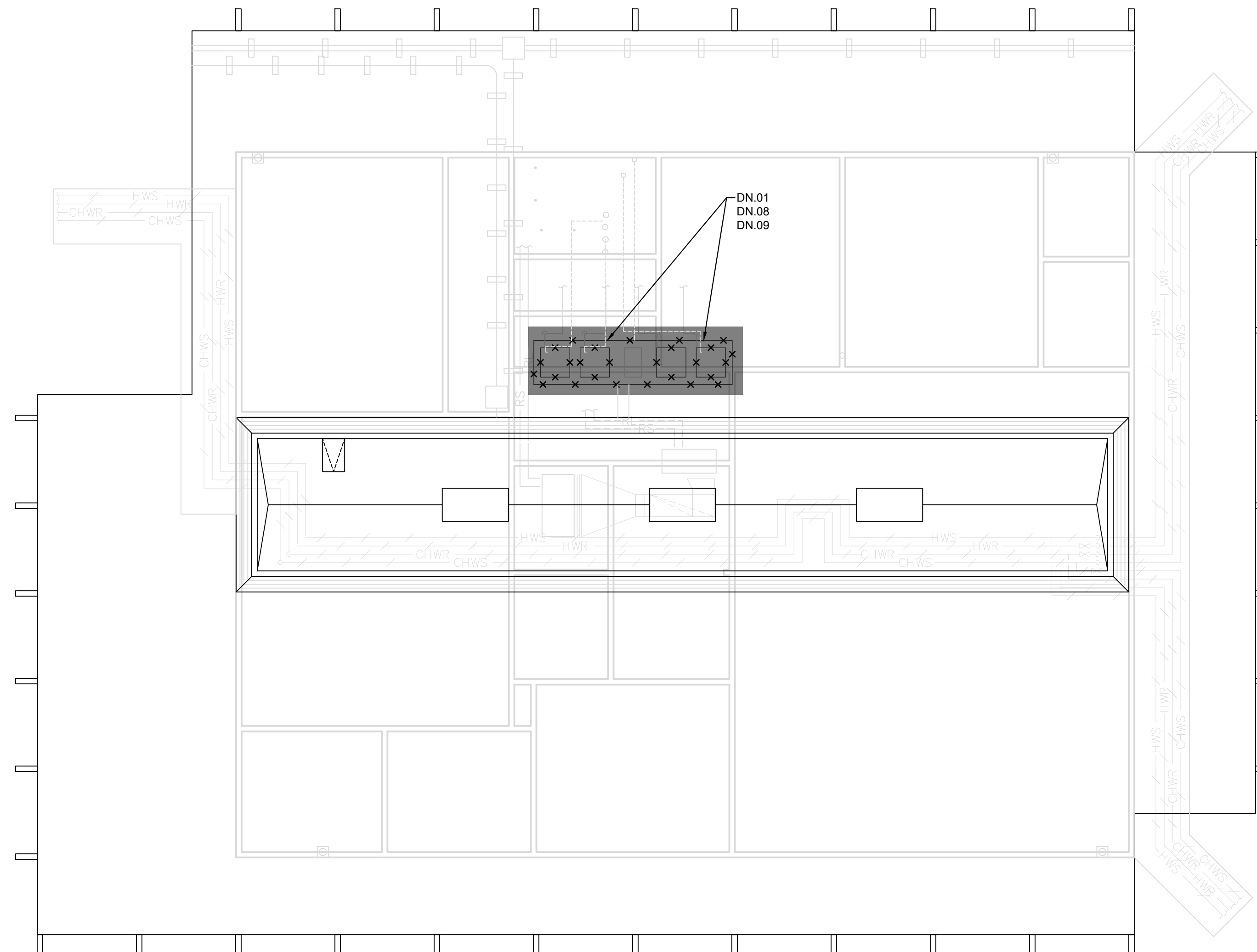
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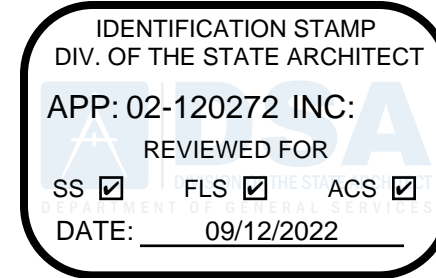
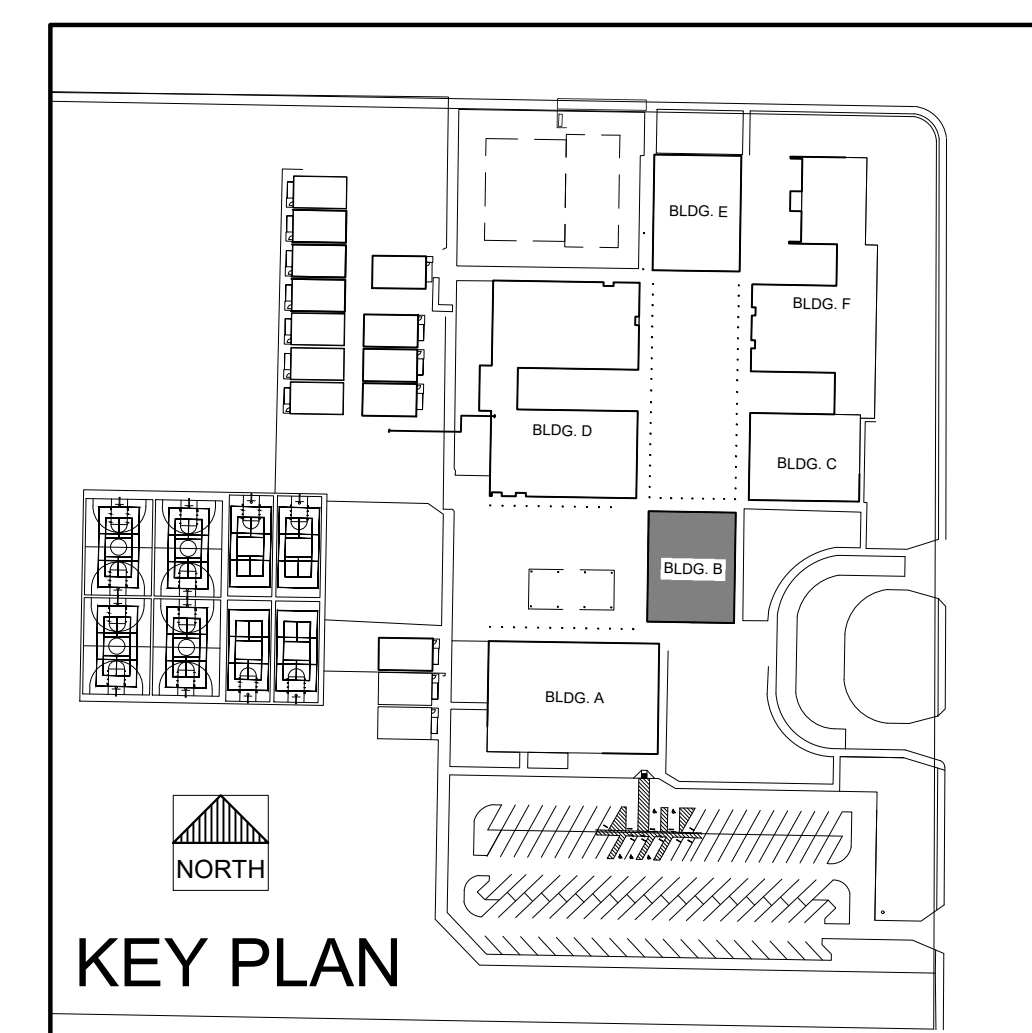
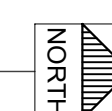
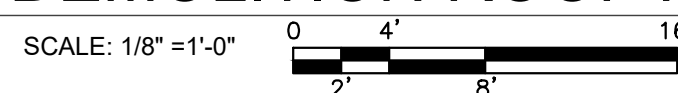
DEMOLITION NOTES

NOTE: NOT ALL NOTES MAY BE USED

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|-------|---|
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| DN.06 | REMOVE (E) LIGHT FIXTURES AND SALVAGE FOR RE-INSTALLATION. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. |
| DN.07 | REMOVE AND DISPOSE OF (E) LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. |
| DN.08 | REMOVE (E) ROOFING MATERIAL. |
| DN.09 | REMOVE (E) EQUIPMENT CURB. |
| DN.10 | REMOVE (E) CEILING FINISH MATERIALS. |
| DN.11 | REMOVE (E) BEAM AND CEILING FRAMING. |
| DN.12 | REMOVE (E) METAL ROOF MATERIAL AT MANSARD AT (N) EQUIPMENT CURB. SALVAGE FOR RE-INSTALLATION. |
| DN.13 | NOT USED |



1 DEMOLITION ROOF PLAN - BUILDING B



730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



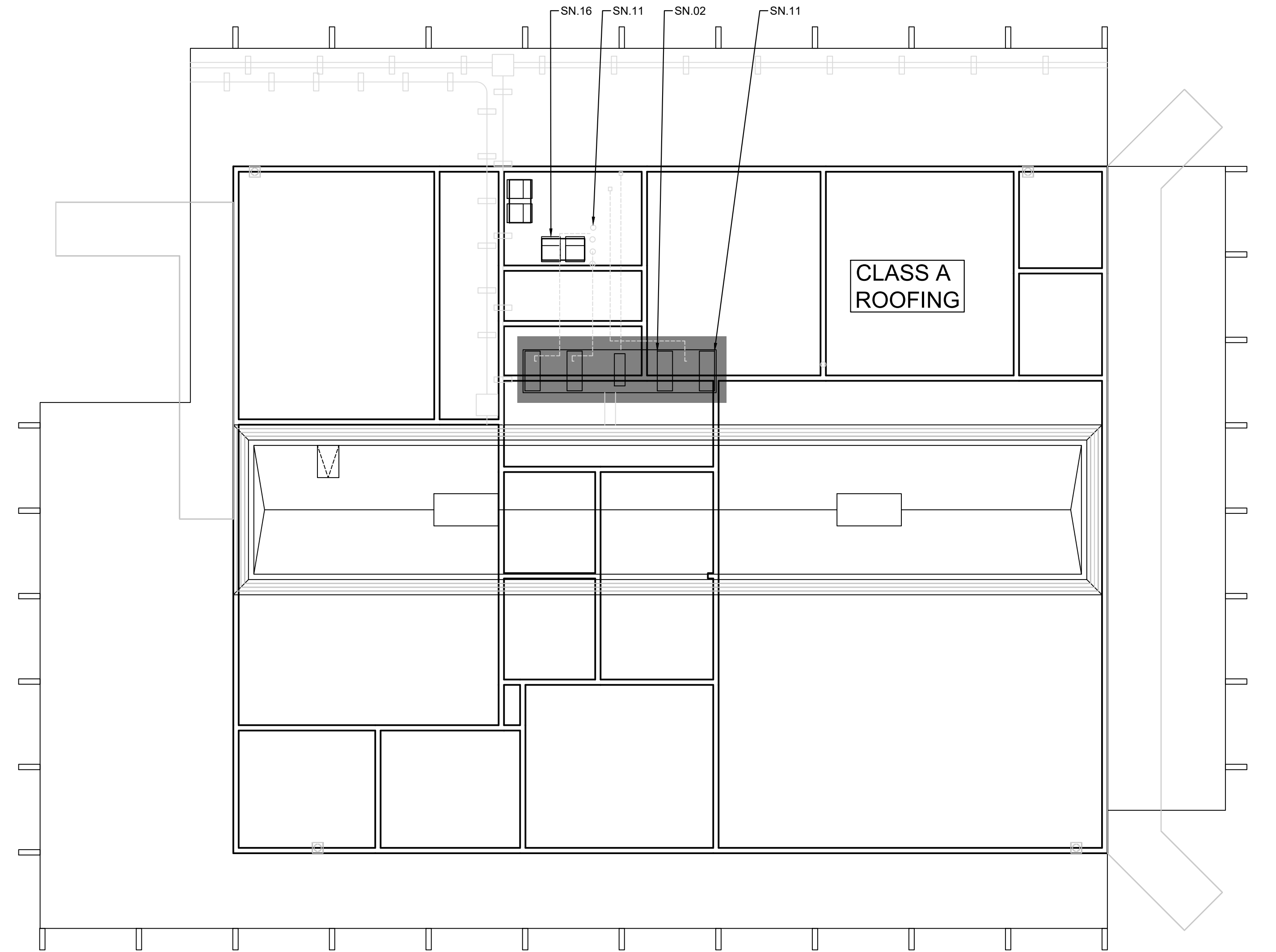
HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DEMOLITION ROOF PLAN -
BUILDING B

CONSULTANT

PROJECT NO. 22-32-057	REVISIONS	BY
DATE 8/26/2021		
DRAWN MS		
CHECKED SLH		
SCALE AS SHOWN		
CADFILE A SHEETS.DWG		
UPDATED 8/26/2022		
SHEET NO.		

A2.1.B



1 ROOF PLAN - BUILDING B
A2.2.B SCALE: 1/8" = 1'-0" 0 4' 16' 2' 8'

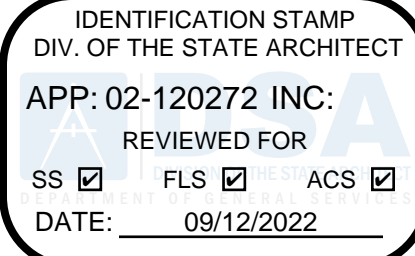
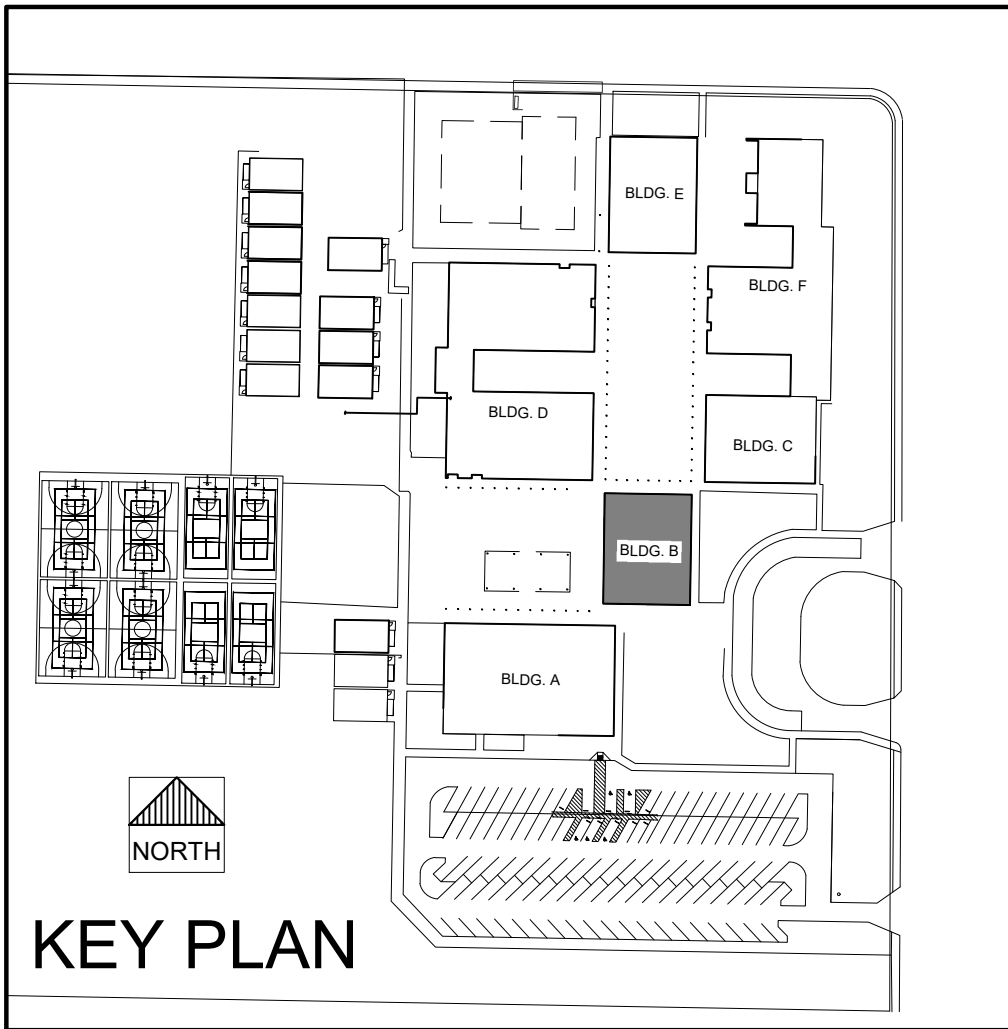
GENERAL NOTES

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2. ALL EXPOSED GALVANIZED SHEET METAL SHALL BE PROPERLY CLEANED, ETCHED, PRIMED AND PAINTED PER SPECIFICATION SECTION 09 91 13.
3. ALL NEW WORK INCLUDING SHEET METAL, TRIM, CEILINGS AND ALL OTHER NEW OR MODIFIED WORK SHALL BE PAINTED PER SPECIFICATION SECTION 09 91 10 WHETHER OR NOT CALLED OUT IN THE DRAWINGS.
4. EXISTING CLASSROOMS ARE NOT IDENTICAL IN REGARD TO QUANTITY OR LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING FLOORS, WALLS, DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOWS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE REMOVED AND TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
5. NOT ALL FURNISHINGS, COMPONENTS, FINISHES, EQUIPMENT, ELECTRICAL, MECHANICAL, ETC. ITEMS ARE SHOWN IN THE PLANS. THESE ITEMS ARE TO REMAIN AS INSTALLED AND SHALL BE MASKED AND PROTECTED AS NEEDED FOR PAINTING AND DURING CONSTRUCTION OPERATIONS.

SHEET NOTES

(NOTE: NOT ALL NOTES MAY BE USED)

- SN.01 RE-FRAME ROOF AND ROOF HATCH OPENING. REINSTALL (E) SALVAGED ROOF HATCH. PATCH BACK TPO ROOF MATERIALS PER MANUFACTURER'S DETAILS AND SPECIFICATIONS. MANUFACTURER IS FIRESTONE BUILDING PRODUCTS L.L.C. MATERIAL IS 60-MIL TPO MEMBRANE. THE SAME MANUFACTURER AND MATERIAL MUST BE USED TO MAINTAIN WARRANTY.
- SN.02 FRAME (N) EQUIPMENT CURB AND INSTALL (N) HVAC EQUIPMENT. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. INSTALL (N) 60-MIL TPO ROOF AT (N) HVAC EQUIPMENT AND CURB. LAP (N) ROOF MATERIAL WITH (E) ROOF MATERIAL. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.03 RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN.04 IN-FILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN.05 INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.06 FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILING. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 1-654.0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.07 FRAME (N) OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.08 RE-FRAME OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.09 INFILL FRAME OPENINGS IN CEILINGS AND INSTALL GYPSUM BOARD OVER CLOSED OPENINGS. PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.10 PATCH CEILING TILES. REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.11 PATCH AND REPAIR TPO ROOF WHERE EQUIPMENT, PIPE, CONDUIT, DUCT, ETC. HAS BEEN REMOVED, MOVED, REPLACED, RELOCATED, ETC. INSTALL (N) TPO ROOF, FLASH, CAULK (N) AND (E) EQUIPMENT TO RESTORE. REPAIR AND WATERPROOF ROOF FOR ALL ROOF AREAS AFFECTED BY THIS WORK. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.12 CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN.13 RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.14 INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.15 EXISTING 2-HOUR AREA SEPARATION WALL.
- SN.16 REMOVE AND REPLACE AIR HVAC IN CLOSET BELOW. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.



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HVAC REPLACEMENT
LODI MIDDLE SCHOOL

ROOF PLAN - BUILDING B

CONSULTANT

PROJECT NO.	REVISIONS	BY
22-32-057		
DATE		
8/26/2021		
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8/26/2022		
SHEET NO.		

A2.2.B

GENERAL NOTES

1.

IN GENERAL, THE DRAWINGS SHOW DIMENSIONS, POSITION AND KIND OF CONSTRUCTION; AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK CALLED FOR IN THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE PERFORMED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, MARKED OR SPECIFIED.
2.

ALL EXPOSED GALVANIZED SHEET METAL SHALL BE PROPERLY CLEANED, ETCHED, PRIMED AND PAINTED PER SPECIFICATION SECTION 09 91 13.
3.

ALL NEW WORK INCLUDING SHEET METAL, TRIM, CEILINGS AND ALL OTHER NEW OR MODIFIED WORK SHALL BE PAINTED PER SPECIFICATION SECTION 09 91 10 WHETHER OR NOT CALLED OUT IN THE DRAWINGS.
4.

EXISTING CLASSROOMS ARE NOT IDENTICAL IN REGARD TO QUANTITY OR LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING FLOORS, WALLS, DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOWS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE REMOVED AND TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
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NOT ALL FURNISHINGS, COMPONENTS, FINISHES, EQUIPMENT, ELECTRICAL, MECHANICAL, ETC. ITEMS ARE SHOWN IN THE PLANS. THESE ITEMS ARE TO REMAIN AS INSTALLED AND SHALL BE MASKED AND PROTECTED AS NEEDED FOR PAINTING AND DURING CONSTRUCTION OPERATIONS.

SHEET NOTES

(NOTE: NOT ALL NOTES MAY BE USED)

- SN.01

RE-FRAME ROOF AND ROOF HATCH OPENING. REINSTALL (E) SALVAGED ROOF HATCH. PATCH BACK TPO ROOF MATERIALS PER MANUFACTURER'S DETAILS AND SPECIFICATIONS. MANUFACTURER IS FIRESTONE BUILDING PRODUCTS LLC. MATERIAL IS 60-MIL TPO MEMBRANE. THE SAME MANUFACTURER AND MATERIAL MUST BE USED TO MAINTAIN WARRANTY.
- SN.02

FRAME (N) EQUIPMENT CURB AND INSTALL (N) HVAC EQUIPMENT. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. INSTALL (N) 60-MIL TPO ROOF AT (N) HVAC EQUIPMENT AND CURB LAP (N) ROOF MATERIAL WITH (E) ROOF MATERIAL. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.03

RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN.04

N-FILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN.05

INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.06

FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILING. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 1-6/84.0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.07

FRAME (N) OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.08

RE-FRAME OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.09

INFILL FRAME OPENINGS IN CEILINGS AND INSTALL GYPSUM BOARD OVER CLOSED OPENINGS. PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.10

PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.11

PATCH AND REPAIR TPO ROOF WHERE EQUIPMENT, PIPE, CONDUIT, DUCT, ETC. HAS BEEN REMOVED, MOVED, REPLACED, RELOCATED, ETC. INSTALL (N) TPO ROOF, FLASH, CAULK (N) AND (E) EQUIPMENT TO RESTORE, REPAIR AND WATERPROOF ROOF FOR ALL ROOF AREAS AFFECTED BY THIS WORK. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.12

CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN.13

RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.14

INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.15

EXISTING 2-HOUR AREA SEPARATION WALL.
- SN.16

REMOVE AND REPLACE AIR HVAC IN CLOSET BELOW. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.



1

A2.4.B

REFLECTED CEILING PLAN - BUILDING B

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

0

4'

8'

16'

N

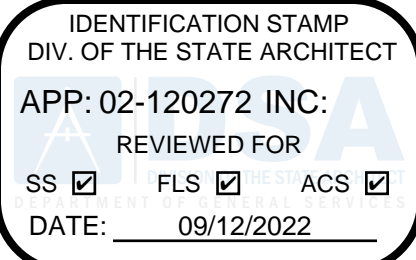
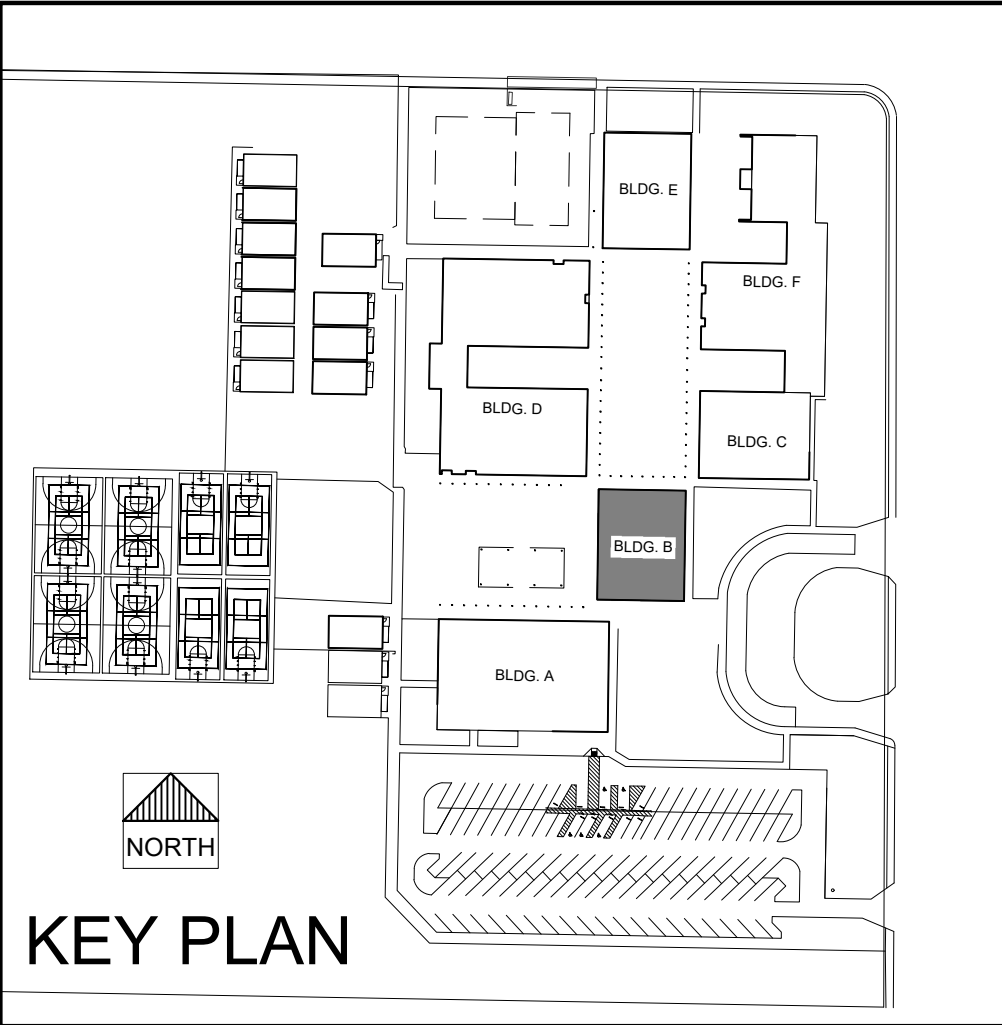
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730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



HVAC REPLACEMENT
LODI MIDDLE SCHOOL

REFLECTED CEILING PLAN -
BUILDING B

CONSULTANT

PROJECT NO.	REVISIONS	BY
22-32-057		
DATE		
8/26/2021		
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UPDATED		
8/26/2022		
SHEET NO.		

A2.4.B

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DEMOLITION NOTES

- NOTE: NOT ALL NOTES MAY BE USED
- DN.01

DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.02

REMOVE (E) ROOF MATERIAL, ROOF HATCH AND ROOF FRAMING FOR ACCESS. REMOVE (E) MECHANICAL EQUIPMENT IN ATTIC SPACE. SALVAGE ROOF HATCH FOR RE-INSTALLATION. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.03

DISCONNECT AND REMOVE (E) MECHANICAL GRILLE AND DUCTWORK ABOVE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.04

DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT AND CURB. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.05

DISCONNECT AND REMOVE (E) ELECTRICAL WIRE, CONDUIT, EQUIPMENT, ETC. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.06

REMOVE (E) LIGHT FIXTURES AND SALVAGE FOR RE-INSTALLATION. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.07

REMOVE AND DISPOSE OF (E) LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.08

REMOVE (E) ROOFING MATERIAL.
- DN.09

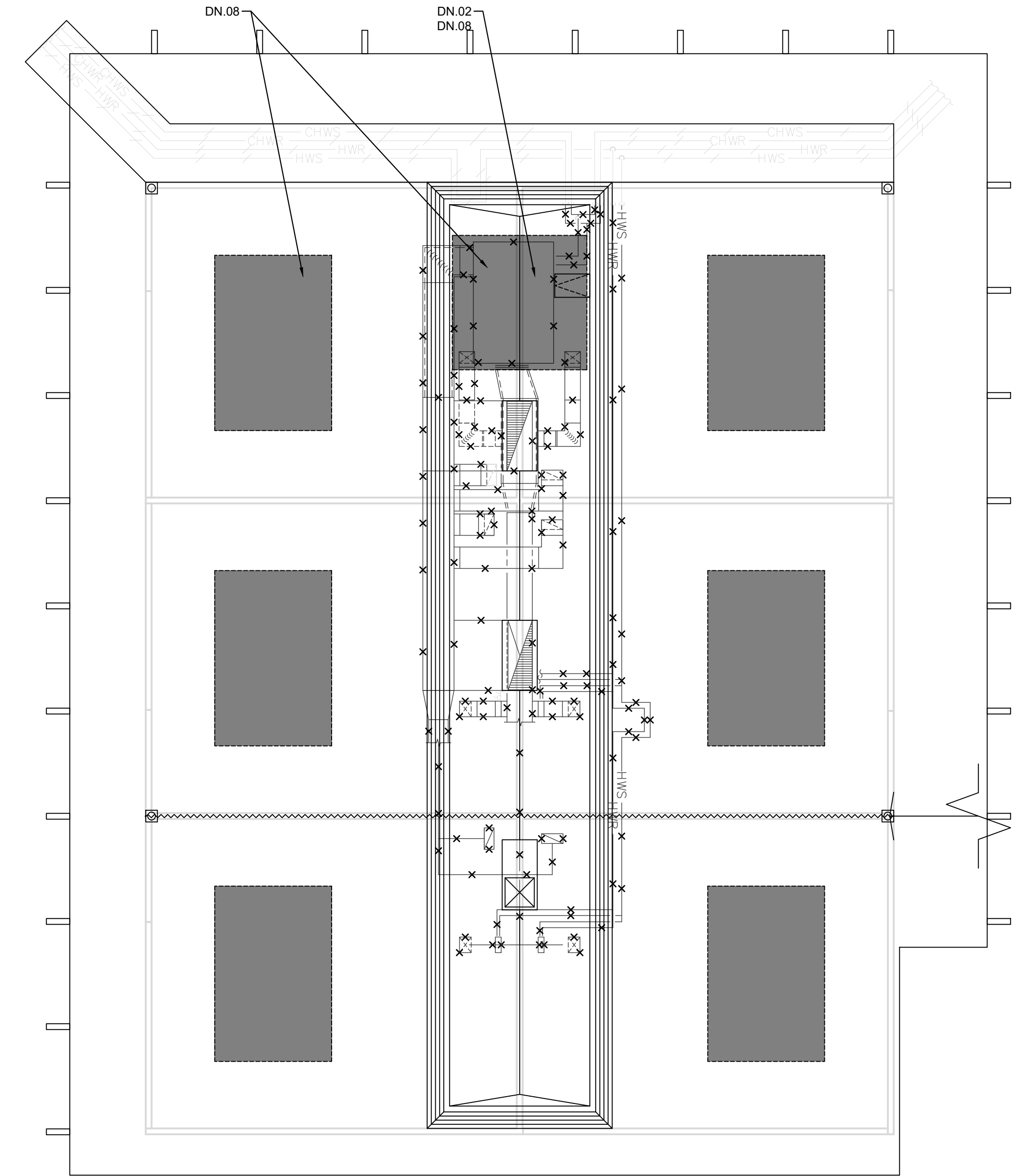
REMOVE (E) EQUIPMENT CURB.
- DN.10

REMOVE (E) CEILING FINISH MATERIALS.
- DN.11

REMOVE (E) BEAM AND CEILING FRAMING.
- DN.12

REMOVE (E) METAL ROOF MATERIAL AT MANSARD AT (N) EQUIPMENT CURB. SALVAGE FOR RE-INSTALLATION.
- DN.13

NOT USED



1

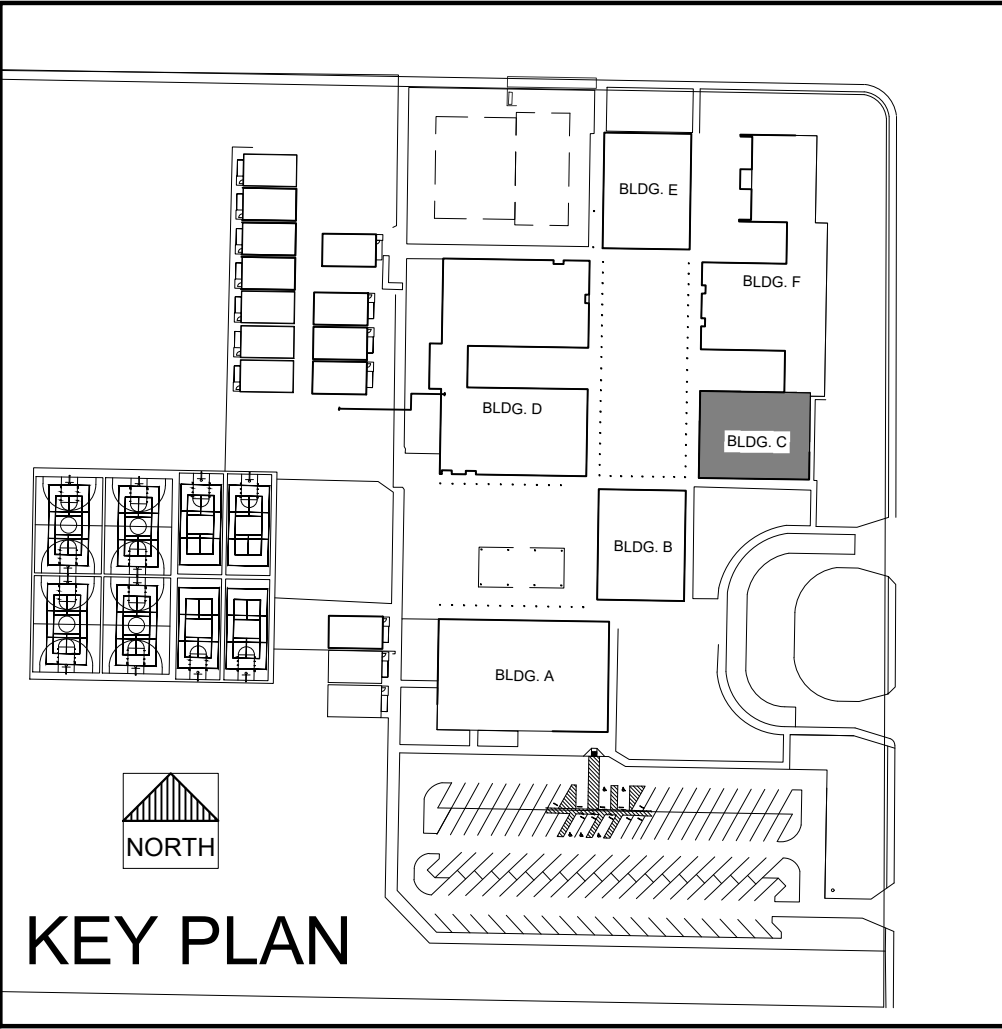
A2.1.C

DEMOLITION ROOF PLAN - BUILDING C

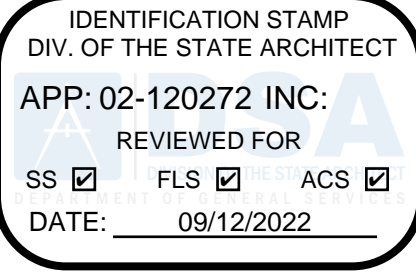
SCALE: 1/8" = 1'-0"

0 4' 16'
2' 8'

NORTH



KEY PLAN



730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DEMOLITION ROOF PLAN,
BUILDING C

CONSULTANT

PROJECT NO.	REVISIONS	BY
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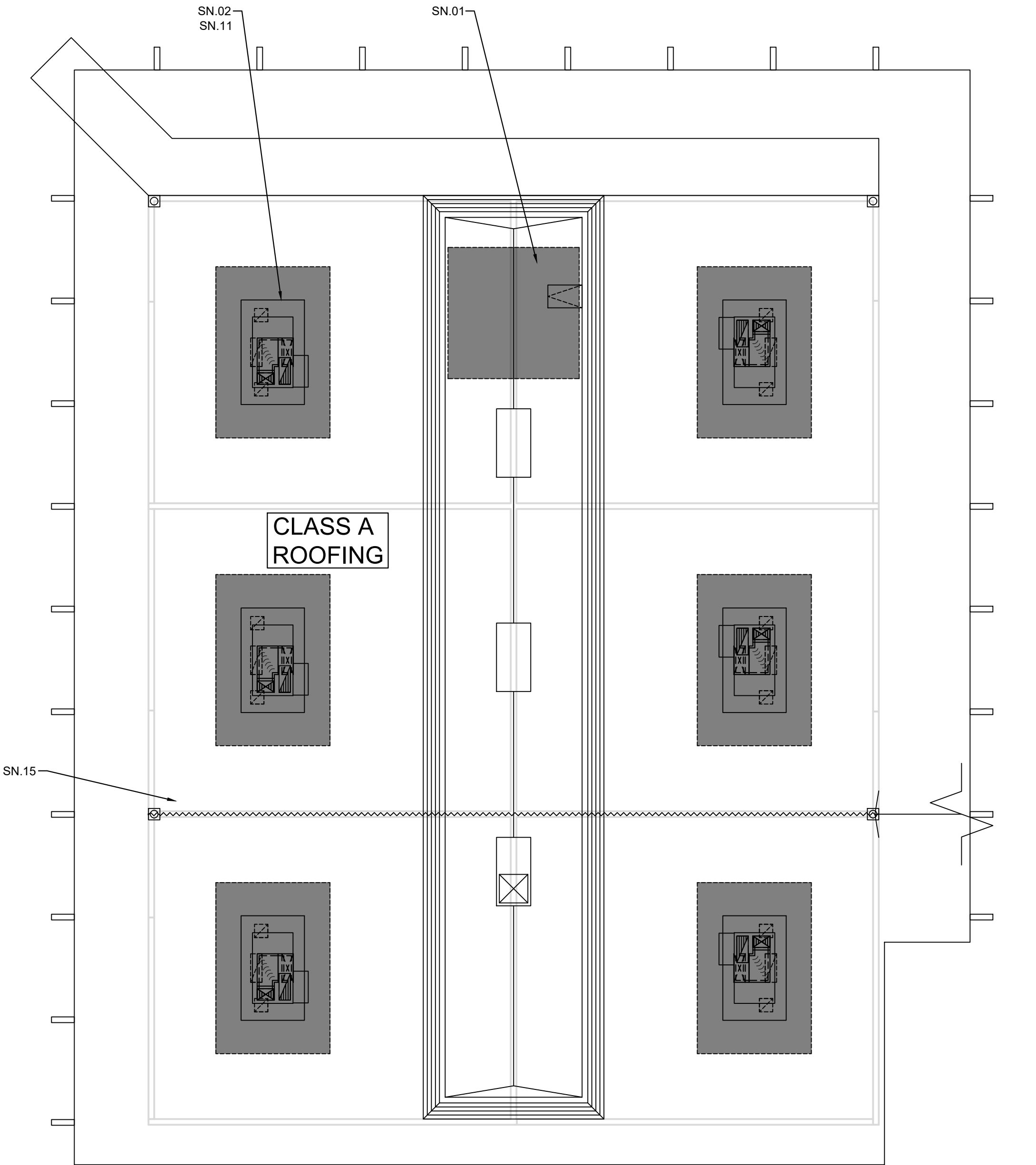
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GENERAL NOTES

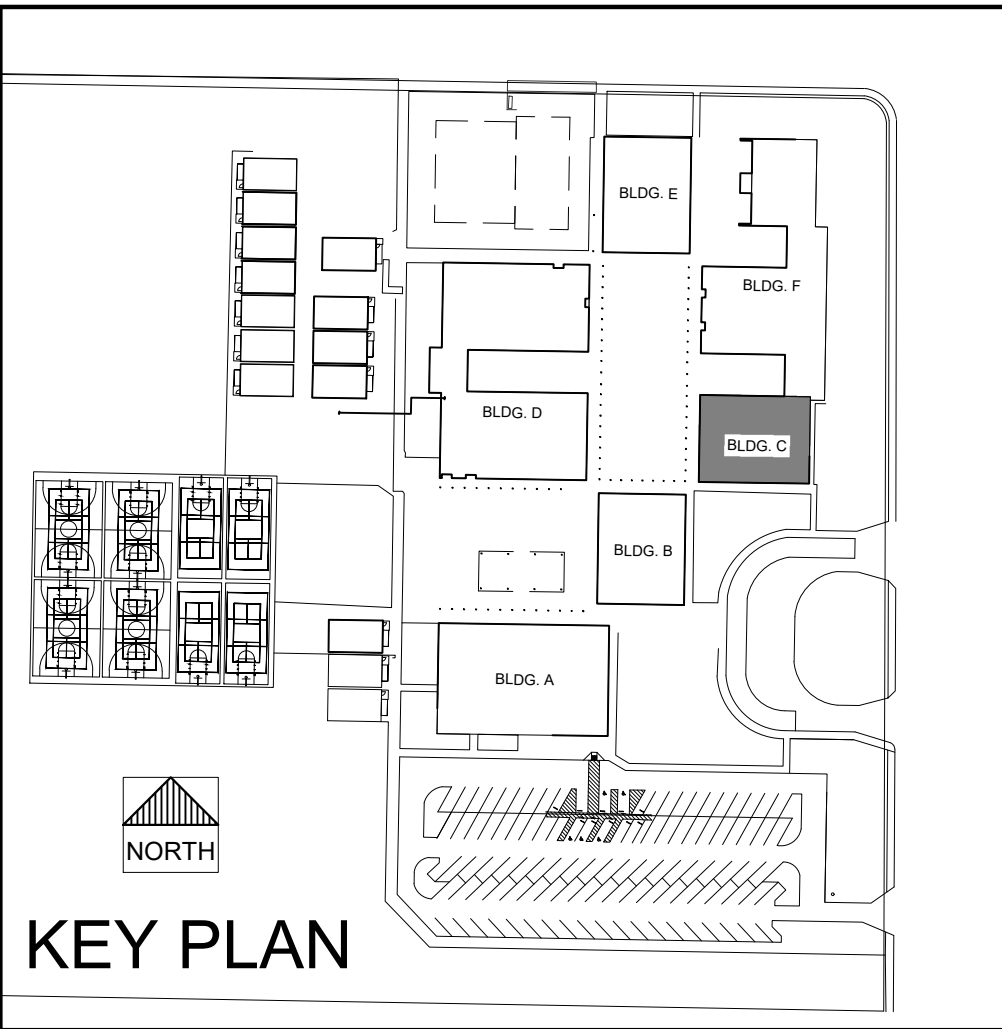
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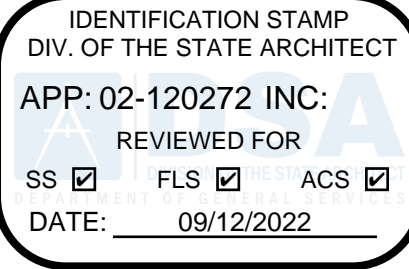
- (NOTE: NOT ALL NOTES MAY BE USED)
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- SN.03 RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN.04 IN-FILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN.05 INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.06 FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILINGS. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 1-6/54.0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
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- SN.11 PATCH AND REPAIR TPO ROOF WHERE EQUIPMENT, PIPE, CONDUIT, DUCT, ETC. HAS BEEN REMOVED, MOVED, REPLACED, RELOCATED, ETC. INSTALL (N) TPO ROOF FLASH, CAULK (N) AND (E) EQUIPMENT TO RESTORE, REPAIR AND WATERPROOF ROOF FOR ALL ROOF AREAS AFFECTED BY THIS WORK. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.12 CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN.13 RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.14 INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.15 EXISTING 2-HOUR AREA SEPARATION WALL.
- SN.16 REMOVE AND REPLACE AIR HVAC IN CLOSET BELOW. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.



1 ROOF PLAN - BUILDING C
A2.2.C SCALE: 1/8" = 1'-0" 0 4' 8' 2' 16'



KEY PLAN



730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



HVAC REPLACEMENT
LODI MIDDLE SCHOOL

ROOF PLAN -
BUILDING C

CONSULTANT

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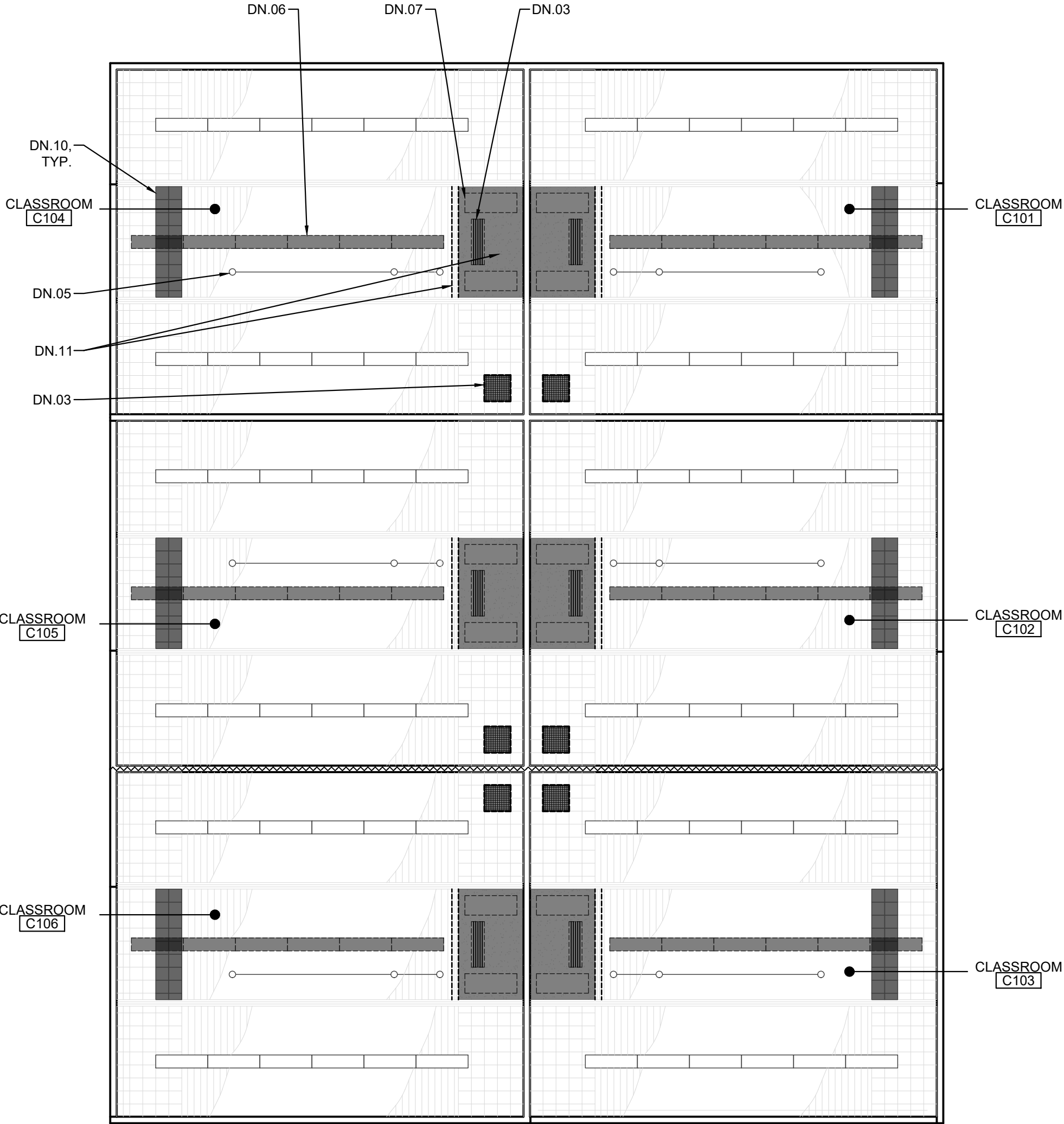
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GENERAL NOTES

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3. ALL NEW WORK INCLUDING SHEET METAL, TRIM, CEILINGS AND ALL OTHER NEW OR MODIFIED WORK SHALL BE PAINTED PER SPECIFICATION SECTION 09 91 10 WHETHER OR NOT CALLED OUT IN THE DRAWINGS.
4. EXISTING CLASSROOMS ARE NOT IDENTICAL IN REGARD TO QUANTITY OR LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING FLOORS, WALLS, DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOWS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE REMOVED AND TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
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DEMOLITION NOTES

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- DN.01 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.02 REMOVE (E) ROOF MATERIAL, ROOF HATCH AND ROOF FRAMING FOR ACCESS. REMOVE (E) MECHANICAL EQUIPMENT IN ATTIC SPACE. SALVAGE ROOF HATCH FOR RE-INSTALLATION. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.03 DISCONNECT AND REMOVE (E) MECHANICAL GRILLE AND DUCTWORK ABOVE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.04 NOT USED.
- DN.05 DISCONNECT AND REMOVE (E) ELECTRICAL WIRE, CONDUIT, EQUIPMENT, ETC. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.06 REMOVE (E) LIGHT FIXTURES AND SALVAGE FOR RE-INSTALLATION. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.07 REMOVE AND DISPOSE OF (E) LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.08 REMOVE (E) ROOFING MATERIAL.
- DN.09 REMOVE (E) EQUIPMENT CURB.
- DN.10 REMOVE (E) CEILING FINISH MATERIALS.
- DN.11 REMOVE (E) BEAM AND CEILING FRAMING.
- DN.12 REMOVE (E) METAL ROOF MATERIAL AT MANSARD AT (N) EQUIPMENT CURB. SALVAGE FOR RE-INSTALLATION.
- DN.13 NOT USED



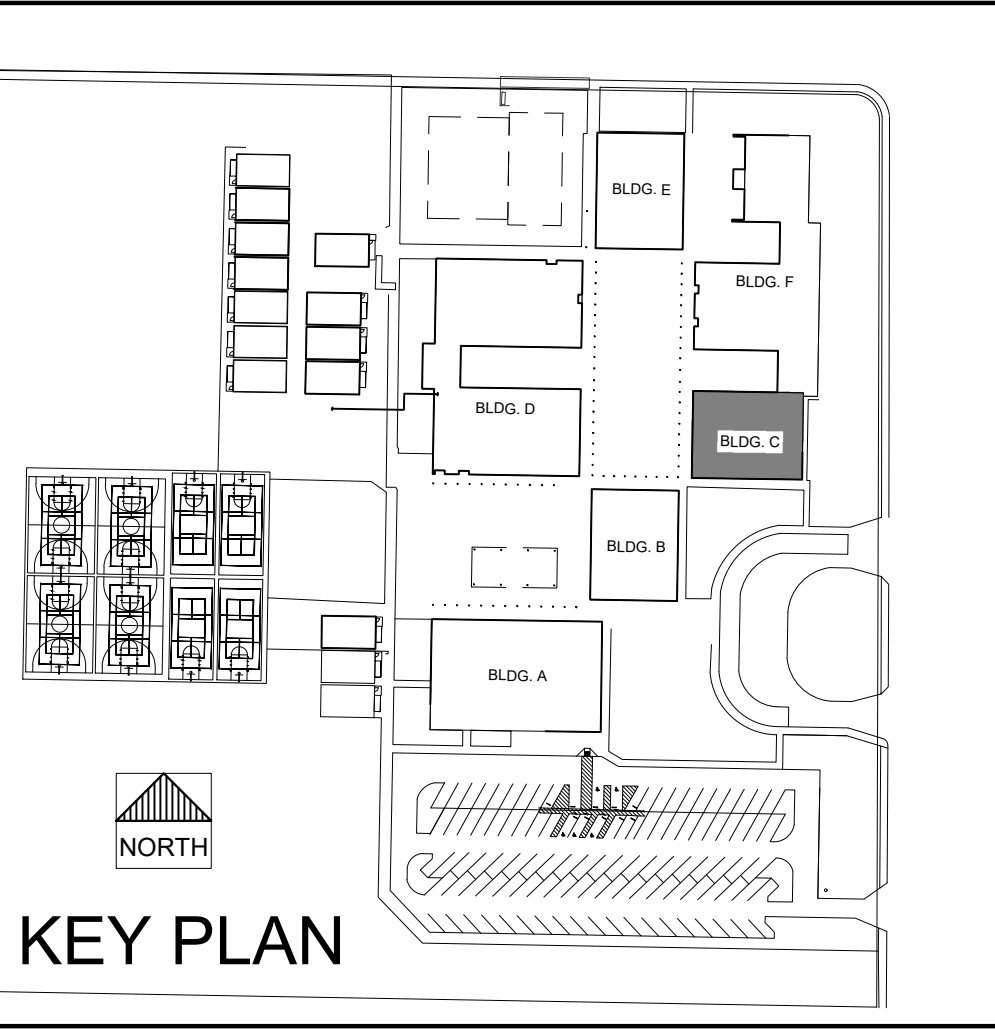
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DEMOLITION REFLECTED CEILING PLAN - BUILDING C

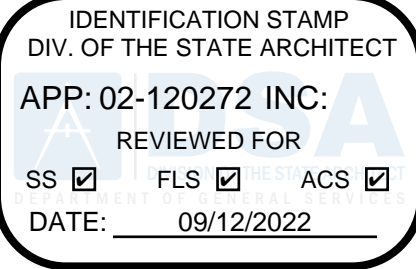
SCALE: 1/8" = 1'-0"

0 4' 16'
2' 8'

NORTH



KEY PLAN



730 Howe Avenue, Suite 450
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HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DEMOLITION
REFLECTED CEILING PLAN -
BUILDING C

CONSULTANT

PROJECT NO.	REVISIONS	BY
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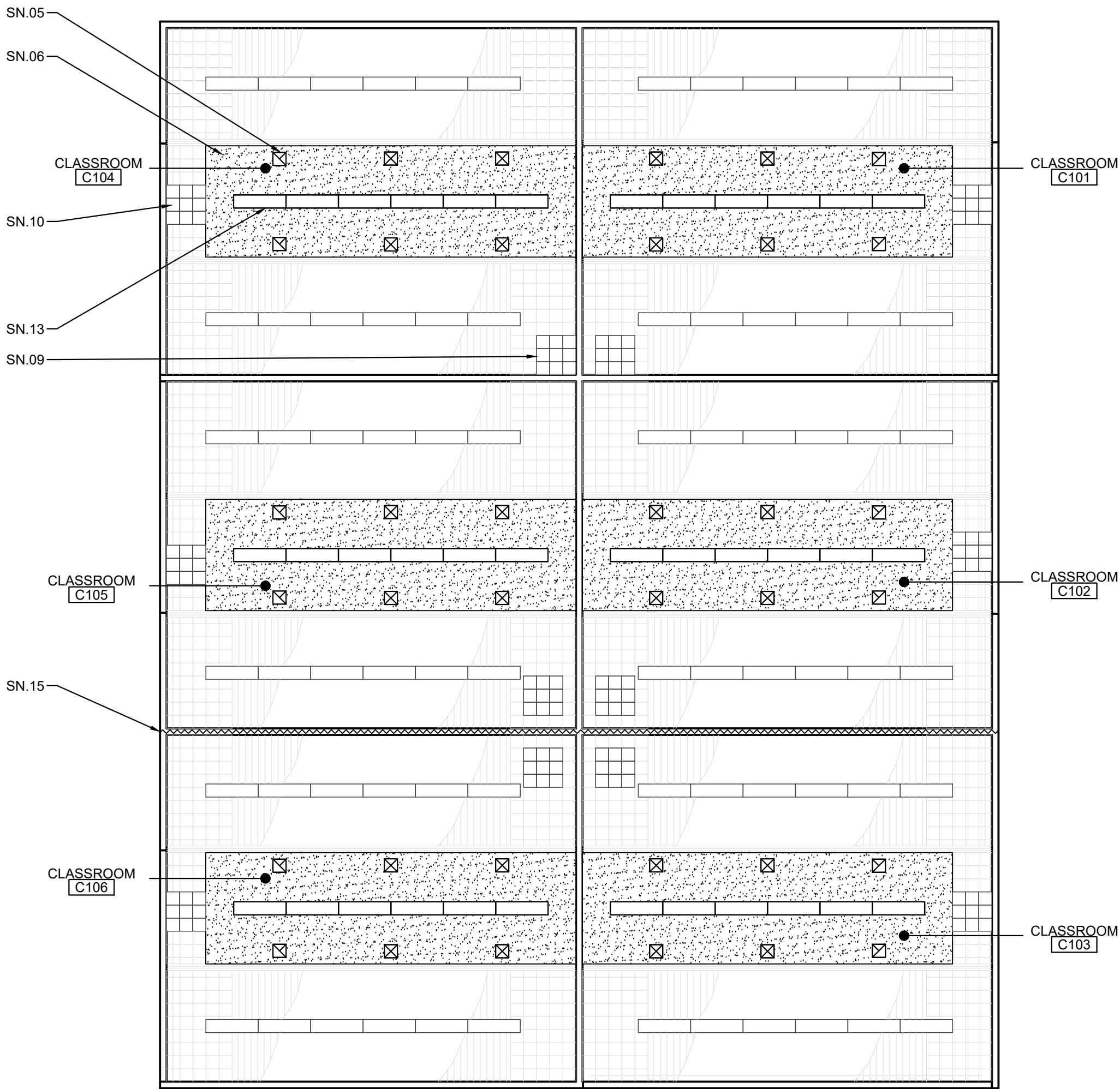
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GENERAL NOTES

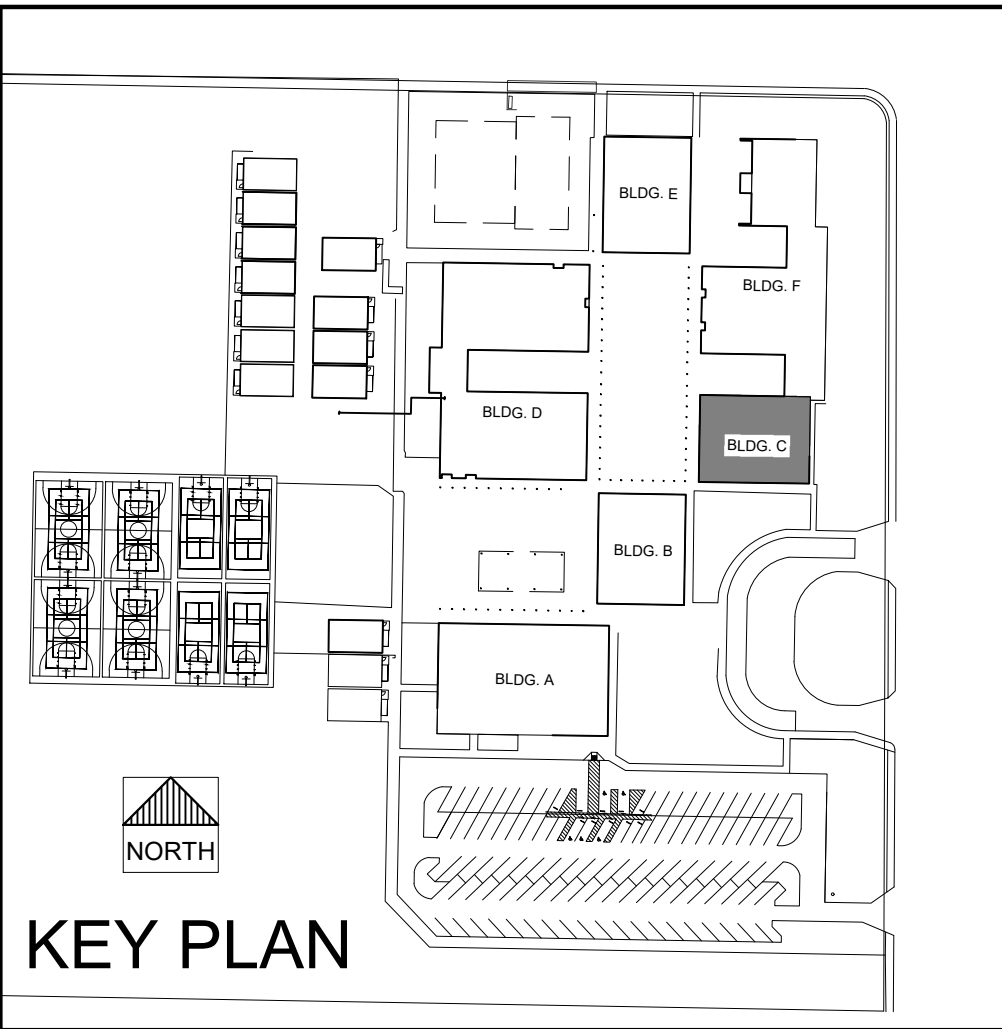
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SHEET NOTES

- (NOTE: NOT ALL NOTES MAY BE USED)
- SN.01 RE-FRAME ROOF AND ROOF HATCH OPENING. REINSTALL (E) SALVAGED ROOF HATCH. PATCH BACK TPO ROOF MATERIALS PER MANUFACTURER'S DETAILS AND SPECIFICATIONS. MANUFACTURER IS FIRESTONE BUILDING PRODUCTS LLC. MATERIAL IS 60-MIL TPO MEMBRANE. THE SAME MANUFACTURER AND MATERIAL MUST BE USED TO MAINTAIN WARRANTY.
- SN.02 FRAME (N) EQUIPMENT CURB AND INSTALL (N) HVAC EQUIPMENT. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. INSTALL (N) 60-MIL TPO ROOF AT (N) HVAC EQUIPMENT AND CURB. LAP (N) ROOF MATERIAL WITH (E) ROOF MATERIAL. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.03 RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN.04 IN-FILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN.05 INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.06 FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILING. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 1-6/54 0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.07 FRAME (N) OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.08 RE-FRAME OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.09 INFILL FRAME OPENINGS IN CEILINGS AND INSTALL GYPSUM BOARD OVER CLOSED OPENINGS. PATCH CEILING TILES. REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.10 PATCH CEILING TILES. REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.11 PATCH AND REPAIR TPO ROOF WHERE EQUIPMENT, PIPE, CONDUIT, DUCT, ETC. HAS BEEN REMOVED, MOVED, REPLACED, RELOCATED, ETC. INSTALL (N) TPO ROOF. FLASH, CAULK (N) AND (E) EQUIPMENT TO RESTORE, REPAIR AND WATERPROOF ROOF FOR ALL ROOF AREAS AFFECTED BY THIS WORK. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.12 CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN.13 RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.14 INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
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1 REFLECTED CEILING PLAN - BUILDING C
A2.4.C SCALE: 1/8" = 1'-0" 0 4' 8' 16' NORTH



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212

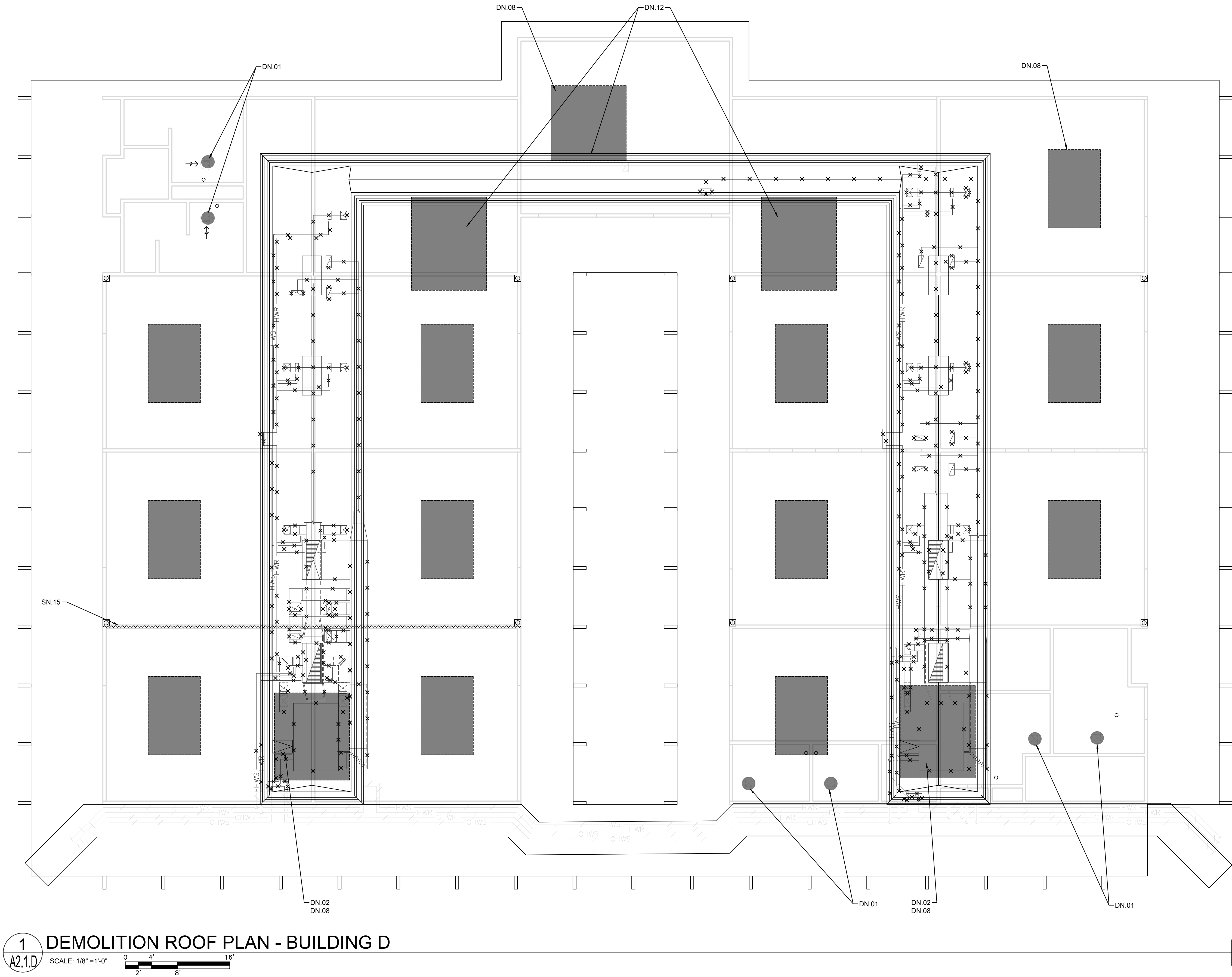


HVAC REPLACEMENT
LODI MIDDLE SCHOOL
REFLECTED CEILING PLAN -
BUILDING C

CONSULTANT

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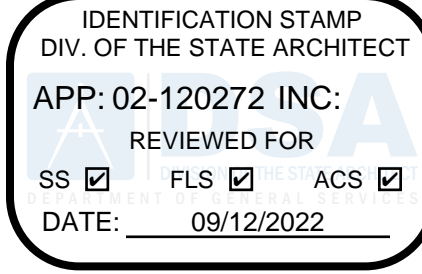
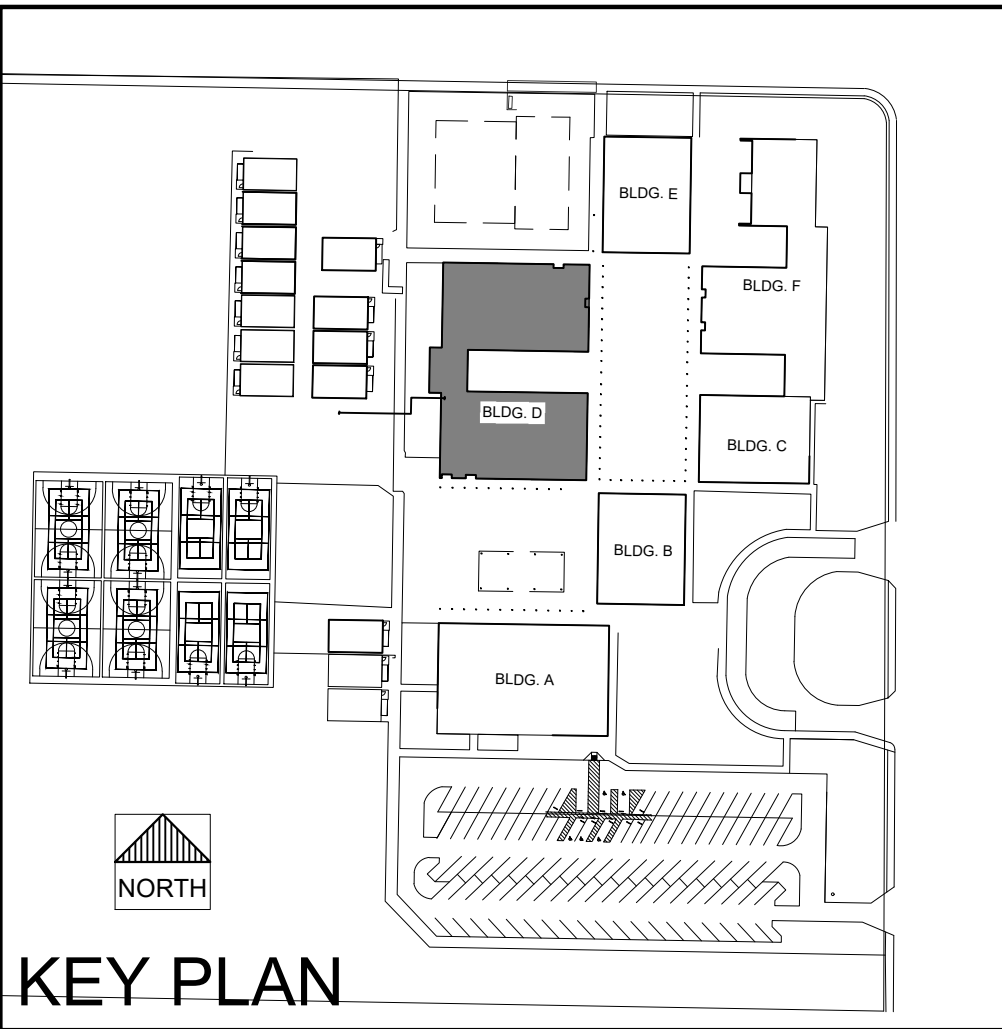


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- DN.13 NOT USED



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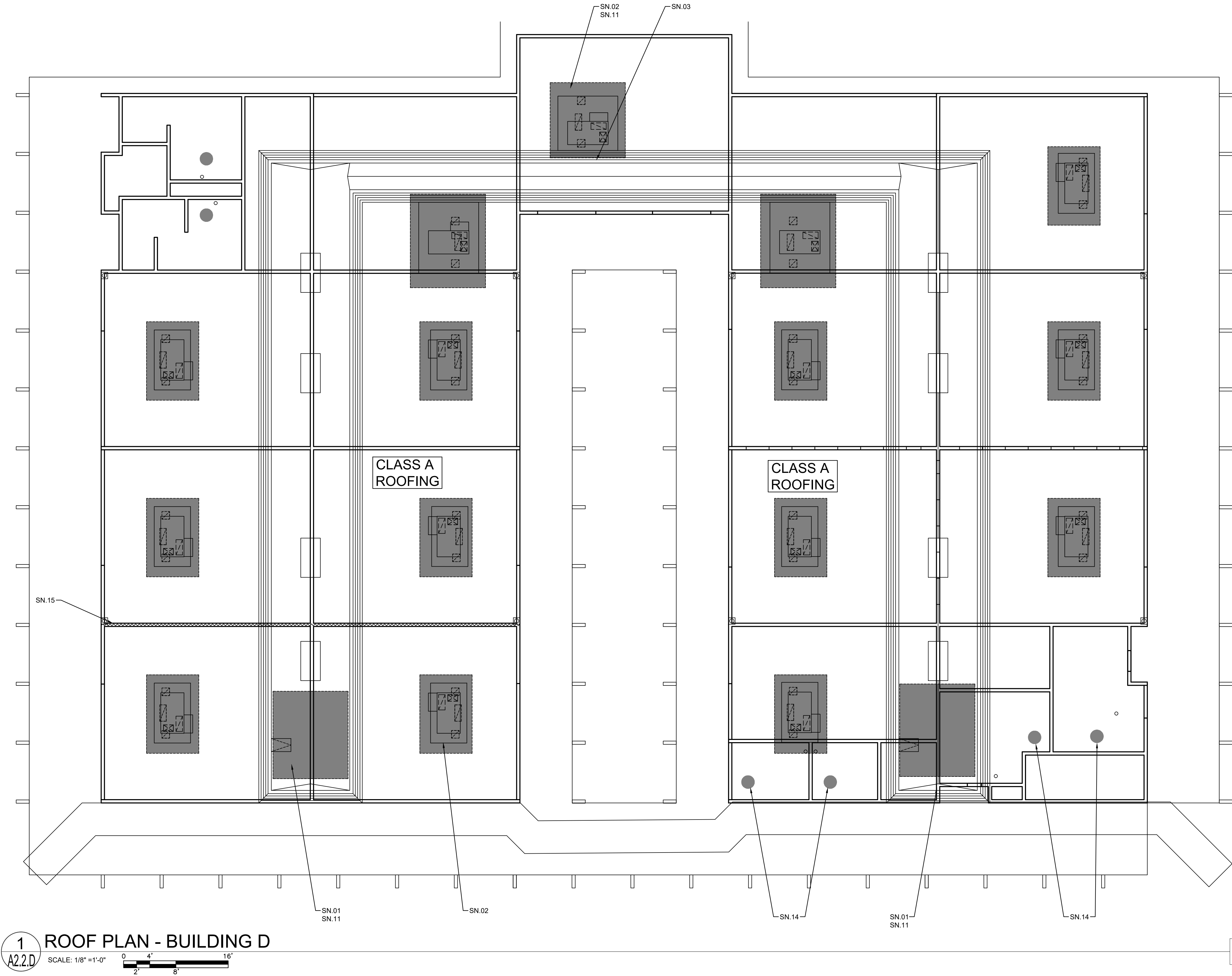
HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DEMOLITION ROOF PLAN -
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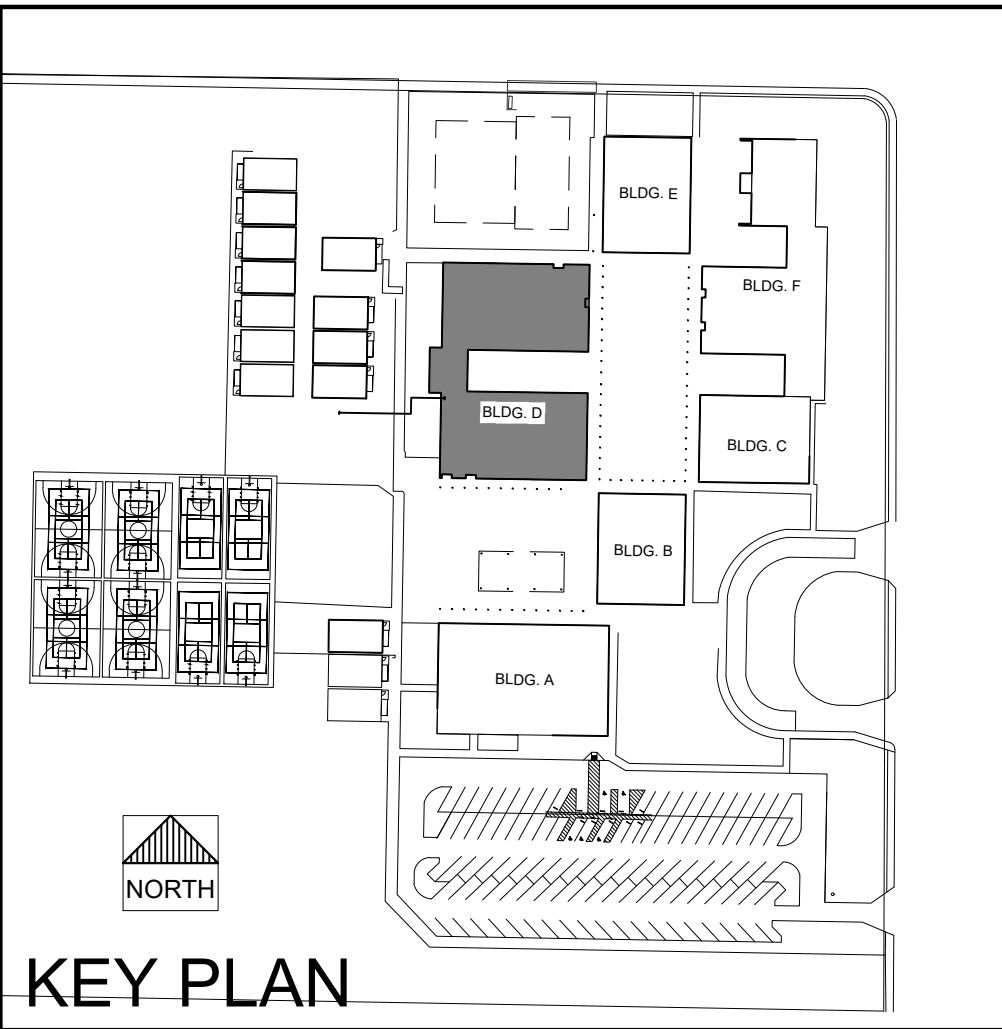


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ROOF PLAN -
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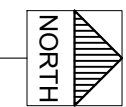
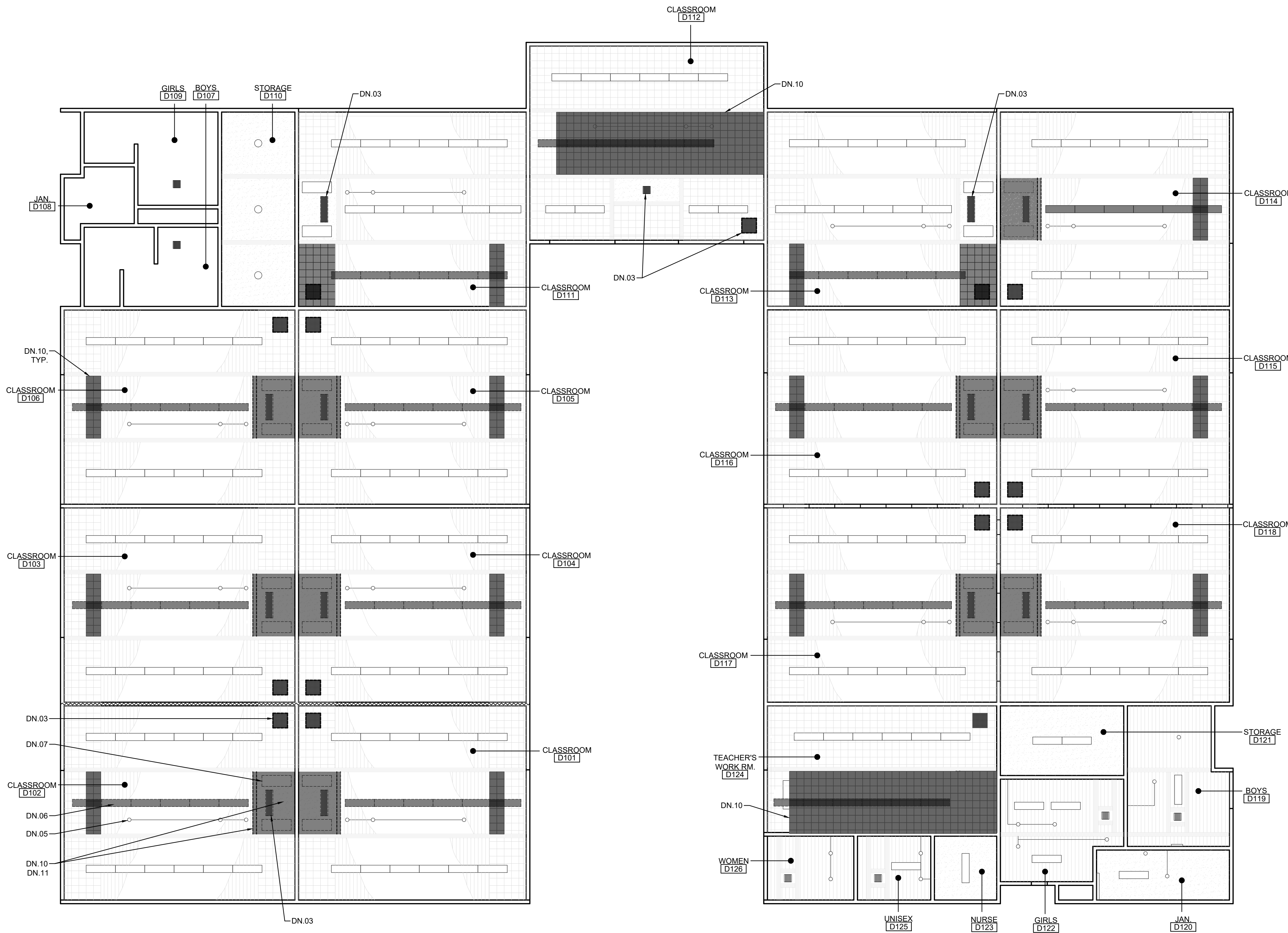
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DEMOLITION REFLECTED CEILING PLAN - BUILDING D

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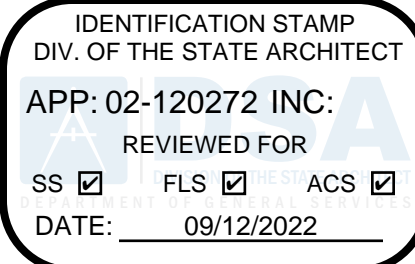
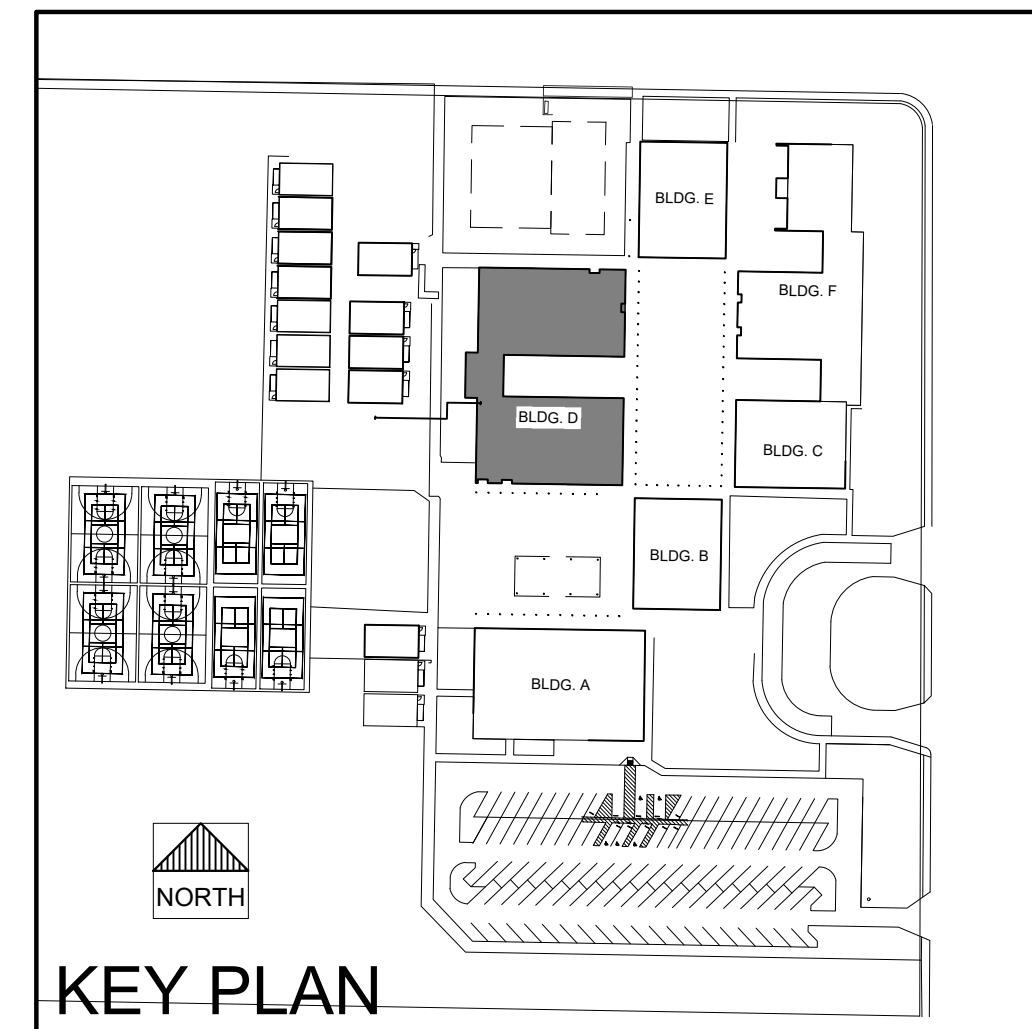
GENERAL NOTES

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2. ALL EXPOSED GALVANIZED SHEET METAL SHALL BE PROPERLY CLEANED, ETCHED, PRIMED AND PAINTED PER SPECIFICATION SECTION 09 91 13.
3. ALL NEW WORK INCLUDING SHEET METAL, TRIM, CEILINGS AND ALL OTHER NEW OR MODIFIED WORK SHALL BE PAINTED PER SPECIFICATION SECTION 09 91 10 WHETHER OR NOT CALLED OUT IN THE DRAWINGS.
4. EXISTING CLASSROOMS ARE NOT IDENTICAL IN REGARD TO QUANTITY OR LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING FLOORS, WALLS, DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOWS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE REMOVED AND TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
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DEMOLITION NOTES

NOTE: NOT ALL NOTES MAY BE USED

- DN.01 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.02 REMOVE (E) ROOF MATERIAL, ROOF HATCH AND ROOF FRAMING FOR ACCESS. REMOVE (E) MECHANICAL EQUIPMENT IN ATTIC SPACE. SALVAGE ROOF HATCH FOR RE-INSTALLATION. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.03 DISCONNECT AND REMOVE (E) MECHANICAL GRILLE AND DUCTWORK ABOVE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.04 NOT USED.
- DN.05 DISCONNECT AND REMOVE (E) ELECTRICAL WIRE, CONDUIT, EQUIPMENT, ETC. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.06 REMOVE (E) LIGHT FIXTURES AND SALVAGE FOR RE-INSTALLATION. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.07 REMOVE AND DISPOSE OF (E) LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.08 REMOVE (E) ROOFING MATERIAL.
- DN.09 REMOVE (E) EQUIPMENT CURB.
- DN.10 REMOVE (E) CEILING FINISH MATERIALS.
- DN.11 REMOVE (E) BEAM AND CEILING FRAMING.
- DN.12 REMOVE (E) METAL ROOF MATERIAL AT MANSARD AT (N) EQUIPMENT CURB. SALVAGE FOR RE-INSTALLATION.
- DN.13 NOT USED



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HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DEMOLITION
REFLECTED CEILING PLAN -
BUILDING D

CONSULTANT

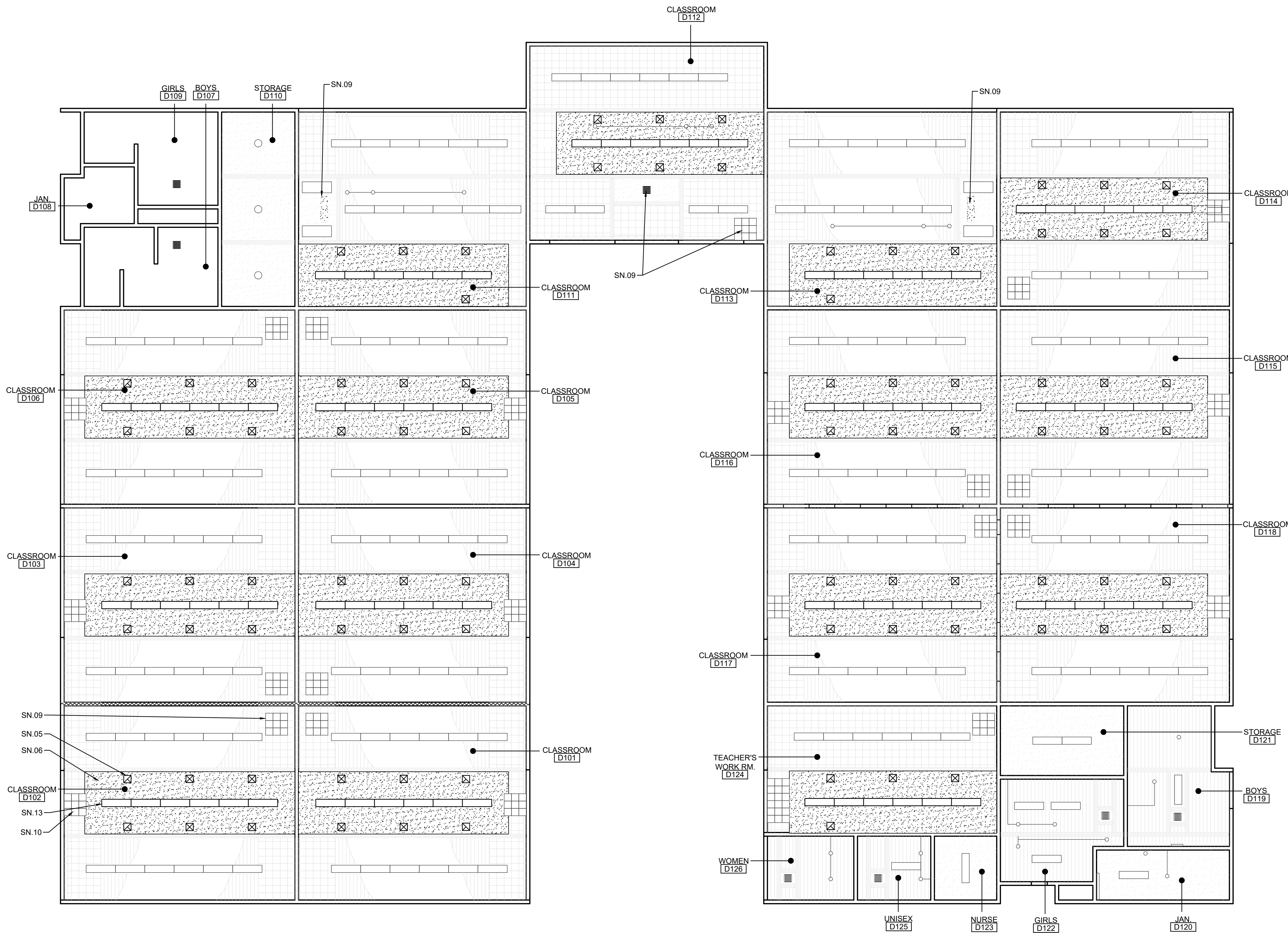
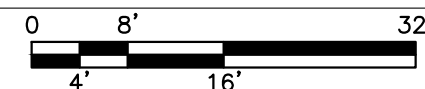
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REFLECTED CEILING PLAN - BUILDING D

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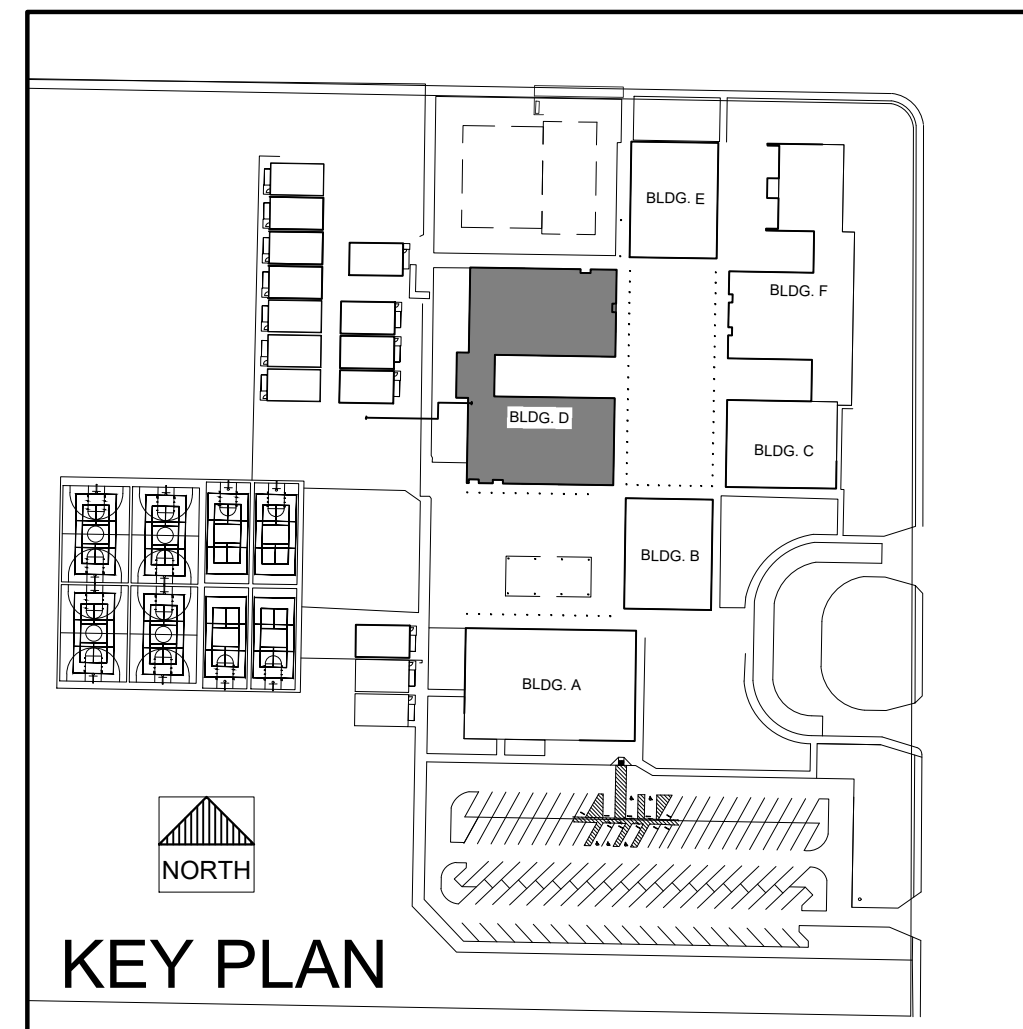
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2. ALL EXPOSED GALVANIZED SHEET METAL SHALL BE PROPERLY CLEANED, ETCHED, PRIMED AND PAINTED PER SPECIFICATION SECTION 09 91 13.
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SHEET NOTES

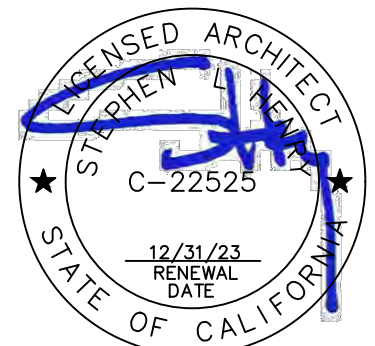
(NOTE: NOT ALL NOTES MAY BE USED)

- SN 01 RE-FRAME ROOF AND ROOF HATCH OPENING, REINSTALL (E) SALVAGED ROOF HATCH, PATCH BACK TPO ROOF MATERIALS PER MANUFACTURER'S DETAILS AND SPECIFICATIONS. MANUFACTURER IS FIRESTONE BUILDING PRODUCTS LLC. MATERIAL IS 60-MIL TPO MEMBRANE. THE SAME MANUFACTURER AND MATERIAL MUST BE USED TO MAINTAIN WARRANTY.
- SN 02 FRAME (N) EQUIPMENT CURB AND INSTALL (N) HVAC EQUIPMENT. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. INSTALL (N) 60-MIL TPO ROOF AT (N) HVAC EQUIPMENT AND CURB. LAP (N) ROOF MATERIAL WITH (E) ROOF MATERIAL. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN 03 RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN 04 IN-FILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN 05 INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN 06 FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILING. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 1-6/84.0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN 07 FRAME (N) OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN 08 RE-FRAME OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN 09 INFILL FRAME OPENINGS IN CEILINGS AND INSTALL GYPSUM BOARD OVER CLOSED OPENINGS. PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN 10 PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN 11 PATCH AND REPAIR TPO ROOF WHERE EQUIPMENT, PIPE, CONDUIT, DUCT, ETC. HAS BEEN REMOVED, MOVED, REPLACED, RELOCATED, ETC. INSTALL (N) TPO ROOF, FLASH, CAULK (N) AND (E) EQUIPMENT TO RESTORE, REPAIR AND WATERPROOF ROOF FOR ALL ROOF AREAS AFFECTED BY THIS WORK. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN 12 CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN 13 RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN 14 INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN 15 EXISTING 2-HOUR AREA SEPARATION WALL.
- SN 16 REMOVE AND REPLACE AIR HVAC IN CLOSET BELOW. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



HVAC REPLACEMENT
LODI MIDDLE SCHOOL

REFLECTED CEILING PLAN -
BUILDING D

CONSULTANT

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1. IN GENERAL, THE DRAWINGS S

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DEMOLITION NOTES

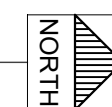
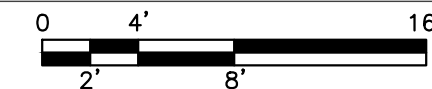
NOTE: NOT ALL NOTES MAY BE USED

DN.13 NOT USED



DEMOLITION ROOF PLAN - BUILDING E

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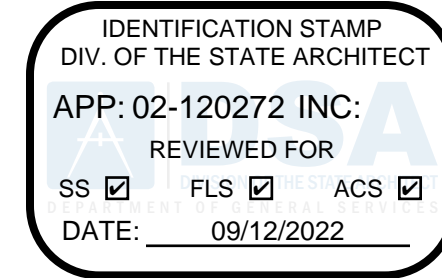
HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DEMOLITION ROOF PLAN - BUILDING E

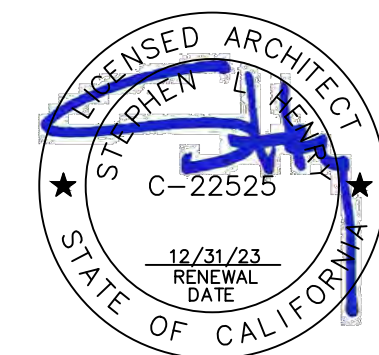
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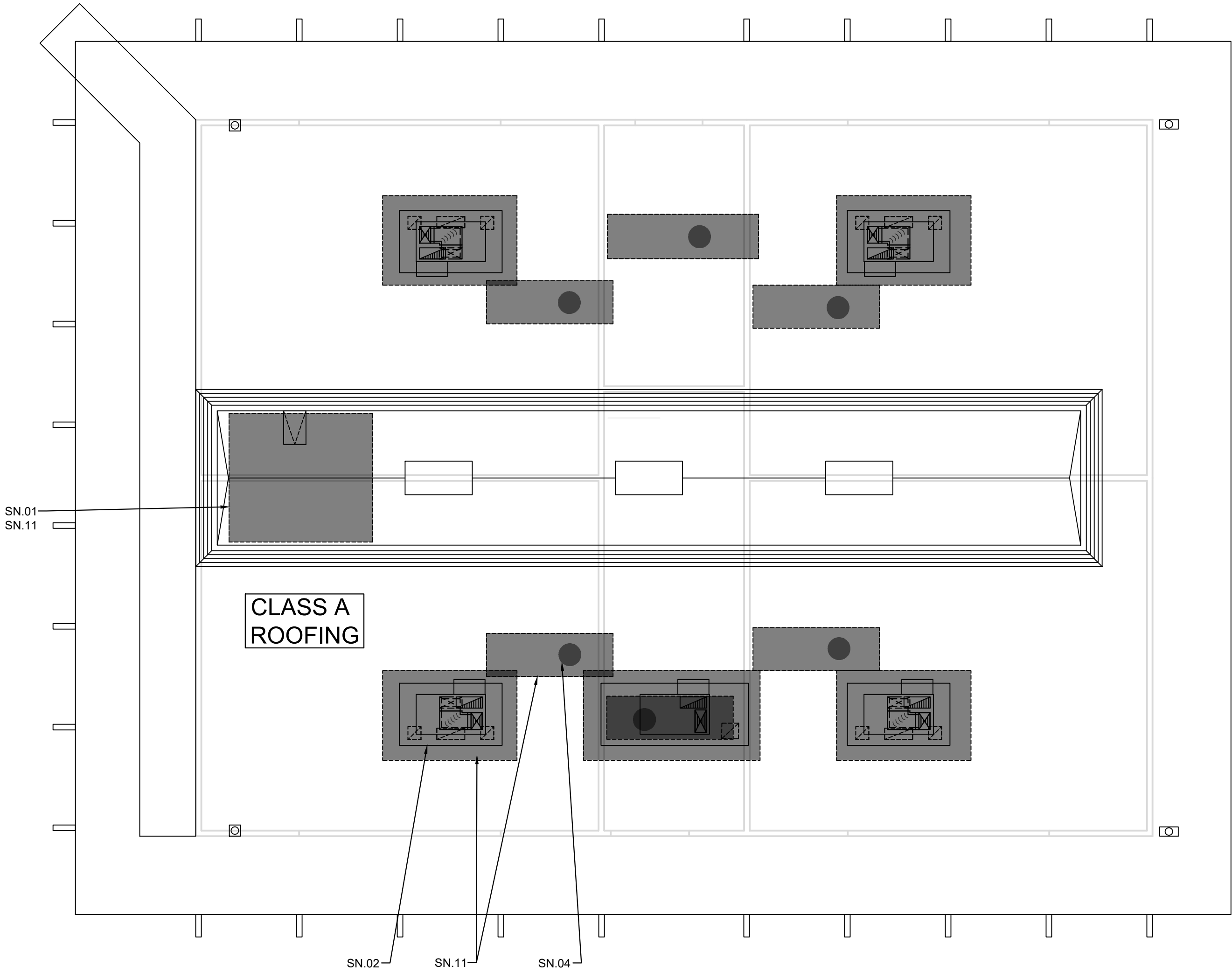


GENERAL NOTES

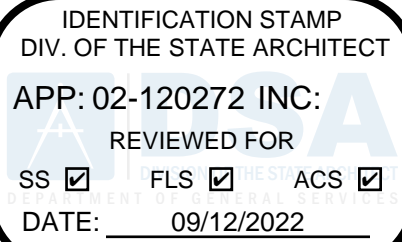
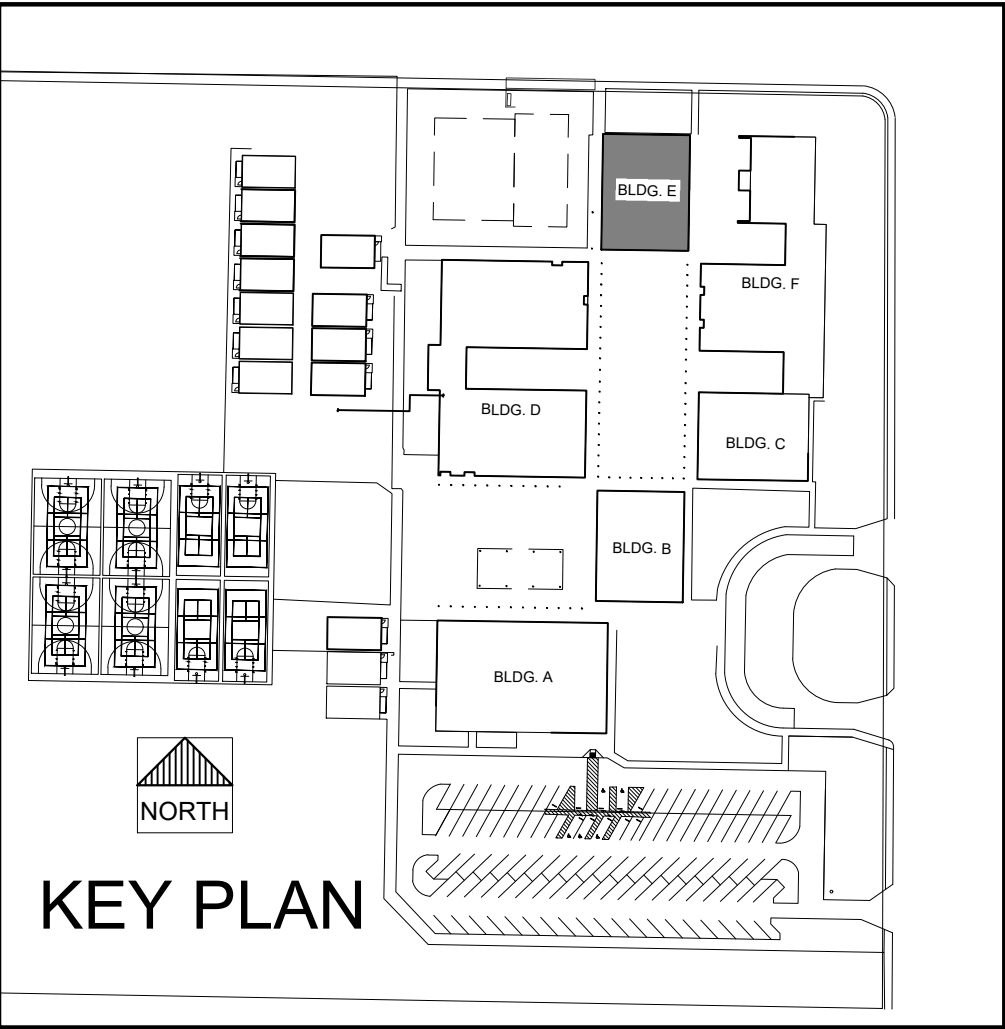
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- SN.02 FRAME (N) EQUIPMENT CURB AND INSTALL (N) HVAC EQUIPMENT. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. INSTALL (N) 60-MIL TPO ROOF AT (N) HVAC EQUIPMENT AND CURB. LAP (N) ROOF MATERIAL WITH (E) ROOF MATERIAL. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.03 RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN.04 IN-FILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN.05 INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.06 FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILING. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 1-6/54.0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.07 FRAME (N) OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.08 RE-FRAME OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.09 INFILL FRAME OPENINGS IN CEILINGS AND INSTALL GYPSUM BOARD OVER CLOSED OPENINGS. PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.10 PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.11 PATCH AND REPAIR TPO ROOF WHERE EQUIPMENT, PIPE, CONDUIT, DUCT, ETC. HAS BEEN REMOVED, MOVED, REPLACED, RELOCATED, ETC. INSTALL (N) TPO ROOF, FLASH, CAULK (N) AND (E) EQUIPMENT TO RESTORE, REPAIR AND WATERPROOF ROOF. PATCH ALL ROOF AREAS AFFECTED BY THIS WORK. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.12 CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN.13 RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.14 INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.15 EXISTING 2-HOUR AREA SEPARATION WALL.
- SN.16 REMOVE AND REPLACE AIR HVAC IN CLOSET BELOW. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.



1 ROOF PLAN - BUILDING E
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ROOF PLAN - BUILDING E

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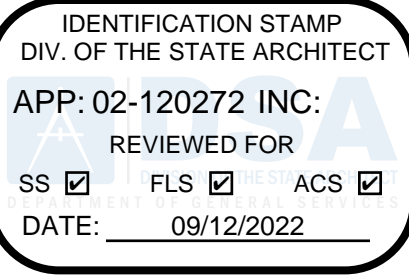
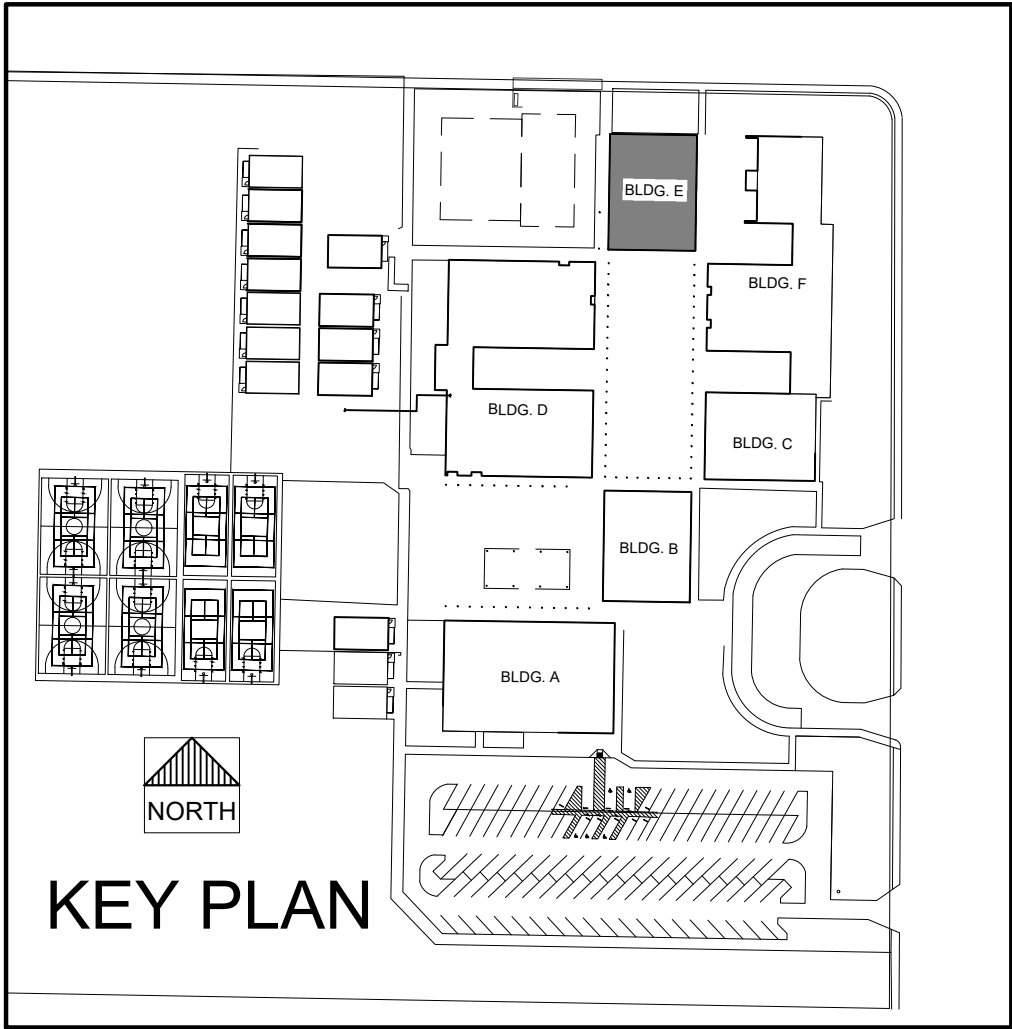
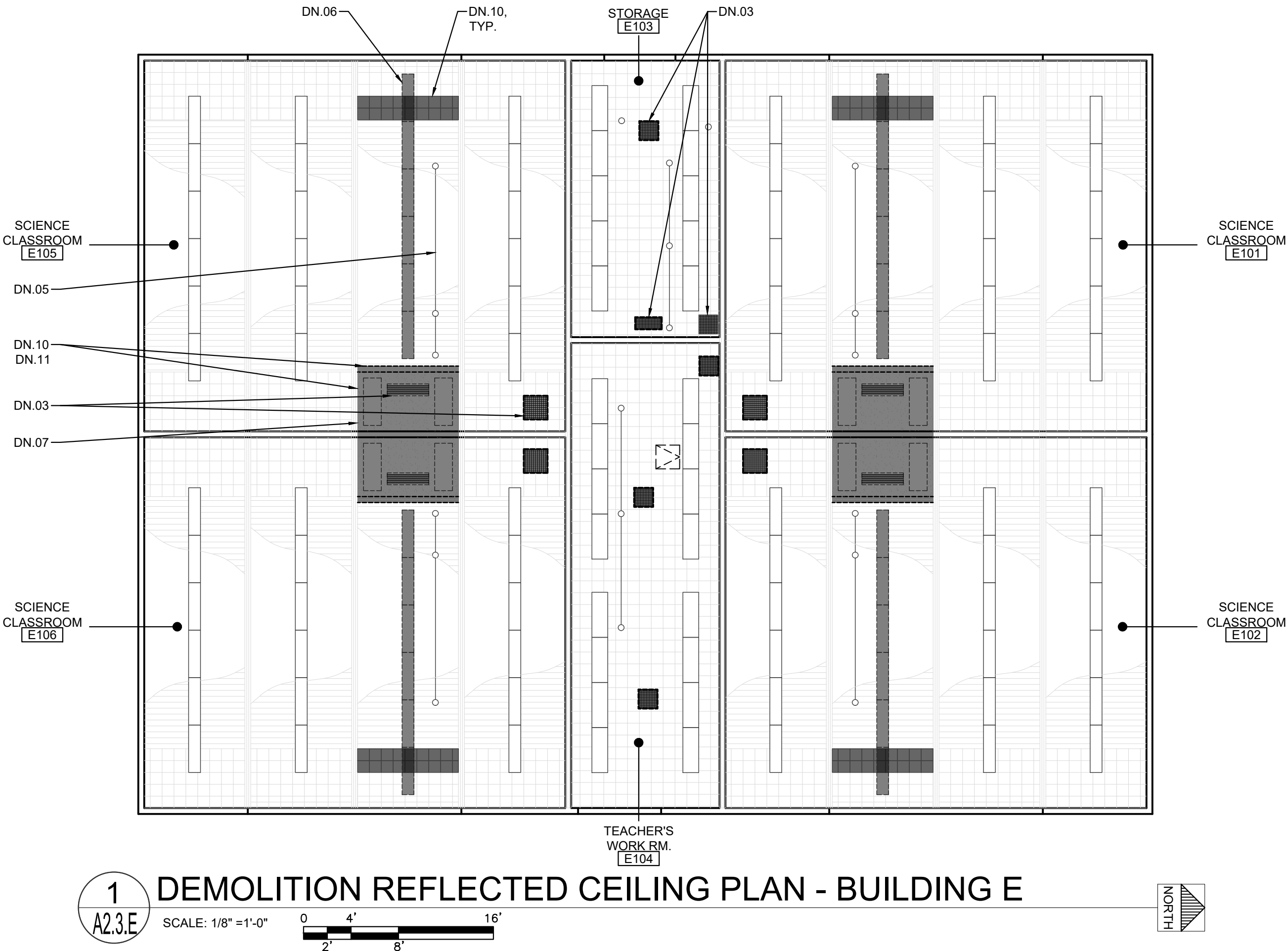
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- DN.02 REMOVE (E) ROOF MATERIAL, ROOF HATCH AND ROOF FRAMING FOR ACCESS. REMOVE (E) MECHANICAL EQUIPMENT IN ATTIC SPACE. SALVAGE ROOF HATCH FOR RE-INSTALLATION. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.03 DISCONNECT AND REMOVE (E) MECHANICAL GRILLE AND DUCTWORK ABOVE. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.04 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT AND CURB. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.05 DISCONNECT AND REMOVE (E) ELECTRICAL WIRE, CONDUIT, EQUIPMENT, ETC. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.06 REMOVE (E) LIGHT FIXTURES AND SALVAGE FOR RE-INSTALLATION. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.07 REMOVE AND DISPOSE OF (E) LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.08 REMOVE (E) ROOFING MATERIAL.
- DN.09 REMOVE (E) EQUIPMENT CURB.
- DN.10 REMOVE (E) CEILING FINISH MATERIALS.
- DN.11 REMOVE (E) BEAM AND CEILING FRAMING.
- DN.12 REMOVE (E) METAL ROOF MATERIAL AT MANSARD AT (N) EQUIPMENT CURB. SALVAGE FOR RE-INSTALLATION.
- DN.13 NOT USED



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HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DEMOLITION
REFLECTED CEILING PLAN -
BUILDING E

CONSULTANT		
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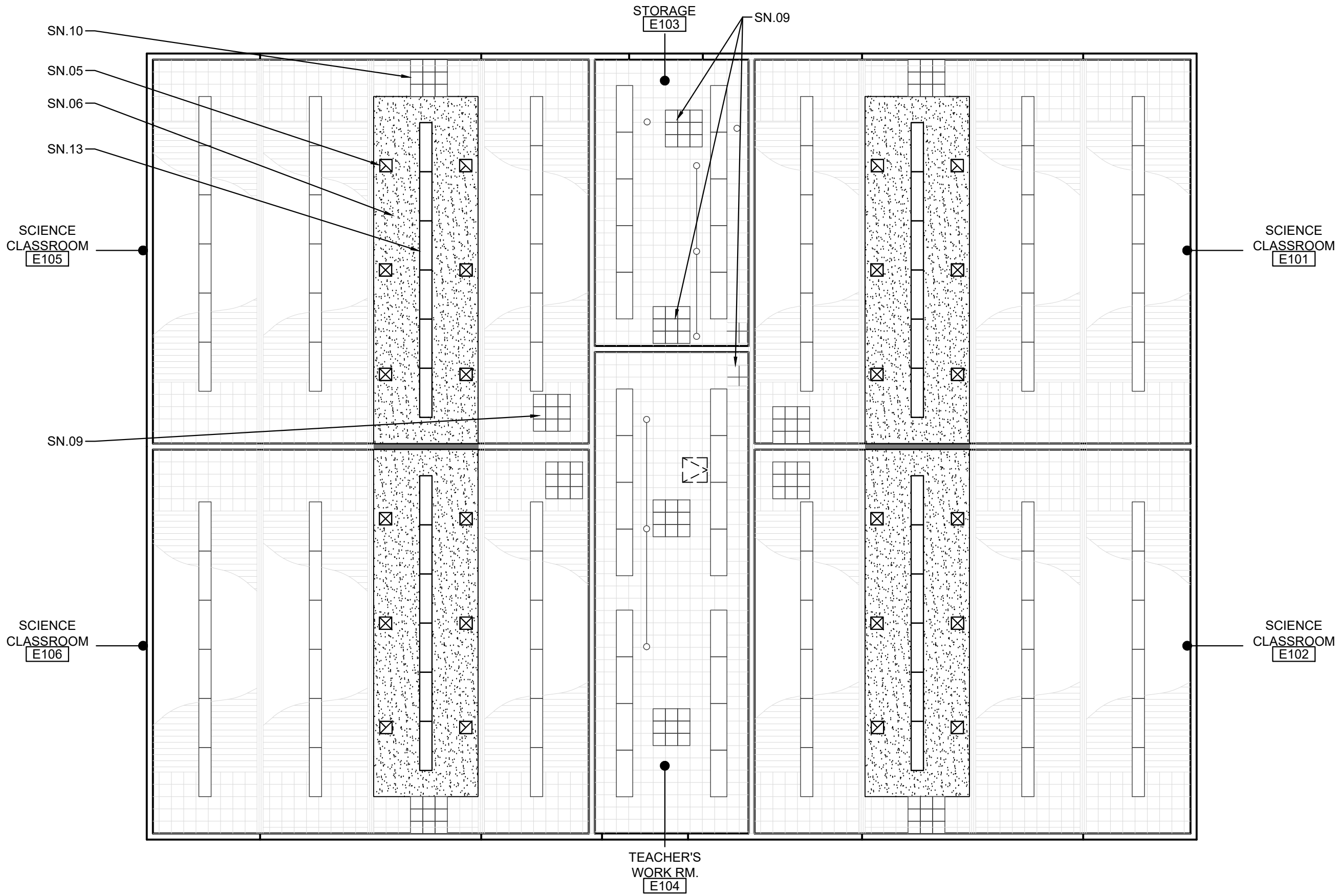
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GENERAL NOTES

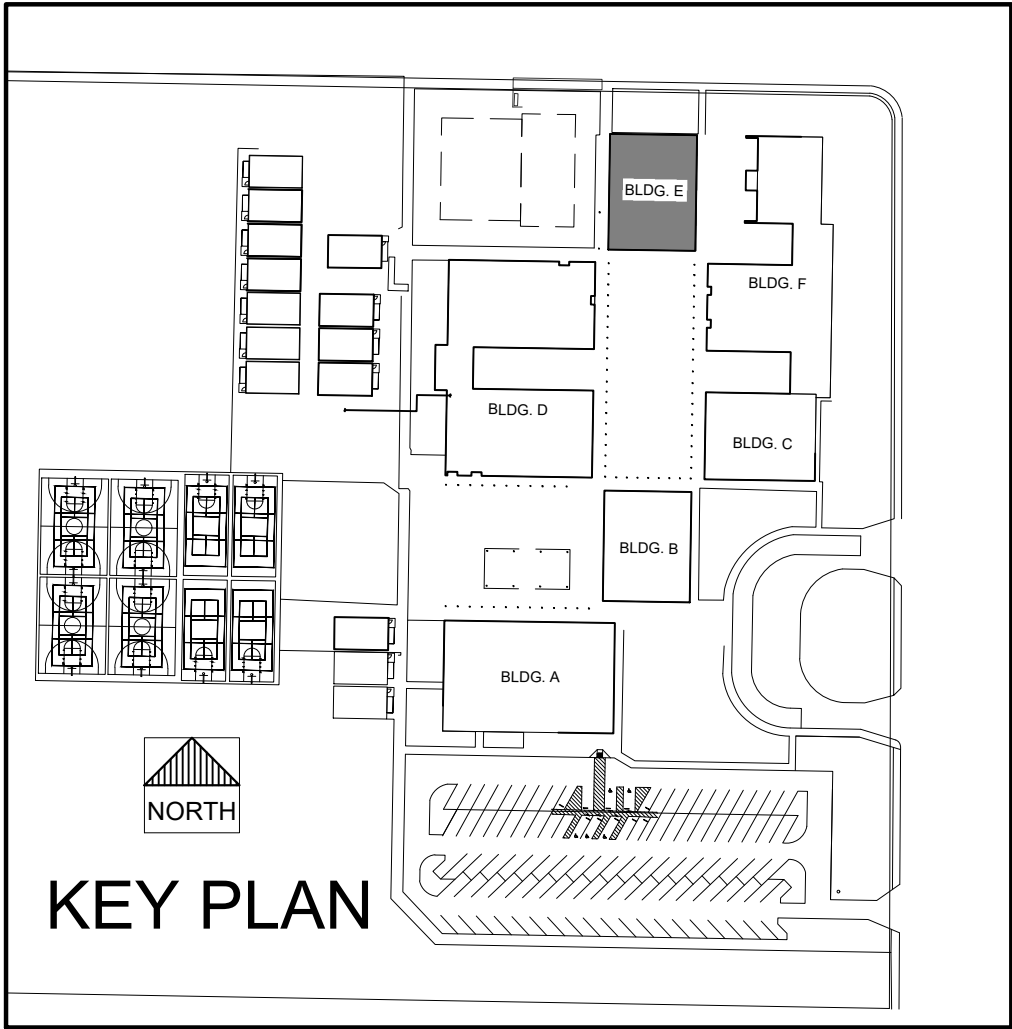
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3. ALL NEW WORK INCLUDING SHEET METAL, TRIM, CEILINGS AND ALL OTHER NEW OR MODIFIED WORK SHALL BE PAINTED PER SPECIFICATION SECTION 09 91 10 WHETHER OR NOT CALLED OUT IN THE DRAWINGS.
4. EXISTING CLASSROOMS ARE NOT IDENTICAL IN REGARD TO QUANTITY OR LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING FLOORS, WALLS, DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOWS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE REMOVED AND TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
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SHEET NOTES

- (NOTE: NOT ALL NOTES MAY BE USED)
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- SN.02 FRAME (N) EQUIPMENT CURB AND INSTALL (N) HVAC EQUIPMENT. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. INSTALL (N) 60-MIL TPO ROOF AT (N) HVAC EQUIPMENT AND CURB. LAP (N) ROOF MATERIAL WITH (E) ROOF MATERIAL. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.03 RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN.04 IN-FILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN.05 INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.06 FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILING. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 14084.0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.07 FRAME (N) OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.08 RE-FRAME OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.09 INFILL FRAME OPENINGS IN CEILINGS AND INSTALL GYPSUM BOARD OVER CLOSED OPENINGS. PATCH CEILING TILES, REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.10 PATCH CEILING TILES. REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.11 PATCH AND REPAIR TPO ROOF WHERE EQUIPMENT, PIPE, CONDUIT, DUCT, ETC. HAS BEEN REMOVED, MOVED, REPLACED, RELOCATED, ETC. INSTALL (N) TPO ROOF, FLASH, GULCH (N) AND (E) EQUIPMENT TO RESTORE, REPAIR AND WATERPROOF ROOF FOR ALL ROOF AREAS AFFECTED BY THIS WORK. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.12 CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN.13 RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.14 INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.15 EXISTING 2-HOUR AREA SEPARATION WALL.
- SN.16 REMOVE AND REPLACE AIR HVAC IN CLOSET BELOW. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.



1 REFLECTED CEILING PLAN - BUILDING E
A2.4.E SCALE: 1/8" = 1'-0"



KEY PLAN

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



HVAC REPLACEMENT
LODI MIDDLE SCHOOL
REFLECTED CEILING PLAN -
BUILDING E

CONSULTANT

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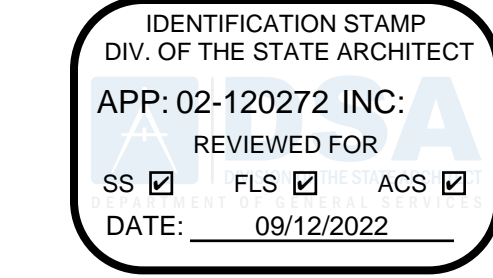
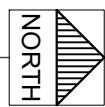
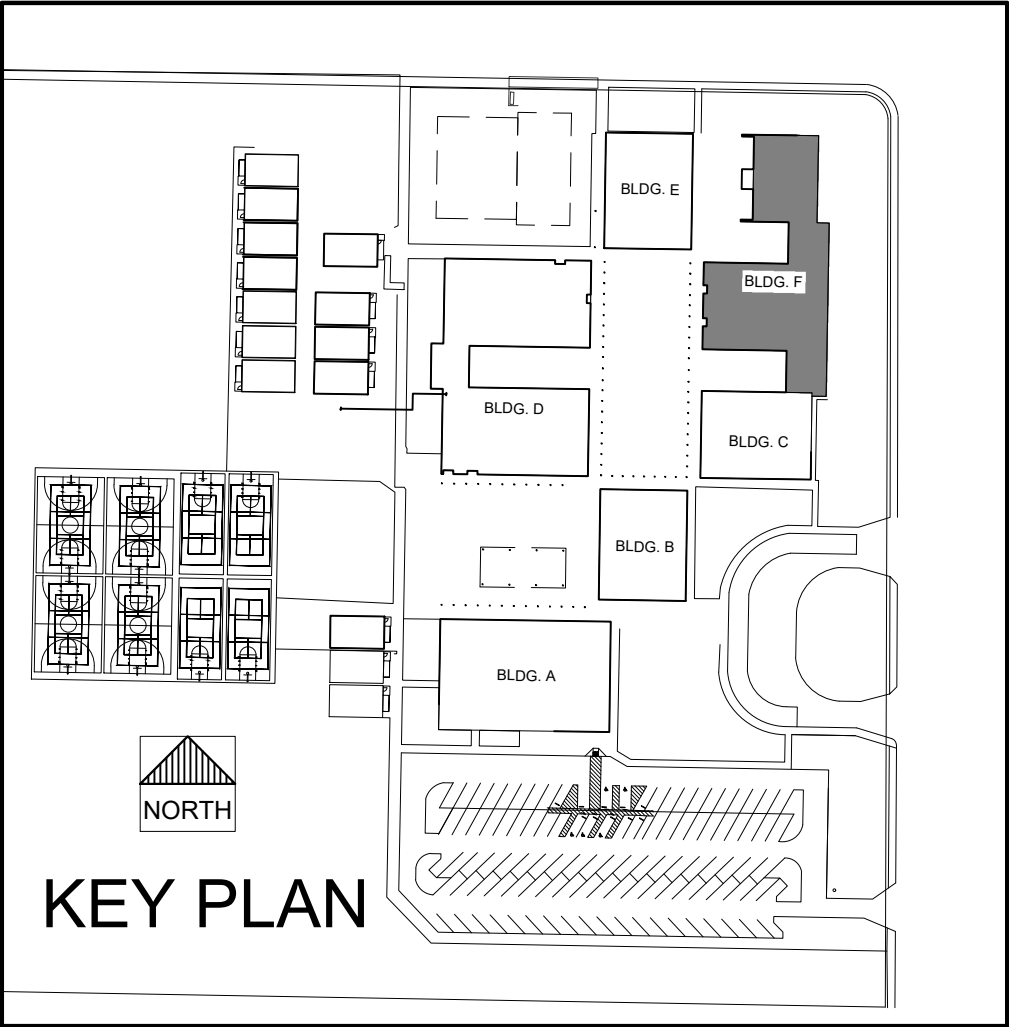
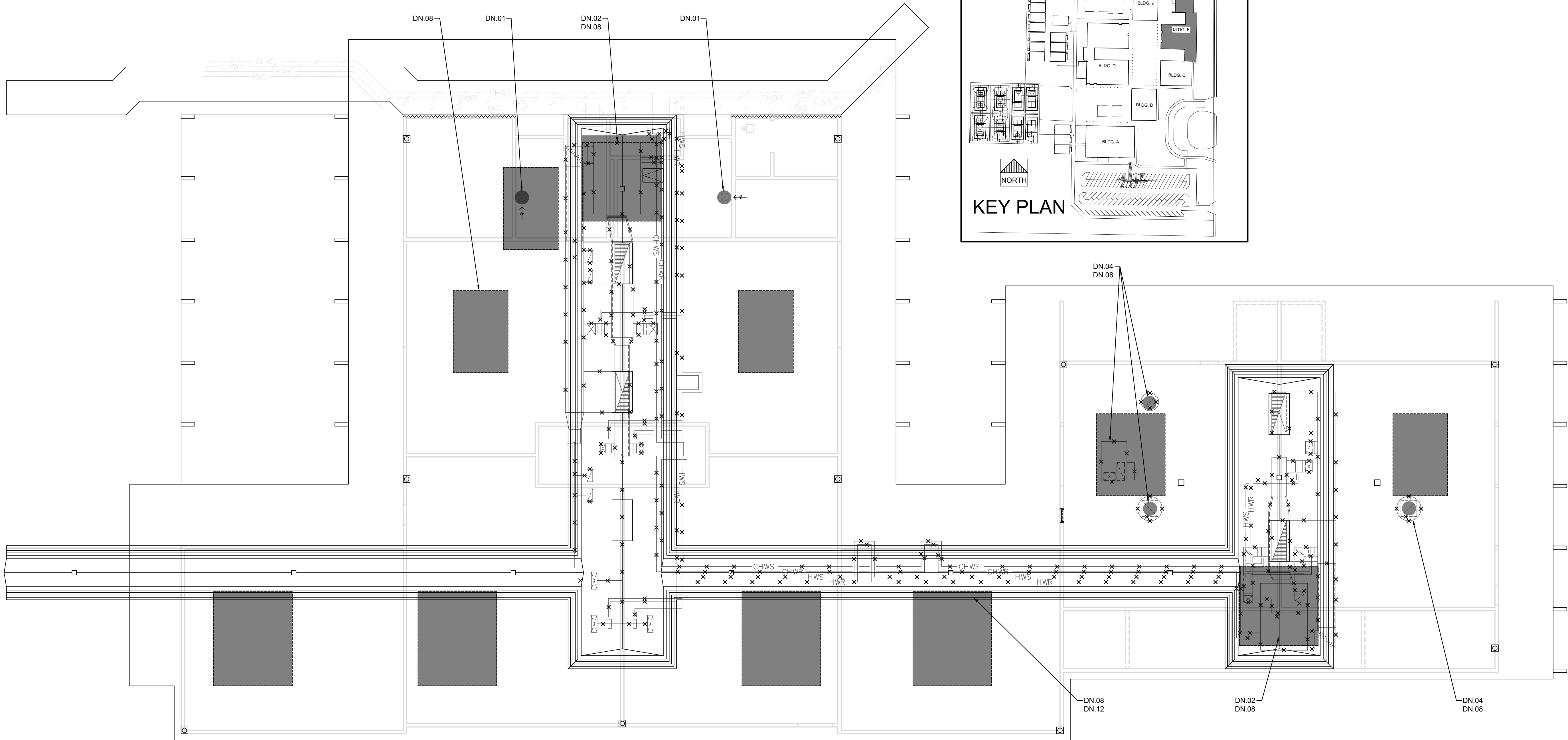
DEMOLITION NOTES

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- DN.01 DISCONNECT AND REMOVE (E) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
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- DN.05 DISCONNECT AND REMOVE (E) ELECTRICAL WIRE, CONDUIT, EQUIPMENT, ETC. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- DN.06 REMOVE (E) LIGHT FIXTURES AND SALVAGE FOR RE-INSTALLATION. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
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HVAC REPLACEMENT
LODI MIDDLE SCHOOL
DEMOLITION ROOF PLAN -
BUILDING F

CONSULTANT

PROJECT NO.	REVISIONS	BY
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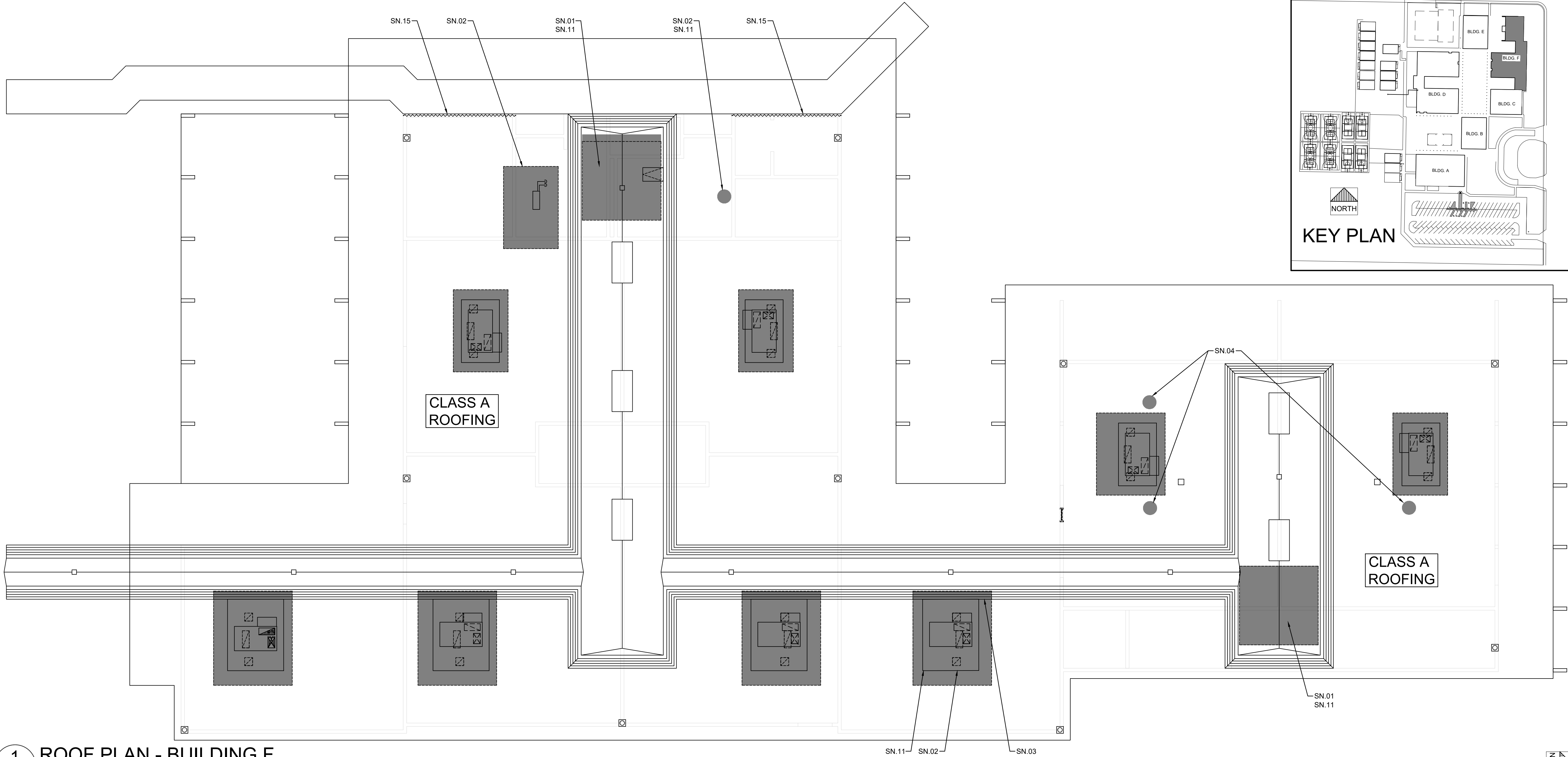
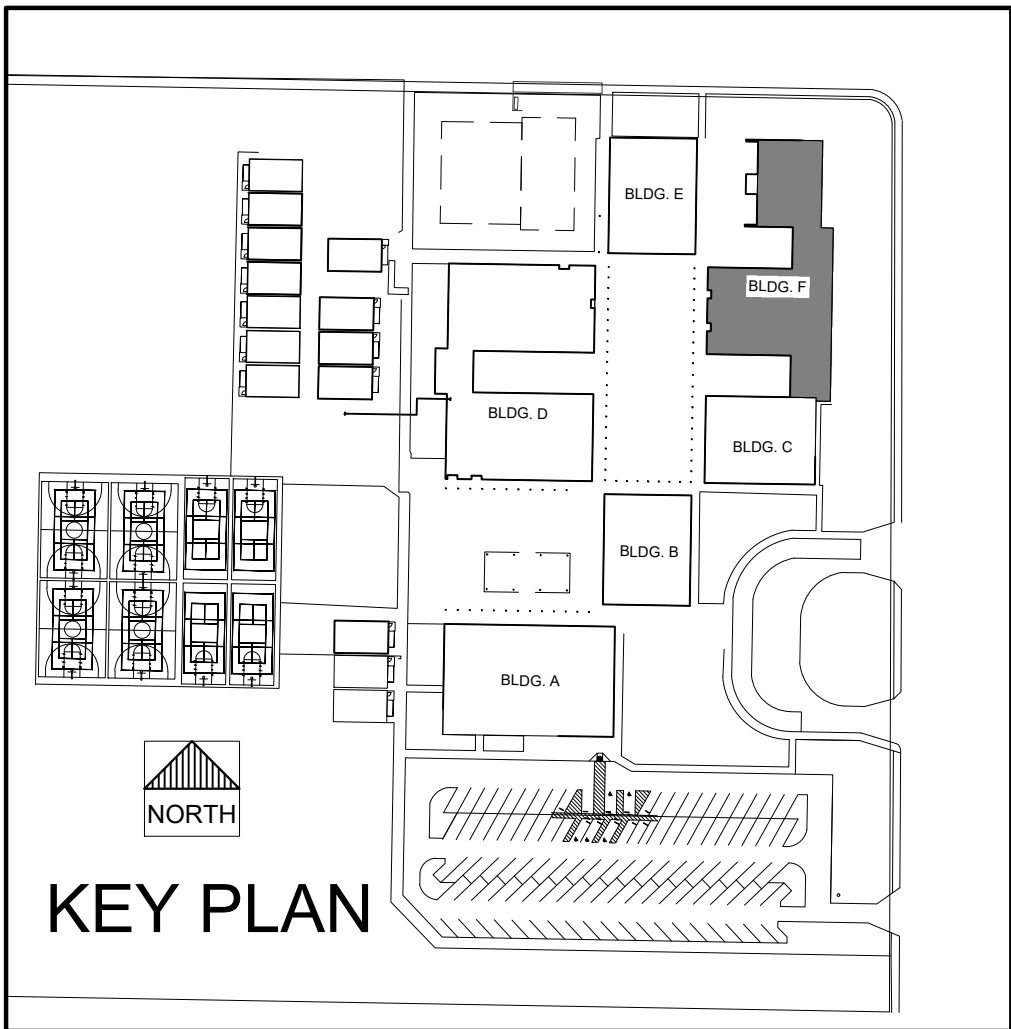
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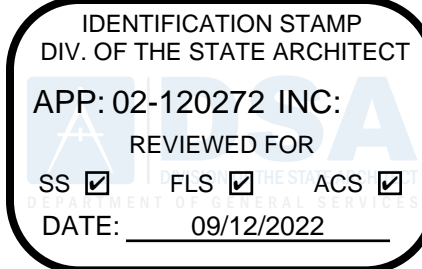
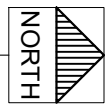
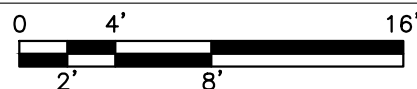
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1 ROOF PLAN - BUILDING F
A2.2.F

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



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Sacramento, CA 95825
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HVAC REPLACEMENT
LODI MIDDLE SCHOOL

ROOF PLAN -
BUILDING F

CONSULTANT

PROJECT NO.	REVISIONS	BY
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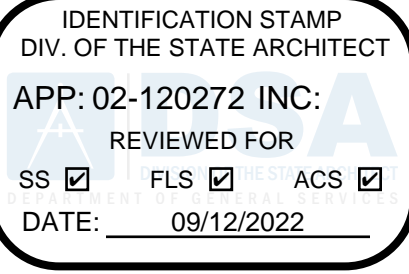
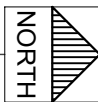
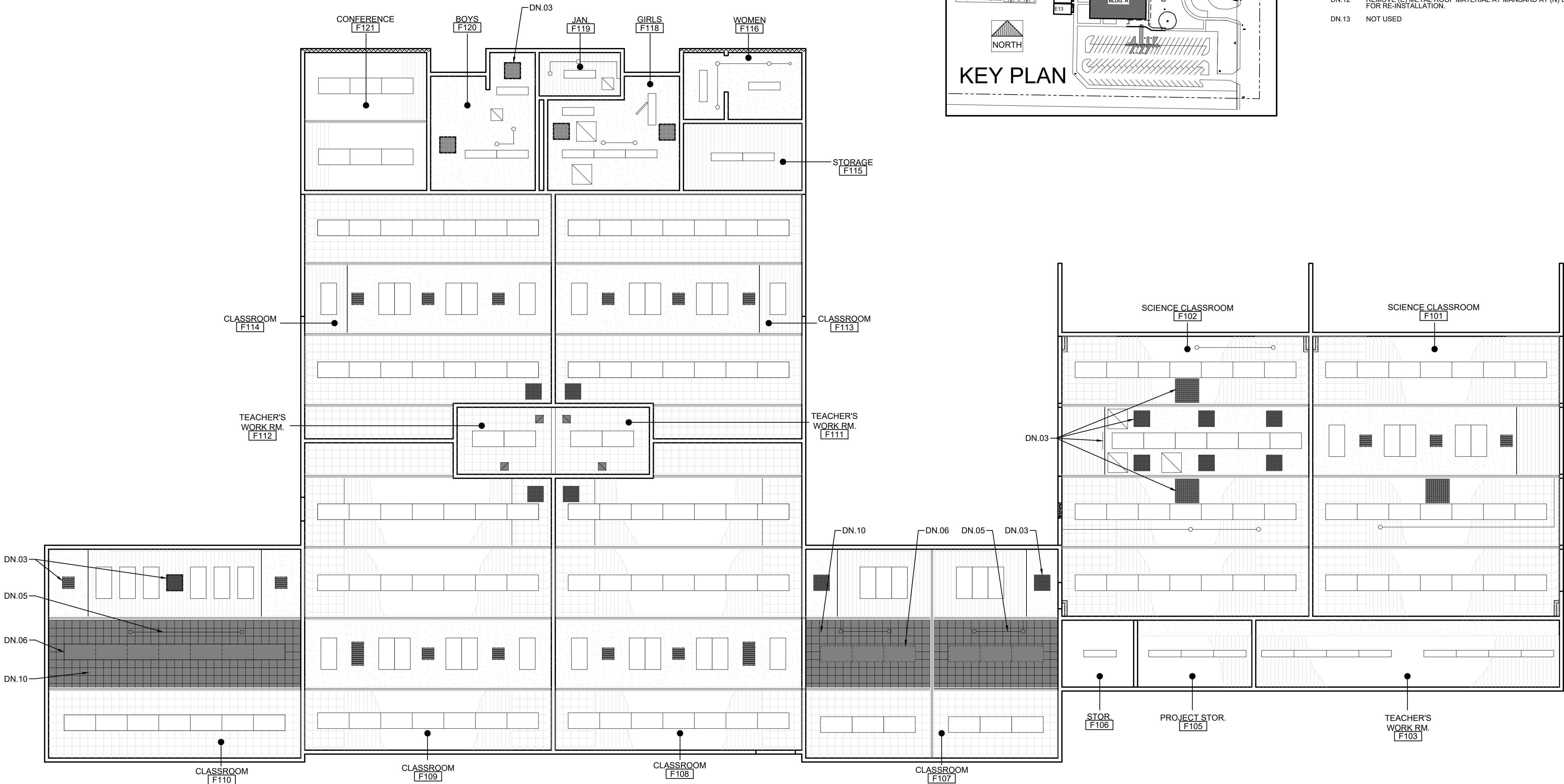
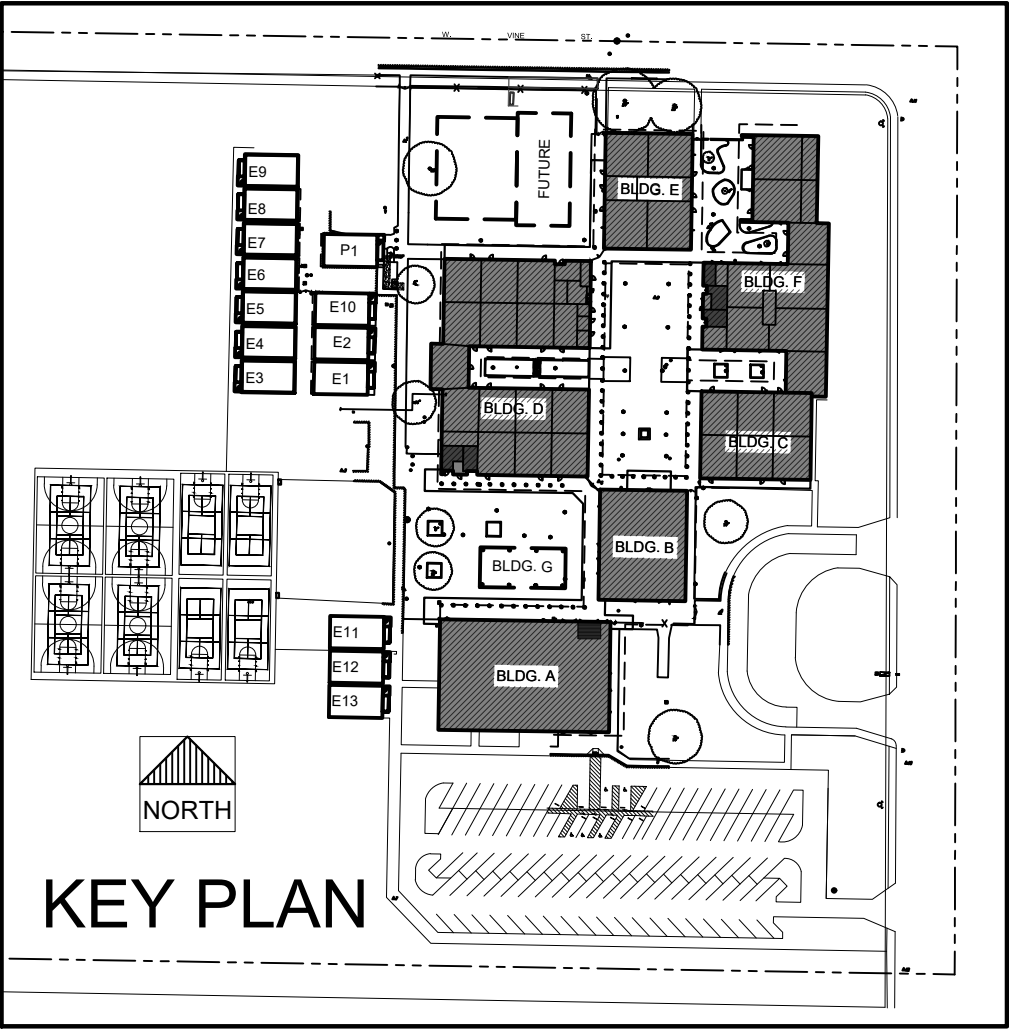
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DEMOLITION NOTES

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HVAC REPLACEMENT
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DEMOLITION
REFLECTED CEILING PLAN -
BUILDING F

CONSULTANT

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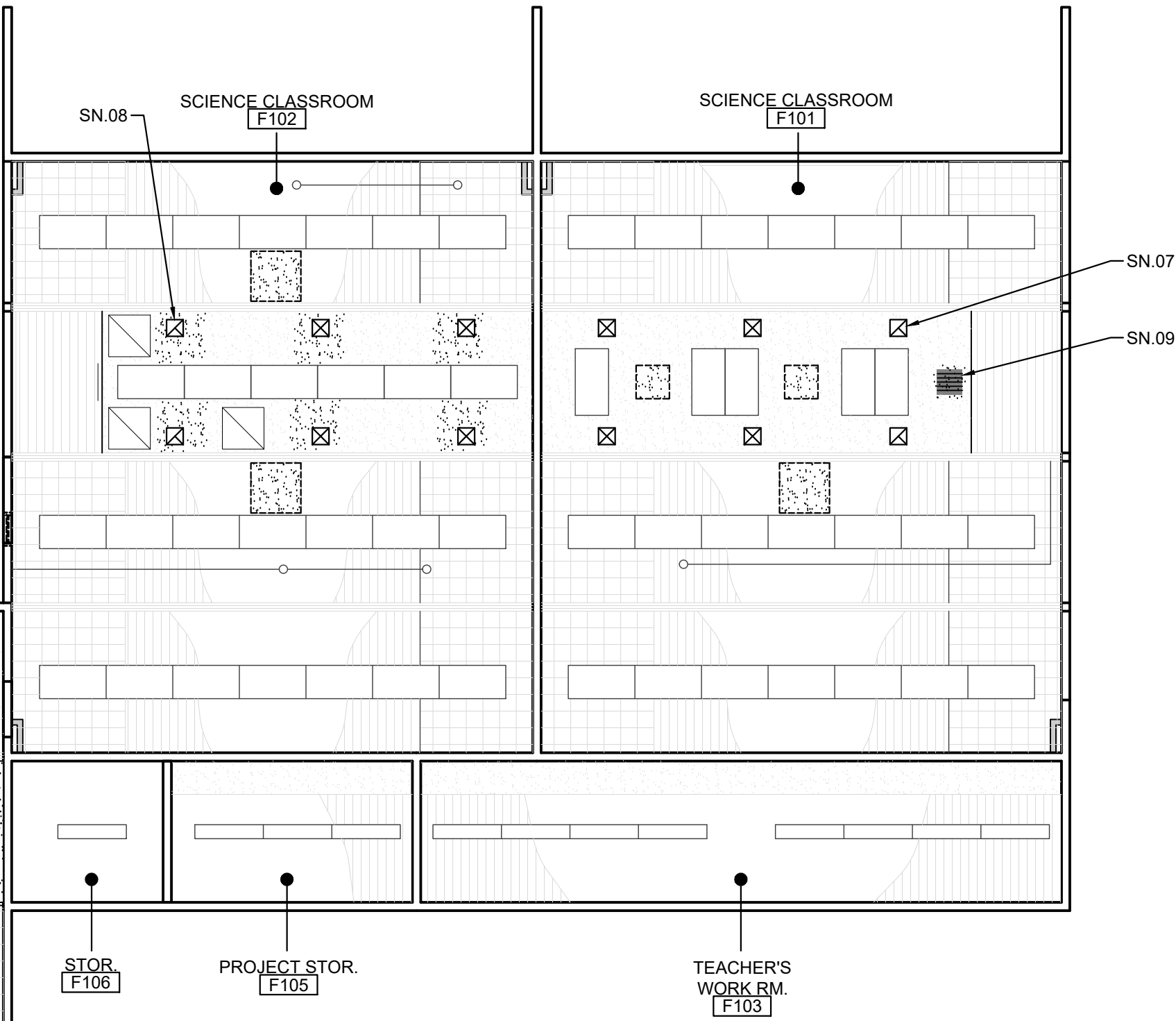
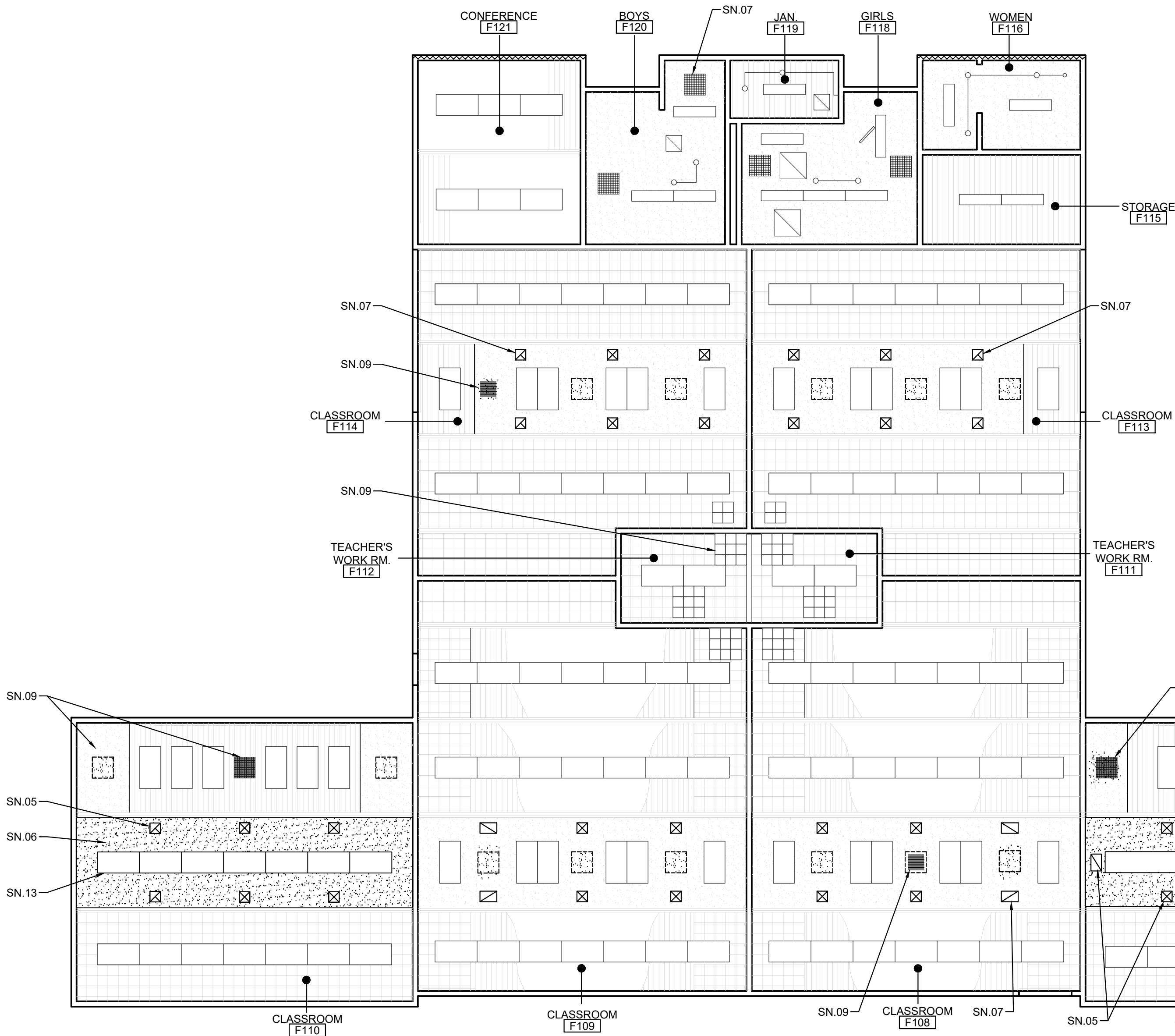
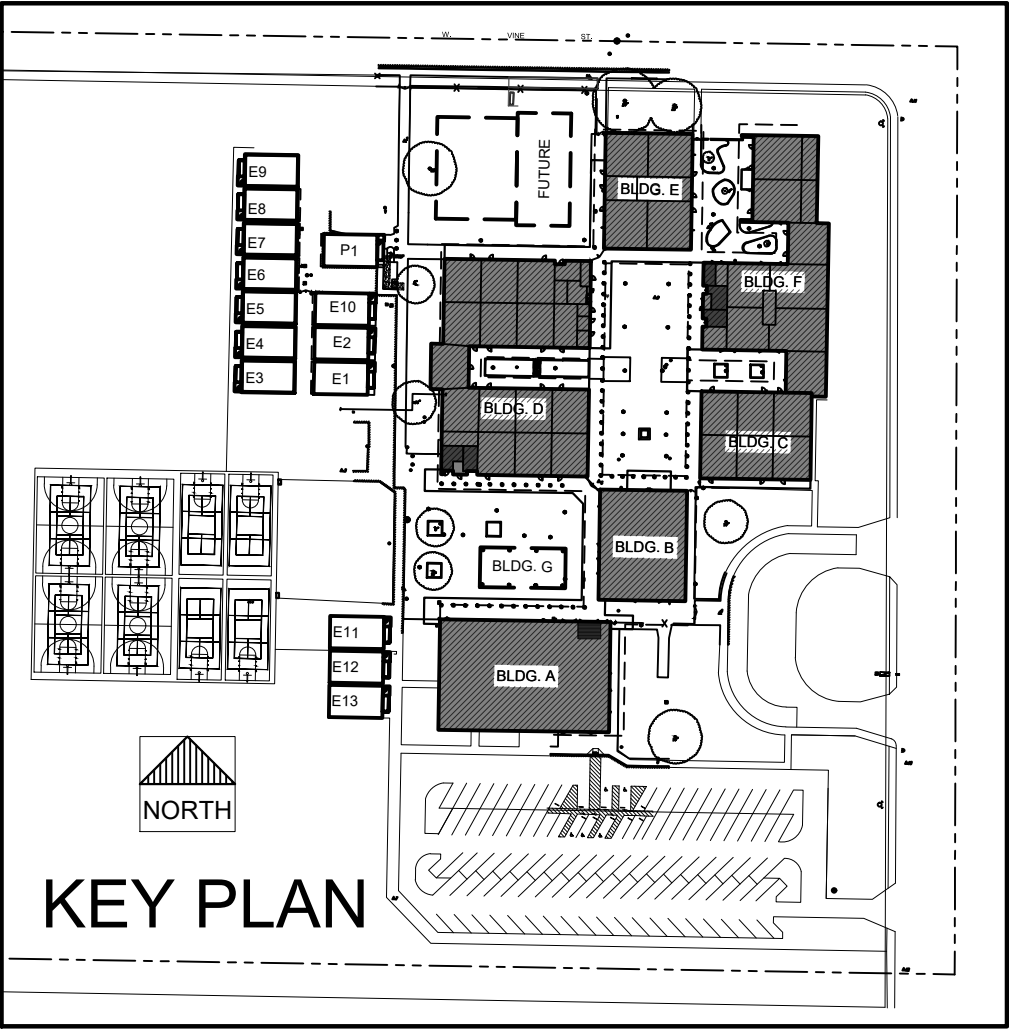
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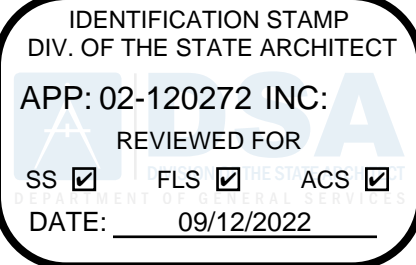
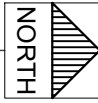
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3. ALL NEW WORK INCLUDING SHEET METAL, TRIM, CEILINGS AND ALL OTHER NEW OR MODIFIED WORK SHALL BE PAINTED PER SPECIFICATION SECTION 09 91 10 WHETHER OR NOT CALLED OUT IN THE DRAWINGS.
4. EXISTING CLASSROOMS ARE NOT IDENTICAL IN REGARD TO QUANTITY OR LOCATION OF VARIOUS WALL OR CEILING MOUNTED ITEMS REQUIRED TO BE REMOVED OR PROTECTED IN PLACE AND MASKED FOR PAINTING. THE DEMOLITION PLANS AND NOTES ARE GENERAL IN NATURE AND REPRESENT THE GENERAL DEMOLITION OR PROTECT-IN-PLACE SCOPE. THE CONTRACTOR IS REQUIRED TO REMOVE OR PROTECT AND MASK IN PLACE ALL EXISTING FLOORS, WALLS, DRY MARKER BOARDS, TACKBOARDS, CASEWORK, PROJECTION SCREENS, FIRE EXTINGUISHERS, WINDOWS, WINDOW COVERINGS & TRACKS, LIGHT FIXTURES OR ANY OTHER ITEM WHETHER SPECIFICALLY SHOWN OR NOT AND AS REQUIRED FOR INSTALLATION OF NEW FINISHES. SOME ITEMS WILL BE REQUIRED TO BE REMOVED AND TEMPORARILY STORED AND PROTECTED FOR LATER INSTALLATION.
5. NOT ALL FURNISHINGS, COMPONENTS, FINISHES, EQUIPMENT, ELECTRICAL, MECHANICAL, ETC. ITEMS ARE SHOWN IN THE PLANS. THESE ITEMS ARE TO REMAIN AS INSTALLED AND SHALL BE MASKED AND PROTECTED AS NEEDED FOR PAINTING AND DURING CONSTRUCTION OPERATIONS.

SHEET NOTES

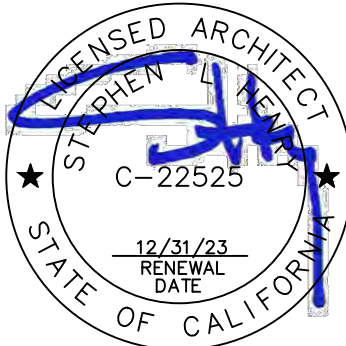
- (NOTE: NOT ALL NOTES MAY BE USED)
- SN.01 RE-FRAME ROOF AND ROOF HATCH OPENING. REINSTALL (E) SALVAGED ROOF HATCH. PATCH BACK TPO ROOF MATERIALS PER MANUFACTURER'S DETAILS AND SPECIFICATIONS. MANUFACTURER IS FIRESTONE BUILDING PRODUCTS LLC. MATERIAL IS 60-MIL TPO MEMBRANE. THE SAME MANUFACTURER AND MATERIAL MUST BE USED TO MAINTAIN WARRANTY.
- SN.02 FRAME (N) EQUIPMENT CURB AND INSTALL (N) HVAC EQUIPMENT. SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. INSTALL (N) 60-MIL TPO ROOF AT (N) HVAC EQUIPMENT AND CURB. LAP (N) ROOF MATERIAL WITH (E) ROOF MATERIAL. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.03 RE-INSTALL (E) METAL ROOF PANELS OVER (N) 60-MIL TPO ROOFING AT MANSARD ROOFS. LAP (N) TPO ROOFING WITH EXISTING WATERPROOFING. CUT METAL ROOFING PANELS TO FIT AROUND (N) HVAC EQUIPMENT CURBS.
- SN.04 IN-FILL FRAME AND SHEATH OVER AT OPENING WHERE EQUIPMENT HAS BEEN REMOVED AND NO NEW EQUIPMENT IS TO BE INSTALLED. INSTALL (N) 60-MIL TPO ROOFING MATERIAL OVER AREA AND TIE (N) ROOF INTO (E) ROOFING MATERIAL.
- SN.05 INSTALL (N) DUCTWORK AND GRILLES. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.06 FRAME (N) CEILING WITH METAL HAT CHANNELS. INSTALL (N) GYPSUM BOARD AND PAINT AT (N) CEILING. INSTALL (N) MECHANICAL DUCTS AND DIFFUSERS. REINSTALL (E) SALVAGED LIGHT FIXTURES AT (N) CEILING. REINSTALL FIRE ALARM DEVICES AT (N) CEILING. SEE STRUCTURAL SECTIONS AND DETAILS 1-6/8-0.1, AND MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.07 FRAME (N) OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.08 RE-FRAME OPENINGS IN (E) CEILINGS. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL DRAWINGS. PATCH, REPAIR AND PAINT FINISHES.
- SN.09 INFILL FRAME OPENINGS IN CEILINGS AND INSTALL GYPSUM BOARD OVER CLOSED OPENINGS. PATCH CEILING TILES. REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.10 PATCH CEILING TILES. REPAIR AND PAINT TO MATCH (E) CEILING FINISHES.
- SN.11 PATCH AND REPAIR TPO ROOF WHERE EQUIPMENT, PIPE, CONDUIT, DUCT, ETC. HAS BEEN REMOVED. MOVED, REPAIRED, FLASH, GALLIE (N) AND (E) EQUIPMENT TO RESTORE, REPAIR AND WATERPROOF ROOF FOR ALL ROOF AREAS AFFECTED BY THIS WORK. SEE ARCHITECTURAL DRAWINGS FOR ROOF DETAILS.
- SN.12 CLEAN (E) DUCTS. SEE MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SN.13 RE-INSTALL (E) SALVAGED LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.14 INSTALL (N) MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- SN.15 EXISTING 2-HOUR AREA SEPARATION WALL.
- SN.16 REMOVE AND REPLACE AIR HVAC IN CLOSET BELOW. SEE MECHANICAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL INFORMATION.



1 REFLECTED CEILING PLAN - BUILDING F
A2.4.F SCALE: 1/8" = 1'-0" 0 4' 16' 2' 8'



730 Howe Avenue, Suite 450
Sacramento, CA 95825
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HVAC REPLACEMENT
LODI MIDDLE SCHOOL
REFLECTED CEILING PLAN -
BUILDING F

CONSULTANT		
PROJECT NO.	REVISIONS	BY
22-32-057		
DATE		
8/26/2021		
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SCALE		
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8/26/2022		
SHEET NO.		

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KEYNOTES

NOTE: NOT ALL NOTES MAY BE USED

0600 WOOD, PLASTICS, COMPOSITES

- 0600.A8 2 X FURRED WALL
0600.D1 PLASTIC LAMINATE CASEWORK
.3 EPOXY RESIN COUNTERTOP WITH 6" BACKSPLASH WHERE SHOWN
.5 REMOVABLE PLASTIC LAMINATE CLOSURE PANEL WITH SCRIBED CLOSURE TOP AT PENETRATIONS

0900 FINISHED

- 0900.A6 BASE
0900.B1 GYPSUM WALLBOARD
0900.B5 FIBERGLASS REINFORCED PLASTIC PANELS (FRP)
0900.B6 ACOUSTICAL WALL PANELS
0900.B7 RESINOUS WALL COATING INSTALLED O/ (E) CERAMIC TILE WAINSCOTING
0900.C2 GLUED OR STAPLED-ON ACOUSTICAL CEILING TILE

1000 SPECIALTIES

- 1000.A2 MARKER BOARD
.1 SLIDING MARKER BOARD SYSTEM
1000.A3 TACK BOARD
1000.A5 TOILET PARTITION
1000.A7 TOILET ACCESSORIES
.1 PAPER TOWEL DISPENSER
.2 TOILET PAPER DISPENSER
.3 SANITARY NAPKIN DISPENSER
.4 SOAP DISPENSER
.5 MIRROR
.7 GRAB BAR
.11 TOILET SEAT COVER DISPENSER
1000.A10 METAL SHELVING

1100 EQUIPMENT

- 1100.A4 INTERACTIVE DISPLAY SCREEN (OFCI)
1100.A5 WORK TABLES & CHAIRS (OFOI)
1100.A6 DISHWASHER (BELOW COUNTER)
1100.A7 REFRIGERATOR W/ ICE MAKER (OFCI)
1100.A8 CHEMICAL STORAGE CABINET (OFCI)

1200 FURNISHINGS

- 1200.A3 CASEWORK
1200.A4 WINDOW ROLLER SHADES

2200 PLUMBING

- 2200.A1 PLUMBING EQUIPMENT
.1 SINK
.2 LAVATORY
.3 TOILET
.4 URINAL
.5 DRINKING FOUNTAIN
.6 MOP SINK
.7 WATER HEATER
.11 FLOOR DRAIN
.12 VENT RISER PIPE

2300 HVAC

- 2300.A4 EXHAUST FLUE THROUGH CEILING

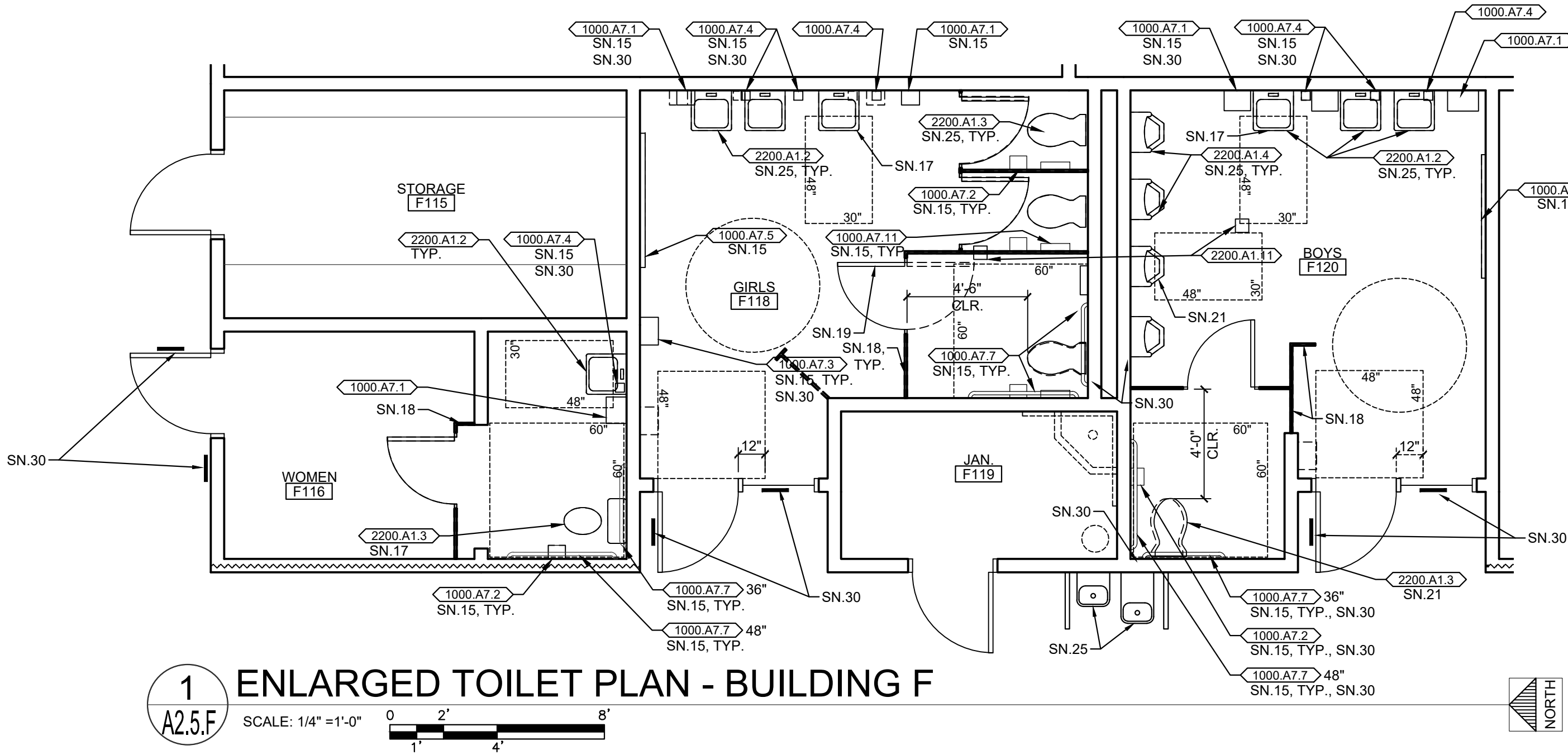
GENERAL NOTES

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SHEET NOTES

(NOTE: NOT ALL NOTES MAY BE USED)

- SN.01 NOT USED
SN.02 NOT USED
SN.03 NOT USED
SN.04 NOT USED
SN.05 NOT USED
SN.06 NOT USED
SN.07 (E) FLOOR FINISHES TO BE PROTECTED DURING CONSTRUCTION OPERATIONS
SN.08 NOT USED
SN.09 (E) DATA OUTLETS, POWER OUTLETS, LIGHT SWITCHES, ELECTRICAL PANELS, SIGNAGE, HVAC UNITS, ELECTRICAL TRANSFORMERS AND OTHER SIMILAR BUILDING COMPONENTS TO REMAIN IN PLACE AND PROTECTED. PREP AND PAINT TO MATCH WALLS ONLY IF PREVIOUSLY PAINTED.
SN.10 NOT USED
SN.11 NOT USED
SN.12 (E) LIGHT FIXTURES, FIRE ALARM & INTRUSION ALARM COMPONENTS TO REMAIN IN PLACE AND PROTECTED. SEE ELECTRICAL DRAWINGS FOR (N) FIXTURE INSTALLATION.
SN.13 (E) HVAC CEILING REGISTERS TO REMAIN IN PLACE AND PROTECTED. SEE MECHANICAL FOR INSTALLATION OF (N) REGISTERS - PAINT
SN.14 (E) LAVATORY & LAVATORY CARRIER.
SN.15 REINSTALL (E) TOILET ACCESSORIES VERIFY AND ADJUST HEIGHT OF TOILET ACCESSORIES PER ACCESSORY MOUNTING HEIGHTS SCHEDULE ON SHEET A0.1.
SN.16 NO NEW WORK THIS SPACE
SN.17 ACCESSIBLE FIXTURES AND ACCESSORIES SEE 1/ A0.1 FOR HEIGHTS AND SIGNAGE MOUNTING
SN.18 (E) TOILET PARTITION, COORDINATE W/ ANY (N) TOILET PARTITIONS BEING INSTALLED. VERIFY PARTITION LOCATION IN RELATION TO PLUMBING FIXTURES AND REQUIRED CLEARANCES.
SN.19 REVERSE (E) TOILET PARTITION DR. SWING OR PROVIDE (N) DR. W/ SWING AS INDICATED
SN.20 (E) EXPOSED WIRING, CABLING AND WIREMOLD RACEWAY TO REMAIN IN PLACE. SNAP CLOSED ANY WIREMOLD RACEWAY THAT IS NOT PROPERLY CLOSED AND INSTALL ADDITIONAL CABLE FASTENERS AS NECESSARY FOR POSITIVE ATTACHMENT TO WALL PRIOR TO PREP AND PAINT. THESE ITEMS ARE TO REMAIN IN PLACE AND BE PREP'D AND PAINTED ALONG WITH NEW WALL FINISH.
SN.21 NOT USED
SN.22 NOT USED
SN.23 NOT USED
SN.24 NOT USED
SN.25 (E) PLUMBING FIXTURE TO REMAIN IN PLACE. NO NEW WORK.
SN.26 INSTALL (N) CEILING TILE O/ (N) GYP. BD. UNDERLAYMENT. SEE DEMOLITION PLAN FOR REMOVAL OF VARIOUS (E) COMPONENTS AS REQUIRED TO INSTALL (N) CEILING FINISH. FOLLOWING INSTALLATION OF (N) CEILING FINISH, REINSTALL ALL CEILING MOUNTED COMPONENTS TEMPORARILY REMOVED O/ (N) FINISHED CEILING.
SN.27 NOT USED
SN.28 NOT USED
SN.29 PROVIDE (N) TOILET ROOM DOOR SYMBOL AND TOILET ROOM IDENTIFICATION SIGN PER DETAIL 1/A0.1
SN.30 PATCH BACK (E) WALL FINISHES (WHERE ACCESSORIES HAVE BEEN RELOCATED) TO MATCH SURROUNDING WALL FINISHES TYPICAL.



1 A2.5.F ENLARGED TOILET PLAN - BUILDING F

SCALE: 1/4" = 1'-0" 0 2' 8"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



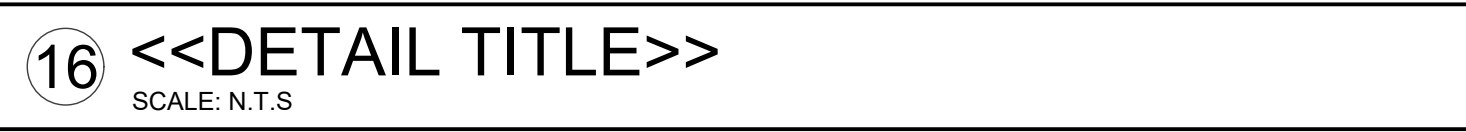
HVAC REPLACEMENT
LODI MIDDLE SCHOOL

ENLARGED TOILET
FLOOR PLANS -
BUILDING D

CONSULTANT

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24 OF 93 SHEETS

ROUGH CARPENTRY-LAG SCREWS:

- ALL SPECIFIED LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1.
- 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.
- LAG SCREWS SHALL BE INSTALLED BY TURNING OF THE LAG SCREW & NOT BY DRIVING OF A HAMMER.
- 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.
- 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.
- LAG SCREWS SHALL BE INSTALLED WITH A STANDARD CUT WASHER OR PLATE WASHER W/CORROSION PROTECTION TO MATCH THE LAG SCREW.
- ALL LAG SCREWS TO BE TIGHTENED DURING INSTALLATION & RE-TIGHTENED JUST PRIOR TO CLOSING IN.

WOOD FASTENERS-BOLTS:

- ALL SPECIFIED BOLTS IN WOOD FRAMING SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1.
- HOLES SHALL BE A MIN OF 1/8" TO A MAX OF 3/16" GREATER THAN THE BOLT DIAMETER. HOLES SHALL BE ACCURATELY ALIGNED AND NOT FORCIBLY DRIVEN.
- BOLTS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, BOLTS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS C OR TYPE 316 STAINLESS STEEL.
- BOLTS SHALL BE INSTALLED WITH A STANDARD CUT WASHER OR PLATE WASHER AT HEAD AND NUT W/CORROSION PROTECTION TO MATCH THE BOLT.
- ALL BOLTS & NUTS TO BE TIGHTENED DURING INSTALLATION & RE-TIGHTENED JUST PRIOR TO CLOSING IN.

POST INSTALLED ANCHOR NOTES:

- ALL POST INSTALLED ANCHORS ARE TO BE INSTALLED PER MANUFACTURER FOR EACH ANCHOR AND PER THE ICC REPORTS LISTED BELOW.
- ALL POST-INSTALLED ANCHORS ARE TO BE CAREFULLY INSTALLED SO AS TO NOT DISTURB OR DAMAGE THE STEEL REINFORCING IN ANY WAY. ANCHORS MAY NOT BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED A MINIMUM AGE OF 28 DAYS.
- ALL HOLES FOR DRILLED-IN ANCHORS SHALL BE COMPLETELY DRY AND WELL CLEANED WITH A BOTTLE BRUSH AND COMPRESSED AIR PRIOR TO INSTALLING THE ANCHORS.
- ALL DRILLED-IN ANCHORS SHALL BE TESTED PER CHAPTER 17 OF THE 2019 CBC. ALL TESTING SHALL BE DONE BY A CERTIFIED TESTING LABORATORY AND SHALL BE PERFORMED IN THE PRESENCE OF A SPECIAL INSPECTOR.
- POST-INSTALLED ANCHORS ARE TO BE AS FOLLOWS:

5.1 EXPANSION ANCHORS IN CONCRETE

HILTI KB TZ2 PER ICC ESR 4266
- POST-INSTALLED ANCHORS ARE TO BE INSTALLED ONLY WHERE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS, WITH EMBEDMENTS AND PROOF TESTING AS SPECIFICALLY IDENTIFIED IN EACH APPLICABLE DETAIL. FOR ADDITIONAL INFORMATION, UNO, FOR EXPANSION ANCHORS, SEE TABLE BELOW.
- POST-INSTALLED ANCHORS MAY NOT BE USED AT LOCATIONS OTHER THAN THOSE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OR RECORD.

CONCRETE: HILTI KWIK BOLT TZ2 EXPANSION ANCHORS
SEE ICC ESR-4266 TABLE 1

ANCHOR DIAMETER	3/8"Ø	1/2"Ø	5/8"Ø
BIT DIAMETER	3/8"Ø	1/2"Ø	5/8"Ø
NOMINAL EMBEDMENT	2 1/2" "	2 1/2" "	4 1/2" "
HOLE DEPTH	2 3/4" "	2 3/4" "	4 3/4" "
TORQUE (STAINLESS STEEL)	30 FT-LB	40 FT-LB	60 FT-LB

COLD FORMED STEEL NOTES:

- ALL COLD-FORMED STEEL CONSTRUCTION SHALL BE PER THE LATEST AISI STANDARDS.
- ALL COLD-FORMED STEEL CONSTRUCTION SHALL BE FROM MANUFACTURERS WHO ARE MEMBERS OF THE "STEEL STUD MANUFACTURER'S ASSOCIATION" (SSMA) WITH PRODUCTS MEETING THE REQUIREMENTS OF ICC-ESR ER-3064P, LATEST REVISION.
- ALL STUDS WITH THICKNESS NOT GREATER THAN 43 MILS SHALL BE ASTM A653 S5 GRADE 33 OR ASTM A1003 GRADE 33. ALL STUDS WITH THICKNESS OF 54 MILS AND GREATER SHALL BE ASTM A1003 GRADE 50.
- METAL STUD COMPONENTS AND CONNECTORS ARE TO BE BY 'SCAFCO' UNLESS NOTED OTHERWISE.
- COLD-FORMED STEEL FRAMING CONNECTIONS SUCH AS STUD-TO-STUD, STUD-TO-TRACK, AND JOIST TO TRACK OR STUD ARE TO BE WITH "TEKS SELECT" #10 SHEET METAL SCREWS (#10 SMS) BY ITW BUILDEX PER ICC ESR-3223 UNLESS NOTED OTHERWISE. ALL SMS ARE TO HAVE A MINIMUM OF 3-THREADS PROTRUDING THROUGH THE BACKSIDE OF FASTENED PLIES.

ROUGH CARPENTRY-MATERIALS:

- 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 WCLB OR WWPFA SHOWING GRADE MARK.
- 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.
- ALL SAWN LUMBER TO BE SPECIES & GRADE AS NOTED BELOW:

MEMBER	SPECIES & GRADE
2X_ & 3X STUDS	#2 DF
2X_ JOISTS, PLATES	#2 DF
4X_ HEADERS	#1 DF
4X_ COLUMNS	#1 DF
6X_ & LARGER HEADERS	S5 DF
6X_ & LARGER COLUMNS	S5 DF

A. MATERIAL EXPOSED TO WEATHER OR IN CONTACT W/CONCRETE SHALL BE PRESSURE TREATED

B. OPTIONAL FOR EXPOSED 8X_ BEAMS & POSTS TO BE #1AC IN LIEU OF TREATED DF

C. STUDS TALLER THAN 12'-0" SHALL BE #1DF
- PRESERVATIVE TREATED & PRESSURE TREATED LUMBER

A. SAWN LUMBER TO BE PROTECTED FROM EARTH, WEATHER, EARTH, & CONCRETE/CMU OR WOOD SHALL BE TREATED

B. PRESERVATIVE TREATMENT & CLEARANCES TO SOIL OR CONCRETE SHALL BE PER CBC 2303.1.9 & 2304.12.1.2

C. FIELD CUTS & HOLES IN TREATED LUMBER SHALL BE PROTECTED IN ACCORDANCE W/AWPA STANDARD M4

D. 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.
- ALL WOOD PANEL STRUCTURAL SHEATHING SHALL BE STAMPED W/APA TRADEMARK AND CONFORM TO MOST CURRENT EDITION OF PS-1 OR PS-2. 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. EQUIVALENT OSB SHALL BE USED IN LIEU OF PLYWOOD. PROVIDE PLYWOOD AT ALL EXPOSED EAVE CONDITIONS.

ROUGH CARPENTRY-NAILS:

- 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	2 1/2" "	1 3/4" "	SHTG/FRMG
10d	.148"Ø	3" "	1 1/2" "	SHTG/FRMG
16d BOX	.135"Ø	3 1/2" "	1 3/4" "	FRMG
16d SINKER	.148"Ø	3 1/4" "	1 1/2" "	FRMG
16d COMMON	.162"Ø	3 1/2" "	1 3/4" "	FRMG
- ALL NAILS SHALL BE COMMON WIRE NAILS EXCEPT WHERE SPECIFICALLY NOTED
- NAILS SHALL BE LOCATED AND SPACED TO PREVENT SPLITTING OF WOOD. PREDRILL ALL FASTENERS 75% MAX OF FASTENER DIAMETER WHERE WOOD TENDS TO SPLIT.
- TOENAILS SHALL BE DRIVEN AT AN ANGLE OF APPROX 30° WITH THE MEMBER AND STARTED APPROX 1/2 THE LENGTH OF THE NAIL FROM THE MEMBER END.
- NAILS USED IN HARDWARE SHALL BE AS SPECIFIED BY HARDWARE MFR.
- MINIMUM NAILING SHALL BE PER CBC TABLE 2304.10.1 UNO:

Description	Nailing
Roof	
1. Bkg blown cig joints, rafters or trusses to top plate or other framing b/w	3-8d toe nail, ea end
2. Bkg blown rafters or truss not at the wall top plate, to rafter or truss	2-8d toe nail or 2-16d end nail, ea end
3. First bkg to truss & wall filler	1-6d face nail @ 12"o
4. Cig joint to top plate	3-8d toe nail ea joint
5. Cig joint not attached to parallel rafter, laps on/partitions (no throat)	3-16d face nail
6. Cig joint attached to parallel rafter, laps on/partitions (w/throat)	CBC 2308.7.3.1
7. Collar tie to rafter	3-10d face nail
8. Rafter or truss to top plate (see CBC section 2308.7.3.1, Table 2308.7.3.1)	3-10d toe nail
9. Rafter to ridge, valley or hip rafters, or rafter to 2" ridge	3-10d toenail or 2-16d end nail
Wall	
10. Stud to stud joint @ braced wall panels	1-6d @ 24"o face nail
11. Stud to stud and shutoff studs at intersecting wall corners (braced wall panels)	1-6d @ 8"o face nail
12. Built up header (2" to 2" header)	1-6d @ 16"o face nail
13. Cont header to stud	1-6d @ 4-8d face nail
14. Top plate to top plate	1-6d @ 16"o face nail
15. Top plate to top plate, at end joints	3-16d ea side of end joint face nail (24" min lap splice ea end)
16. Top plate to post, rim, band joint or bkg joint @ braced wall panels	1-6d @ 24"o
17. Not plate to post, rim, band joint or bkg (braced wall panels)	2-16d @ 16"o
18. Stud to top or best plate	4-8d toe nail
19. Top or best plate to stud	2-16d end nail
20. Top plates, laps at corners & intersections	2-16d face nail
21. 1" brace to ea stud & plate	2-8d face nail
22. 1x6 sheathing to ea bearing	2-8d face nail
23. 1x6 & wider sheathing to ea bearing	3-8d face nail
Floor	
24. Joist to sill, top plate or girder	3-8d toe nail
25. Row joist, band joint, or bkg to top plate, sill, or other framing b/w	8d @ 12"o toe nail
26. 1x6 sub floor or joist to ea joist	2-8d face nail
27. 2" sub floor to joist or girder	2-16d face nail
28. 2" joist to bearing girders & beams, floor & roof	2-16d toe nail
29. Built up girders & beams, 2" lumber layers	1-6d @ 24"o face nail at top & bot, stagger on opposite sides
30. Ledger strip supporting joists or rafters	3-16d ea joint or rafter face nail
31. Joist to band joint or rim joist	2-16d end nail
32. Bridging or bkg to joist, rafter or truss	2-8d toe nail ea end

- 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.
- SHEATHING NAILS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN ARE FLUSH WITH THE SURFACE OF THE SHEATHING.

ROUGH CARPENTRY-WOOD SCREWS:

- ALL SPECIFIED WOOD SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.6.1. ALTERNATE WOOD SCREWS MUST HAVE AN ICC EVALUATION REPORT AND MAY NOT BE USED UNLESS APPROVED IN WRITING BY RW CONSULTING ENGINEERS. END DISTANCE, EDGE DISTANCE, & SPCG OF ALTERNATE WOOD SCREWS MUST CONFORM TO THE MFR ICC EVALUATION REPORT.
- WOOD SCREWS SHALL BE LOCATED AND SPACED TO PREVENT SPLITTING OF WOOD. PRE-DRILL LEAD HOLES AS REQ'D. LEAD HOLES SHALL NOT EXCEED THE SMALLEST OF 7/8 OF THE SHANK DIAMETER AND 7/8 OF THE ROOT DIAMETER AT THREADED PORTIONS.
- WOOD SCREWS USED IN HARDWARE SHALL BE AS SPECIFIED BY HARDWARE MFR.
- WOOD SCREWS SHALL BE INSTALLED BY TURNING OF THE SCREW & NOT BY DRIVING OF A HAMMER.
- SOAP OR OTHER LUBRICANT MAY BE USED ON THE WOOD SCREW OR IN THE LEAD HOLE AS REQ'D TO PREVENT DAMAGE TO THE WOOD SCREW.
- WOOD SCREWS INSTALLED IN TREATED LUMBER SHALL HAVE CORROSION PROTECTION APPROPRIATE FOR THE TYPE OF CHEMICALS USED IN THE TREATMENT PROCESS. AS A MINIMUM, WOOD SCREWS INTO TREATED LUMBER OR IN EXTERIOR APPLICATIONS SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153 CLASS D OR TYPE 316 STAINLESS STEEL.

DESIGN CRITERIA:

- PROJECT ADDRESS: 945 SOUTH HAM LANE
LODI, CA 95242
- BUILDING CODE: 2019 CALIFORNIA BUILDING CODE
- GRAVITY LOADS: (ESTIMATES OF AS-BUILT CONDITIONS)

BUILDING ROOFS

ROOF LIVE LOAD = 20 PSF (REDUCIBLE)

ROOF DEAD LOAD = 20 PSF

WALL WEIGHTS

EXTERIOR WALLS = 15 PSF

INTERIOR WALLS = 10 PSF
- LATERAL LOADS: RISK CATEGORY III

WIND LOADS (ASCE 7-16)

BASIC WIND SPEED 100 MPH (77 MPH ASD)

EXPOSURE C

BUILDINGS ARE CONSIDERED "ENCLOSED"

PRESSURE COEFFICIENTS

INTERNAL PRESSURE COEFFICIENT, GC_{pi} = ± 0.18

TOPOGRAPHIC FACTOR, K_{zt} = 1.00

WIND DIRECTIONALITY FACTOR, K_d = 0.85

VELOCITY PRESSURES

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

q (15'-20') = 11.6 PSF (ASD)

SEISMIC LOADS (ASCE 7-16)

SITE CLASS D

SEISMIC DESIGN CATEGORY D

IMPORTANCE FACTOR 1.25

REDUNDANCY, ρ 1.0

S_s = 0.628 S_i = 0.260

F_e = 1.297 F_r = 2.080

S_{m1} = 0.815 S_{m2} = 0.541

S_{ds} = 0.543 S_{d1} = 0.361

INSPECTION NOTES:

- 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).
- ALL TESTS AND INSPECTIONS SHALL CONFORM TO CHAPTER 17A OF THE 2019 CBC AND THE PROJECT SPECIFIC DSA-103.
- ALL SPECIAL INSPECTORS SHALL HAVE A MINIMUM OF THREE YEARS OF EXPERIENCE WITH MATERIAL BEING INSPECTED.

ROUGH CARPENTRY-WALL FRAMING:

- ALL WALLS SHALL HAVE CONT 2-2X_ TOP PLATES. NO BORING OR NOTCHES ARE ALLOWED WITHIN SPLICE LOCATIONS. TOP PLATES SHALL BE LAPPED AT ALL CORNERS & INTERSECTIONS.
- ALL STUDS SHALL BE 2X4 MIN @ 16"CC UNO, USE 2X6 FRAMING @ PLUMBING WALLS (FINGER JOINTED STUDS ARE NOT ALLOWED)
- WALL FRAMING SHALL BE CONT BTWN BRACING LOCATIONS SUCH AS ROOF/FLOOR DIAPHRAGMS & FOUNDATION
- STUDS/POSTS @ BRG WALLS, SHEARWALLS, AND EXTERIOR WALLS ARE TO BE BRACED FOR ENTIRE SPAN BY ONE OF THE FOLLOWING METHODS UNO:

A. 3/8" MIN THICKNESS PLY/OSB W/TYP FASTENER SPACING NOT TO EXCEED 12"CC

B. 7/8" MIN THICKNESS PLASTER W/WIRE LATH, ATTACH LATH W/TYP FASTENER SPACING NOT TO EXCEED 6"CC

C. 1 1/2" MIN THICKNESS GWB W/TYP FASTENER SPACING NOT TO EXCEED 7"CC

D. ALTERNATE BRACING METHODS MUST BE SUBMITTED TO RW CONSULTING ENGINEERS FOR APPROVAL PRIOR TO USE
- SILL PLATES

A. WALLS LESS THAN 8'-0" LONG SHALL HAVE SINGLE PIECE SILL PLATE

ALL SILL PLATES SHALL HAVE A MINIMUM OF 2-ABS, HOLDOWN ABS DO NOT COUNT TOWARD THIS REQ'MT

C. ABS SHALL BE NO FARTHER THAN 12" & NO CLOSER THAN 7 BOLT DIAMETERS FROM ENDS OF SILL PLATE

ROUGH CARPENTRY-HARDWARE:

- ALL STEEL CONNECTORS, STRAPS, HANGERS, HARDWARE, ETC SHALL BE BY SIMPSON STRONG-TIE OR APPROVED EQUAL UNO. ATTACH W/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.
- 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.
- FASTENER SUBSTITUTIONS FOR HARDWARE ARE NOT ALLOWED UNLESS APPROVED FOR USE BY THE MFR AND THE HARDWARE CAPACITY IS NOT REDUCED.
- WASHERS AT WOOD CONNECTIONS SHALL BE SQUARE PLATE STEEL OR MALLEABLE IRON W/THE FOLLOWING MIN DIMENSIONS:

FASTENER DIAMETER	MIN WASHER DIMENSIONS	MIN THICKNESS
1/2"	2" x 2"	3/16"
5/8"	2 1/2" x 2 1/2"	1/4"
3/4"	2 3/4" x 2 3/4"	1/4"
7/8"	3" x 3"	3/16"
1"	3 1/2" x 3 1/2"	3/8"

STRUCTURAL SHEET INDEX:

S0.0.1	GENERAL NOTES
S2.1.A	ROOF FRAMING PLAN - BUILDING A
S2.1.B	ROOF FRAMING PLAN - BUILDING B
S2.1.C	ROOF FRAMING PLAN - BUILDING C
S2.1.D	ROOF FRAMING PLAN - BUILDING D
S2.1.E	ROOF FRAMING PLAN - BUILDING E
S2.1.F	ROOF FRAMING PLAN - BUILDING F
S4.0.1	DETAILS
S4.0.2	DETAILS

ABBREVIATIONS:

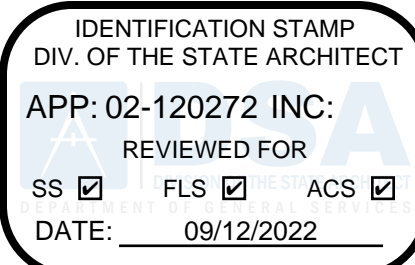
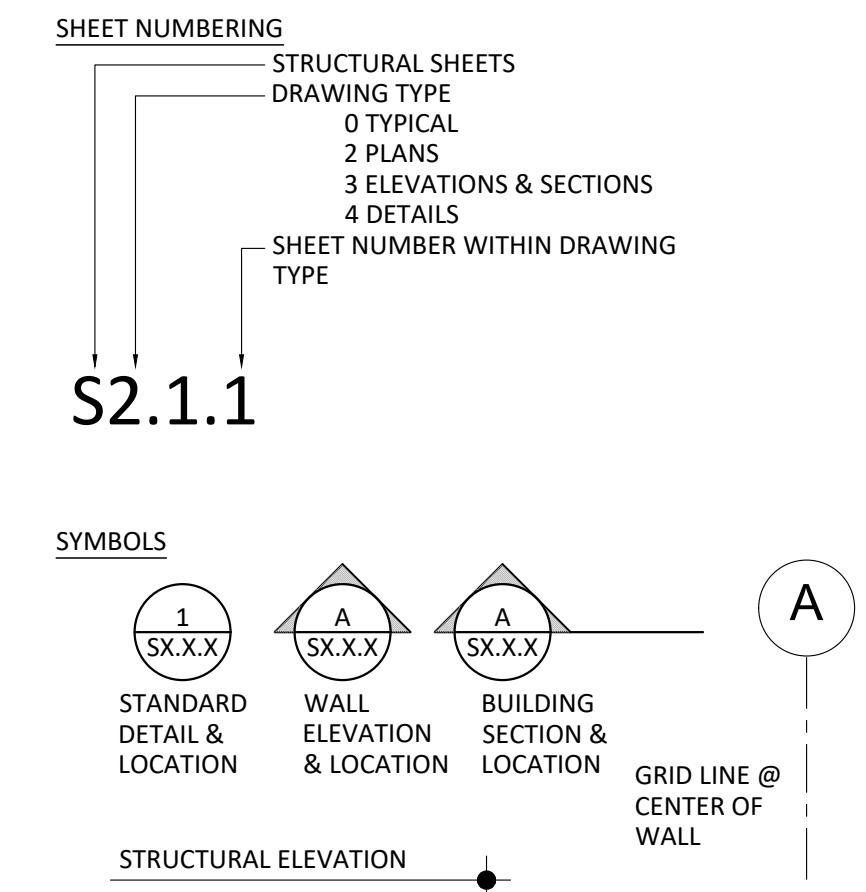
@	AT	LS	LAG SCREW
AB	ANCHOR BOLT	LSL	LAMINATED STRAND LUMBER
approx	APPROXIMATE	LVL	LAMINATED VENEER LUMBER
Arch	ARCHITECT/URAL	MAX	MAXIMUM
BC	BOTTOM CHORD	MIN	MINIMUM
BLK	BLOCK OR BLOCKING	(N)	NEW
BO	BOTTOM OF	#	NUMBER
CBC	CALIFORNIA BUILDING CODE	NTS	NOT TO SCALE
oc	ON CENTER	OD	OUTSIDE DIAMETER
CIP	CAST IN PLACE	OH	OPPOSITE HAND
CJ	CONSTRUCTION JOINT	OV	OVER
CL	CENTER LINE	PL	PLATE
CMU	CONCRETE MASONRY UNIT	PT	PRESSURE TREATED
CONC	CONCRETE	REIN	REINFORCEMENT
CONT	CONTINUOUS	SIM	SIMILAR
DF	DOUGLAS FIR	SP	STRUCTURAL PANEL
Ø	DIAMETER	SW	SHEAR WALL
DL	DEAD LOAD	T&B	TOP AND BOTTOM
DT	DRAG TRUSS	T&G	TONGUE AND GROOVE
(E)	EXISTING	thru	THROUGH
EN	EDGE NAIL	TN	TOE NAIL
EOR	ENGINEER OF RECORD	TS	TOP OF STEEL
FDN	FOUNDATION	TYP	TYPICAL
FF	FINISH FLOOR	UNO	UNLESS NOTED OTHERWISE
FO	FACE OF	W/O	WITHOUT
FOOT	FOOT/FEET	VIF	VERIFY IN FIELD
FTG	FOOTING	W/O	WITHOUT
FRMG	FRAMING	WWF	WELDED WIRE FABRIC
GLB	GLUE LAMINATED BEAM		
HD	HOLD DOWN		
HDG	HOT-DIPPED GALVANIZED		
HDR	HEADER		

GENERAL NOTES:

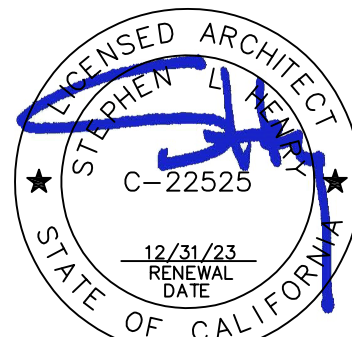
- ALL NEW WORK SHALL CONFORM TO TITLE 24 2019 EDITIONS WITH AMENDMENTS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
- THIS SET OF STRUCTURAL DRAWINGS IS APPLICABLE ONLY TO THE LISTED PROJECT AND SITE LOCATION.
- NOTES ON THIS SHEET ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. TYPICAL DETAILS SHALL APPLY FOR ALL LIKE CONDITIONS UNLESS OTHERWISE NOTED OR DETAILED.
- 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.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO RELEVANT 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 REQUIREMENTS.
- 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.
- A COPY OF TITLE 24 COR PARTS 1 - 5 SHALL BE KEPT ON SITE AT ALL TIMES (T-24 PART 1, 4-317(C).
- ALL CHANGES TO THE ACCESSIBILITY, FIRE AND LIFE SAFETY, AND STRUCTURAL PORTIONS OF THE APPROVED DRAWINGS SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD). ALL SUCH CHANGES BY CCD ARE TO BE SIGNED BY THE SEOR, THE OWNER, AND APPROVED BY DSA. CHANGES BY CCD ARE NOT VALID UNTIL APPROVED BY DSA (T-24, PART 1, 4-338).
- A PROJECT INSPECTOR (INSPECTOR OF RECORD, IOR) EMPLOYED BY THE OWNER/DISTRICT AND CERTIFIED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK

- THE STRUCTURAL ENGINEER SHALL PERFORM DUTIES PER T-24 PART 1, 4-333(a) AND 4-341. THE CONTRACTOR SHALL PERFORM DUTIES PER 4-343. THE IOR SHALL PERFORM DUTIES PER T-24 PART 1, 4-342.

DRAWING STANDARDS:



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Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



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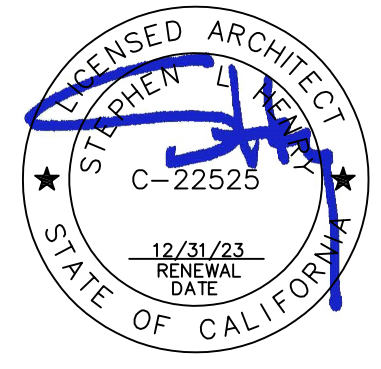
GENERAL NOTES

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916.716.6910



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S0.0.1



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ROOF FRAMING PLAN
BUILDING A

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S2.1.A

STRUCTURAL PLAN NOTES:

- CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
- STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE RENOVATION UPGRADES TO EACH BUILDING. ALL WORK PERFORMED IS TO NOT IMPACT EXISTING LATERAL FORCE RESISTING SYSTEM.

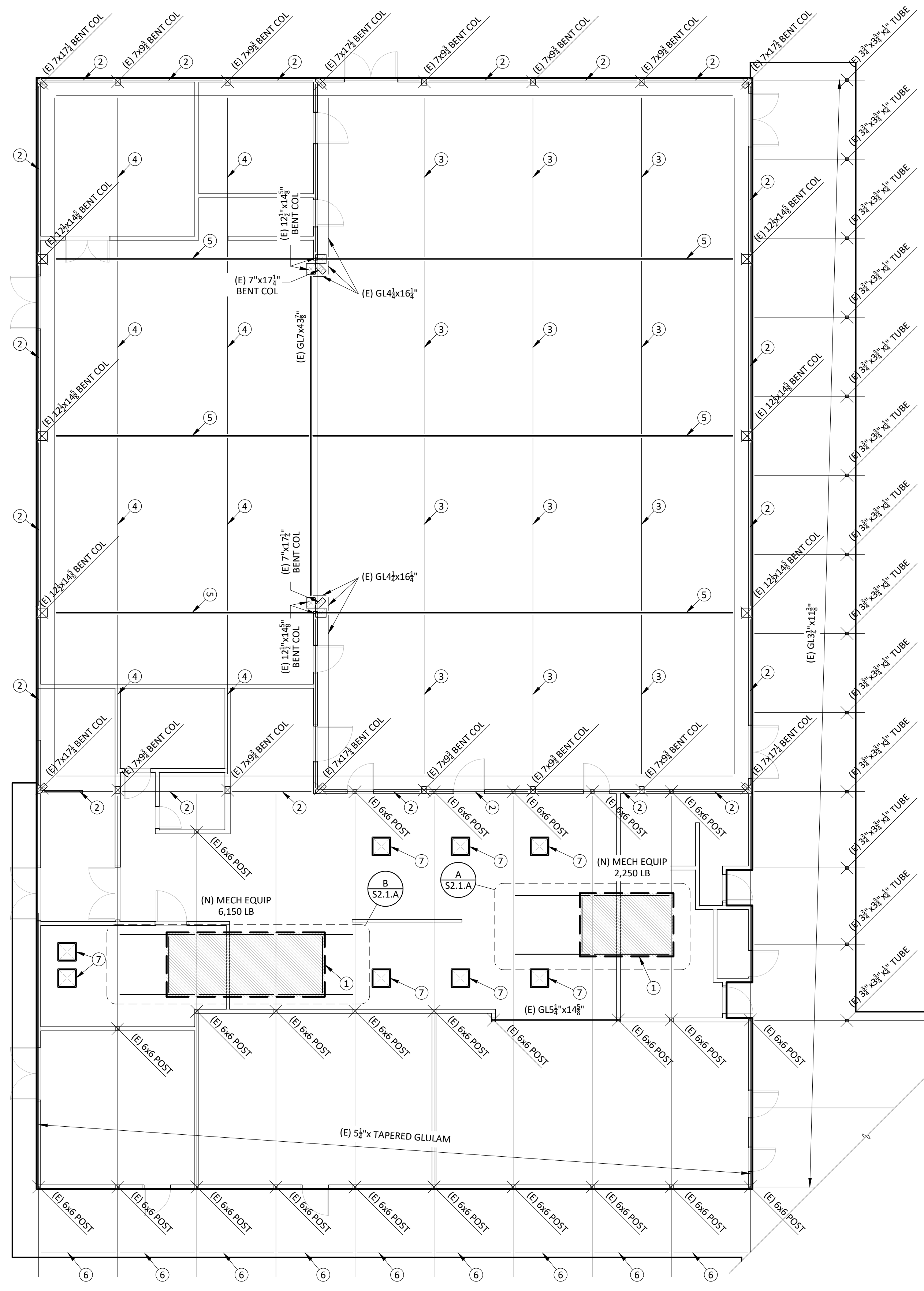
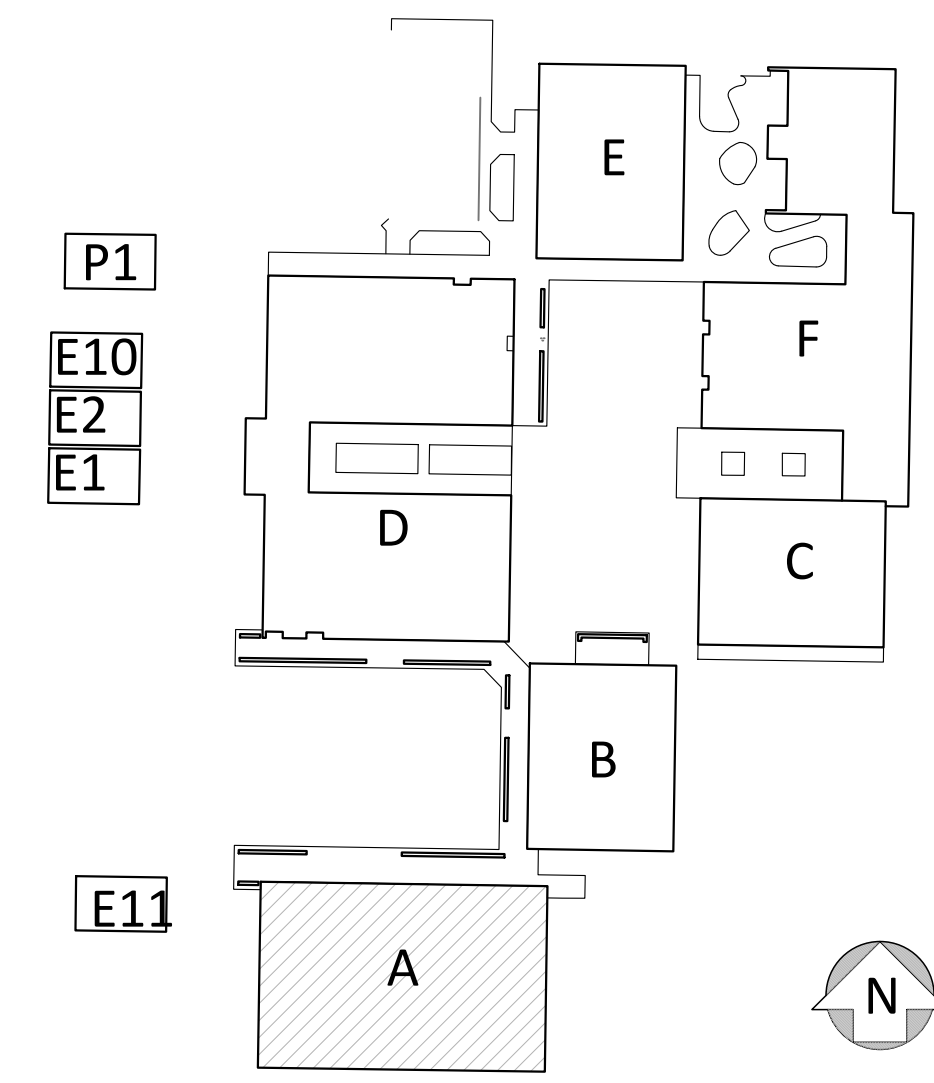
STRUCTURAL PLAN LEGEND:

EXISTING WALL =
EXISTING FRAMING MEMBER =

ROOF FRAMING PLAN KEY NOTES:

- (N) MECHANICAL EQUIPMENT IN (E) LOCATION - (N) FRAMING REQUIRED TO SUPPORT (N) CURB WITH DIFFERENT FOOTPRINT
- (E) GL3 $\frac{1}{2}$ "x14 $\frac{5}{8}$ " BEAM
- (E) GL4 $\frac{1}{2}$ "x14 $\frac{5}{8}$ " BEAM
- (E) GL5 $\frac{1}{2}$ "x14 $\frac{5}{8}$ " BEAM
- (E) 7x TAPERED GL BEAM
- (E) GL3 $\frac{1}{2}$ "x16 $\frac{1}{4}$ " BEAM
- (E) OPENING IN ROOF TO REMAIN

BUILDING KEY PLAN:



ROOF FRAMING PLAN
BUILDING A


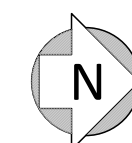
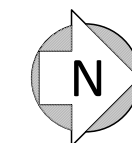
$\frac{1}{8}$ " = 1'-0"

PLAN A

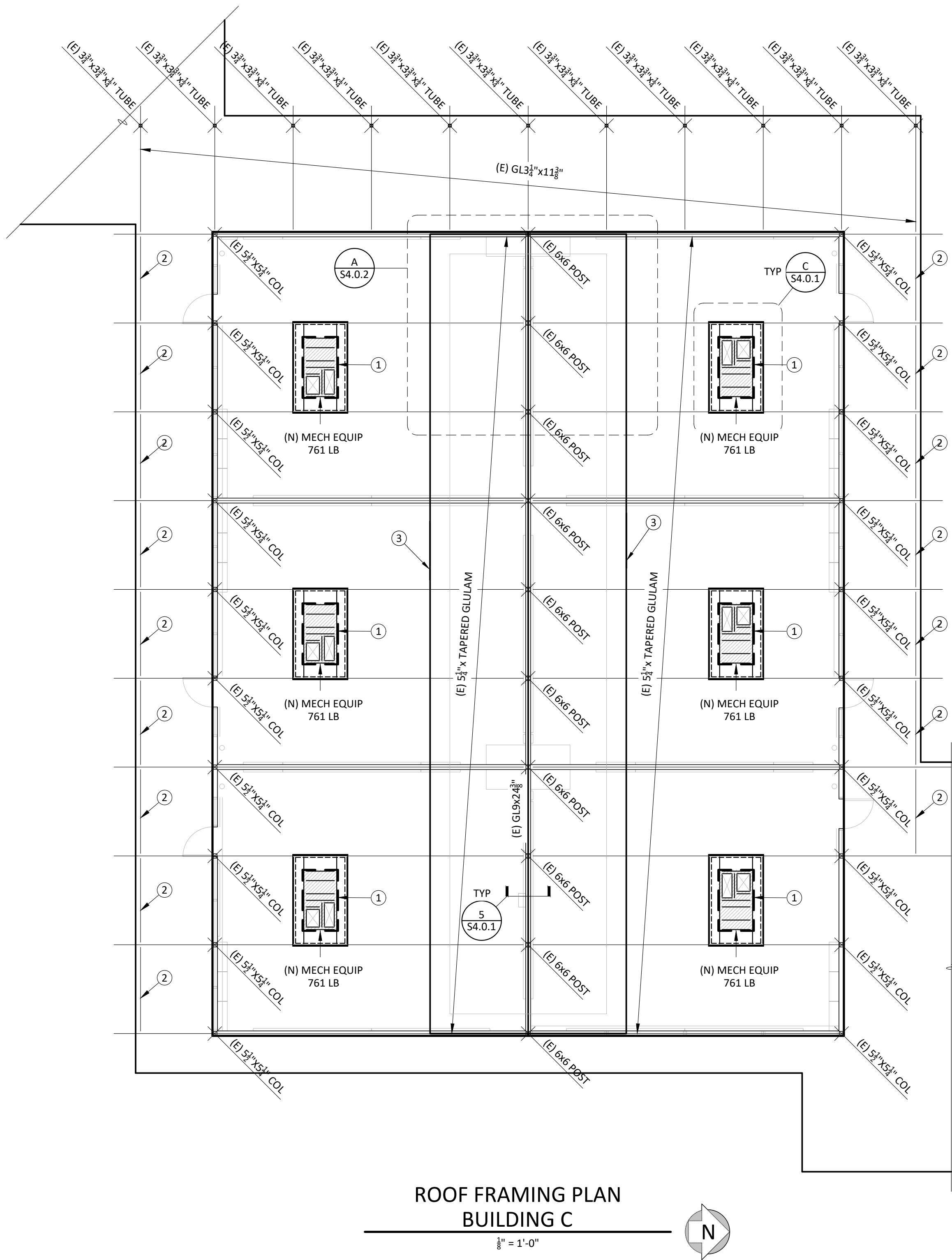
$\frac{1}{2}$ " = 1'-0"

PLAN B

$\frac{1}{2}$ " = 1'-0"



3 OF 9 SHEETS



STRUCTURAL PLAN NOTES:

- CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
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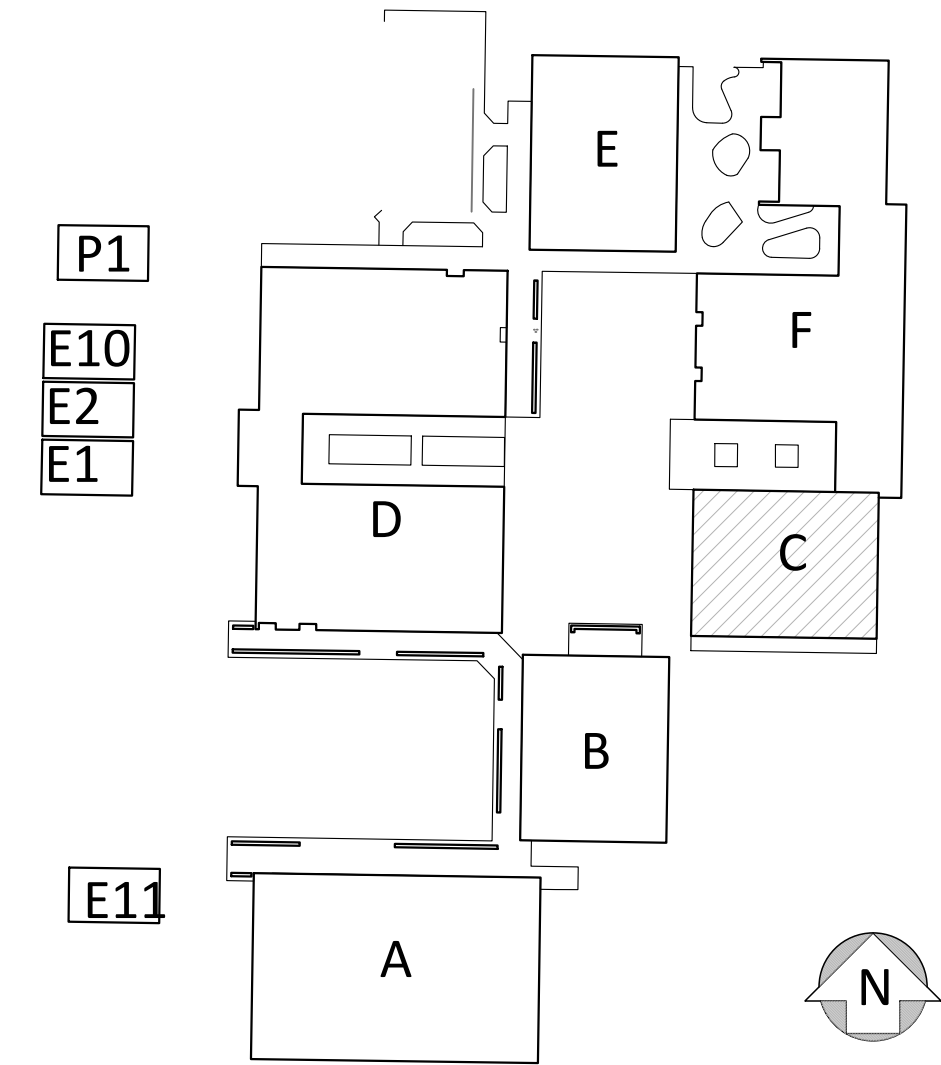
STRUCTURAL PLAN LEGEND:

EXISTING WALL
EXISTING FRAMING MEMBER

ROOF FRAMING PLAN KEY NOTES:

- (N) FRAMED PLATFORM UNDER (N) MECHANICAL EQUIPMENT - SEE C/S4.0.1
- (E) GL3 3/4" x 1 1/8"
- EDGE OF EXISTING PENTHOUSE ROOF

BUILDING KEY PLAN:



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Sacramento, CA 95825
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Fax: 916.921.2212



HVAC REPLACEMENT
LODI MIDDLE SCHOOL

ROOF FRAMING PLAN
BUILDING C

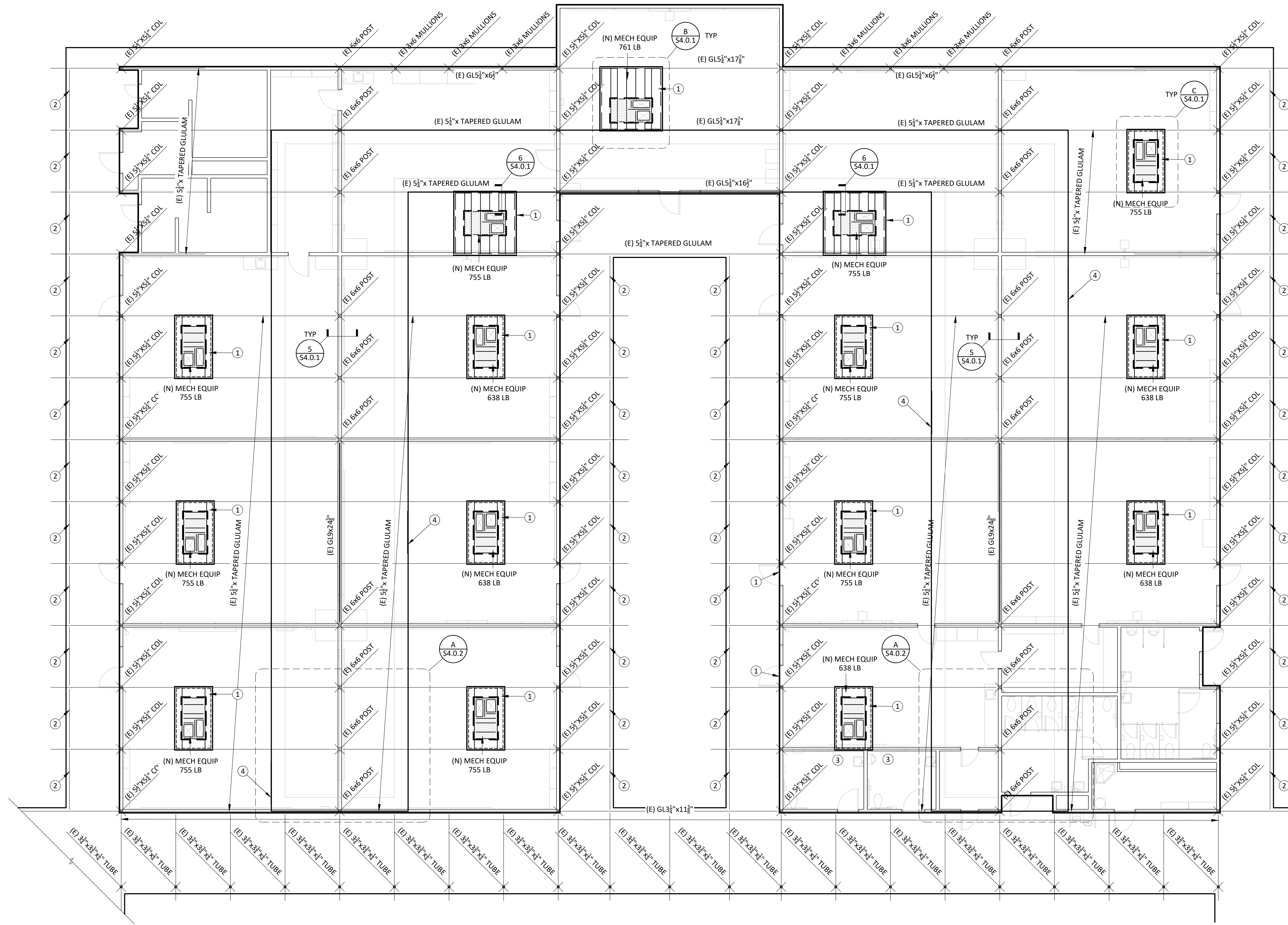
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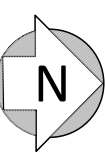
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S2.1.C



ROOF FRAMING PLAN
BUILDING D

1/8" = 1'-0"



STRUCTURAL PLAN NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
2. STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE RENOVATION UPGRADES TO EACH BUILDING. ALL WORK PERFORMED IS TO NOT IMPACT EXISTING LATERAL FORCE RESISTING SYSTEM.

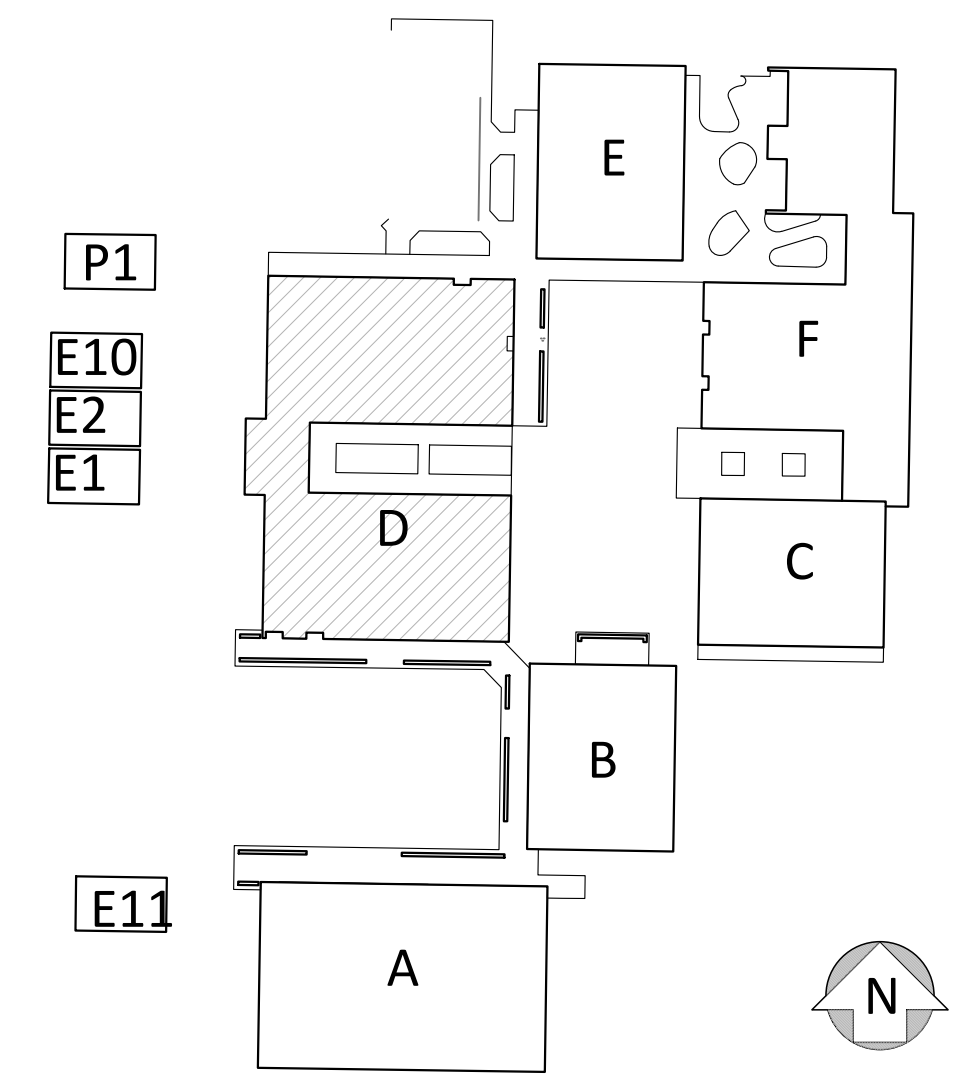
STRUCTURAL PLAN LEGEND:

- EXISTING WALL =
- EXISTING FRAMING MEMBER =

ROOF FRAMING PLAN KEY NOTES:

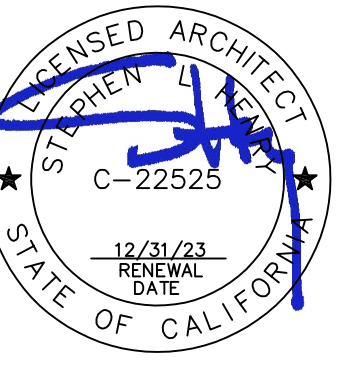
1. (N) FRAMED PLATFORM UNDER (N) MECHANICAL EQUIPMENT - SEE B/S4.0.1 & C/S4.0.1
2. (E) 3 3/8" x 16 1/8" GL
3. ADA UPGRADES TO RESTROOMS, NO STRUCTURAL SCOPE - SEE ARCHITECTURAL AND PLUMBING DRAWINGS
4. EDGE OF EXISTING PENTHOUSE ROOF

BUILDING KEY PLAN:



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ROOF FRAMING PLAN
BUILDING D

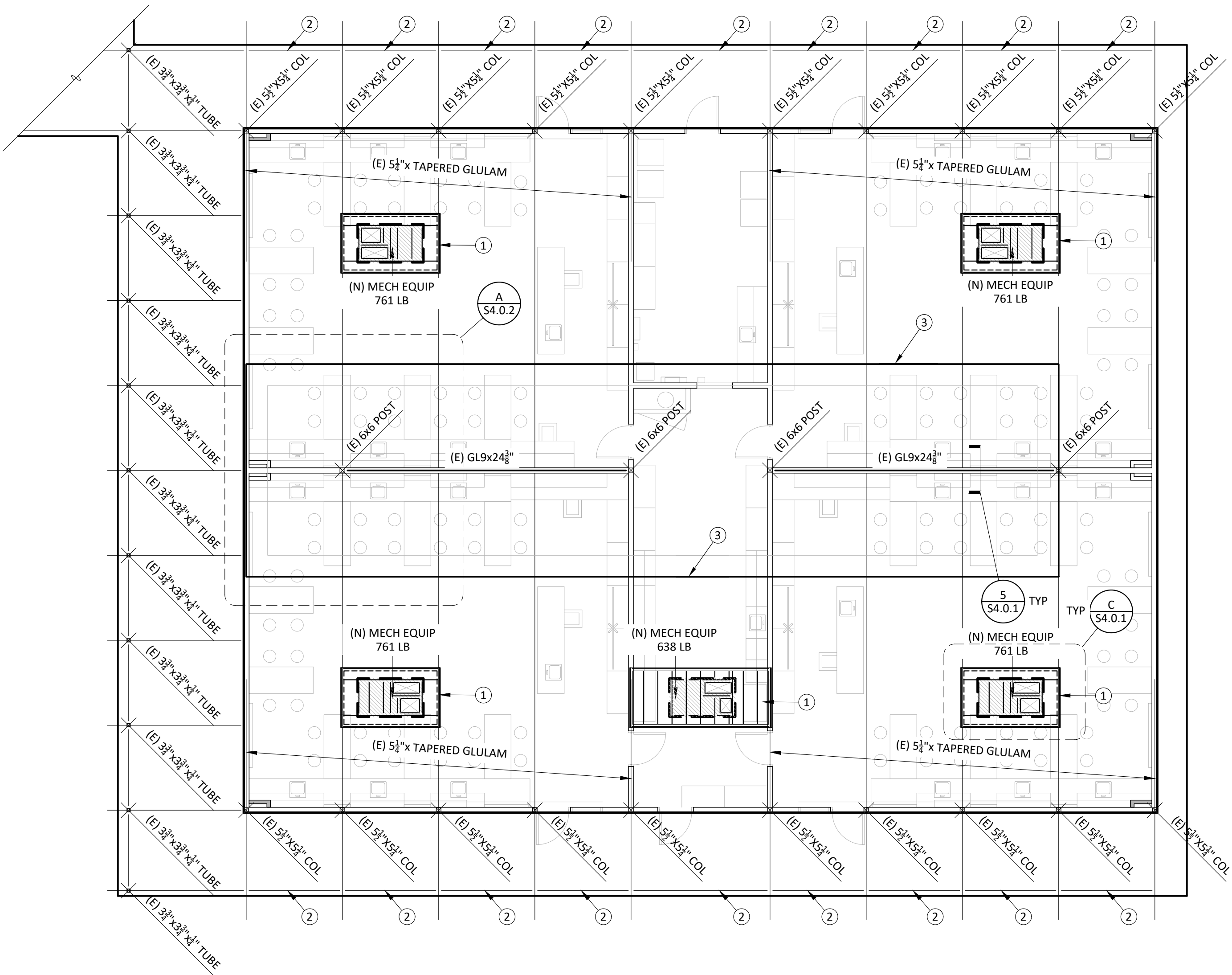
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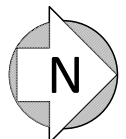
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S2.1.D



ROOF FRAMING PLAN
BUILDING E

1/8" = 1'-0"



STRUCTURAL PLAN NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING.
2. STRUCTURAL SCOPE IS LIMITED TO MISCELLANEOUS FRAMING MODIFICATIONS TO ACCOMMODATE RENOVATION UPGRADES TO EACH BUILDING. ALL WORK PERFORMED IS TO NOT IMPACT EXISTING LATERAL FORCE RESISTING SYSTEM.

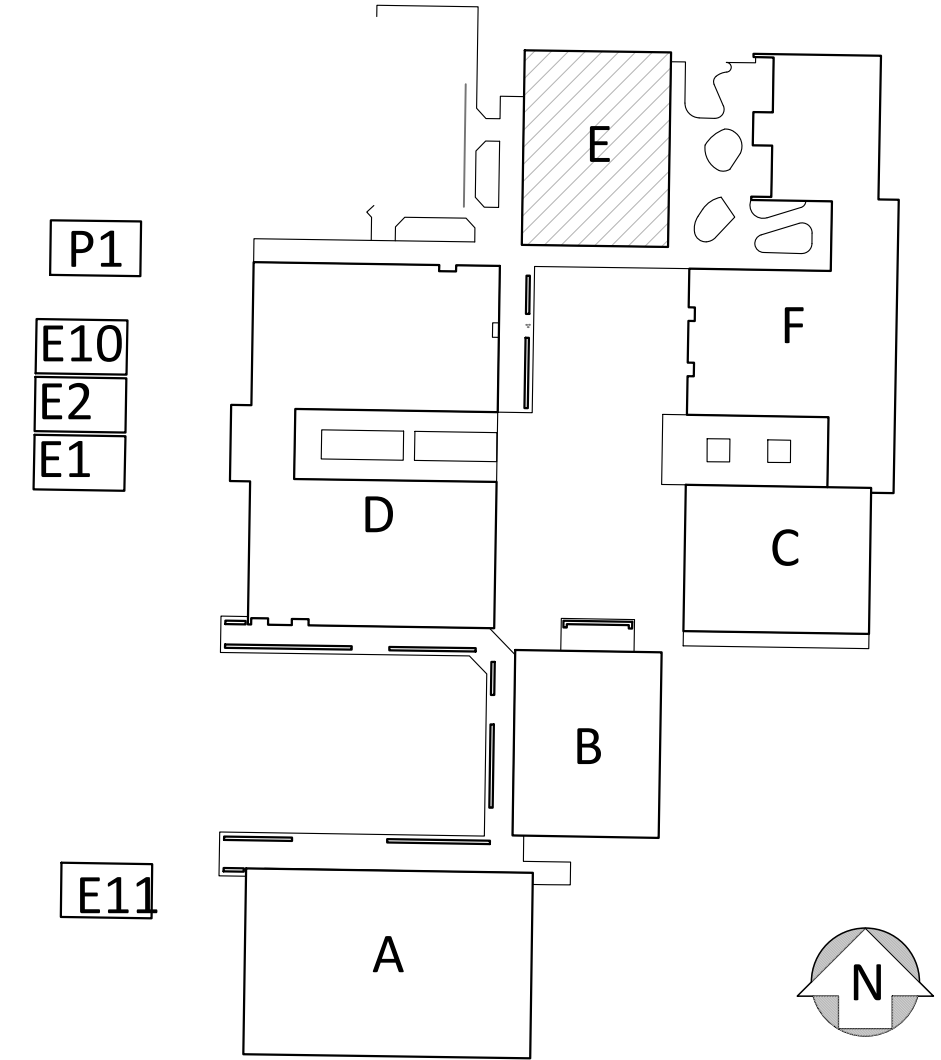
STRUCTURAL PLAN LEGEND:

EXISTING WALL
EXISTING FRAMING MEMBER

ROOF FRAMING PLAN KEY NOTES:

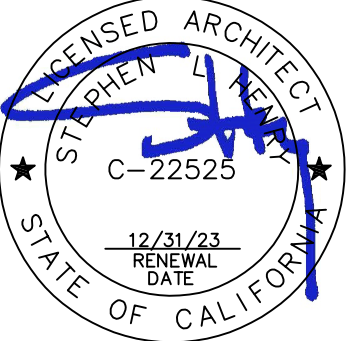
- 1 (N) FRAMED PLATFORM UNDER (N) MECHANICAL EQUIPMENT - SEE C/S4.0.1
- 2 (E) 3 1/2"x16 1/2" GL
- 3 EDGE OF EXISTING PENTHOUSE ROOF

BUILDING KEY PLAN:



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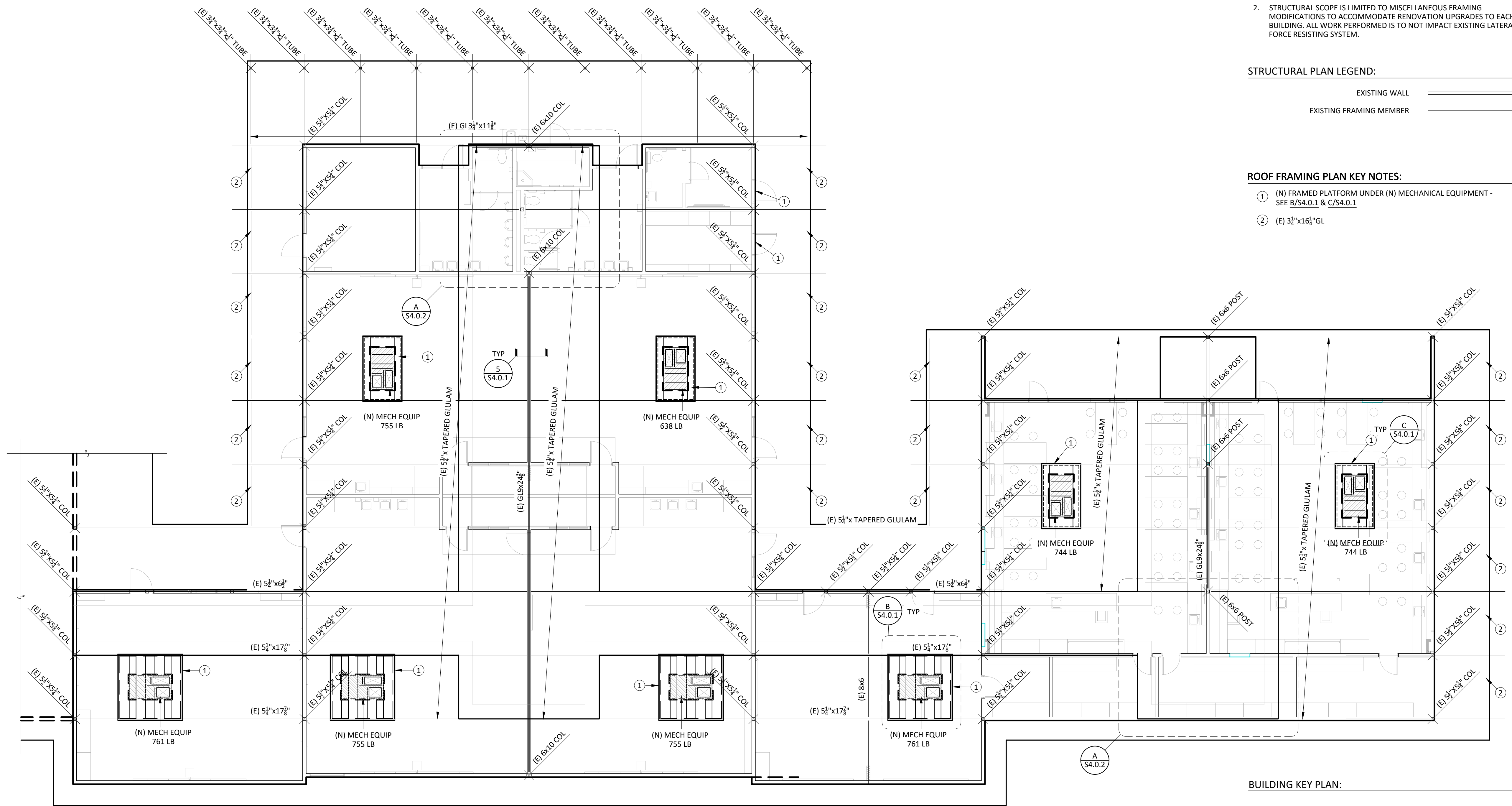
ROOF FRAMING PLAN
BUILDING E

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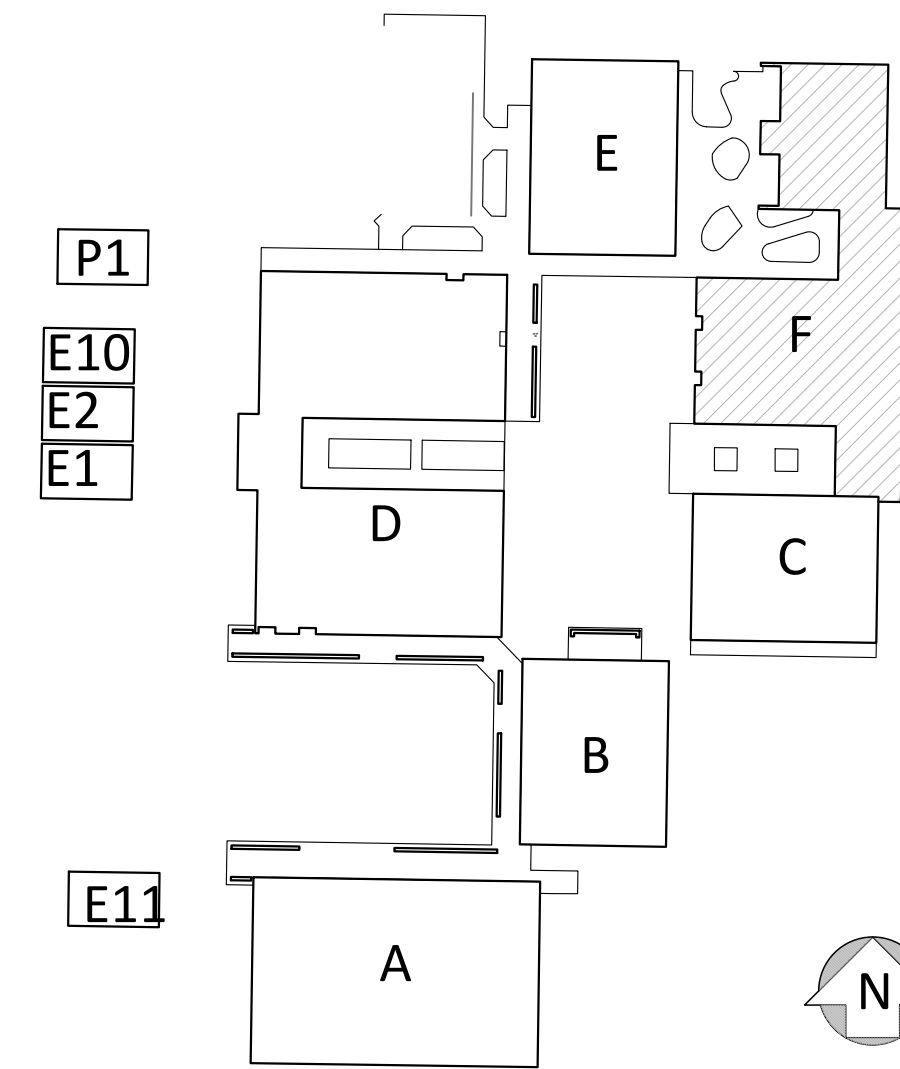
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S2.1.E



ROOF FRAMING PLAN
BUILDING F
1/8" = 1'-0"

BUILDING KEY PLAN:



P1
E10
E2
E1

E11

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

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U

V

W

X

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AA

AB

AC

AD

AE

AF

AG

AH

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AJ

AK

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BS

BT

BU

BV

BW

BX

BY

BZ

CA

CB

CC

CD

CE

CF

CG

CH

CI

CJ

CK

CL

CM

CN

CO

CP

CQ

CR

CS

CT

CU

CV

CW

CX

CY

CZ

DA

DB

DC

DD

DE

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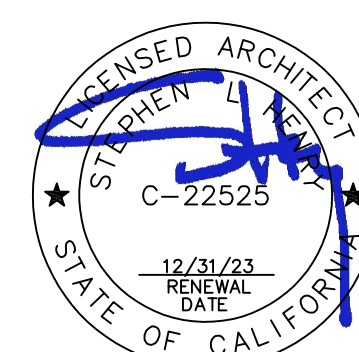
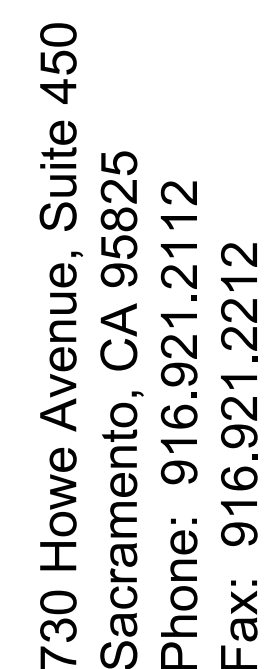
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DETAILS

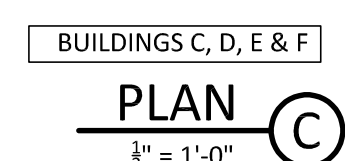
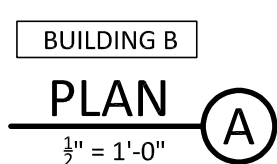
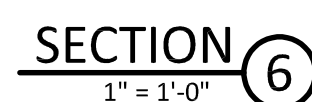
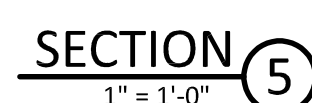
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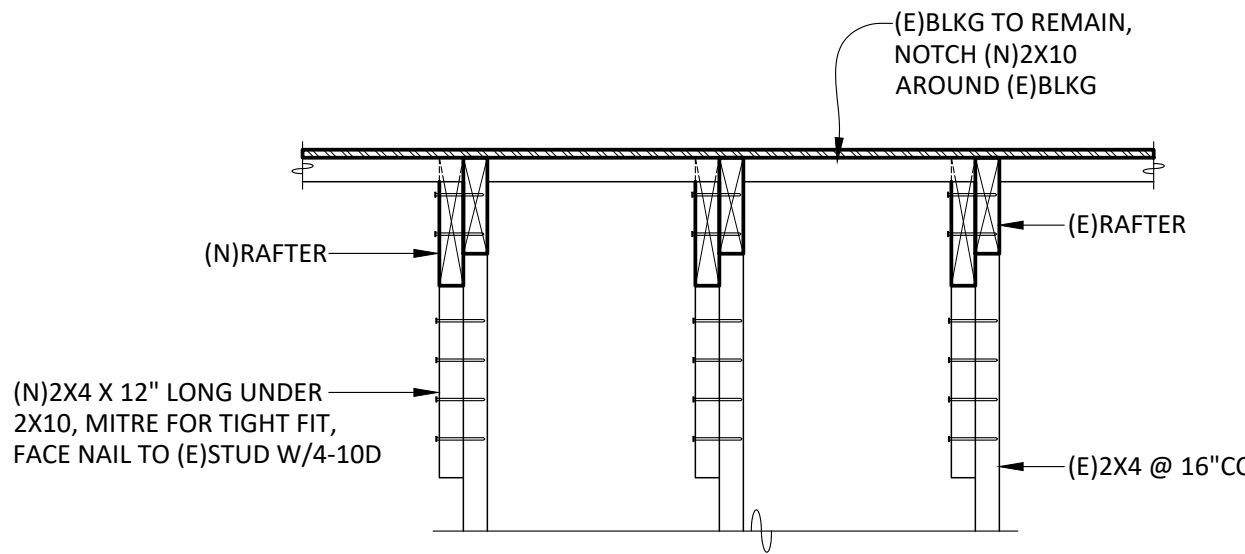


REGISTERED PROFESSIONAL ENGINEER
GREGORY I. RICHARDS
84555
Exp. 12/31/2022
STRUCTURAL
STATE OF CALIFORNIA

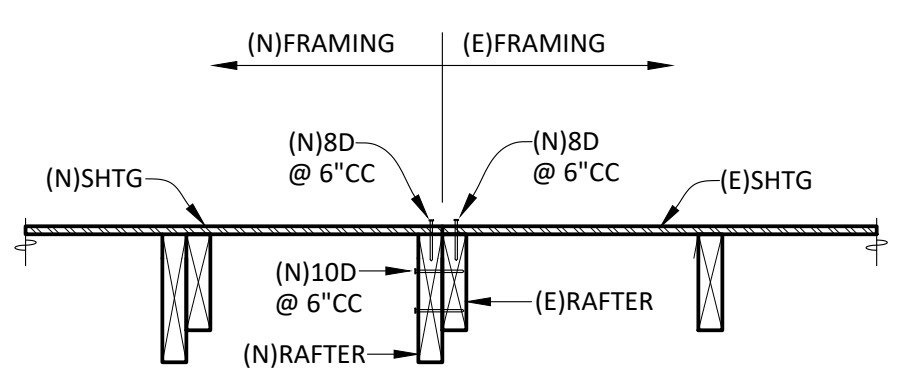
PROJECT NO. 22-32-057	REVISIONS	BY
DATE 8/26/2022		GR
DRAWN GR		
CHECKED GR		
SCALE		
CADFILE		
UPDATED		

8 OF 9 SHEETS



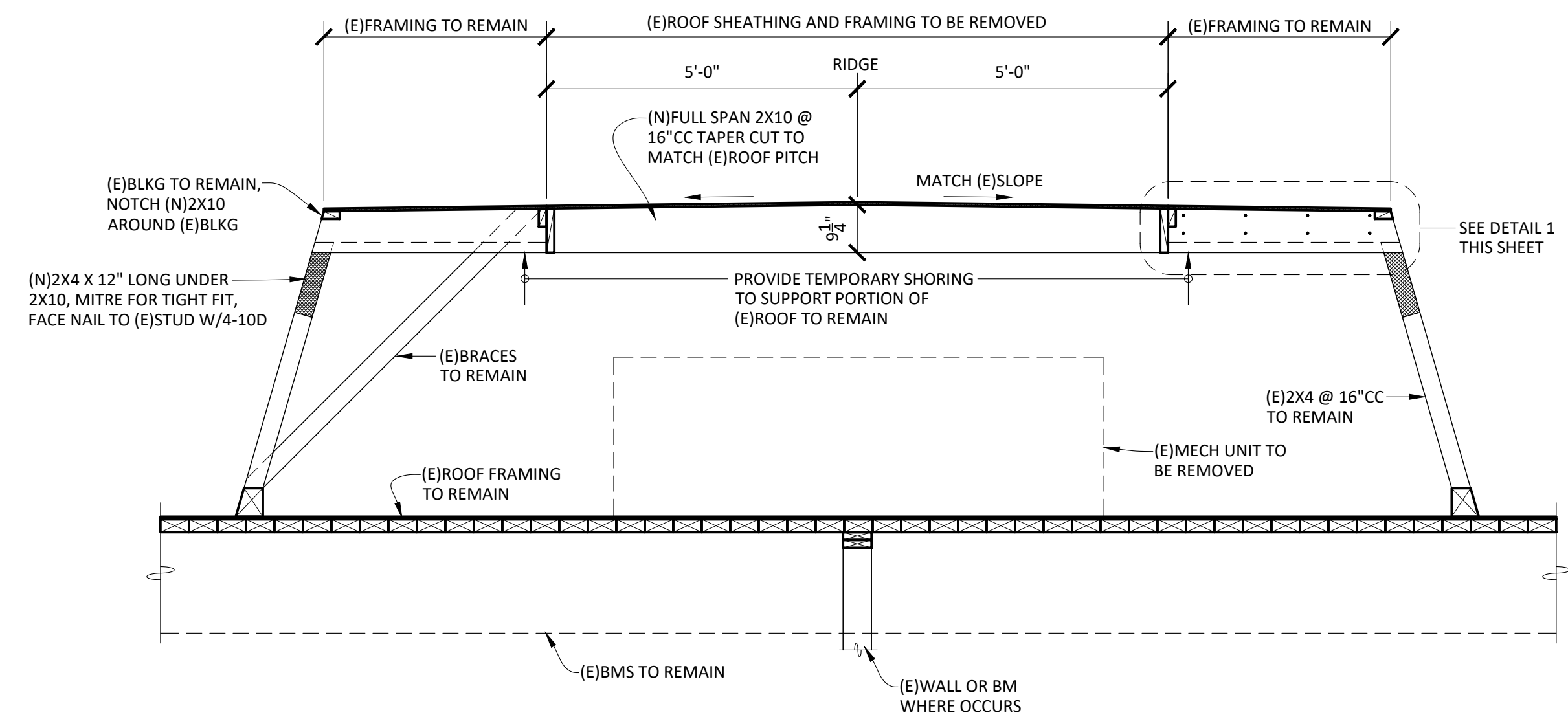


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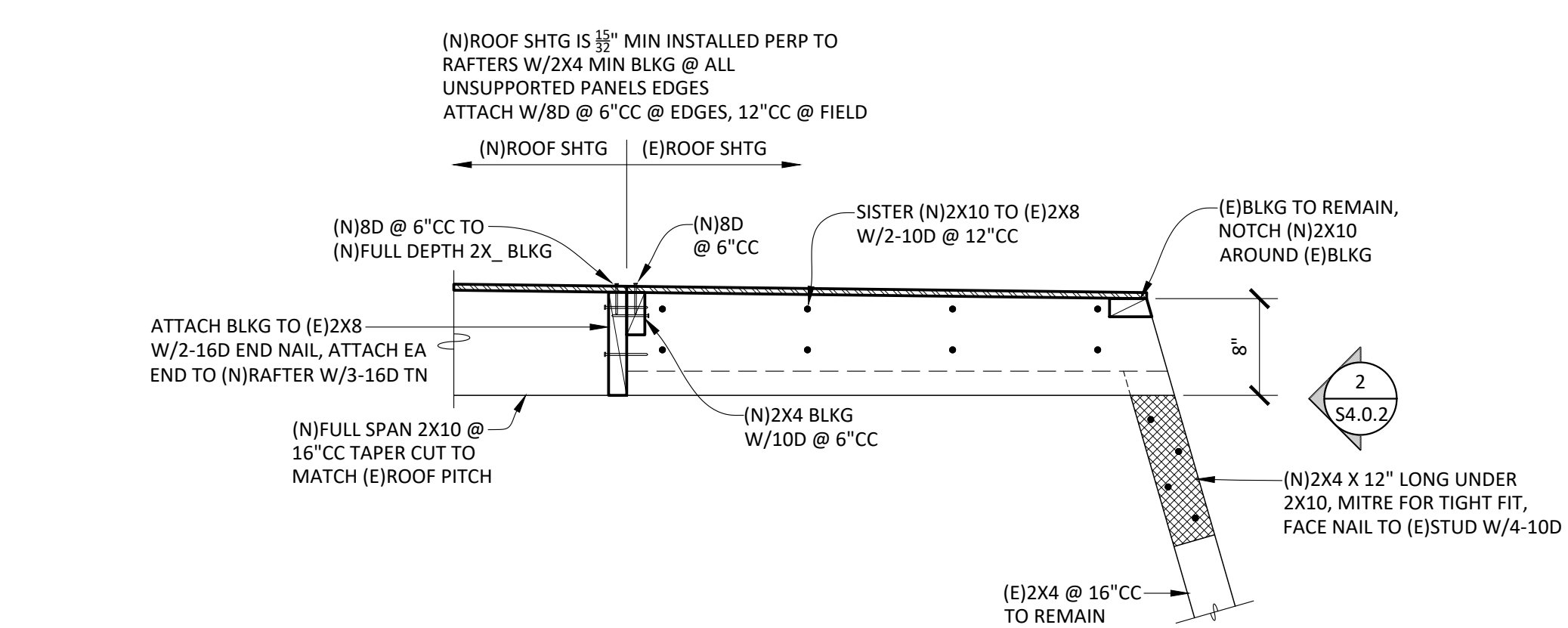


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1" = 1'-0"

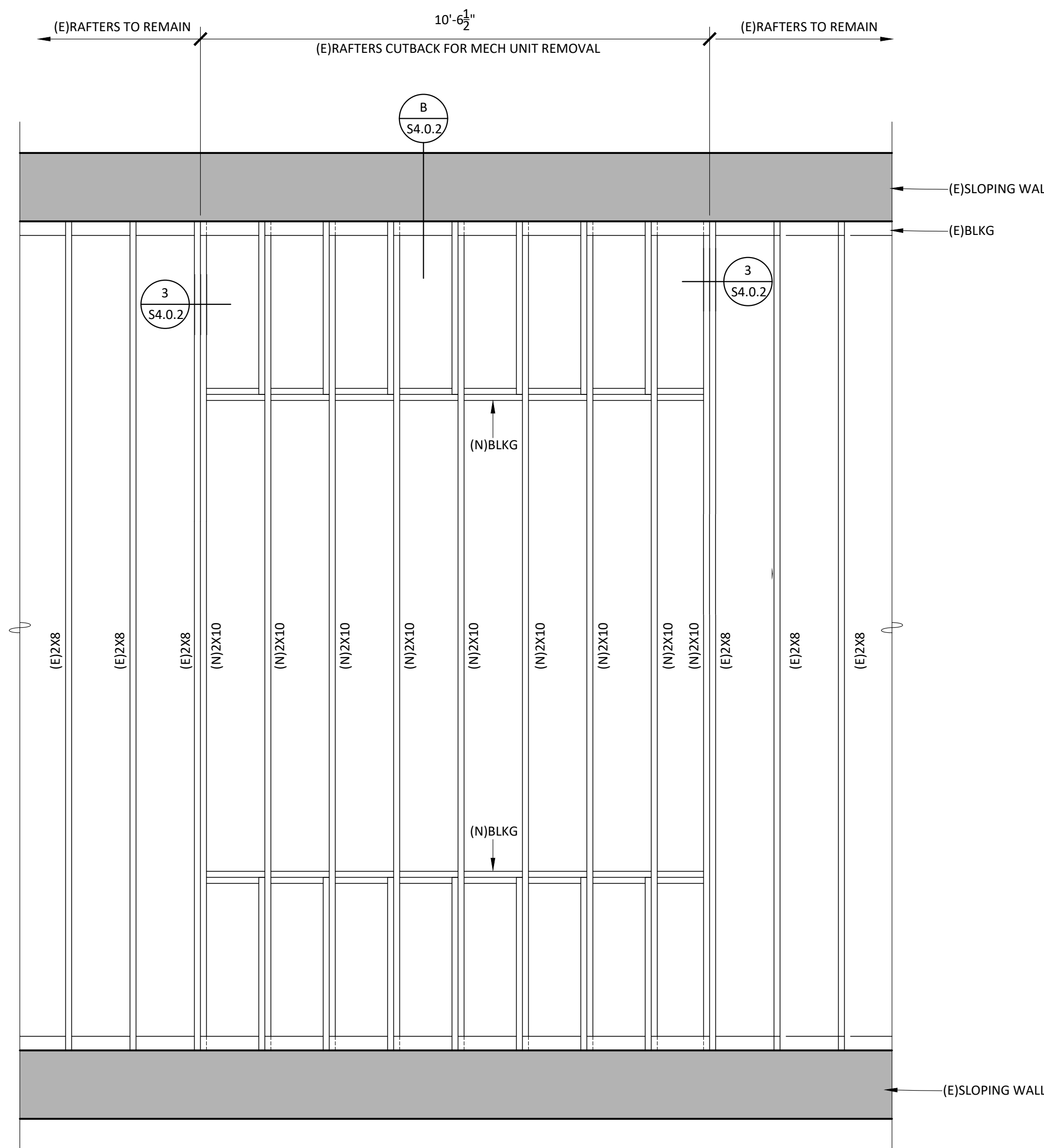
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PLAN AND DETAILS ON THIS SHEET ARE TO BE USED WHERE EXISTING EQUIPMENT IS TO BE REMOVED FROM PENTHOUSE ROOF AREAS - COORDINATE SCOPE WITH MECHANICAL DRAWINGS



PENTHOUSE SECTION B
1/2" = 1'-0"



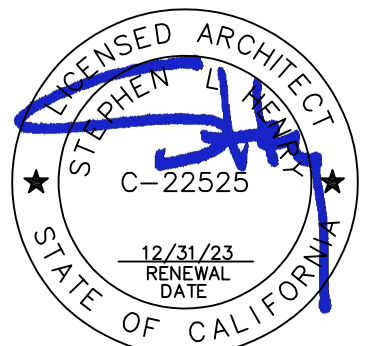
DETAIL 1
1" = 1'-0"



PENTHOUSE ROOF PARTIAL FRAMING PLAN A
1/2" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DETAILS

RW CONSULTING
Engineers Inc
1450 HARBOR BLVD SUITE F
WEST SACRAMENTO, CA 95691
916.716.6910



8/26/2022

PROJECT NO.	REVISIONS	BY
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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 2019 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTER 13, 26 AND 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING 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 ARE 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.

- 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.
- 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 COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8, AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

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

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

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

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

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.
- 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.
- 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.
- 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.
- (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.
- WHERE INLET DUCT DIAMETER AND DIFFUSER NECK SIZE ARE THE SAME (I.E. 9"ø & 9x9) CONTRACTOR SHALL OVERSIZE THE SHEET METAL PLENUM TO ACCOMMODATE THE ROUND DUCT CONNECTION.
- THERMOSTATS AND ROOM TEMPERATURE SENSORS SHALL BE INSTALLED AT 46" ABOVE FINISHED FLOOR (TO TOP OF DEVICE). DO NOT INSTALL THERMOSTATS AND ROOM TEMPERATURE SENSORS ABOVE CASEWORK, SHELVEING OR OTHER OBSTRUCTIONS OVER 24" IN DEPTH AND 34" IN HEIGHT.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLING PIPING AND ASSOCIATED ITEMS.
- ALL MECHANICAL UNITS ARE SHOWN FOR REFERENCE AND COORDINATION ONLY. SEE "M" SHEETS.
- OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
- FIELD VERIFY EXACT SIZES, LOCATIONS AND ELEVATIONS OF ALL PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO TRENCHING OR INSTALLING OF ANY NEW WORK.
- PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.

MECHANICAL LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	ABV	ABOVE
	ABC	ABOVE CEILING
	AF	ABOVE FLOOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	AD , AP	ACCESS DOOR , ACCESS PANEL
	AC	AIR CONDITIONING
	APD	AIR PRESSURE DROP, INCHES WATER COLUMN
	AB	ANCHOR BOLT
	ANV	ANGLE VALVE
	BV	BALL VALVE
	BDD	BACK DRAFT DAMPER
	BF	BELOW FLOOR
	BHP	BRAKE HORSE POWER
	BTU(H)	BRITISH THERMAL UNITS (PER HOUR)
	BPT	BYPASS TIMER
	CC	CENTER TO CENTER
	CLG	CEILING
	CEF	CEILING EXHAUST FAN
	CKV	CHECK VALVE
	CHWS	CHILLED WATER SUPPLY PIPING
	CHWR	CHILLED WATER RETURN PIPING
	CP	CIRCULATING PUMP
	CLR	CLEAR
	CONC	CONCRETE
		CONCENTRIC REDUCER
	CD	CONDENSATE DRAIN
	COND	CONDENSER
	CWS	CONDENSER WATER SUPPLY PIPING
	CWR	CONDENSER WATER RETURN PIPING
	CONN	CONNECT OR CONNECTION
	CONN	CONTINUATION
	CONTR	CONTRACTOR
	CFM	CUBIC FEET OF AIR FLOW PER MINUTE
	DPR	DAMPER
		DEGREES FAHRENHEIT
	DIA	DIAMETER , PHASE
	DL	DOOR LOUVER
	DN	DOWN
	DR	DRAIN
	DB	DRY BULB (DEGREES FAHRENHEIT)
	DS	DYNAMIC SENSOR
		ECCENTRIC REDUCER
	EP	ELECTRICAL PANEL
	EL	ELEVATION
	ENT	ENTERING
	EDB	ENTERING DRY BULB
	EW	ENTERING WATER
	EWI	ENTERING WATER TEMPERATURE
	EWB	ENTERING WET BULB
	EVAP	EVAPORATOR
	EA	EXHAUST AIR
	EAD	EXHAUST AIR DAMPER
	EF	EXHAUST FAN
	(E), EXIST	EXISTING
	(E)	EXISTING TO BE REMOVED
	ESP	EXTERNAL STATIC PRESSURE
	FPM	FEET PER MINUTE
	FD	FIRE DAMPER
	FS	FIRE/SMOKE DAMPER
	FC	FLEXIBLE CONNECTION
	FA	FROM ABOVE
	FB	FROM BELOW
	FLA	FULL LOAD AMPS
	GPH	GALLONS PER HOUR

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.

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](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.

MECHANICAL LEGEND cont'd

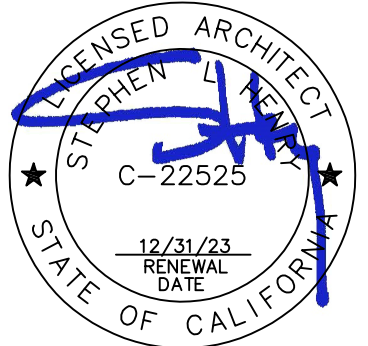
SYMBOL	ABBREVIATION	DESCRIPTION
	GPM	GALLONS PER MINUTE
	GV	GATE VALVE
	GLV	GLOBE VALVE
	GALV	GALVANIZED
	GI	GALVANIZED IRON
	GA	GAUGE
	HW	HOT WATER
	HWS	HOT WATER SUPPLY PIPING
	HWR	HOT WATER RETURN PIPING
	H	HUMIDISTAT, "X" INDICATES SYSTEM CONTROLLED
	KW	KILOWATTS
	KWH	KILOWATT HOUR
	LDB	LEAVING DRY BULB IN DEGREES FAHRENHEIT
	LWB	LEAVING WET BULB IN DEGREES FAHRENHEIT
	LRA	LOCKED ROTOR AMPERES
	LVR	LOUVER
	MAD	MANUAL AIR DAMPER
	MFR	MANUFACTURER
	MAX	MAXIMUM
	MIN	MINIMUM
	MCD	MOTORIZED CONTROL DAMPER
	(N)	NEW
	OCC	OCCUPANCY SENSOR
	OC	ON CENTER
	OA	OUTSIDE AIR
	OAD	OUTSIDE AIR DAMPER
	OD	OUTSIDE DIAMETER
	OV	OUTLET VELOCITY
		PIPE ANCHOR
		PIPE DROP
		PIPE GUIDE
		PIPE RISE
		PITCH DOWN IN DIRECTION OF FLOW
		POINT OF CONNECTION
		POUNDS
	PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
	PD	PRESSURE DROP
	PG	PRESSURE GAUGE
	RG	REFRIGERANT GAS PIPING
	RS	REFRIGERANT SUCTION PIPING
	RL	REFRIGERANT LIQUID PIPING
	RA	RETURN AIR
	RAD	RETURN AIR DAMPER
	RPM	REVOLUTIONS PER MINUTE
	RLA	RUNNING LOAD AMPERES
	SB	SECURITY BARS
	SM	SHEET METAL
	SD	SMOKE DAMPER
	SKD	SMOKE DETECTOR
	SD	SPLITTER DAMPER
		SQUARE FEET
	SQIN, IN ²	SQUARE INCHES
	SP	STATIC PRESSURE
	SPD	STATIC PRESSURE DROP
		STEAM TRAP (ALL TYPES)
	STR	STRAINER
	SA	SUPPLY AIR
	SF	SUPPLY FAN
	TCP	TEMPERATURE CONTROL PANEL
	TCV	TEMPERATURE CONTROL VALVE
		TEMPERATURE SENSOR, "X" INDICATES SYSTEM CONTROLLED, INSTALLED AT +46" AFF (TO TOP OF DEVICE)
		THERMOMETER
	T	THERMOSTAT, "X" INDICATES SYSTEM CONTROLLED, INSTALLED AT +46" AFF (TO TOP OF DEVICE)
		THOUSAND BRITISH THERMAL UNITS PER HOUR
	MBH	TO ABOVE
	TA	TO BELOW
	TB	TOTAL PRESSURE
	TP	TOTAL STATIC PRESSURE
	TSP	TYPICAL
	TYP	UNDERGROUND
	UG	UNDER CUT DOOR
	UCD	UNLESS OTHERWISE NOTED
	UON	UNION
		VALVE
		VALVE IN RISER (TYPE AS INDICATED OR NOTED)
		VALVE IN VALVE BOX
		WATER PRESSURE DROP
	WPD	WATTS
	W	WEIGHT
	WT	WET BULB
	WB	WIRE MESH SCREEN
	WMS	WORKING PRESSURE
	WP	2-WAY CONTROL VALVE
		3-WAY CONTROL VALVE



RANCHO CORONA, CALIFORNIA
MCM - BV 220208.00
PM - DESIGN TEAM PROJECT NO.

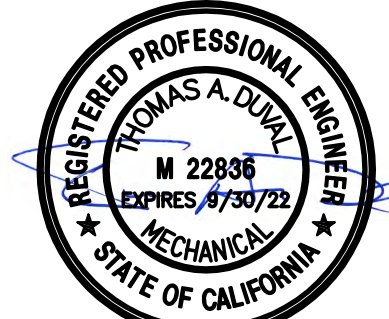
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL
LEGEND

CONSULTANT



DATE SIGNED: 07/05/22

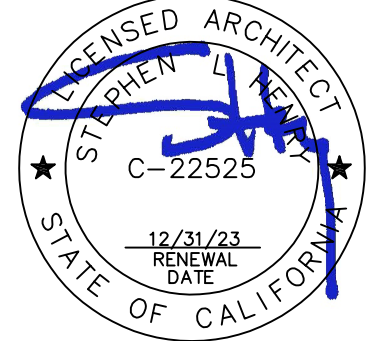
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DATE 2/17/2021		
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CHECKED MCM		
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CADFILE 01-MO.0.1.DWG		
UPDATED 8/26/2022		
SHEET NO.		

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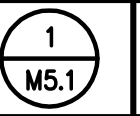
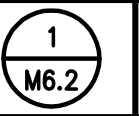

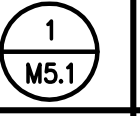
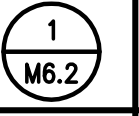
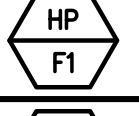
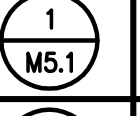
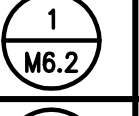
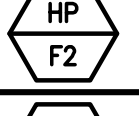
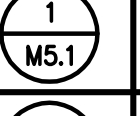
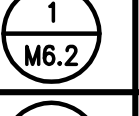

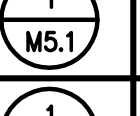
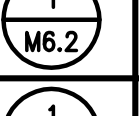

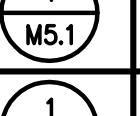
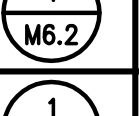

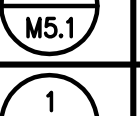





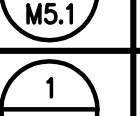
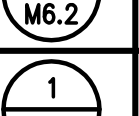
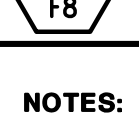


PACKAGED HEAT PUMP UNIT SCHEDULE																																															
UNIT	SERVES	"CARRIER" MODEL NO. U.N.O.	NOM. TONS	CFM	MIN. O.A. (CFM)	ESP (IN. W.G.)	DX COOLING				HP HEATING		HP UNIT ELECTRICAL DATA														PWR. EXH. ECON. ELECTRICAL DATA				EFFICIENCY				OPERATING WEIGHT (LBS.)				MOUNTING DETAIL	CONTROL DIAGRAM	NOTES						
							LOW CFM (66%)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EVAP.		TOTAL CAPACITY (MBH)	HX EDB (°F)	VOLT/PH	SUPPLY FAN		COMPRESSOR		COND. FAN		AUX. STRIP HEAT		MCA	MOCP	VOLT/PH	EXHAUST FAN		MCA	MOCP	COOLING		HEATING		HP UNIT	ROOF CURB	PWR. EXH. ECON.	TOTAL										
										EDB (°F)	EWB (°F)				BHP	FLA	QTY	RLA	LRA	QTY	FLA	KW @ 480/3				FLA	HP			FLA	SEER	EER	IEER					HSPF				COP @ 47°F					
HP C1	CLASSROOM C101	50GCQM05A3A6	4	1600	UPPER 480 LOWER 125	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP C2	CLASSROOM C102	50GCQM04A3A6	3	1200	UPPER 480 LOWER 125	0.8	800	24.52	31.73	80	67	24.4	70	460/3	0.46	1.5	1	5.8	38	1	0.8	8.8	10.6	24	25	460/3	1/2	1.5	1.9	3.4	16.2	9.52	---	8.3	3.8	488	105	45	638	M5.1	M6.2	1 2 3 4 5 6 -					
HP C3	CLASSROOM C103	50GCQM05A3A6	4	1800	UPPER 480 LOWER 125	0.8	1200	35.33	42.90	80	67	34.10	70	460/3	0.8	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	8.95	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP C4	CLASSROOM C104	50GCQM06A3A6	5	2000	UPPER 480 LOWER 125	0.8	1350	44.82	55.92	80	67	41.50	70	460/3	0.93	2.9	1	11	52	1	0.8	14.0	16.8	40	45	460/3	1	2.8	3.5	6.3	16.2	9.53	---	8.3	3.9	611	105	45	761	M5.1	M6.2	1 2 3 4 5 6 11					
HP C5	CLASSROOM C105	50GCQM05A3A6	4	1600	UPPER 480 LOWER 125	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP C6	CLASSROOM C106	50GCQM05A3A6	4	1800	UPPER 480 LOWER 125	0.8	1200	35.33	42.90	80	67	34.10	70	460/3	0.8	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	8.95	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D1	CLASSROOM D101	50GCQM05A3A6	4	1600	UPPER 480 LOWER 125	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D2	CLASSROOM D102	50GCQM05A3A6	4	1800	UPPER 480 LOWER 130	0.8	1200	35.33	42.90	80	67	34.10	70	460/3	0.8	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	8.95	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D3	CLASSROOM D103	50GCQM05A3A6	4	1600	UPPER 480 LOWER 130	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	25	460/3	1/2	1.5	1.9	3.4	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D4	CLASSROOM D104	50GCQM04A3A6	3	1200	UPPER 480 LOWER 125	0.8	800	24.52	31.73	80	67	24.4	70	460/3	0.46	1.5	1	5.8	38	1	0.8	8.8	10.6	24	25	460/3	1/2	1.5	1.9	3.4	16.2	9.52	---	8.3	3.8	488	105	45	638	M5.1	M6.2	1 2 3 4 5 6 -					
HP D5	CLASSROOM D105	50GCQM04A3A6	3	1200	UPPER 480 LOWER 125	0.8	800	24.52	31.73	80	67	24.4	70	460/3	0.46	1.5	1	5.8	38	1	0.8	8.8	10.6	24	25	460/3	1/2	1.5	1.9	3.4	16.2	9.52	---	8.3	3.8	488	105	45	638	M5.1	M6.2	1 2 3 4 5 6 -					
HP D6	CLASSROOM D106	50GCQM05A3A6	4	1600	UPPER 480 LOWER 125	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D7	CLASSROOM D111	50GCQM05A3A6	4	1600	UPPER 480 LOWER 125	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D8	CLASSROOM D112	50GCQM06A3A6	5	2000	UPPER 480 LOWER 130	0.8	1350	44.82	55.92	80	67	41.50	70	460/3	0.93	2.9	1	11	52	1	0.8	14.0	16.8	40	45	460/3	1	2.8	3.5	6.3	16.2	9.53	---	8.3	3.9	611	105	45	761	M5.1	M6.2	1 2 3 4 5 6 11					
HP D9	CLASSROOM D113	50GCQM05A3A6	4	1600	UPPER 480 LOWER 125	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	3.5	6.3	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D10	CLASSROOM D114	50GCQM05A3A6	4	1600	UPPER 480 LOWER 125	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	3.5	6.3	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D11	CLASSROOM D115	50GCQM04A3A6	3	1200	UPPER 480 LOWER 125	0.8	800	24.52	31.73	80	67	24.4	70	460/3	0.46	1.5	1	5.8	38	1	0.8	8.8	10.6	24	25	460/3	1/2	1.5	3.5	6.3	16.2	9.52	---	8.3	3.8	488	105	45	638	M5.1	M6.2	1 2 3 4 5 6 -					
HP D12	CLASSROOM D116	50GCQM05A3A6	4	1600	UPPER 480 LOWER 125	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	3.5	6.3	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D13	CLASSROOM D117	50GCQM05A3A6	4	1600	UPPER 480 LOWER 125	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	3.5	6.3	16.2	9.04	---	8.3	3.7	605	105	45	755	M5.1	M6.2	1 2 3 4 5 6 -					
HP D14	CLASSROOM D118	50GCQM04A3A6	3	1200	UPPER 480 LOWER 125	0.8	800	24.52	31.73	80	67	24.4	70	460/3	0.46	1.5	1	5.8	38	1	0.8	8.8	10.6	24	25	460/3	1/2	1.5	3.5	6.3	16.2	9.52	---	8.3	3.8	488	105	45	638	M5.1	M6.2	1 2 3 4 5 6 -					
HP D15	TEACHER'S WORK ROOM D124	50GCQM04A3A6	3	1200	UPPER 195 LOWER 95	0.8	800	24.52	31.73	80	67	24.4	70	460/3	0.46	1.5	1	5.8	38	1	0.8	8.8	10.6	24	25	460/3	1/2	1.5	3.5	6.3	16.2	9.52	---	8.3	3.8	488	105	45	638	M5.1	M6.2	1 2 3 4 5 6 -					
HP E1	SCIENCE CLASSROOM E101	50GCQM06A3A6	5	2000	UPPER 480 LOWER 170	0.8	1350	44.82	55.92	80	67	41.50	70	460/3	0.93	2.9	1	11	52	1	0.8	14.0	16.8	40	45	460/3	1	2.8	3.5	6.3	16.2	9.53	---	8.3	3.9	611	105	45	761	M5.1	M6.2	1 2 3 4 5 6 11					
HP E2	SCIENCE CLASSROOM E102	50GCQM06A3A6	5	2000	UPPER 480 LOWER 170	0.8	1350	44.82	55.92	80	67	41.50	70	460/3	0.93	2.9	1	11	52	1	0.8	14.0	16.8	40	45	460/3	1	2.8	3.5	6.3	16.2	9.53	---	8.3	3.9	611	105	45	761	M5.1	M6.2	1 2 3 4 5 6 11					
HP E3	TEACHER'S WORK ROOM E104	50GCQM04A3A6	3	1200	UPPER 195 LOWER 120	0.8	800	24.52	31.73	80	67	24.4	70	460/3	0.46	1.5	1	5.8	38	1	0.8	8.8	10.6	24	25	460/3	1/2	1.5	3.5	6.3	16.2	9.52	---	8.3	3.8	488	105	45	638	M5.1	M6.2	1 2 3 4 5 6 -					
NOTES: ① UNITS SELECTED AT 105 F DB / 70 F WB SUMMER AMBIENT, 30 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES. ② PROVIDE UNIT WITH CONDENSER COIL GUARDS, HINGED ACCESS DOORS, AND 2" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTER(S). THE ESP SCHEDULED ABOVE INCLUDES AIR PRESSURE DROP THRU FILTER(S). ③ PROVIDE UNIT WITH "MICROMETL" 100% MODULATING POWER EXHAUST ECONOMIZER WITH VFD, DIFFERENTIAL PRESSURE TRANSDUCER, ROOM PRESSURE TUBING, AND "BELIMO" LF SERIES ACTUATORS. NOTE THAT SEPARATE POWER CONNECTIONS ARE REQUIRED TO THE PHP UNIT AND TO THE MODULATING POWER EXHAUST ECONOMIZER. ELECTRICAL LOADS OF EACH DEVICE ARE SCHEDULED, ELECTRICAL ENGINEER SHALL PROVIDE SEPARATE POWER CONNECTIONS, APPROPRIATE CIRCUIT BREAKER(S), FEEDER(S), AND DISCONNECT(S) AS REQUIRED BY CODE. ④ PROVIDE "MICROMETL" STRUCTURALLY CALC'D 14" TALL STANDARD ROOF CURB. ⑤ LOW SPEED SUPPLY FAN SETTING SHALL BE LOCKED OUT, UNIT SHALL OPERATE AS SINGLE ZONE CONSTANT VOLUME AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH HP UNIT FACTORY REP TO ACCOMPLISH SINGLE ZONE CONSTANT VOLUME OPERATION. ⑥ LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 DEMAND CONTROL VENTILATION SYSTEMS AT MINIMUM OCCUPANCY. UPPER OUTSIDE AIR POSITION INDICATED IS BASED ON 15 CFM/OCCUPANT WHEN SPACE IS AT MAXIMUM OCCUPANCY, UNLESS SYSTEM																																															

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QC	
INI	%

PACKAGED HEAT PUMP UNIT SCHEDULE

UNIT	SERVES	"CARRIER" MODEL NO. U.N.O.	NOM. TONS	CFM	MIN. O.A. (CFM)	ESP (IN. W.G.)	DX COOLING				HP HEATING		VOLT/PH	HP UNIT ELECTRICAL DATA										PWR. EXH. ECON. ELECTRICAL DATA				EFFICIENCY				OPERATING WEIGHT (LBS.)		MOUNTING DETAIL	CONTROL DIAGRAM	NOTES						
							LOW CFM (66%)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EVAP.		TOTAL CAPACITY (MBH)		EDB (°F)	SUPPLY FAN		COMPRESSOR		COND. FAN		AUX. STRIP HEAT		MCA	MOCP	EXHAUST FAN		MCA	MOCP	COOLING		HEATING		HP UNIT				ROOF CURB	PWR. EXH. ECON.	TOTAL			
										EDB (°F)	EWB (°F)				BHP	FLA	QTY	RLA	LRA	QTY	FLA	KW @ 460/3			FLA	SEER			EER	IEER	HSPF	COP @ 47°F										
	SCIENCE CLASSROOM E105	50GCGM06A3A6	5	2000	UPPER 480 LOWER 170	0.8	1350	44.82	55.92	80	67	41.50	70	460/3	0.93	2.9	1	11	52	1	0.8	14.0	16.8	40	45	460/3	1	2.8	3.5	6.3	16.2	9.53	---	8.3	3.9	611	105	45	761			① ② ③ ④ ⑤ ⑥ ⑦
	SCIENCE CLASSROOM E106	50GCGM06A3A6	5	2000	UPPER 480 LOWER 170	0.8	1350	44.82	55.92	80	67	41.50	70	460/3	0.93	2.9	1	11	52	1	0.8	14.0	16.8	40	45	460/3	1	2.8	3.5	6.3	16.2	9.53	---	8.3	3.9	611	105	45	761			① ② ③ ④ ⑤ ⑥ ⑦
	SCIENCE CLASSROOM F101	50FCQM07A3A6	6	2400	UPPER 540 LOWER 220	0.8	1600	54.86	67.69	80	67	65.10	70	460/3	0.99	2.9	1	8.5	66	1	0.8	21.5	25.9	48	50	460/3	1	2.8	3.5	6.3	11.2	9.46	15.0	---	3.6	594	105	45	744			① ② ③ ④ ⑥ ⑦ ⑨
	SCIENCE CLASSROOM F102	50FCQM07A3A6	6	2400	UPPER 540 LOWER 200	0.8	1600	54.86	67.69	80	67	65.10	70	460/3	0.99	2.9	1	8.5	66	1	0.8	21.5	25.9	48	50	460/3	1	2.8	3.5	6.3	11.2	9.46	15.0	---	3.6	594	105	45	744			① ② ③ ④ ⑥ ⑦ ⑨
	CLASSROOM F107	50GCGM06A3A6	5	2000	UPPER 480 LOWER 130	0.8	1350	44.82	55.92	80	67	41.50	70	460/3	0.93	2.9	1	11	52	1	0.8	14.0	16.8	40	45	460/3	1	2.8	3.5	6.3	16.2	9.53	---	8.3	3.9	611	105	45	761			① ② ③ ④ ⑤ ⑥ ⑦
	CLASSROOM F108	50GCGM05A3A6	4	1600	UPPER 480 LOWER 175	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	9.04	---	8.3	3.7	605	105	45	755			① ② ③ ④ ⑤ ⑥ -
	CLASSROOM F109	50GCGM05A3A6	4	1800	UPPER 480 LOWER 175	0.8	1200	35.33	42.90	80	67	34.10	70	460/3	0.8	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	8.95	---	8.3	3.7	605	105	45	755			① ② ③ ④ ⑤ ⑥ -
	CLASSROOM F110	50GCGM06A3A6	5	2000	UPPER 480 LOWER 130	0.8	1350	44.82	55.92	80	67	41.50	70	460/3	0.93	2.9	1	11	52	1	0.8	14.0	16.8	40	45	460/3	1	2.8	3.5	6.3	16.2	9.53	---	8.3	3.9	611	105	45	761			① ② ③ ④ ⑤ ⑥ ⑦
	CLASSROOM F113	50GCGM04A3A6	3	1200	UPPER 510 LOWER 155	0.8	800	24.52	31.73	80	67	24.4	70	460/3	0.46	1.5	1	5.8	38	1	0.8	8.8	10.6	24	25	460/3	1/2	1.5	1.9	3.4	16.2	9.52	---	8.3	3.8	488	105	45	638			① ② ③ ④ ⑤ ⑥ -
	CLASSROOM F114	50GCGM05A3A6	4	1600	UPPER 510 LOWER 155	0.8	1100	32.96	42.45	80	67	33.50	70	460/3	0.7	2.4	1	8.2	41	1	0.8	11.5	13.8	32	35	460/3	1/2	1.5	1.9	3.4	16.2	9.04	---	8.3	3.7	605	105	45	755			① ② ③ ④ ⑤ ⑥ -

NOTES:

①

UNITS SELECTED AT 105 F DB / 70 F WB SUMMER AMBIENT, 30 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES.

②

PROVIDE UNIT WITH CONDENSER COIL GUARDS, HINGED ACCESS DOORS, AND 2" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTER(S). THE ESP SCHEDULED ABOVE INCLUDES AIR PRESSURE DROP THRU FILTER(S).

③

PROVIDE UNIT WITH "MICROMETL" 100% MODULATING POWER EXHAUST ECONOMIZER WITH VFD, DIFFERENTIAL PRESSURE TRANSDUCER, ROOM PRESSURE TUBING, AND "BELIMO" LF SERIES ACTUATORS. NOTE THAT SEPARATE POWER CONNECTIONS ARE REQUIRED TO THE PHP UNIT AND TO THE MODULATING POWER EXHAUST ECONOMIZER. ELECTRICAL LOADS OF EACH DEVICE ARE SCHEDULED, ELECTRICAL ENGINEER SHALL PROVIDE SEPARATE POWER CONNECTIONS, APPROPRIATE CIRCUIT BREAKER(S), FEEDER(S), AND DISCONNECT(S) AS REQUIRED BY CODE.

④

PROVIDE "MICROMETL" STRUCTURALLY CALC'D 14" TALL STANDARD ROOF CURB.

⑤

LOW SPEED SUPPLY FAN SETTING SHALL BE LOCKED OUT; UNIT SHALL OPERATE AS SINGLE ZONE CONSTANT VOLUME AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH HP UNIT FACTORY REP TO ACCOMPLISH SINGLE ZONE CONSTANT VOLUME OPERATION.

⑥

LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 DEMAND CONTROL VENTILATION SYSTEMS AT MINIMUM OCCUPANCY. UPPER OUTSIDE AIR POSITION INDICATED IS BASED ON 15 CFM/OCCUPANT WHEN SPACE IS AT MAXIMUM OCCUPANCY, UNLESS SYSTEM IS IN ECONOMIZER MODE. SEE CONTROLS FOR SEQUENCE OF OPERATION. FOR THESE UNITS WITH DEMAND CONTROL VENTILATION, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION.

⑦

FOR UNITS WITH NOM. COOLING CAPACITY OF 6 TONS AND LARGER, PROVIDE UNIT WITH FACTORY INSTALLED VFD ON SUPPLY FAN AND MINIMUM 2-STAGES OF MECHANICAL COOLING CAPACITY. SEE SCHEDULE FOR LOW SUPPLY AIRFLOW CFM (66%). SEE CONTROLS FOR SEQUENCE OF OPERATION.

⑧

EXISTING DUCTWORK THAT IS BEING RE-USED SHALL BE THOROUGHLY CLEANED PER SPEC SECTION 23 01 30.52.

⑨

INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR AUTOMATIC SHUTDOWN OF HVAC SYSTEM UPON SENSING SMOKE. PROVIDED, POWERED & INTERLOCKED WITH FIRE ALARM SYSTEM BY DIV. 26, INSTALLED & CONNECTED TO AC UNIT BY DIV. 23.

⑩

NOT USED.

⑪

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.

AIR CONDITIONING UNIT SCHEDULE																																										
UNIT	SERVES	"CARRIER" MODEL NO. U.N.O.	NOM. TONS	CFM	MIN. O.A. (CFM)	ESP (IN. W.G.)	DX COOLING				GAS HEATING		AC UNIT ELECTRICAL DATA								PWR. EXH. ECON. ELECTRICAL DATA				EFFICIENCY			OPERATING WEIGHT (LBS.)			MOUNTING DETAIL	CONTROL DIAGRAM	NOTES									
							LOW CFM (68%)	SENSIBLE CAPACITY (MBH)	TOTAL CAPACITY (MBH)	EVAP.		INPUT (MBH)	OUTPUT (MBH)	HX EDB (°F)	VOLT/PH	SUPPLY FAN		COMPRESSOR		COND. FAN		COMB. FAN		MCA	MOCp	VOLT/PH	EXHAUST FAN		MCA	MOCp				COOLING			HEATING		AC UNIT	ROOF CURB	PWR. EXH. ECON.	TOTAL
										EDB (°F)	EWB (°F)					BHP	FLA	QTY	RLA	LRA	QTY	FLA	FLA				HP	FLA						EER	IEER	AFUE	TE					
AC A1	MULTI PURPOSE A1	48A8T050-SA64AEE	50	13400	UPPER 10050 LOWER 920	1.0	8850	473.14	536.80	80	67	800 304	648 246.2	70	460/3	19.72	40	4	16	140	4	3.3	2 0 1.1	140	175	460/3	--	4 0 3.2	--	--	--	9.8	14.2	--	81.0	6150	290	--	6440	1 M5.1	3 M6.1	1 2 4 7 8 10 12 13 16 - -
AC A2	KITCHEN A8	48HCD017A7A6-0A0G0	15	7200	UPPER 300 LOWER 220	0.8	4760	134.89	173.94	80	67	220 176	178 142	70	460/3	5.6	6.4	2	12.8	100	3	0.9	0.3	37.9	50	460/3	2	6.5	8.1	14.6	--	11.50	13.0	--	81.0	1925	240	325	2490	1 M5.1	4 M6.1	1 2 3 4 7 8 12 13 14 - -
<div>NOTES:</div> <div><div><div>①</div><div>UNITS SELECTED AT 105 F DB / 70 F WB SUMMER AMBIENT, 30 F DB WINTER AMBIENT AIR TEMPERATURES. COOLING CAPACITIES SCHEDULED ARE NET SENSIBLE & NET TOTAL CAPACITIES.</div></div><div><div>②</div><div>PROVIDE UNIT WITH CONDENSER COIL GUARDS, HINGED ACCESS DOORS, AND 2" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTER(S). THE ESP SCHEDULED ABOVE INCLUDES AIR PRESSURE DROP THRU FILTER(S).</div></div><div><div>③</div><div>PROVIDE UNIT WITH "MICROMETL" 100% MODULATING POWER EXHAUST ECONOMIZER WITH VFD, DIFFERENTIAL PRESSURE TRANSDUCER, ROOM PRESSURE TUBING, AND "BELIMO" LF SERIES ACTUATORS. NOTE THAT SEPARATE POWER CONNECTIONS ARE REQUIRED TO THE AC UNIT AND TO THE MODULATING POWER EXHAUST ECONOMIZER. ELECTRICAL LOADS OF EACH DEVICE ARE SCHEDULED, ELECTRICAL ENGINEER SHALL PROVIDE SEPARATE POWER CONNECTIONS, APPROPRIATE CIRCUIT BREAKER(S), FEEDER(S), AND DISCONNECT(S) AS REQUIRED BY CODE.</div></div><div><div>④</div><div>PROVIDE "MICROMETL" STRUCTURALLY CALC'D 14" TALL STANDARD ROOF CURB.</div></div><div><div>⑤</div><div>LOW SPEED SUPPLY FAN SETTING SHALL BE LOCKED OUT, UNIT SHALL OPERATE AS SINGLE ZONE CONSTANT VOLUME AT ALL TIMES. CONTRACTOR SHALL COORDINATE WITH AC UNIT FACTORY REP TO ACCOMPLISH SINGLE ZONE CONSTANT VOLUME OPERATION.</div></div><div><div>⑥</div><div>PROVIDE HVAC CONTROLS SYSTEM WITH DEDICATED ROOM OCCUPANCY SENSOR(S) FOR OCCUPANCY SENSOR VENTILATION CONTROL, PER 2019 CA ENERGY CODE (TITLE-24) FOR MULTI-USE ASSEMBLY ROOMS. SEE CONTROLS FOR SEQUENCE OF OPERATION.</div></div><div><div>⑦</div><div>LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON 0.15 CFM/SQ.FT., ALLOWABLE FOR CO2 DEMAND CONTROL VENTILATION SYSTEMS AT MINIMUM OCCUPANCY. UPPER OUTSIDE AIR POSITION INDICATED IS BASED ON 15 CFM/OCCUPANT WHEN SPACE IS AT MAXIMUM OCCUPANCY, UNLESS SYSTEM IS IN ECONOMIZER MODE. SEE CONTROLS FOR SEQUENCE OF OPERATION. FOR THESE UNITS WITH DEMAND CONTROL VENTILATION, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION.</div></div><div><div>⑧</div><div>FOR UNITS WITH NOM. COOLING CAPACITY OF 6 TONS AND LARGER, PROVIDE UNIT WITH FACTORY INSTALLED VFD ON SUPPLY FAN AND MINIMUM 2-STAGES OF MECHANICAL COOLING CAPACITY. SEE SCHEDULE FOR LOW SUPPLY AIRFLOW CFM (66%). SEE CONTROLS FOR SEQUENCE OF OPERATION.</div></div><div><div>⑨</div><div>LOWER OUTSIDE AIR POSITION INDICATED IS BASED ON MIN. VENTILATION RATE REQUIRED BY OCCUPANCY TYPE. UPPER OUTSIDE AIR POSITION INDICATED IS FOR KITCHEN HOOD EXHAUST MAKE-UP AIR SETTING. SEE CONTROLS FOR SEQUENCE OF OPERATION. FOR THESE UNITS WITH KITCHEN HOOD EXHAUST MAKE-UP AIR SETTING, ENTERING TEMPERATURES SCHEDULED REPRESENT CONDITIONS AT UPPER OSA POSITION.</div></div><div><div>⑩</div><div>PROVIDE UNIT WITH FACTORY 100% MODULATING POWER EXHAUST ECONOMIZER WITH VFD, DIFFERENTIAL PRESSURE TRANSDUCER, ROOM PRESSURE TUBING, AND DAMPER ACTUATORS. PROVIDE UNIT WITH FACTORY DIGITAL SCROLL OR INVERTER DRIVEN COMPRESSOR(S), STAINLESS STEEL HEAT EXCHANGER & 0-10VDC MODULATING NATURAL GAS VALVE. NOTE THAT FACTORY MODULATING POWER EXHAUST ECONOMIZER SHALL BE FACTORY WIRED TO RECEIVE ITS POWER FROM THE AC UNIT, A SEPARATE POWER CONNECTION TO THE MODULATING POWER EXHAUST ECONOMIZER IS NOT REQUIRED. SCHEDULED AC UNIT MCA & MOCp INCLUDE MODULATING POWER EXHAUST ECONOMIZER LOAD.</div></div><div><div>⑪</div><div>PROVIDE UNIT WITH FACTORY FLUE DEFLECTOR KIT AND FIELD FABRICATED FLUE EXTENSION.</div></div><div><div>⑫</div><div>EXISTING DUCT SYSTEMS CONNECTED TO THIS AC UNIT SHALL BE SEALED AND LEAK TESTED TO A LEAKAGE RATE NOT TO EXCEED 15% OF FULL FAN FLOW. REFER TO SPEC SECTION 23 80 00, PART 3 FOR DUCTWORK SEALING AND LEAK TESTING REQUIREMENTS.</div></div><div><div>⑬</div><div>EXISTING DUCTWORK THAT IS BEING RE-USED SHALL BE THOROUGHLY CLEANED PER SPEC SECTION 23 01 30.52.</div></div><div><div>⑭</div><div>INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR AUTOMATIC SHUTDOWN OF HVAC SYSTEM UPON SENSING SMOKE. PROVIDED, POWERED & INTERLOCKED WITH FIRE ALARM SYSTEM BY DIV. 26, INSTALLED & CONNECTED TO AC UNIT BY DIV. 23.</div></div><div><div>⑮</div><div>NOT USED.</div></div><div><div>⑯</div><div>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.</div></div></div>																																										

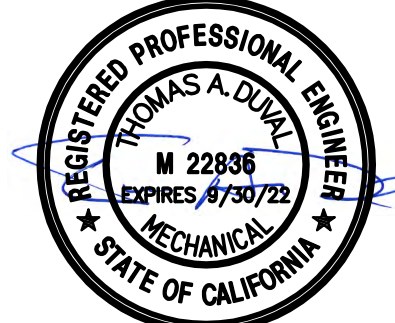
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



<p>MODERNIZATION LODI MIDDLE SCHOOL (INCREMENT 1)</p>	<p>CONSTRUCTION DOCUMENTS PHASE</p>	<p>MECHANICAL SCHEDULES</p>
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CONSULTANT



DATE SIGNED: 07/05/22

PROJECT NO. 22-32-057	REVISIONS	BY
DATE 2/17/2021		
DRAWN BV		
CHECKED MCM		
SCALE AS SHOWN		
CADFILE 03-M0.0.3.DWG		
UPDATED 8/26/2022		
SHEET NO.		

M0.0.3

QC	
INI	%

DIFFUSER, REGISTER & GRILLE SCHEDULE						
SYMBOL	DESCRIPTION	KRUEGER	METALAIRE	NAILOR	TITUS	TUTTLE & BAILEY
<div>CD</div> <div><div><div></div><div></div></div></div>	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER BEVEL FRAME 3/4" DROP	1240 FRAME 21 - 1 1/4"	9000-2	7500-S	MCD BORDER TYPE 6	SQD-SB
<div>CD-2</div> <div><div><div></div><div></div></div></div>	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER FLAT FRAME	1240 FRAME 22	9000-1	7500-B	MCD BORDER TYPE 1	SQD-SF
<div>CDL</div> <div><div><div></div><div></div></div></div>	MODULAR CORE LAY-IN CEILING DIFFUSER FOR T-BAR CEILING 24x24 PANEL	1240 FRAME 23	9000-6P	7500-L	MCD BORDER TYPE 3	SQD-LT
<div>CR, CT, CE</div> <div><div><div></div><div></div></div></div>	CEILING RETURN, TRANSFER OR EXHAUST WITH 1/2" EGG GRATE CORE SURFACE MOUNT	EGC-5	CC5D	61 EC-S	MODEL 50 F BORDER TYPE 1	CRE500-SF
<div>CRL, CTL, CEL</div> <div><div><div></div><div></div></div></div>	CEILING RETURN, TRANSFER OR EXHAUST WITH 1/2" EGG GRATE CORE IN 24x24 PANEL FOR T-BAR CEILING	EGC-5TB	CC5D-TBD	61 EC-L	MODEL 50 F BORDER TYPE 3	CRE500-LT
<div>S*</div> <div><div><div></div><div></div></div></div>	SIDEWALL DOUBLE DEFLECTION SUPPLY GRILLE WITH VERTICAL FRONT BARS, 3/4" SPACING	880 V	V 4004 S	61 DV	300 RS	T54
<div>R, T, E*</div> <div><div><div></div><div></div></div></div>	CEILING OR SIDEWALL RETURN, TRANSFER OR EXHAUST GRILLE WITH 35" OR 45" HORIZONTAL BARS.	S 80 H	SRH	7145 H	350 RL	T70D
<div>SG</div> <div><div><div></div><div></div></div></div>	SOFFIT GRILLE - HEAVY DUTY SINGLE DEFLECTION GRILLE WITH 10 GAUGE, 3/8" WOVEN STEEL MESH SECURED BEHIND FACE BARS. PROVIDE PLASTER FRAME IN PLASTER SOFFIT	S 480 H WITH 3/8" MESH AND PF WHERE REQUIRED	HDRH WITH 3/8" MESH AND PF WHERE REQUIRED	6145 HD WITH 3/8" MESH & PLASTER FRAME WHERE REQUIRED	33 RL HD WITH 3/8" MESH AND PF WHERE REQUIRED	T115H-40 WITH 3/8" MESH AND PF WHERE REQUIRED
<div>RH & EH</div> <div><div><div></div><div></div></div></div>	HEAVY DUTY RETURN OR EXHAUST GRILLE WITH 35" OR 45" HORIZONTAL BARS	S 480 H	HDRH	6145 HD	33 RL	T115H-40
<div>TFL</div> <div><div><div></div><div></div></div></div>	"ACCUTHERM" THERMA-FUSER ST-HC THERMALLY POWERED VAV DIFFUSER, FOR 24x24 LAY-IN T-BAR CEILING.	N/A	N/A	N/A	N/A	N/A
<div>RCD</div> <div><div><div></div><div></div></div></div>	HIGH CAPACITY ADJUSTABLE ROUND SUPPLY CEILING DIFFUSER.	--	--	--	TMRA	--
<div>LCD</div> <div><div><div></div><div></div></div></div>	RECTANGULAR LOUVERED FACE SUPPLY CEILING DIFFUSER, SURFACE MOUNT.	--	--	--	TDC BORDER TYPE 1	--
<div>SDS</div> <div><div><div></div><div></div></div></div>	DOUBLE DEFLECTION SPIRAL DUCT MOUNTED SUPPLY GRILLE WITH CURVED FRAME, AIR SCOOP EXTRACTOR, VERTICAL FRONT BLADES, 3/4" SPACING.	--	--	--	S300FS	--
<div>SDR, SDE</div> <div><div><div></div><div></div></div></div>	PERFORATED FACE SPIRAL DUCT MOUNTED RETURN OR EXHAUST GRILLE WITH CURVED FRAME.	--	--	--	S8F	--
<div>NOTES:</div> <div><div><div>1. ALL SYMBOLS NOTED MAY NOT BE USED. REFER TO PLANS FOR SIZE AND QUANTITY.</div><div>2. ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE.</div><div>3. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.</div><div>4. COORDINATE DIFFUSER TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.</div></div><div><div>5. OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS OR GRILLES.</div><div>6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE.</div><div>* ALUMINUM REGISTERS FOR SHOWERS AND DAMP AREAS</div></div></div>						

FURNACE SCHEDULE (WITH DX COIL)																			
UNIT	LOCATION	"CARRIER" MODEL NO. (INDOOR UNIT)	CFM	MIN. OA (CFM)	ESP (IN. WG)	COIL MFR MODEL NO.	COIL APD (IN. W.G.)	GAS HEATING			ELECTRICAL DATA				OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES	
								INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	VOLT/PH	FAN HP	FLA	MOCP					MCA
F B1	BLDG. B MECH. RM.	59SC5B120E24—22	1550	345	0.8	CARRIER CNPVP6124ALA	0.150	120	117	95	115/1	1	14.1	20	12.4	265	<div><div>4</div><div>M5.1</div></div>	<div><div>2</div><div>M6.2</div></div>	1, 2, 3, 4
F B2	BLDG. B MECH. RM.	59SC5B120E24—22	1550	345	0.8	CARRIER CNPVP6124ALA	0.150	120	117	95	208/1	1	14.1	20	12.4	265	<div><div>4</div><div>M5.1</div></div>	<div><div>2</div><div>M6.2</div></div>	1, 2, 3, 4
F B3	BLDG. B MECH. RM.	59SC5B120E24—22	1600	415	0.8	CARRIER CNPVP6124ALA	0.160	120	117	95	208/1	1	14.1	20	12.4	265	<div><div>4</div><div>M5.1</div></div>	<div><div>2</div><div>M6.2</div></div>	1, 2, 3, 4
F B4	BLDG. B MECH. RM.	59SC5B120E24—22	1600	415	0.8	CARRIER CNPVP6124ALA	0.160	120	117	95	208/1	1	14.1	20	12.4	265	<div><div>4</div><div>M5.1</div></div>	<div><div>2</div><div>M6.2</div></div>	1, 2, 3, 4
<div>NOTES:</div> <div><div>1. ESP DOES NOT INCLUDE COIL APD.</div><div>2. OPER. WT. INCLUDES COIL.</div><div>3. SEE CONDENSING UNIT SCHEDULE FOR COOLING CAPACITY</div><div>4. PROVIDE WITH 2" THICK MERV 13 DISPOSABLE PLEATED MEDIA FILTER(S).</div></div>																			

CONDENSING UNIT SCHEDULE (AIR-COOLED)																	
UNIT	LOCATION	"CARRIER" MODEL NO.	EVAP. CFM	SENSIBLE COOLING CAP. (MBH)	TOTAL COOLING CAP. (MBH)	EVAP.		VOLT/PH	COND. FAN FLA	COMPRESSOR		MCA	OPER. WT. (LBS.)	EER	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
						EDB (°F)	EWB (°F)			LRA	RLA						
<div>CU</div> <div>B1</div>	BLDG. B ROOF	24AHA60A006	1550	50.3	51.96	80	67	460/3	0.8	7.1	52.0	9.7	275	11.7	<div>5</div> <div>M5.1</div>	<div>2</div> <div>M6.2</div>	1
<div>CU</div> <div>B2</div>	BLDG. B ROOF	24AHA60A006	1550	50.3	51.96	80	67	460/3	0.8	7.1	52.0	9.7	275	11.7	<div>5</div> <div>M5.1</div>	<div>2</div> <div>M6.2</div>	1
<div>CU</div> <div>B3</div>	BLDG. B ROOF	24AHA60A006	1600	50.3	51.96	80	67	460/3	0.8	7.1	52.0	9.7	275	11.7	<div>5</div> <div>M5.1</div>	<div>2</div> <div>M6.2</div>	1
<div>CU</div> <div>B4</div>	BLDG. B ROOF	24AHA60A006	1600	50.3	51.96	80	67	460/3	0.8	7.1	52.0	9.7	275	11.7	<div>5</div> <div>M5.1</div>	<div>2</div> <div>M6.2</div>	1
<div>NOTES:</div> <div>1. SENSIBLE AND TOTAL CAPACITY ARE AT 105°F AMBIENT OUTDOOR CONDITIONS.</div>																	

FAN SCHEDULE													
UNIT	LOCATION	"GREEDHECK" MODEL NO.	CFM	SP (IN. W.G.)	DUTY	STYLE	RPM	HP	VOLT/PH	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
<div>REF D1</div>	BLDG D	G-095-VG	560	0.25	E	RE	1220	1/6	115/1	40	<div>6 M5.2</div>	<div>3 M6.2</div>	1
<div>REF D2</div>	BLDG D	G-095-VG	470	0.25	E	RE	1130	1/6	115/1	40	<div>6 M5.2</div>	<div>3 M6.2</div>	1
<div>REF D3</div>	BLDG D	G-080-VG	190	0.25	E	RE	1150	1/10	115/1	35	<div>6 M5.2</div>	<div>3 M6.2</div>	1
<div>REF D4</div>	BLDG D	G-080-VG	225	0.25	E	RE	1215	1/10	115/1	35	<div>6 M5.2</div>	<div>3 M6.2</div>	1
<div>REF D5</div>	BLDG D	G-095-VG	415	0.25	E	RE	1075	1/6	115/1	40	<div>6 M5.2</div>	<div>3 M6.2</div>	1
<div>REF D6</div>	BLDG D	G-095-VG	450	0.25	E	RE	1110	1/6	115/1	40	<div>6 M5.2</div>	<div>3 M6.2</div>	1
<div>REF F1</div>	BLDG F	G-095-VG	470	0.25	E	RE	1130	1/6	115/1	40	<div>6 M5.2</div>	<div>3 M6.2</div>	1
<div>REF F2</div>	BLDG F	G-095-VG	470	0.25	E	RE	1130	1/6	115/1	40	<div>6 M5.2</div>	<div>3 M6.2</div>	1
<div>REF F3</div>	BLDG F	G-060-VG	100	0.25	E	RE	1450	1/10	115/1	25	<div>6 M5.2</div>	<div>3 M6.2</div>	1
<div>LEGEND</div> <div>DUTY: S-SUPPLY, R-RETURN, E-EXHAUST</div> <div>STYLE: BI-BACKWARD INCLINED, FC-FORWARD CURVED, AF-AIRFOIL, RD-RADIAL, TU-TUBULAR, IL-INLINE, VS-VENT SET, VA-VANE AXIAL, TA-TUBE AXIAL, PP-PROPELLAR, RE-ROOF EXHAUST, WE-WALL EXHAUST, CA-CABINET, CE-CEILING</div> <div>NOTES:</div> <div>1. PROVIDE WITH MANUFACTURER'S ROOF CURB, COUNTER-BALANCED BACKDRAFT DAMPER, AND BIRD SCREEN.</div>													

SPLIT SYSTEM AC/HP UNIT SCHEDULE																						
UNIT	LOCATION	"MITSUBISHI" MODEL NO. (INDOOR UNIT)	CFM	FAN FLA	FLA	MCA	OPER. WT. (LBS.)	MOUNTING DETAIL	UNIT	"MITSUBISHI" MODEL NO. (OUTDOOR UNIT)	TOTAL COOLING CAPACITY (MBH)	COMPRESSOR		MCA	MOCP	FAN FLA	VOLT/PH	SEER	OPER. WT. (LBS.)	MOUNTING DETAIL	CONTROL DIAGRAM	NOTES
												RLA	LRA									
<div>SAC A1</div>	TEACHERS' DINING A7	PKA--A36KA7	610	0.57	0.57	1.0	46	<div>5 M5.1</div>	<div>SCU A1</div>	PUA--HA36NKA	33.6	18	27.5	24	40	--	208/1	18.5	261	<div>6 M5.1</div>	<div>4 M6.2</div>	1, 2, 3, 5
<div>SAC F1</div>	CONFERENCE F121	PEAD--A18AA7	500	1.35	1.35	1.69	62	<div>5 M5.1</div>	<div>SCU F1</div>	PUZ--A18NKA7	18.0	7	12.0	11.0	28	0.5	208/1	19.8	100	<div>1 M5.2</div>	<div>4 M6.2</div>	1, 2, 4, 5
<div>NOTES:</div> <div>1. PROVIDE WITH 1", 30% FILTERS.</div> <div>2. PROVIDE WITH WIRED THERMOSTAT.</div> <div>3. PROVIDE WITH "GOBI II" EXTERNAL CONDENSATE PUMP, 120V, 8 WATTS, WITH ALARM RELAY INTERLOCK.</div> <div>4. PROVIDE WITH MANUFACTURER'S FILTER/MIXING BOX.</div> <div>5. INDOOR UNIT POWERED BY OUTDOOR UNIT.</div>																						

IDENTIFICATION STAMP

DIV. OF THE STATE ARCHITECT

APP: 02-120272 INC:

REVIEWED FOR

SS ☒ FLS ☒ ACS ☒

DATE: 09/12/2022

730 Howe Avenue, Suite 450

Sacramento, CA 95825

Phone: 916.921.2112

Fax: 916.921.2212

HENRY+

ASSOCIATES

ARCHITECTS

REGISTERED ARCHITECT

STEPHEN B. HENRY

C-22525

12/31/23 RENEWAL DATE

STATE OF CALIFORNIA

MODERNIZATION

LODI MIDDLE SCHOOL

(INCREMENT 1)

CONSTRUCTION DOCUMENTS PHASE

MECHANICAL SCHEDULES

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER

THOMAS A. CUMMINS

N 22886

EXPIRES 6/30/22

MECHANICAL

STATE OF CALIFORNIA

DATE SIGNED: 07/05/22

PROJECT NO.

22-32-057

DATE

2/17/2021

DRAWN

BV

CHECKED

MCM

SCALE

AS SHOWN

CADFILE

04-M0.0.4.DWG

UPDATED

8/26/2022

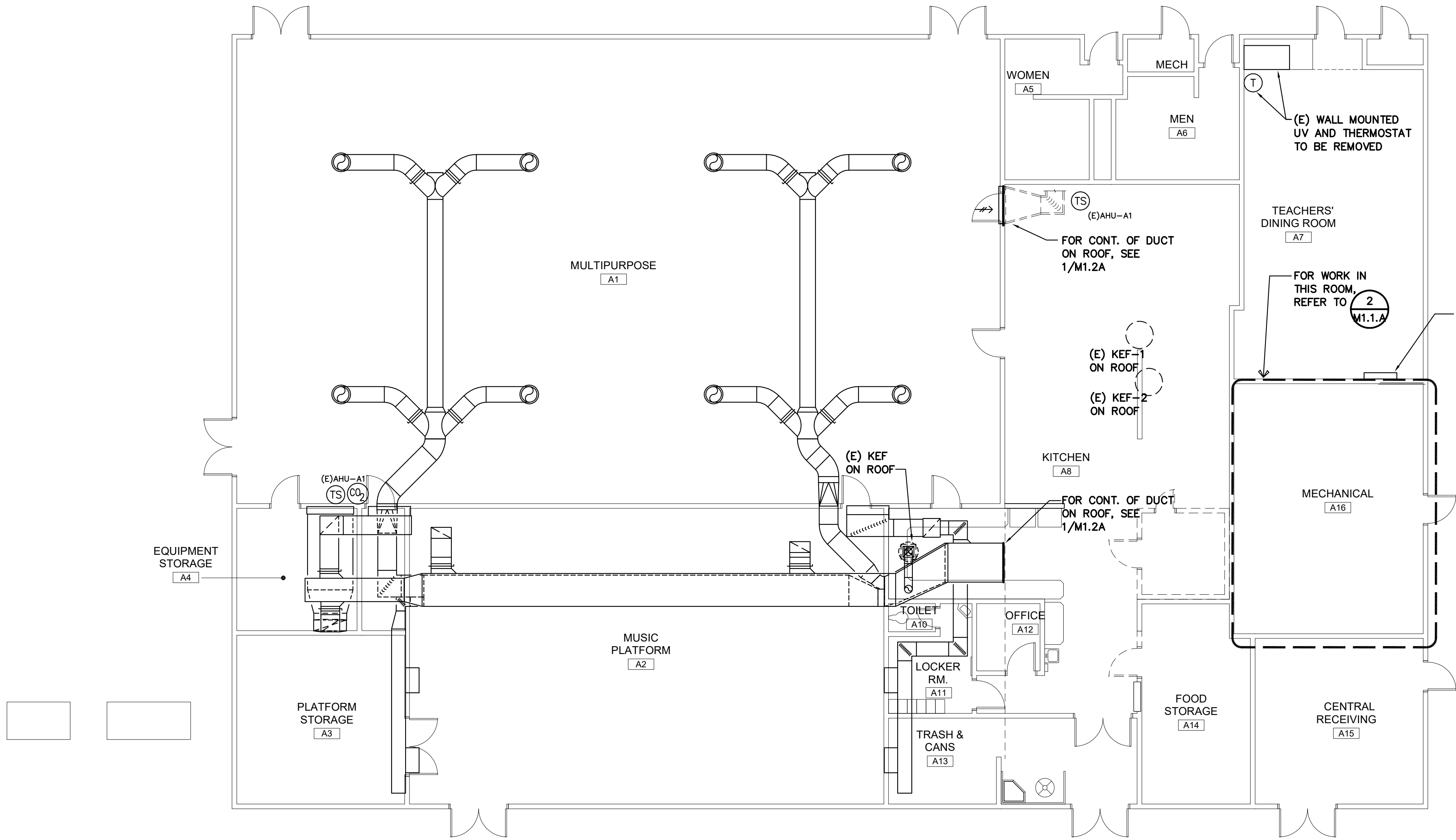
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OF XX SHEETS

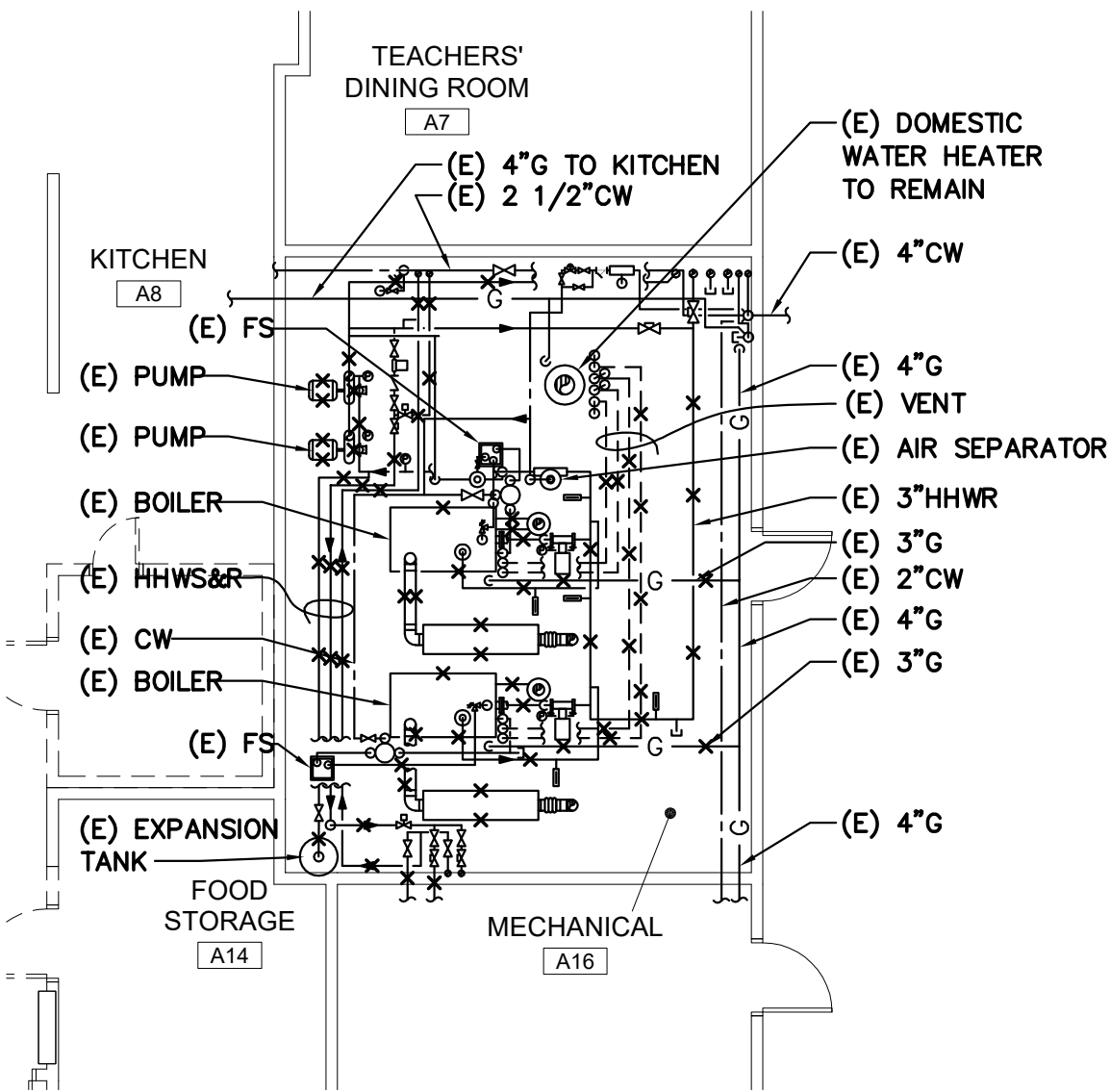
M0.0.4

QC
INI %



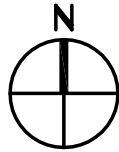
MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING A
SCALE : 1/8" = 1'-0"

1
M1.1.A

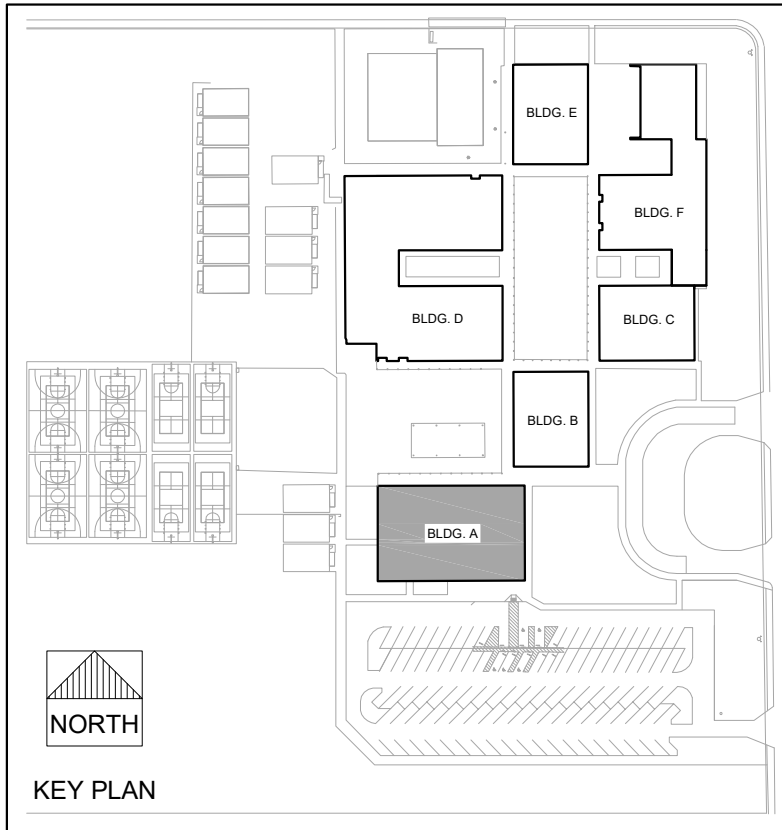


MECHANICAL - DEMO MECH. RM
SCALE : 1/8" = 1'-0"

2
M1.1.A



NOTE:
EXISTING BOILER AND ALL ASSOCIATED EQUIPMENT TO BE REMOVED.



MM - BV 220208.00
PM - DESIGN TEAM PROJECT NO.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION FLOOR PLANS
BUILDING A

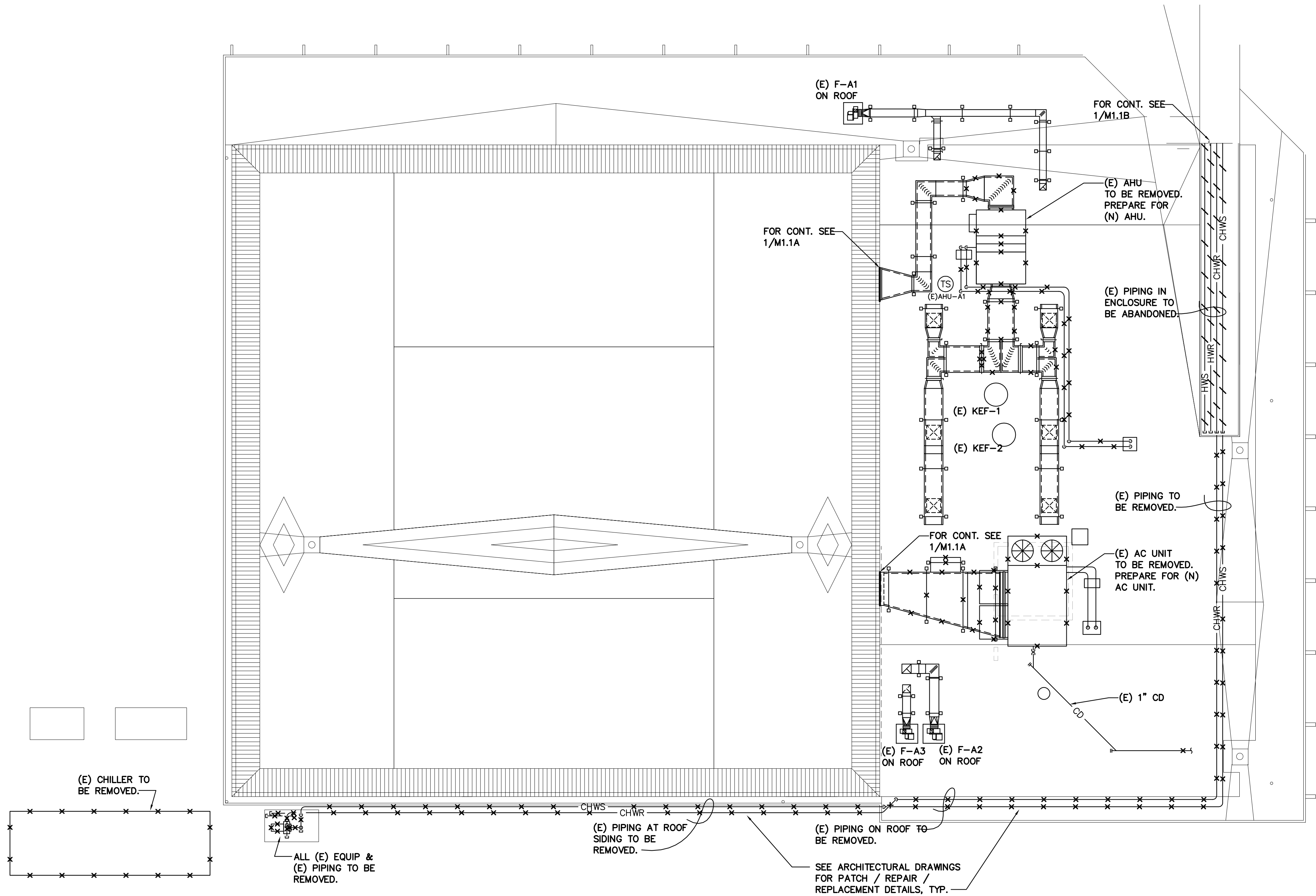


DATE SIGNED: 07/05/22

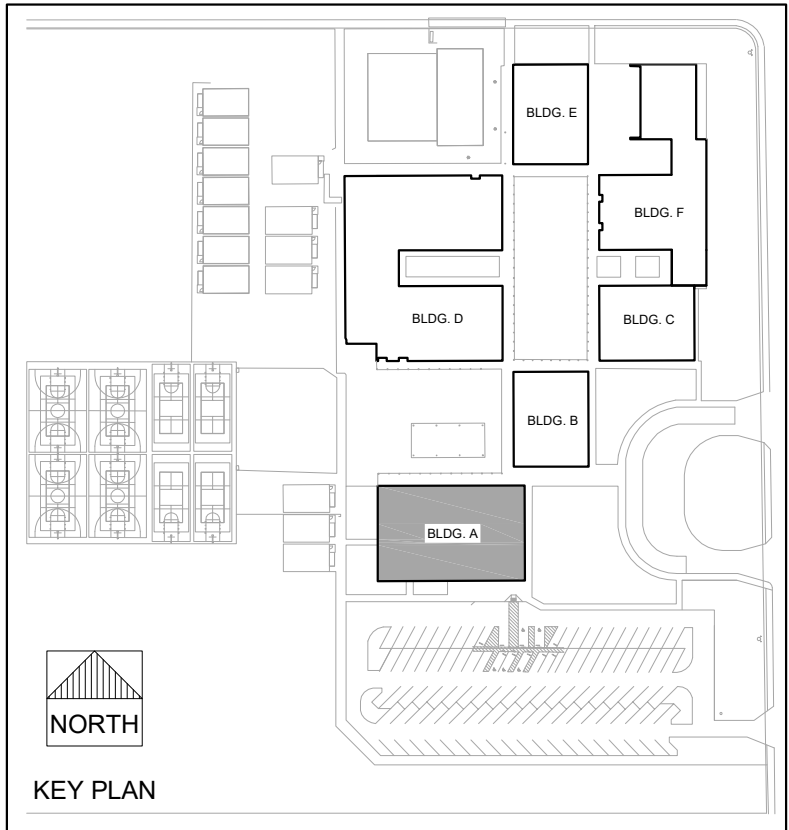
PROJECT NO.	REVISIONS	BY
22-32-057		
DATE		
2/17/2021		
DRAWN		
BV		
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SCALE		
AS SHOWN		
CADFILE		
11-M1.1.A.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

M1.1.A

QC
INI %



MECHANICAL - DEMOLITION ROOF PLAN - BUILDING A **1**
SCALE : 1/8" = 1'-0" **M1.2.A**

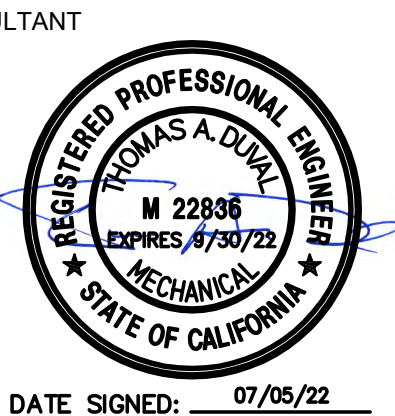


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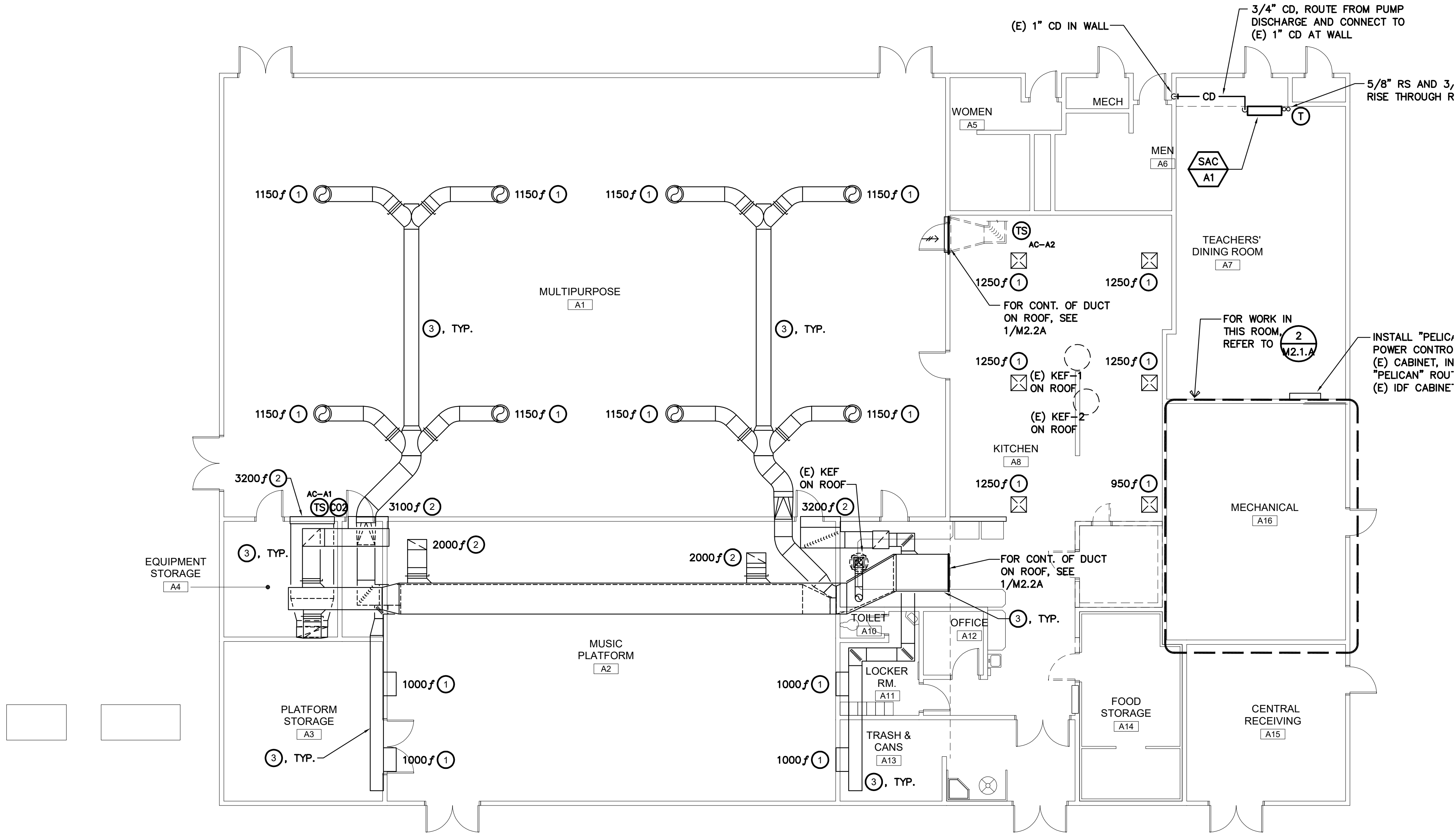
MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION ROOF PLAN
BUILDING A



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SCALE		
AS SHOWN		
CADFILE		
12-M1.2.A.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

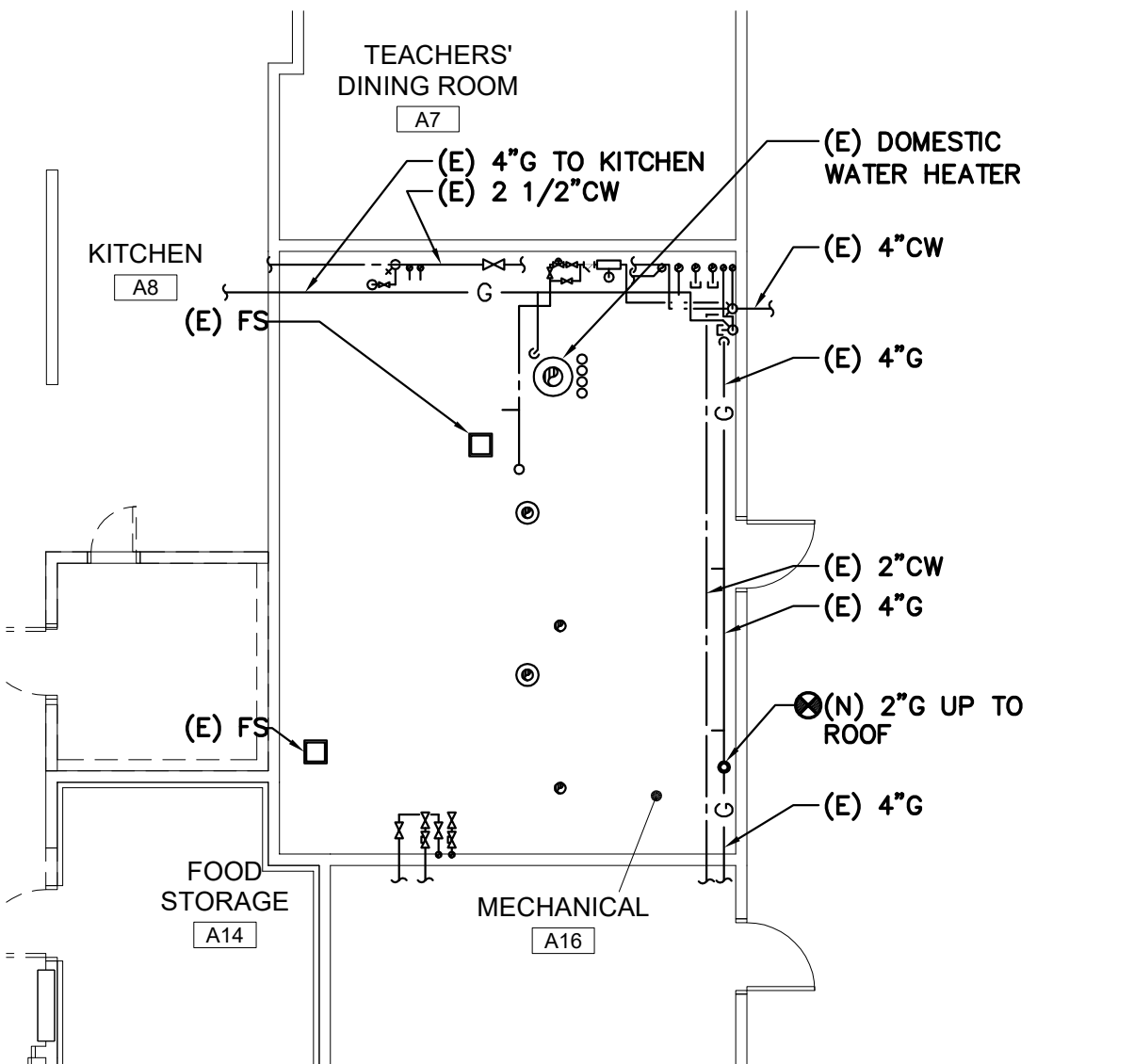
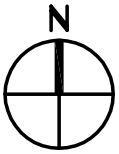
M1.2.A

QC
INI %



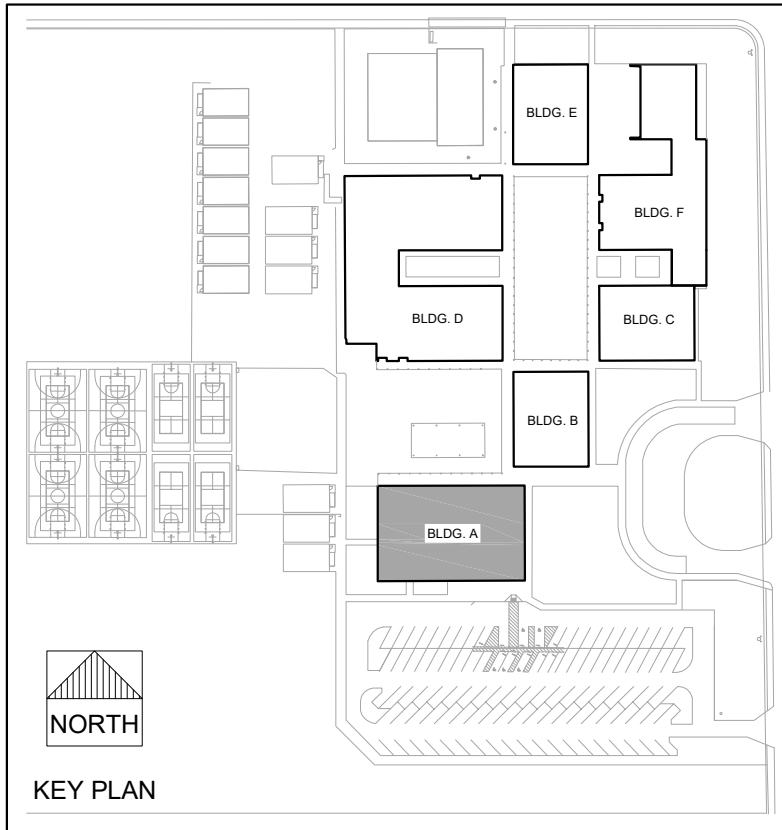
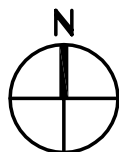
MECHANICAL - FLOOR PLAN - BUILDING A
SCALE : 1/8" = 1'-0"

1
M2.1.A



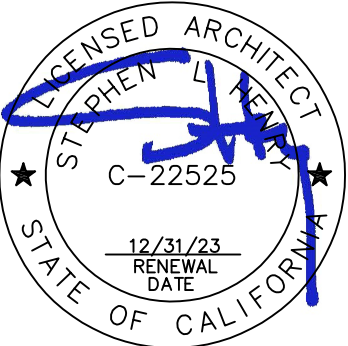
MECHANICAL - MECH. RM
SCALE : 1/8" = 1'-0"

2
M2.1.A



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MODERNIZATION
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(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
FLOOR PLANS
BUILDING A



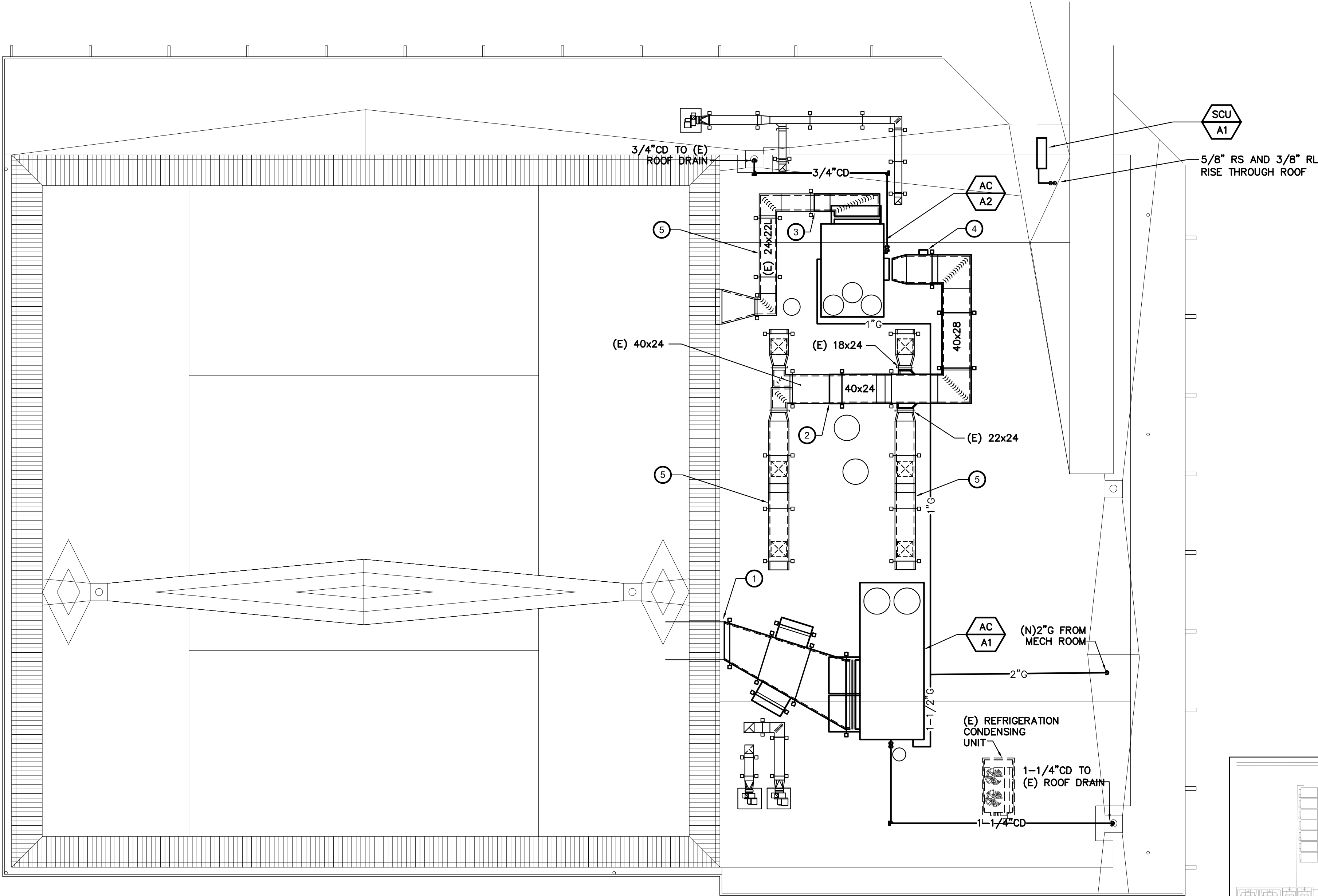
PROJECT NO.	REVISIONS	BY
22-32-057		
DATE		
2/17/2021		
DRAWN		
BV		
CHECKED		
MCM		
SCALE		
AS SHOWN		
CADFILE		
13-M2.1.A.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

M2.1.A

QC	
INI	%

KEY NOTES:

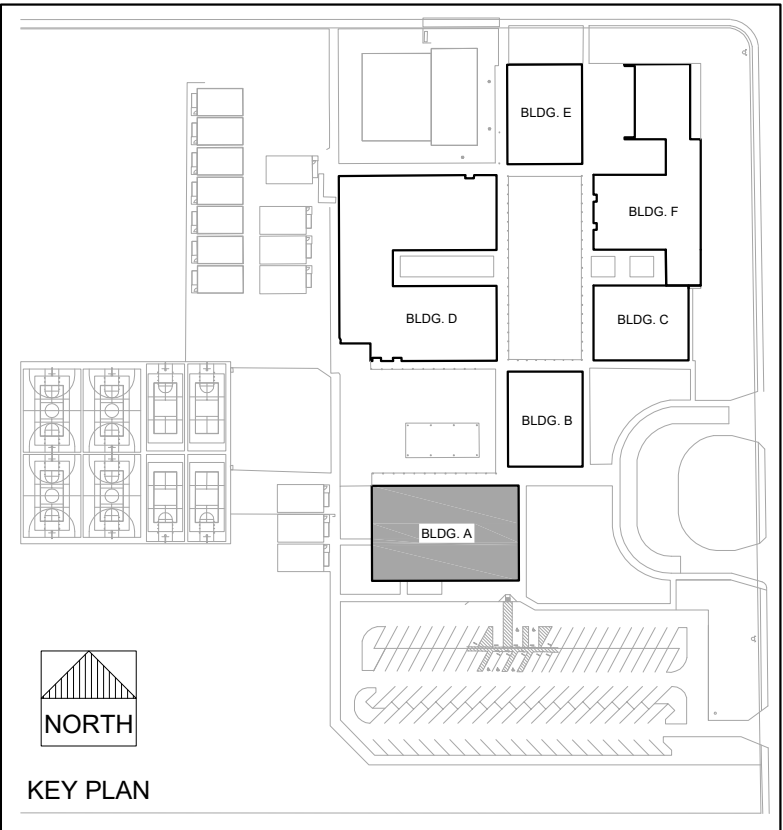
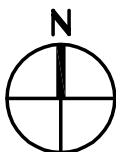
- CONNECT SUPPLY AND RETURN DUCTS TO (E) SUPPLY AND (E) RETURN THROUGH WALL.
- CONNECT 40x24L TO (E) 40x24L.
- CONNECT 24x22L TO (E) 24x22L.
- DUCT MOUNTED SMOKE DETECTOR. REFER TO CONTROL DIAGRAM 4M6.1.
- (E) DUCTWORK CONNECTED TO NEW AC UNIT OR DUCTWORK SHALL BE THOROUGHLY CLEANED, SEALED, AND LEAK TESTED TO A LEAKAGE RATE NOT TO EXCEED 15% OF FULL FAN FLOW. REFER TO SHEET M0.0.3, AIR CONDITIONING UNIT SCHEDULE, NOTES 12 AND 13.



MECHANICAL - ROOF PLAN - BUILDING A

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

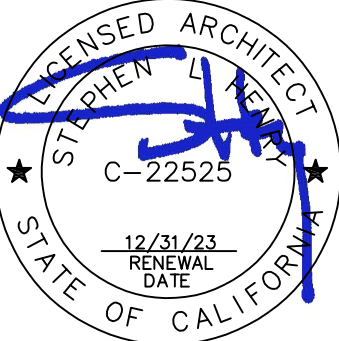
1
M2.2.A



RANCHO CORONA, CALIFORNIA
MCM - BV 220208.00
PM - DESIGN TEAM PROJECT NO.

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MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
ROOF PLAN - BUILDING A

CONSULTANT

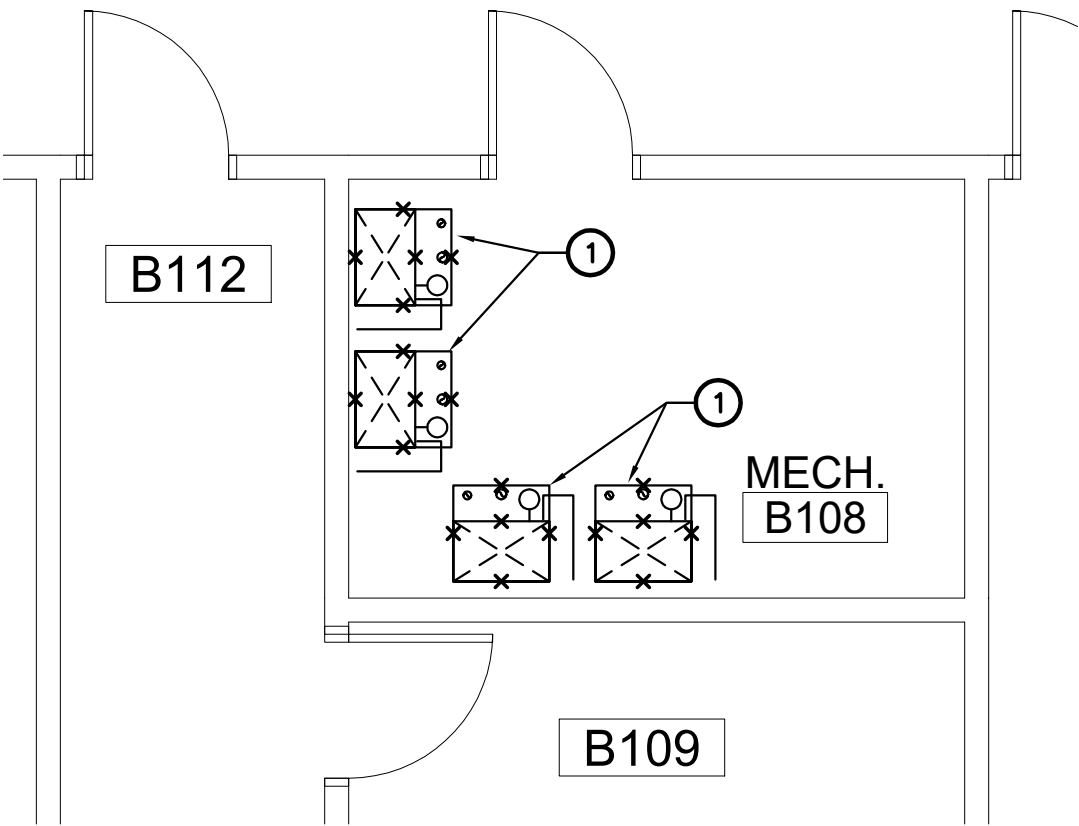


DATE SIGNED: 07/05/22

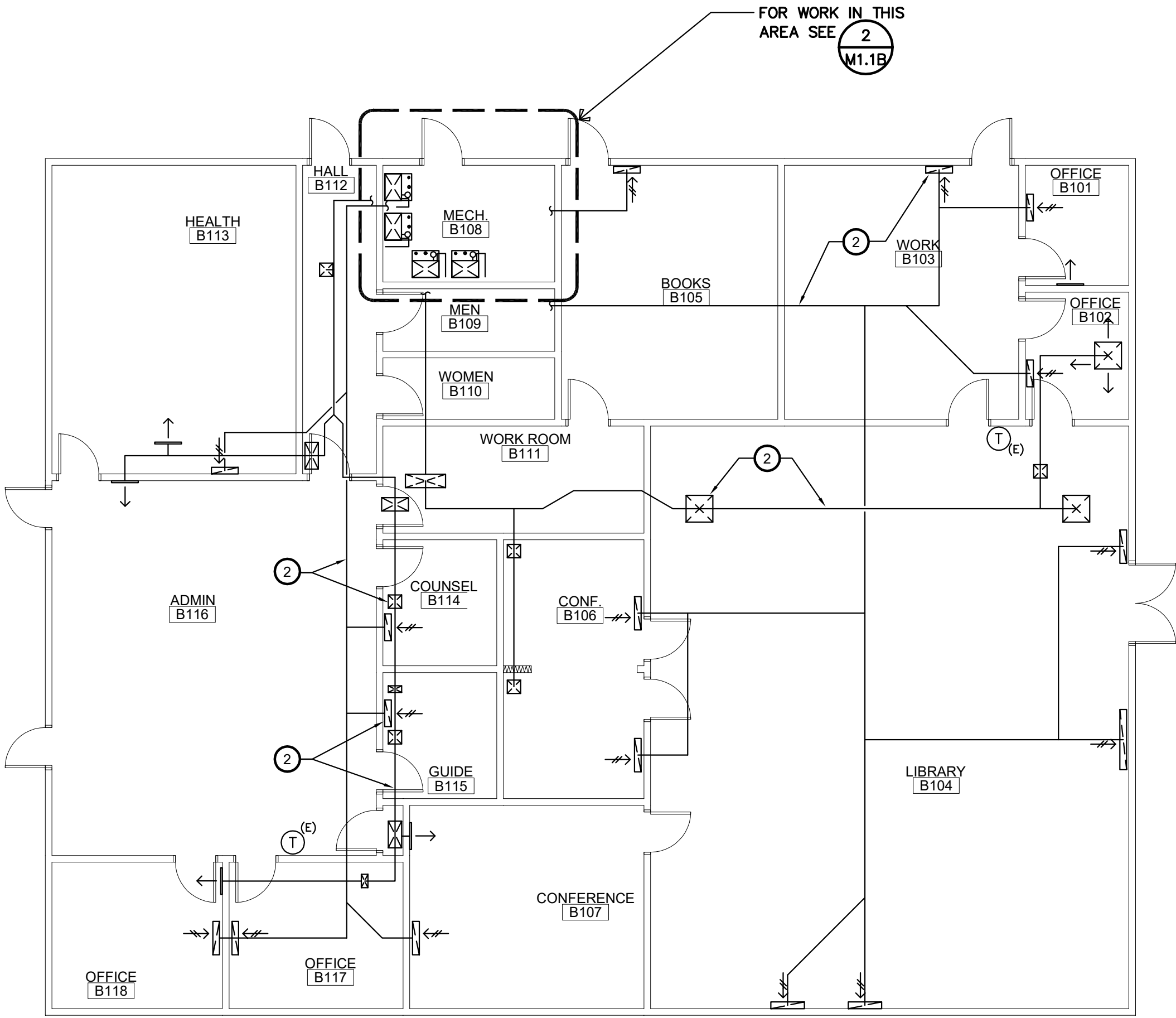
PROJECT NO.	REVISIONS	BY
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AS SHOWN		
CADFILE		
13-M2.2.A.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

M2.2.A

QC
INI %

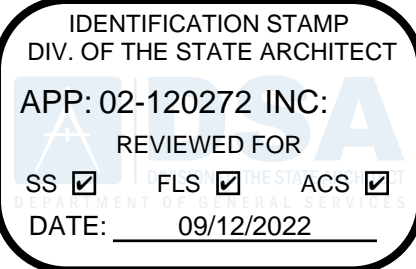


MECHANICAL - DEMO MECH. RM
SCALE : 1/4" = 1'-0"
2
M1.1.B

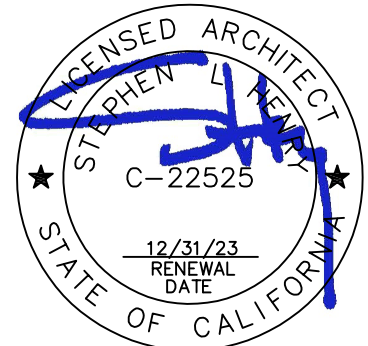


MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING B
SCALE : 1/8" = 1'-0"
1
M1.1.B

- GENERAL NOTES:
- EXISTING HVAC SYSTEMS & HYDRONIC SUPPLY AND RETURN PIPING SHOWN ON THE PLANS ARE DIAGRAMATIC IN NATURE AND BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES.
- DEMOLITION KEY NOTES:
- FURNACE AND COOLING COIL TO BE REMOVED. GAS PIPING, CONDENSATE PIPING, REFRIGERANT PIPING, AND DUCTWORK TO REMAIN. SEE 2/M2.2.B FOR NEW WORK.
 - SUPPLY AND RETURN DUCTWORK, REGISTERS, AND GRILLES TO REMAIN. SEE 1/M2.1.B FOR NEW AIR FLOWS, TYP.

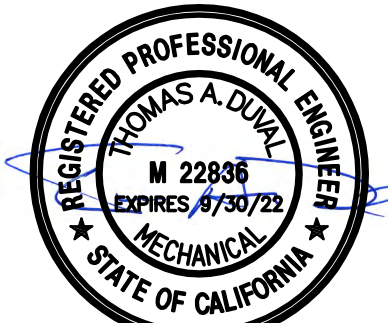


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MODERNIZATION
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CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION FLOOR PLAN
BUILDING B

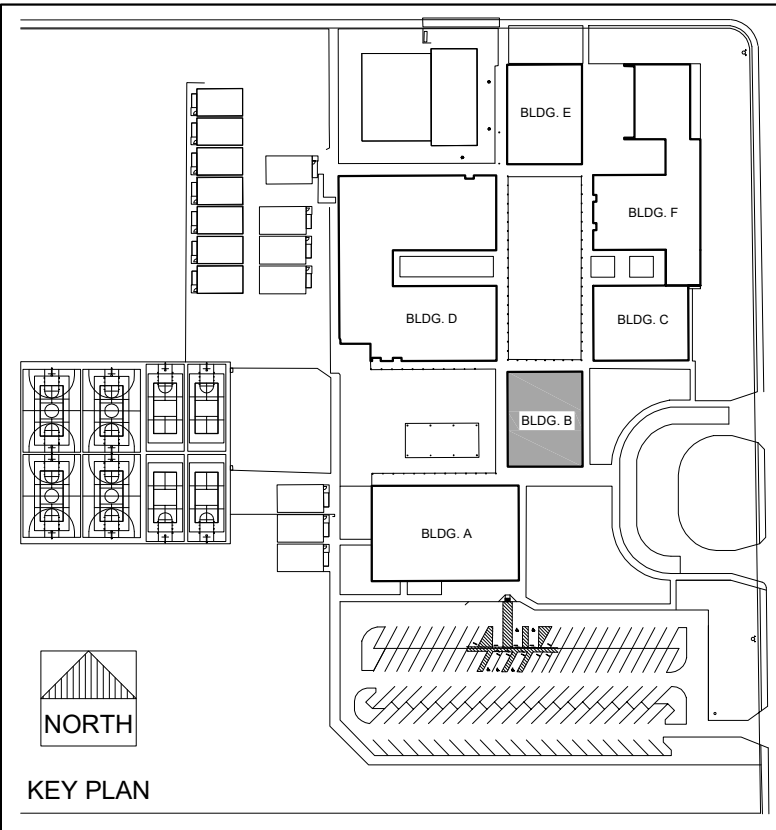
CONSULTANT



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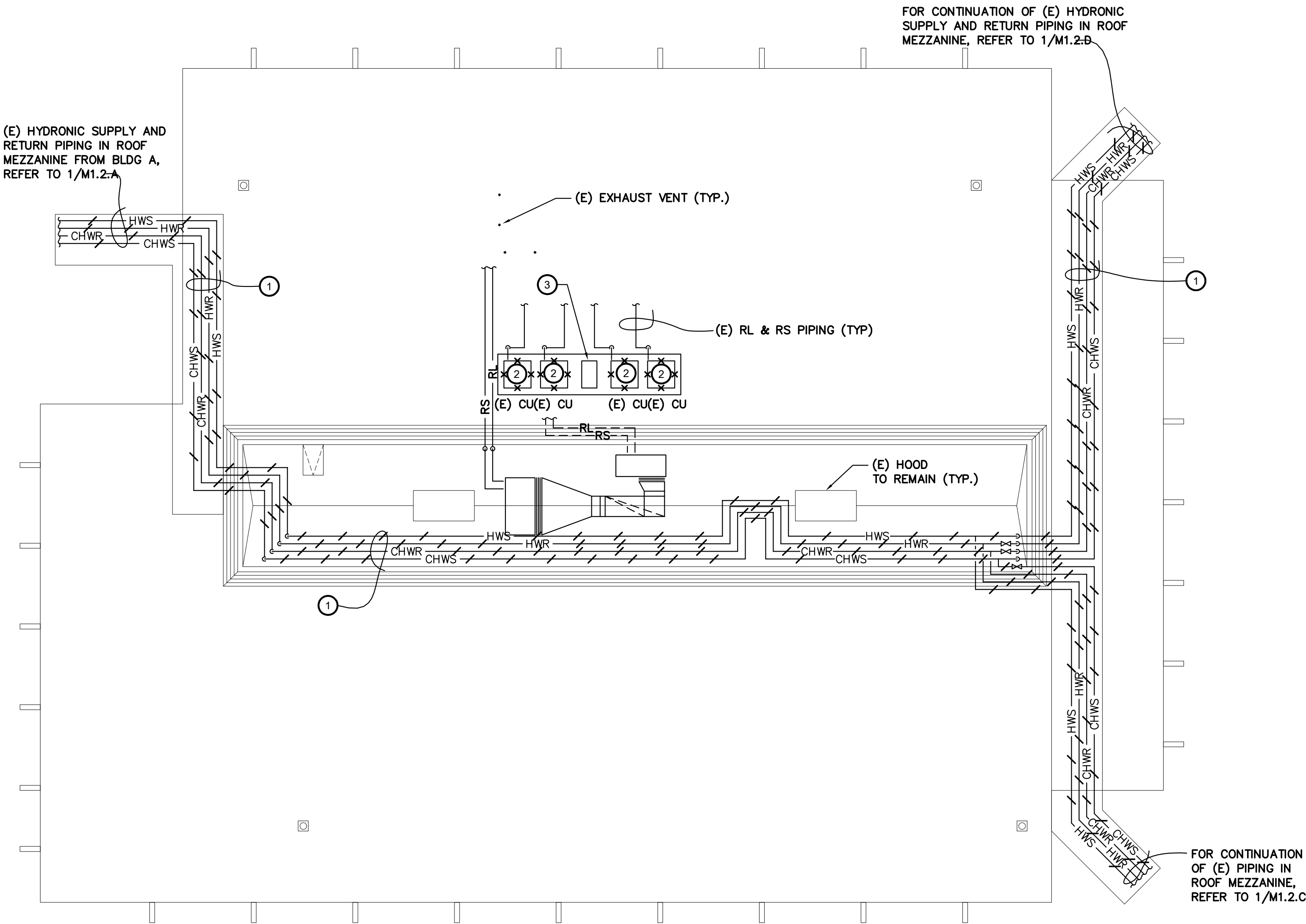
PROJECT NO.	REVISIONS	BY
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CADFILE		
21-M1.1.B.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

M1.1.B



RANDY CORONA, CALIFORNIA
MCM - BV 220208.00
PM - DESIGN TEAM PROJECT NO.

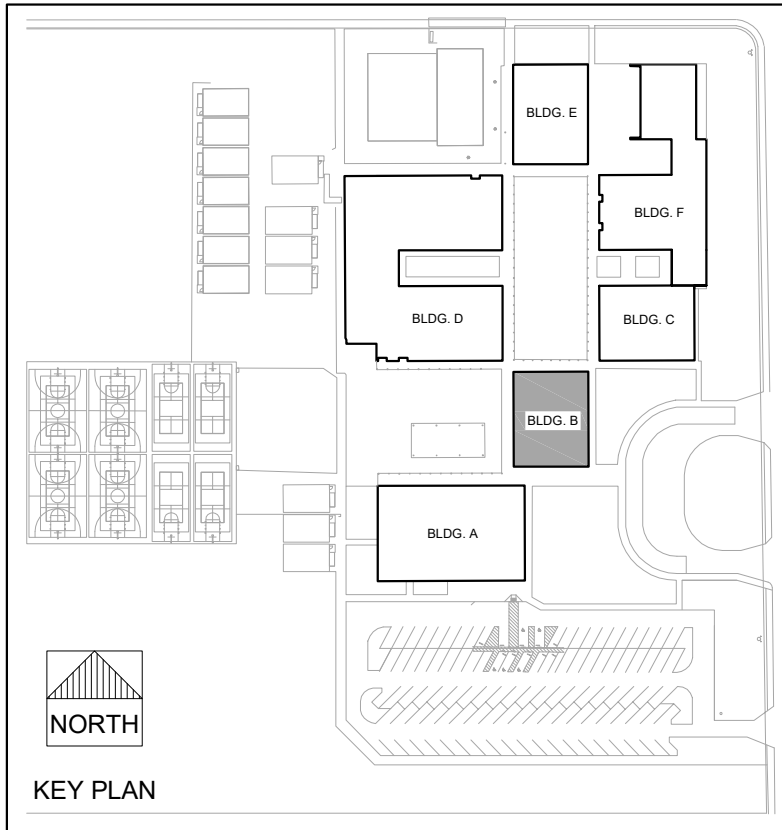
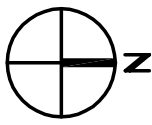
QC	
INI	%



MECHANICAL - DEMOLITION ROOF PLAN - BUILDING B

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

1
M1.2.B



capital
engineering
RANCHO CORDOVA, CALIFORNIA
MCM - BV 220208.00
PM - DESIGN TEAM PROJECT NO.

GENERAL NOTES:

1. EXISTING HVAC SYSTEMS & HYDRONIC SUPPLY AND RETURN PIPING SHOWN ON THE PLANS ARE DIAGRAMATIC IN NATURE AND BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES.

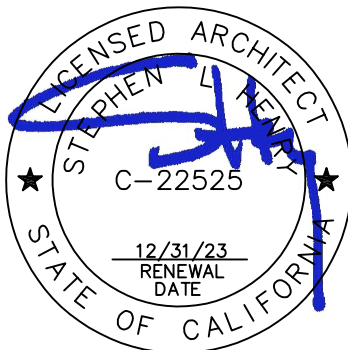
DEMOLITION KEY NOTES:

- ① (E) HYDRONIC SUPPLY AND RETURN PIPING IN ROOF MEZZANINE TO BE ABANDONED IN PLACE (TYP.)
- ② (E) CONDENSING UNIT TO BE REMOVED. PREPARED REFRIGERANT PIPING FOR CONNECTION TO NEW CU. SEE 1/M2.2.B FOR NEW WORK.
- ③ (E) CONDENSING UNIT TO BE REMOVED AND STORED FOR REINSTALLATION. SEE 1/M2.2.B FOR NEW WORK.

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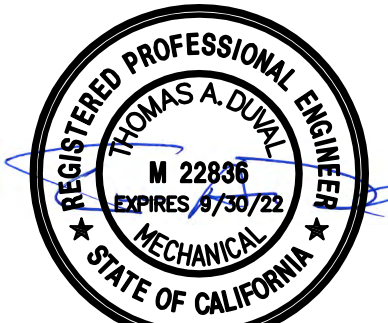
730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212

HENRY+
ASSOCIATES
ARCHITECTS



MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION ROOF PLAN
BUILDING B

CONSULTANT



DATE SIGNED: 07/05/22

PROJECT NO.	REVISIONS	BY
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SCALE		
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22-M1.2.B.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

M1.2.B

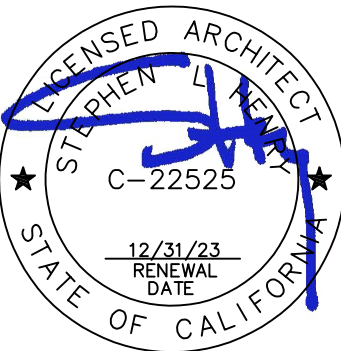
QC	
INI	%

KEY NOTES:

- 1 SET EXISTING SUPPLY GRILLE OR REGISTER TO CFM NOTED.
- 2 SET EXISTING RETURN FLOOR REGISTER TO CFM NOTED.
- 3 (E) DUCTWORK CONNECTED TO NEW AC UNIT OR DUCTWORK SHALL BE THOROUGHLY CLEANED, SEALED, AND LEAK TESTED TO A LEAKAGE RATE NOT TO EXCEED 15% OF FULL FAN FLOW. REFER TO SHEET MO 0.3, AIR CONDITIONING UNIT SCHEDULE, NOTES 12 AND 13.

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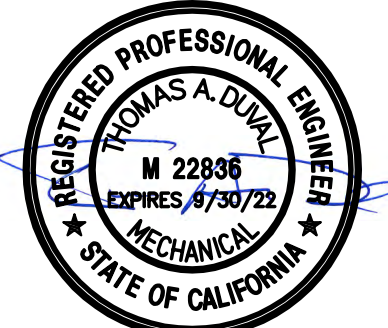


MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)

CONSTRUCTION DOCUMENTS PHASE

MECHANICAL -
FLOOR PLAN
BUILDING B

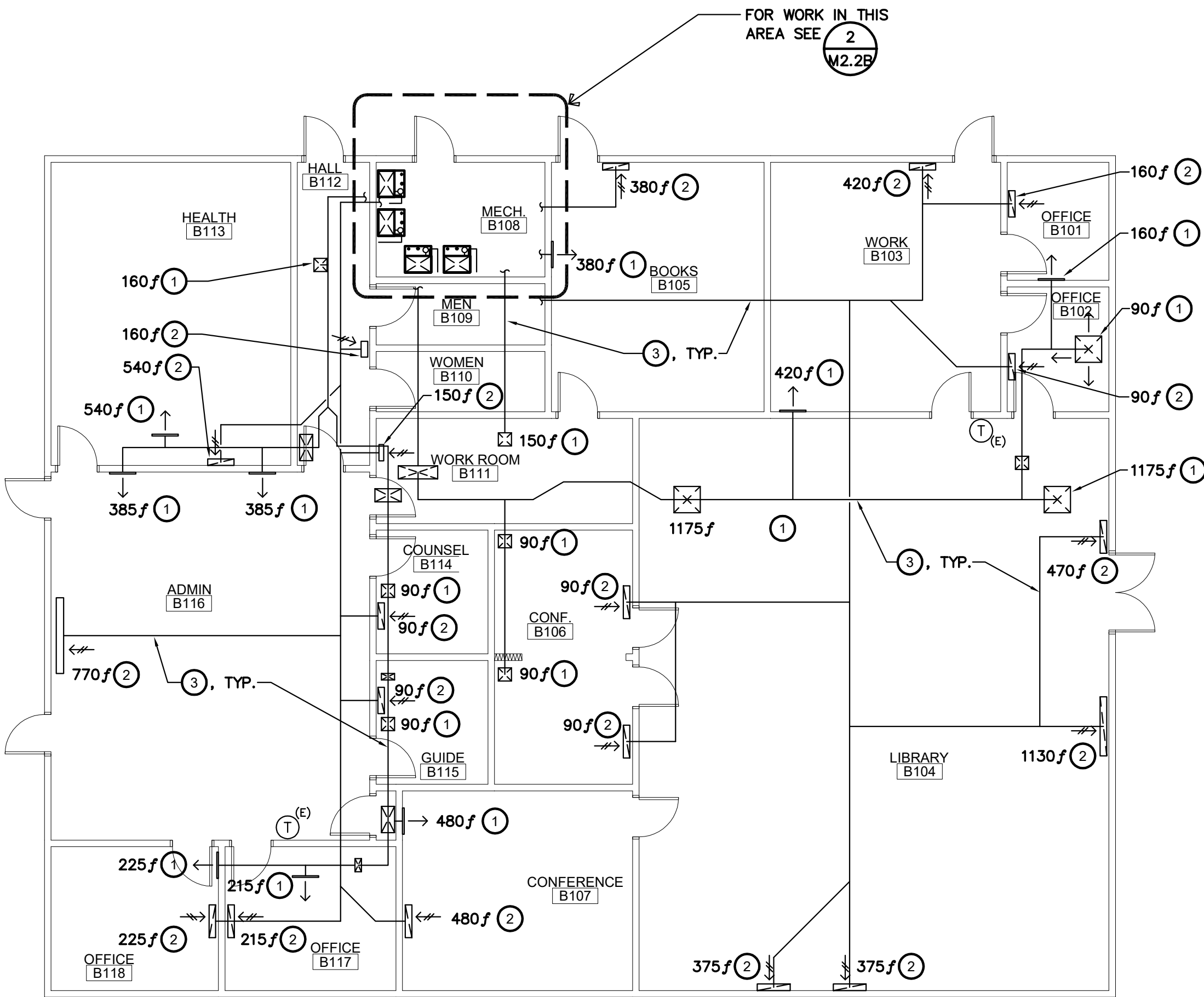
CONSULTANT

DATE SIGNED: 07/05/22

PROJECT NO. 22-32-057	REVISIONS	BY
DATE 2/17/2021		
DRAWN BV		
CHECKED MCM		
SCALE AS SHOWN		
CADFILE 23-M2.1.B.DWG		
UPDATED 8/26/2022		

M2.1.B

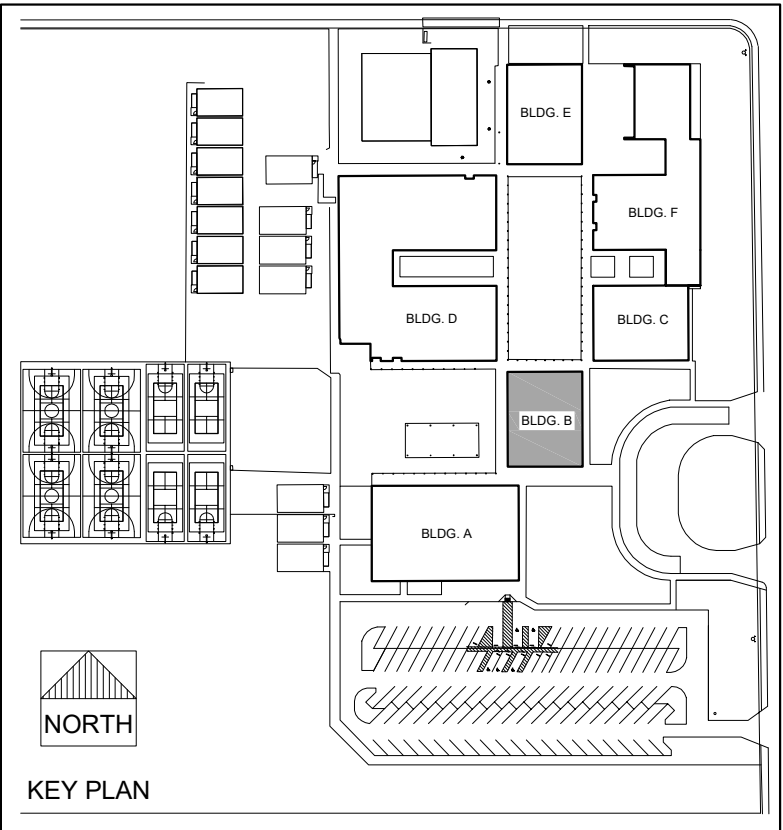
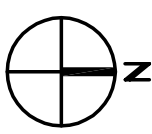
15 OF XX SHEETS



MECHANICAL - FLOOR PLAN - BUILDING B

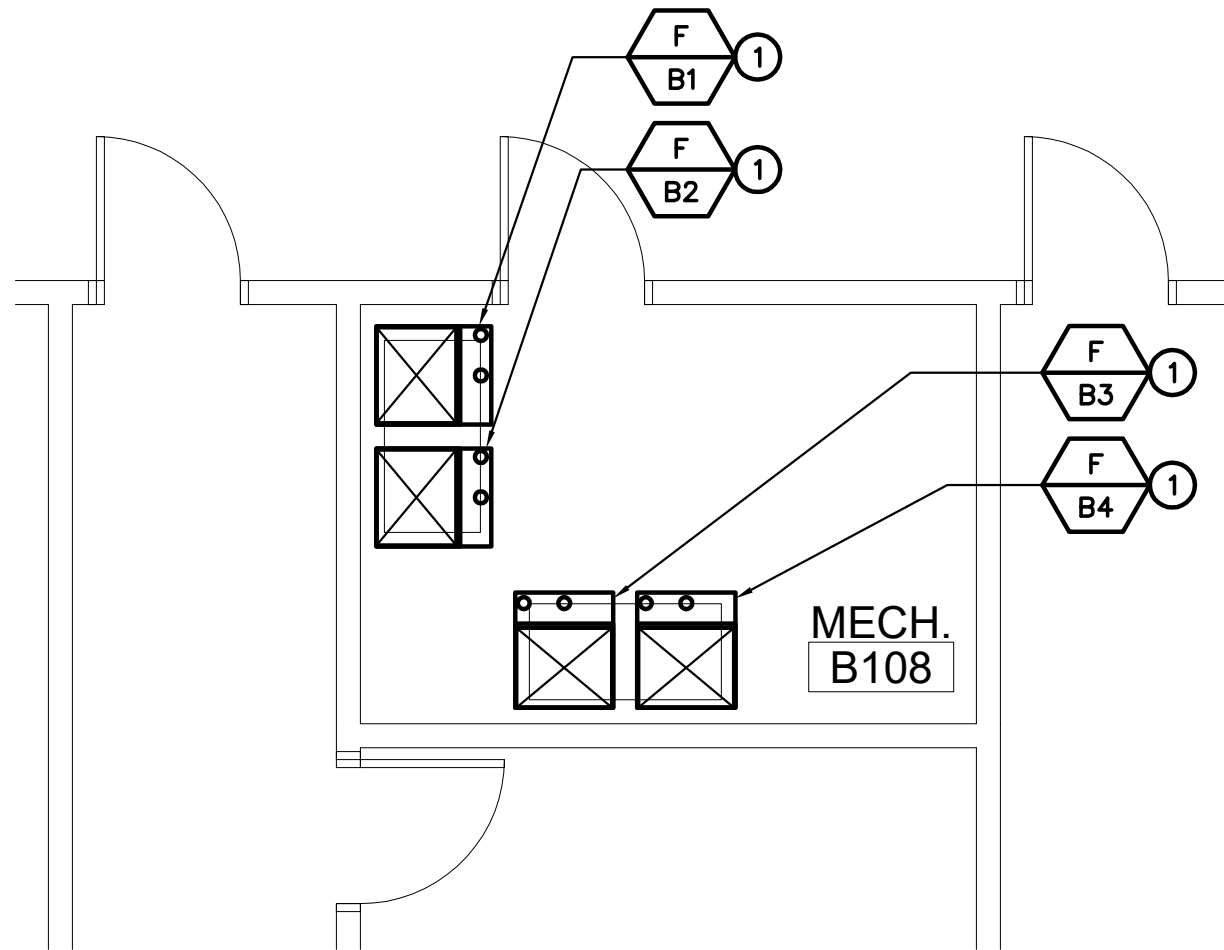
SCALE : 1/8" = 1'-0"

1
M2.1.B



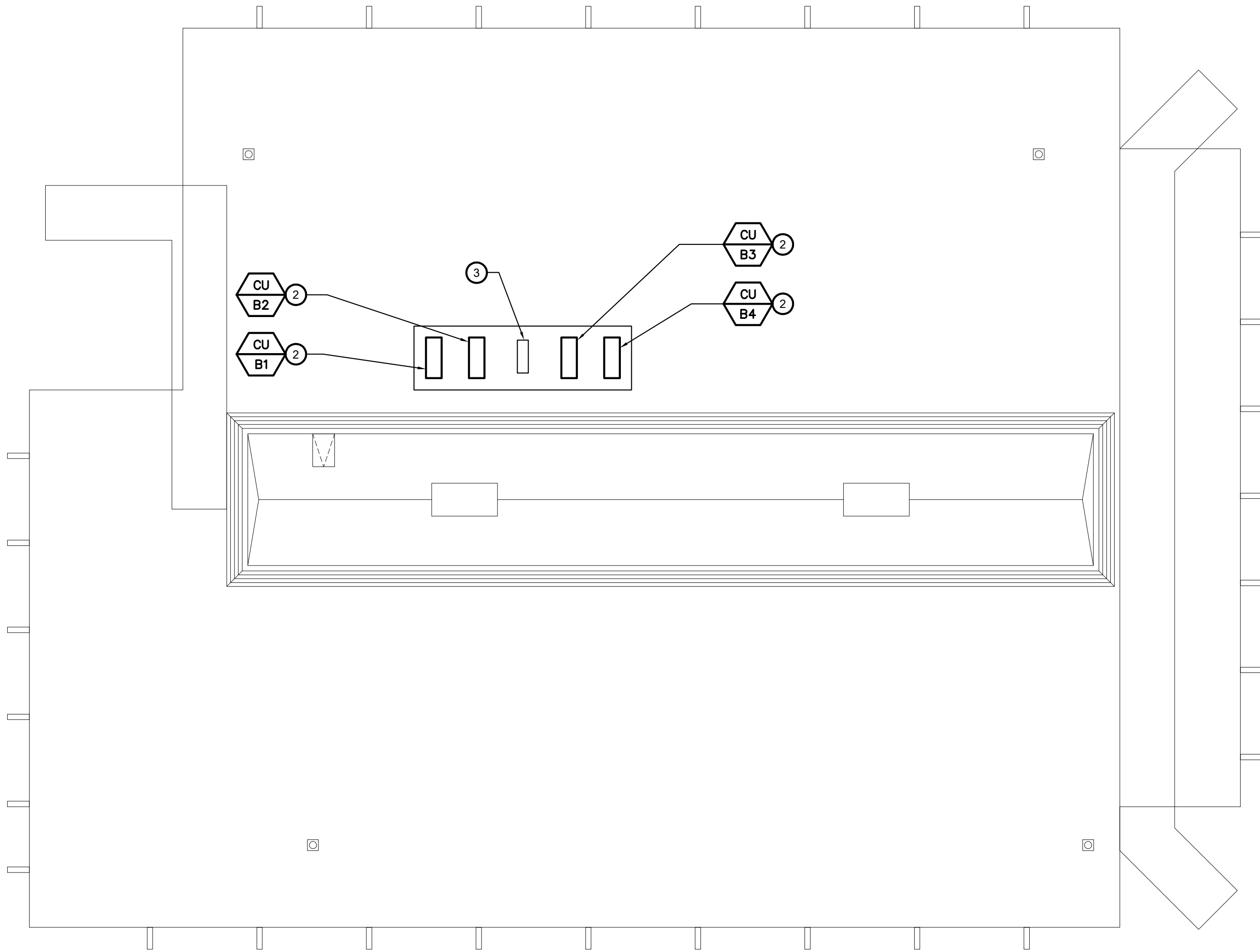
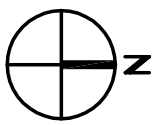
RANCHO CORDOVA, CALIFORNIA	
MCM - BV	220208.00
PM - DESIGN TEAM	PROJECT NO.

QC	
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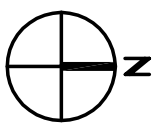
ENLARGED MECHANICAL ROOM PLAN - BUILDING B
SCALE : 1/4" = 1'-0"

2
M2.2.B



MECHANICAL - ROOF PLAN - BUILDING B
SCALE : 1/8" = 1'-0"

1
M2.2.B



- KEY NOTES:
- 1 CONNECT FURNACE AND COIL TO EXISTING SUPPLY DUCT AND EXISTING BELOW FLOOR RETURN DUCT. RECONNECT GAS, CONDENSATE, REFRIGERANT AND VENT PIPING.
 - 2 INSTALL CONDENSING UNIT ON NEW PLATFORM. CONNECT TO EXISTING REFRIGERANT PIPING.
 - 3 REINSTALL EXISTING CONDENSING UNIT ON NEW PLATFORM. CONNECT TO EXISTING REFRIGERANT PIPING.

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MODERNIZATION
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(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
ENLARGED MECH. RM. &
ROOF PLAN - BUILDING B

CONSULTANT

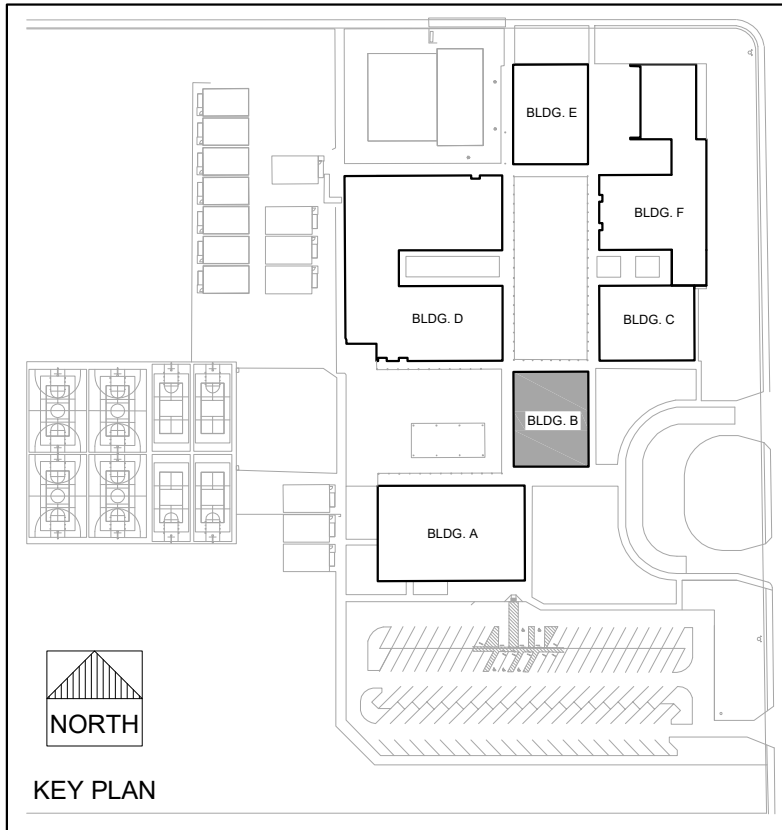


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24-M2.2.B.DWG		
UPDATED		
8/26/2022		
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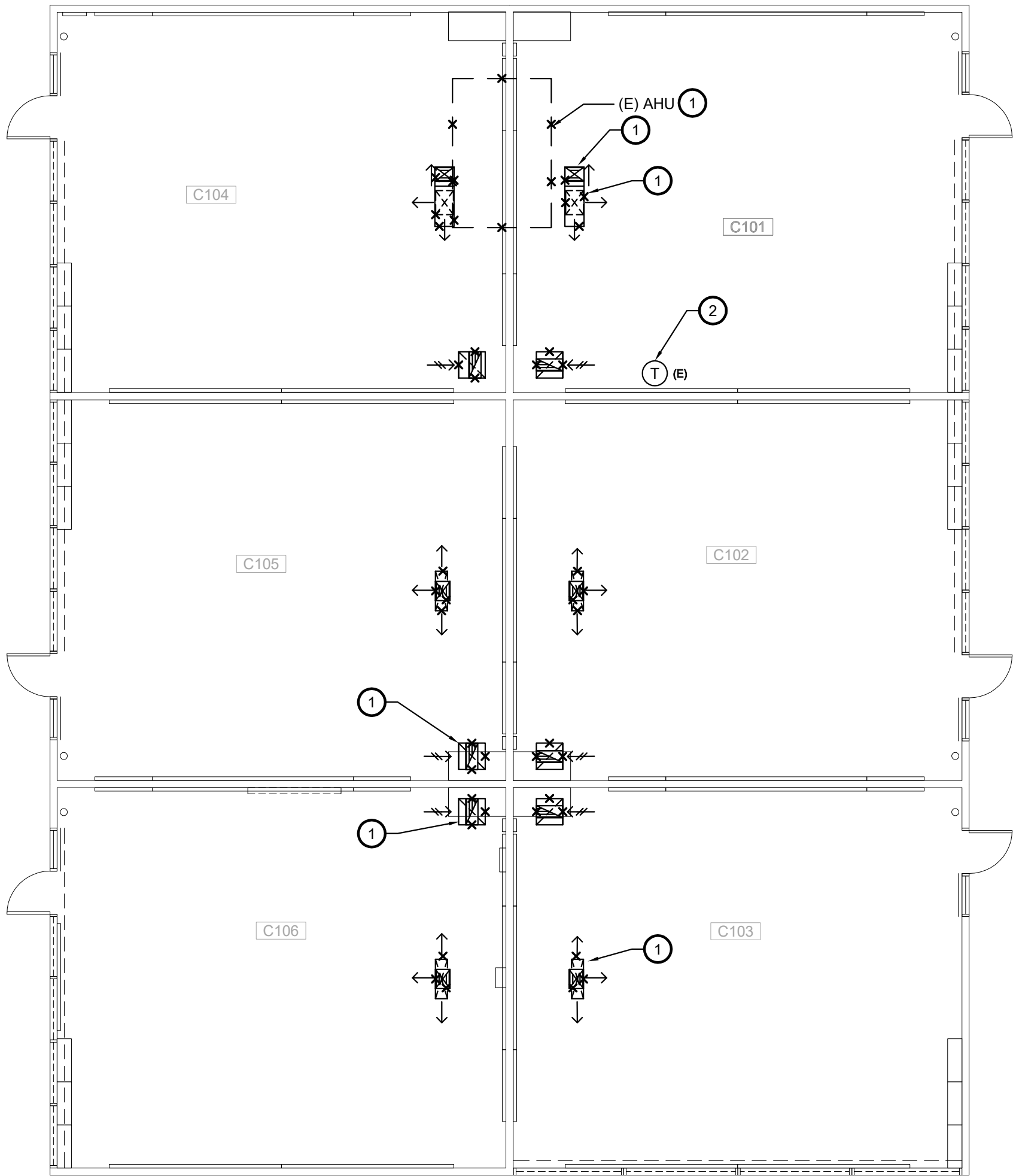
M2.2.B

15 OF XX SHEETS

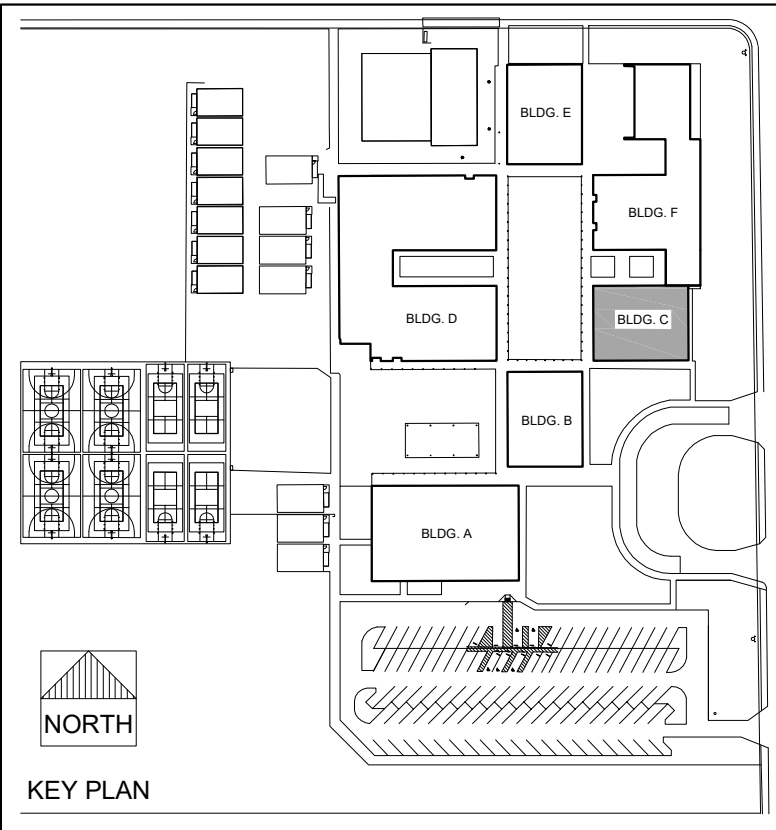


RANDY CORONA, CALIFORNIA
MCM - BV
PM - DESIGN TEAM
220208.00
PROJECT NO.

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INI	%



MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING C **1**
SCALE : 1/8" = 1'-0" **M1.1.C**



GENERAL NOTES:

1. EXISTING HVAC SYSTEMS & HYDRONIC SUPPLY AND RETURN PIPING SHOWN ON THE PLANS ARE DIAGRAMATIC IN NATURE AND BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES.

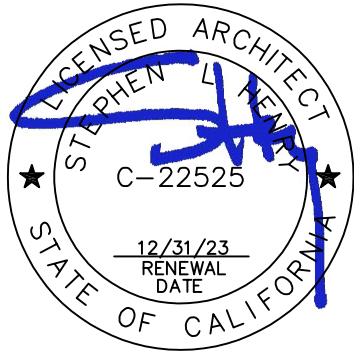
DEMOLITION KEY NOTES:

① ALL VERTICAL AND HORIZONTAL DUCT, GRILLES, & SUPPORT FOR (E) AHU ON ROOF TO BE REMOVED (TYP)

② REMOVE (E) THERMOSTAT & WIRING.

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MODERNIZATION
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CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION FLOOR PLAN
BUILDING C

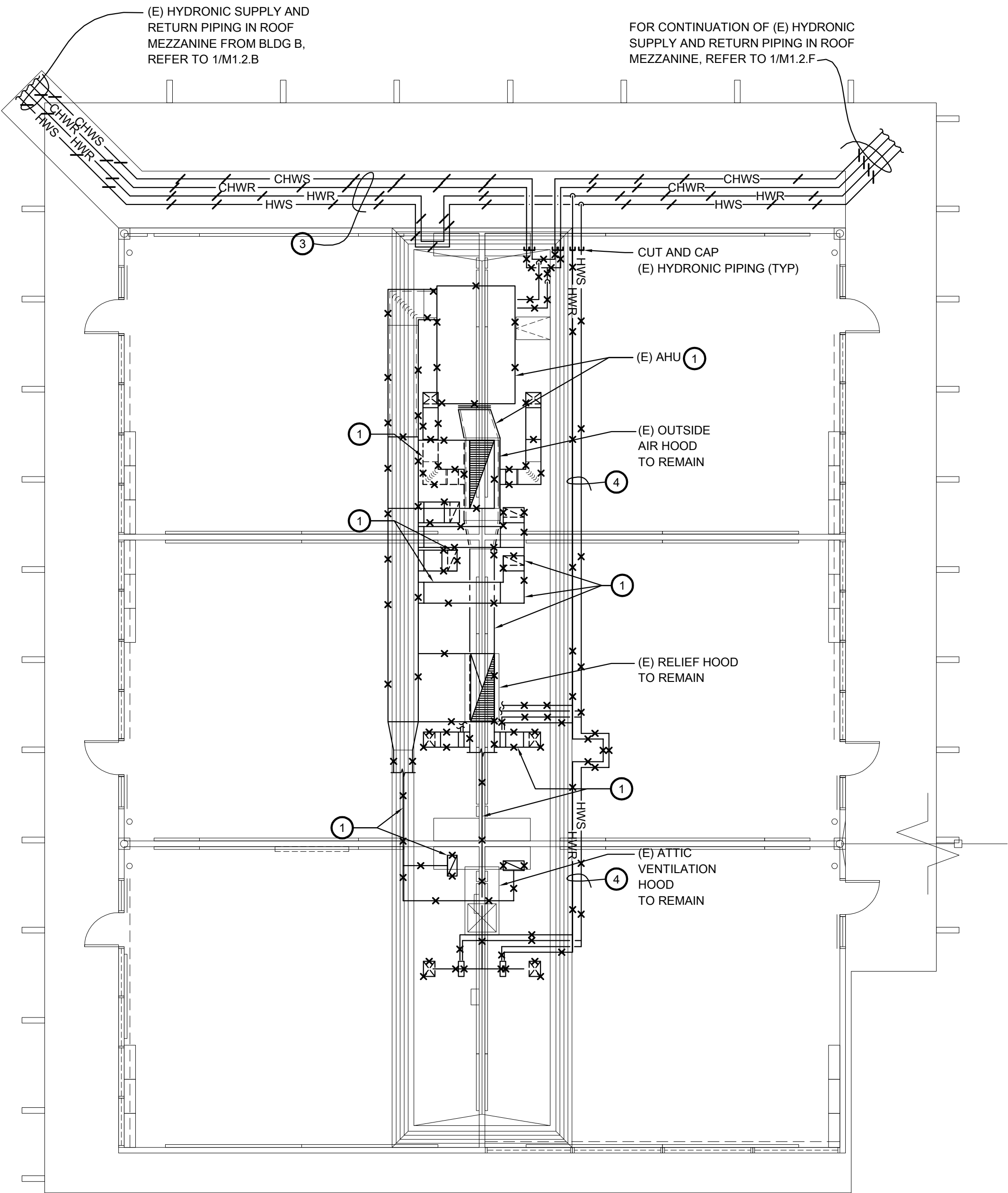


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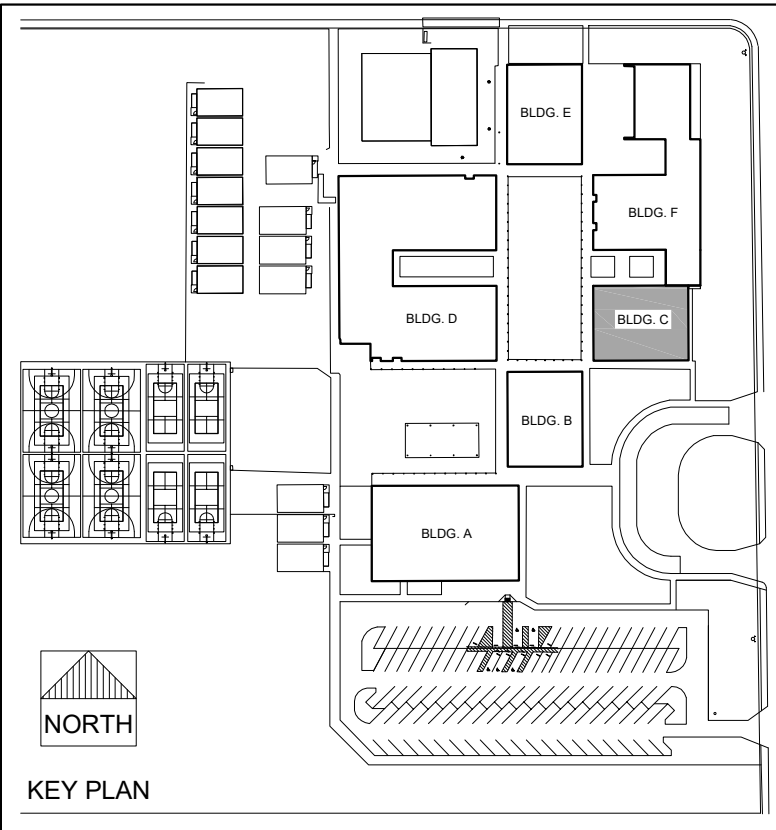
M1.1.C

QC
INI %



MECHANICAL - DEMOLITION ROOF PLAN - BUILDING C
SCALE : 1/8" = 1'-0"

1
M1.2.C



capital
engineering
RANCHO CORDOVA, CALIFORNIA
MCM - BV 220208.00
PM - DESIGN TEAM PROJECT NO.

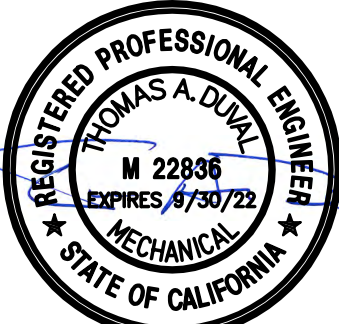
- GENERAL NOTES:
- EXISTING HVAC SYSTEMS & HYDRONIC SUPPLY AND RETURN PIPING SHOWN ON THE PLANS ARE DIAGRAMATIC IN NATURE AND BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES.
- DEMOLITION KEY NOTES:
- AHU, REHEAT COILS, ALL VERTICAL & HORIZONTAL DUCT, HYDRONIC SUPPLY & RETURN PIPING, AND SUPPORTS TO BE REMOVED. (TYP.)
 - EXHAUST FAN TO BE REMOVED. PATCH OPENING TO MATCH SURROUNDING SURFACES.
 - (E) HYDRONIC SUPPLY AND RETURN PIPING IN ROOF MEZZANINE TO BE ABANDONED IN PLACE (TYP.)
 - (E) HYDRONIC SUPPLY AND RETURN PIPING & SUPPORTS TO BE REMOVED.

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MODERNIZATION
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(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION ROOF PLAN
BUILDING C



DATE SIGNED: 07/05/22

PROJECT NO.	REVISIONS	BY
22-32-057		
DATE		
2/17/2021		
DRAWN		
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CADFILE		
32-M1.2.C.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

M1.2.C

QC	
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KEY NOTES:

- ① RETURN DUCT THROUGH ROOF. TERMINATE INSIDE UNIT PLATFORM JUST ABOVE ROOF.
- ② SUPPLY DUCT THROUGH ROOF.

IDENTIFICATION STAMP
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APP: 02-120272 INC:
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DATE: 09/12/2022

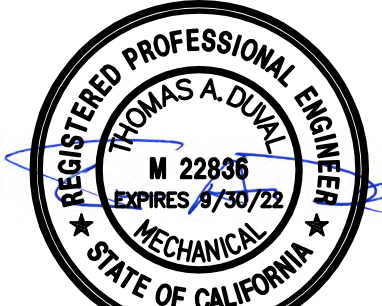
730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE

MECHANICAL -
FLOOR PLAN - BUILDING C

CONSULTANT

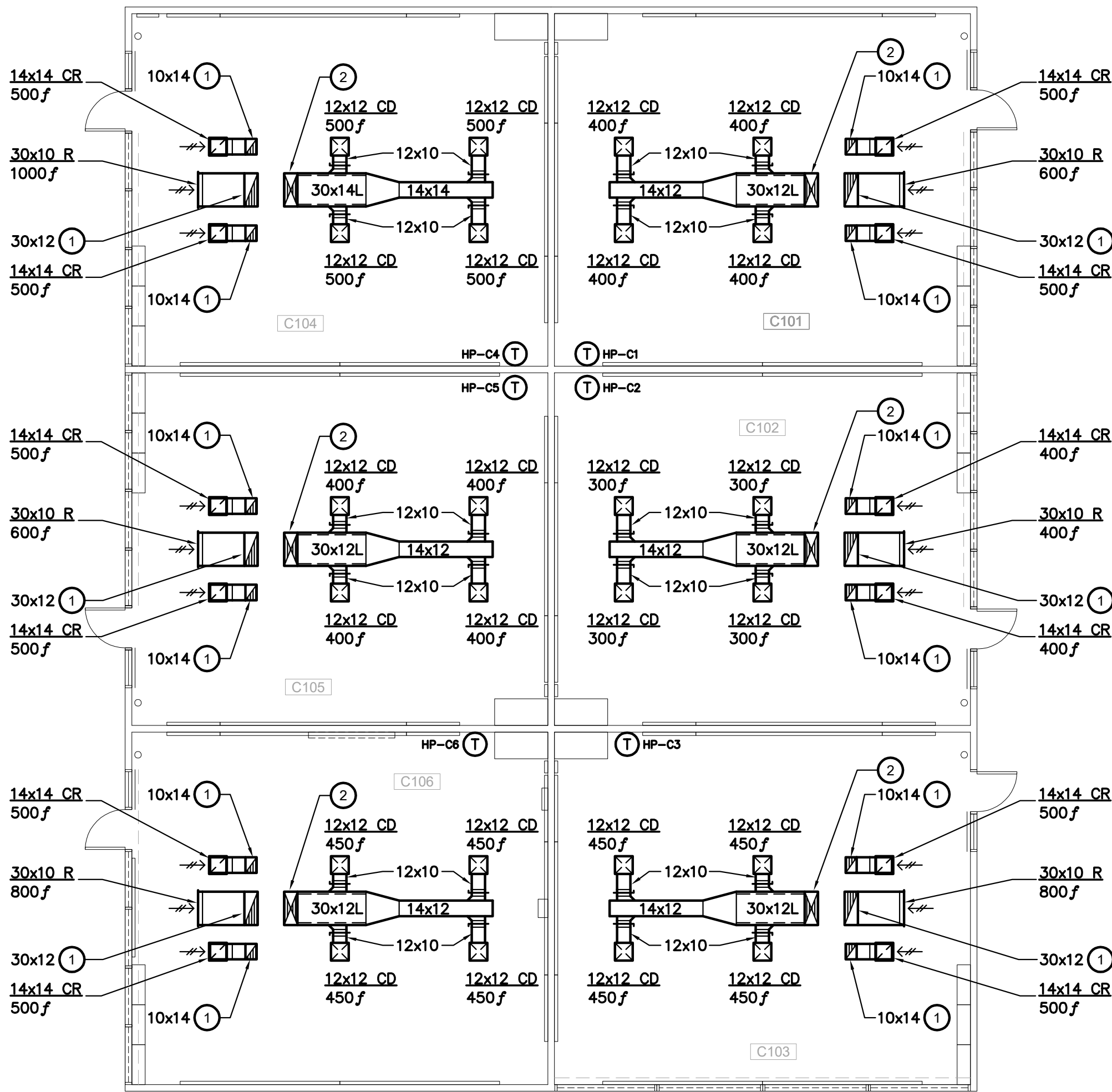


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UPDATED		
8/26/2022		
SHEET NO.		

M2.1.C

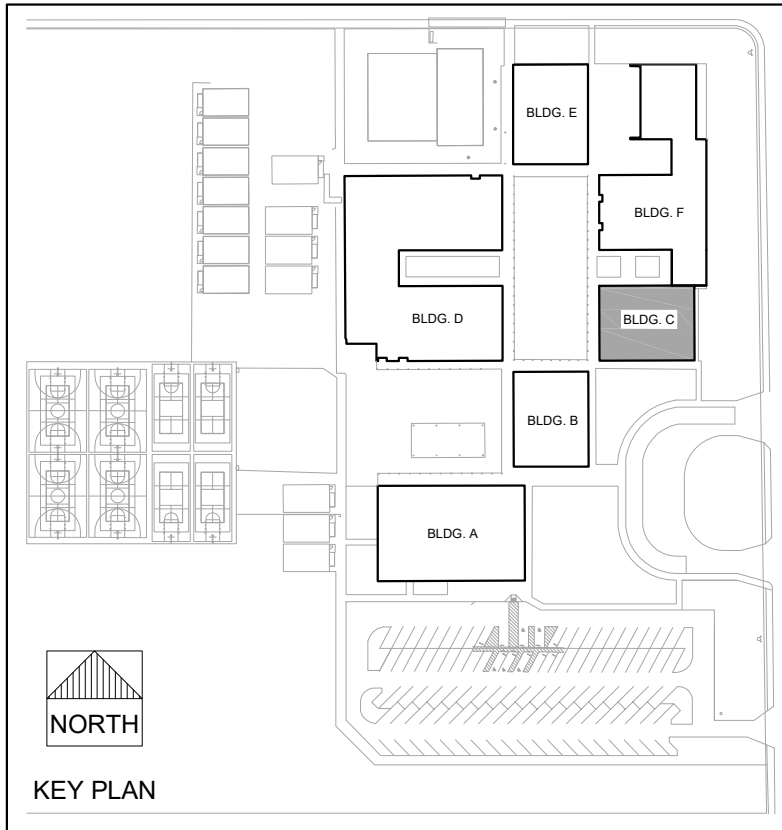
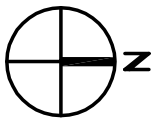
15 OF XX SHEETS



MECHANICAL - FLOOR PLAN - BUILDING C

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

1
M2.1.C

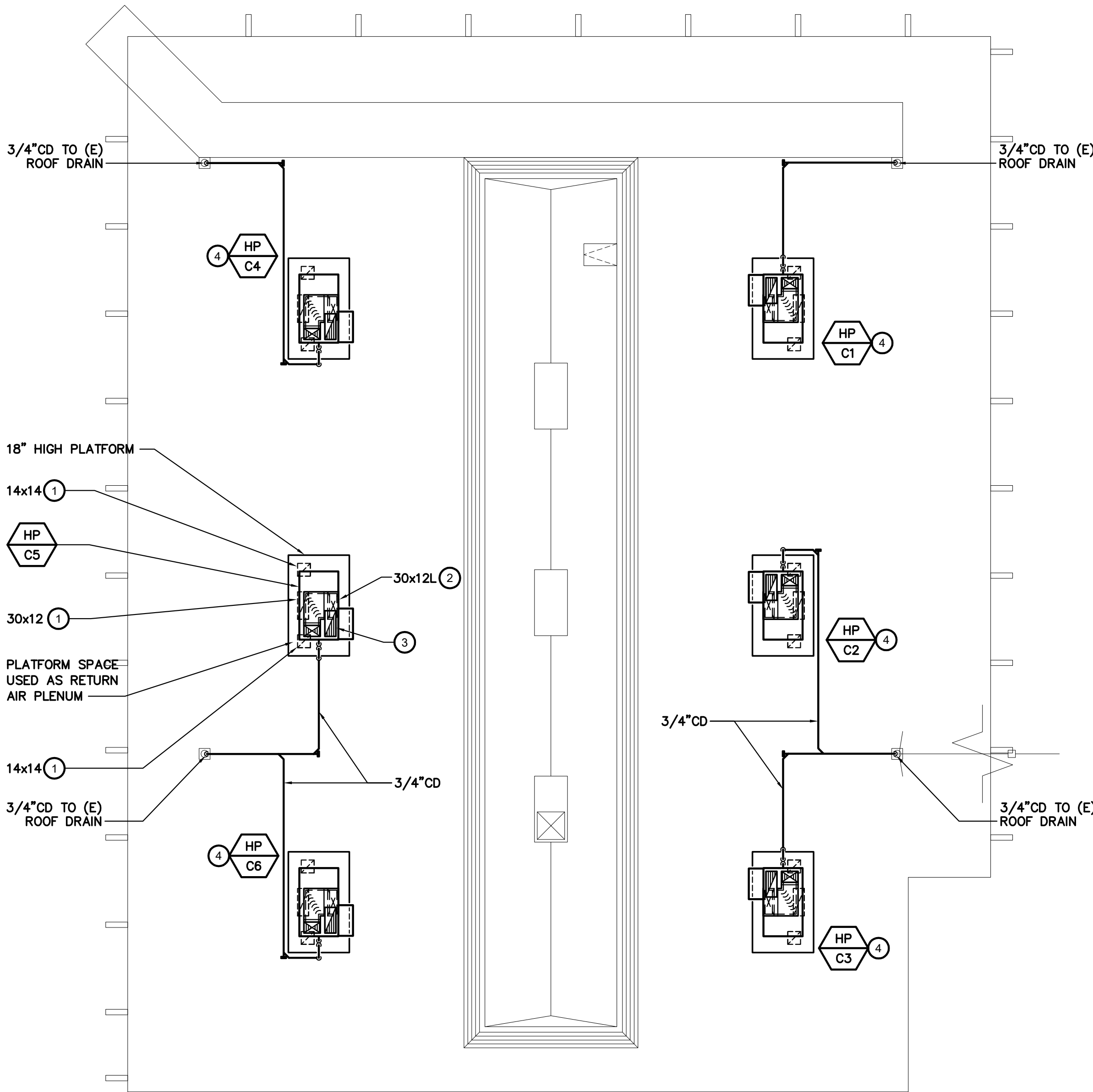


RANCHO CORONA, CALIFORNIA
MCM - BV
PM - DESIGN TEAM
220208.00
PROJECT NO.

QC	
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KEY NOTES:

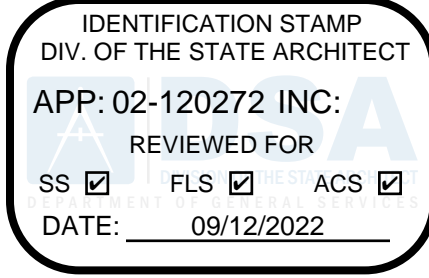
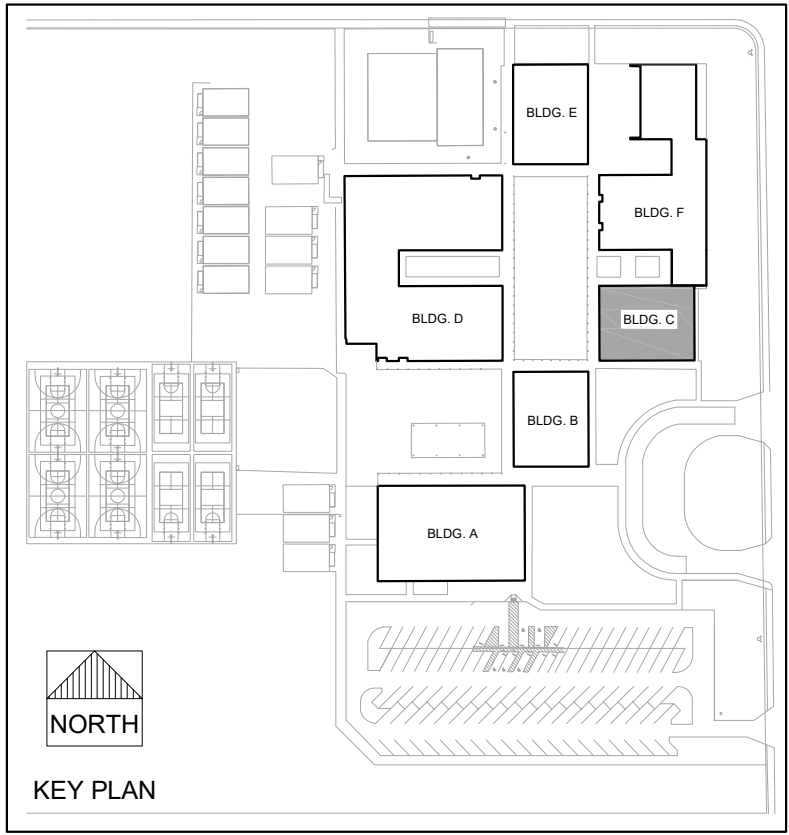
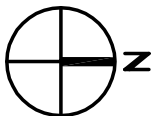
- 1
- RETURN DUCT THROUGH ROOF FROM BELOW.
TERMINATE INSIDE UNIT PLATFORM.
- 2
- SUPPLY DUCT INSIDE ROOF CURB AND UNIT
PLATFORM. DROP THROUGH ROOF AS INDICATED.
- 3
- TERMINATE UNIT RA DUCT DROP AT CONNECTION
BETWEEN UNIT AND ROOF CURB.
- 4
- FOR DUCT SIZES AND ADDITION INFORMATION
SEE HP-C5.



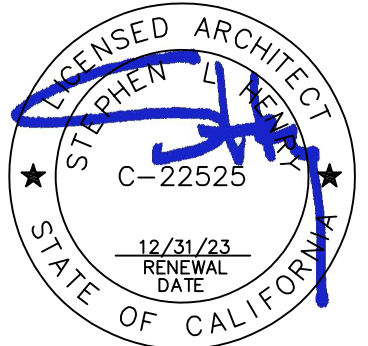
MECHANICAL - ROOF PLAN - BUILDING C

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

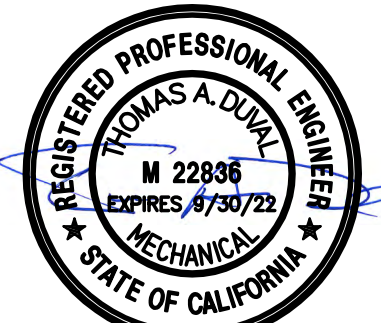
1
M2.2.C



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MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
ROOF PLAN - BUILDING C



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34-M2.2.C.DWG		
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SHEET NO.		

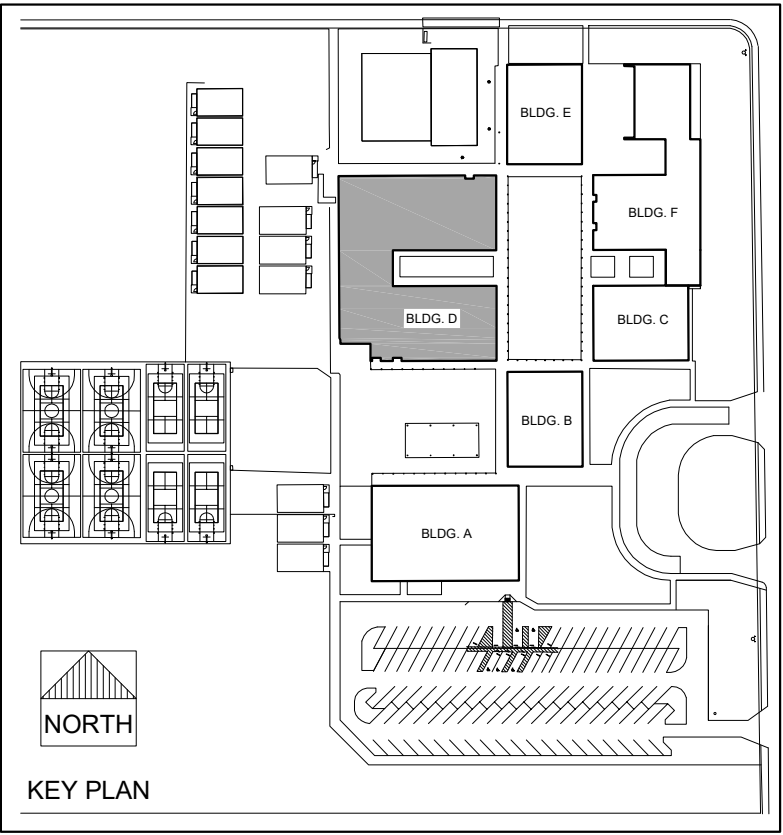
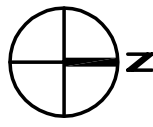
M2.2.C

QC
INI %



MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING D
SCALE : 1/8" = 1'-0"

1
M1.1.D



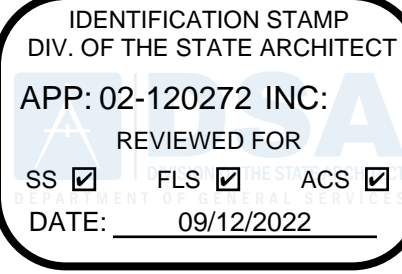
RANDY CORONA, CALIFORNIA
MCM - BV
PM - DESIGN TEAM
220208.00
PROJECT NO.

GENERAL NOTES:

- EXISTING HVAC SYSTEMS & HYDRONIC SUPPLY AND RETURN PIPING SHOWN ON THE PLANS ARE DIAGRAMATIC IN NATURE AND BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES.

DEMOLITION KEY NOTES:

- ALL VERTICAL AND HORIZONTAL DUCT, GRILLES, & SUPPORT FOR (E) AHU ON ROOF TO BE REMOVED.
- DUCT, GRILLE & SUPPORTS FOR (E) EXHAUST FAN ON ROOF TO BE REMOVED. SEE M2.1.D AND M2.2.D FOR NEW EXHAUST FAN AND DUCTWORK.
- REMOVE (E) THERMOSTAT & WIRING. (TYP.)

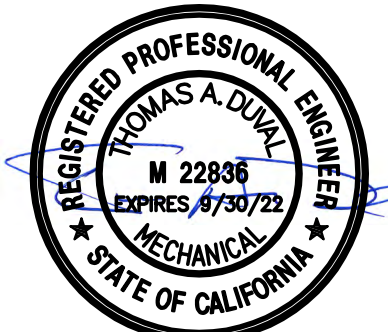


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MODERNIZATION
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(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION FLOOR PLAN
BUILDING D

CONSULTANT

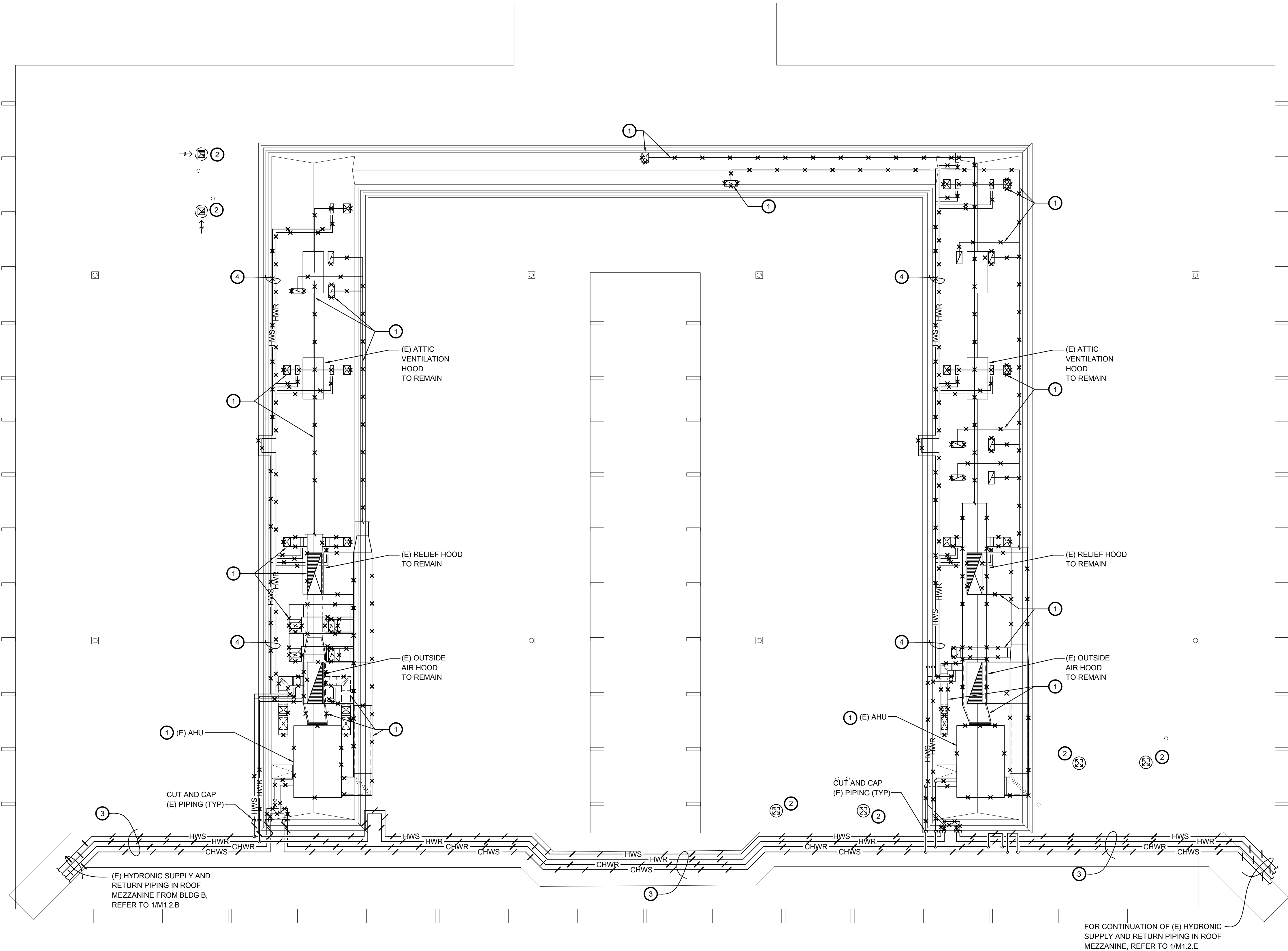


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AS SHOWN		
CADFILE		
41-M1.1.D.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

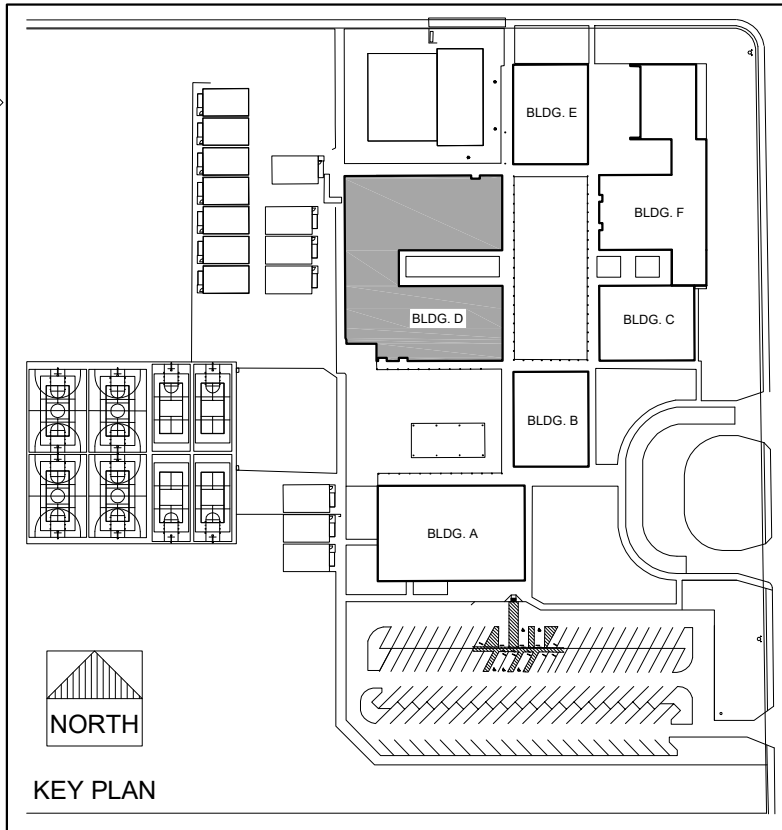
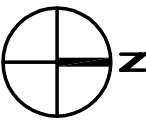
M1.1.D

QC	
INI	%



MECHANICAL - DEMOLITION ROOF PLAN - BUILDING D
SCALE : 1/8" = 1'-0"

1
M1.2.D



- GENERAL NOTES:
- EXISTING HVAC SYSTEMS & HYDRONIC SUPPLY AND RETURN PIPING SHOWN ON THE PLANS ARE DIAGRAMATIC IN NATURE AND BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES.
- DEMOLITION KEY NOTES:
- AHU, REHEAT COILS, ALL VERTICAL & HORIZONTAL DUCT, HYDRONIC SUPPLY & RETURN PIPING, AND SUPPORTS TO BE REMOVED.
 - EXHAUST FAN TO BE REMOVED. SEE M2.1.D AND M2.2.D FOR NEW EXHAUST FAN AND DUCTWORK.
 - (E) HYDRONIC SUPPLY AND RETURN PIPING IN ROOF MEZZANINE TO BE ABANDONED IN PLACE (TYP.)
 - (E) HYDRONIC SUPPLY AND RETURN PIPING & SUPPORTS TO BE REMOVED.

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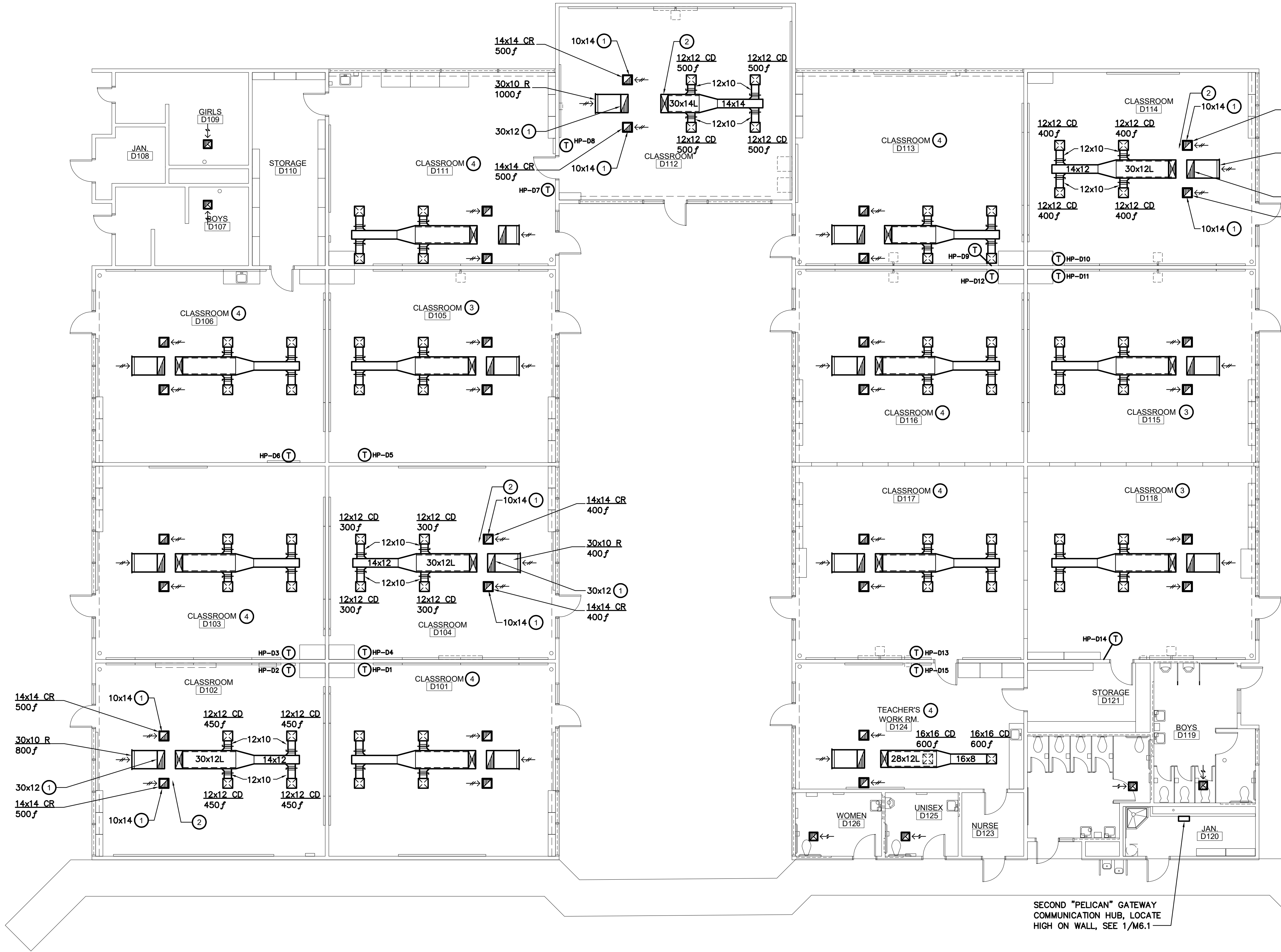
MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION ROOF PLAN
BUILDING D

CONSULTANT
REGISTERED PROFESSIONAL ENGINEER
THOMAS A. DUBO
M 22896
EXPIRES 8/30/22
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 07/05/22

PROJECT NO.	REVISIONS	BY
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AS SHOWN		
CADFILE		
42-M1.2.D.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

M1.2.D

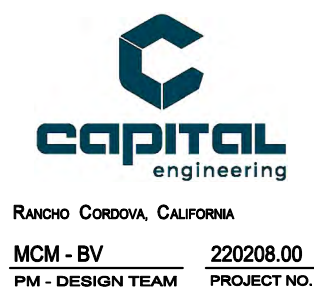
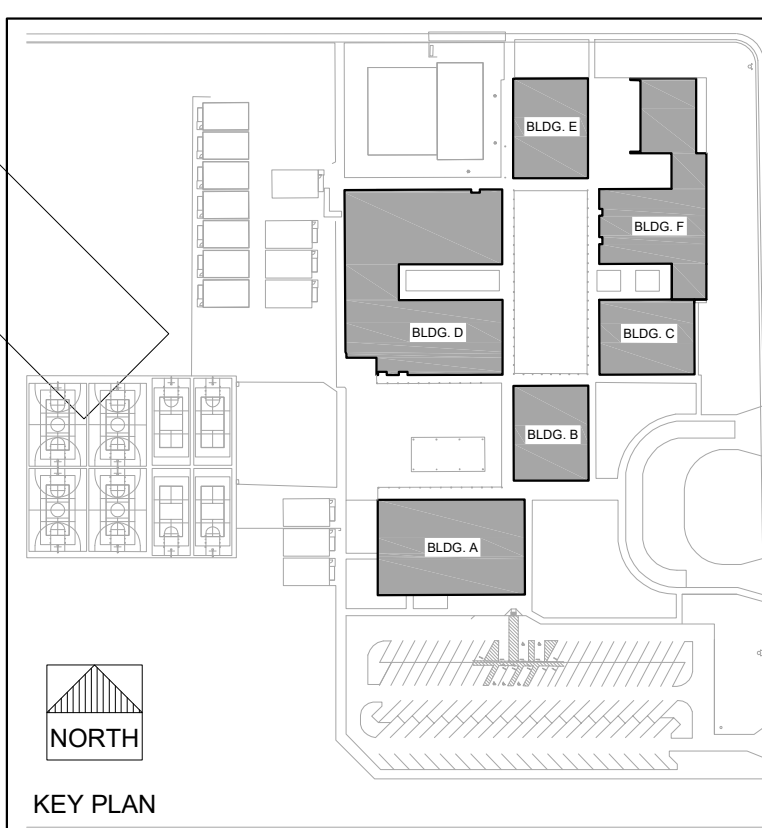
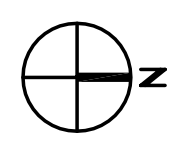
QC	
INI	%



- KEY NOTES:
- 1 RETURN DUCT THROUGH ROOF. TERMINATE INSIDE UNIT PLATFORM JUST ABOVE ROOF.
 - 2 SUPPLY DUCT THROUGH ROOF.
 - 3 SEE CLASSROOM D104 FOR DUCT SIZES AND ADDITIONAL NOTES.
 - 4 SEE CLASSROOM D114 FOR DUCT SIZES AND ADDITIONAL NOTES.
 - 5 SEE CLASSROOM D102 FOR DUCT SIZES AND ADDITIONAL NOTES.

MECHANICAL - FLOOR PLAN - BUILDING D
SCALE : 1/8" = 1'-0"

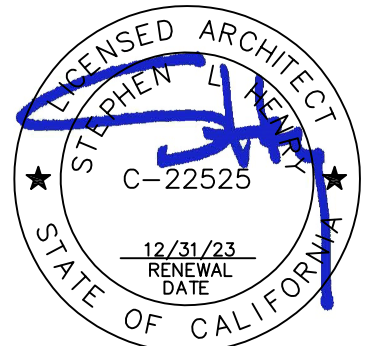
1
M2.1.D



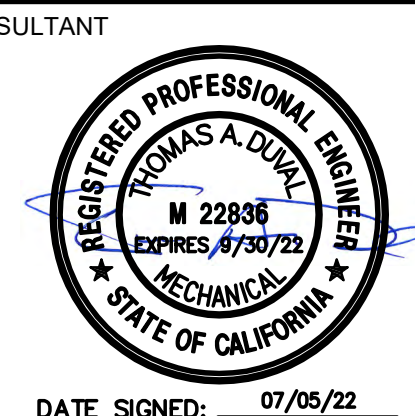
RANDY CORONA, CALIFORNIA
MCM - BV 220208.00
PM - DESIGN TEAM PROJECT NO.

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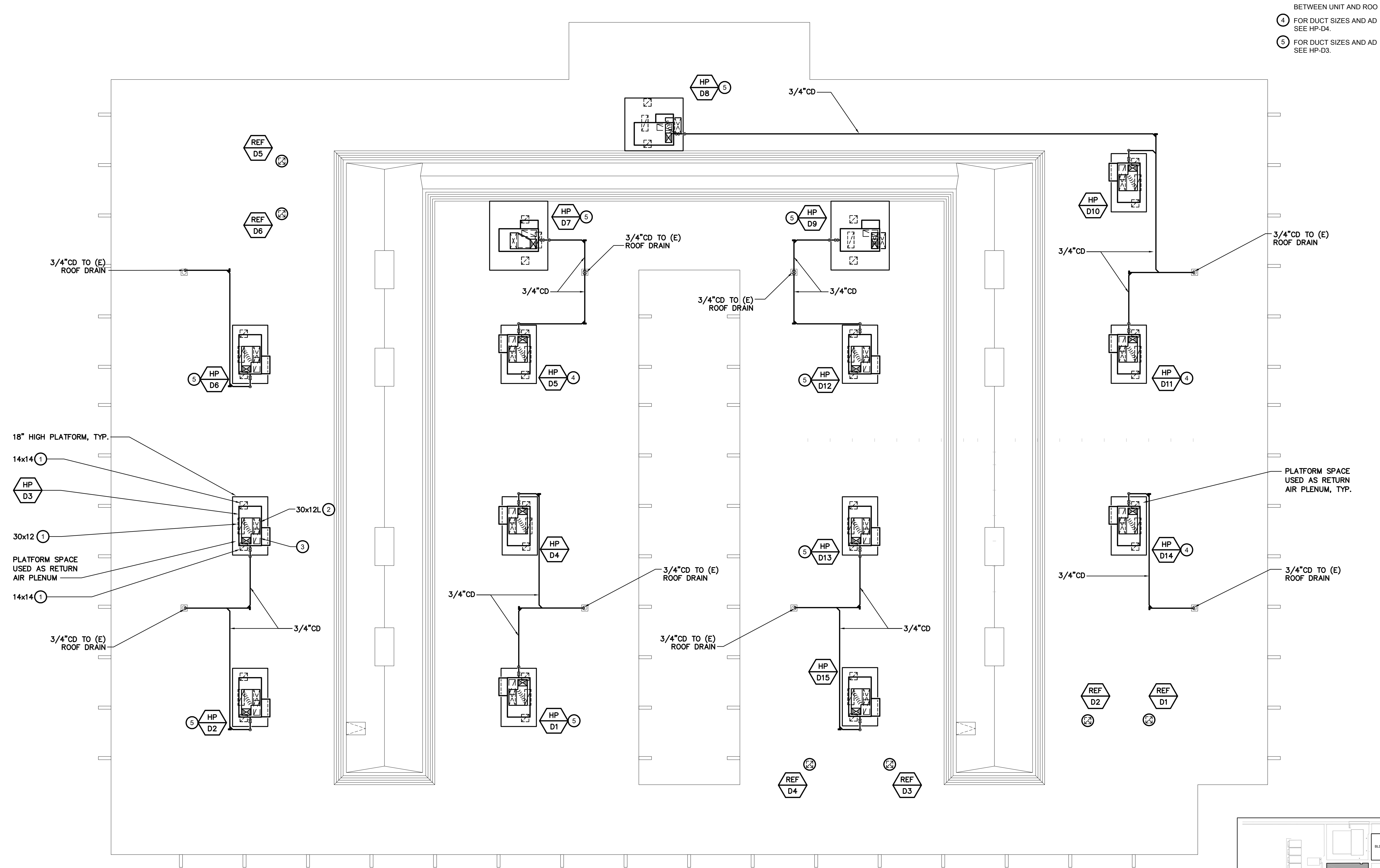
MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL - FLOOR PLAN
BUILDING D



PROJECT NO.	22-32-057	REVISIONS	BY
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SCALE	AS SHOWN		
CADFILE	43-M2.1.D.DWG		
UPDATED	8/26/2022		
SHEET NO.			

M2.1.D

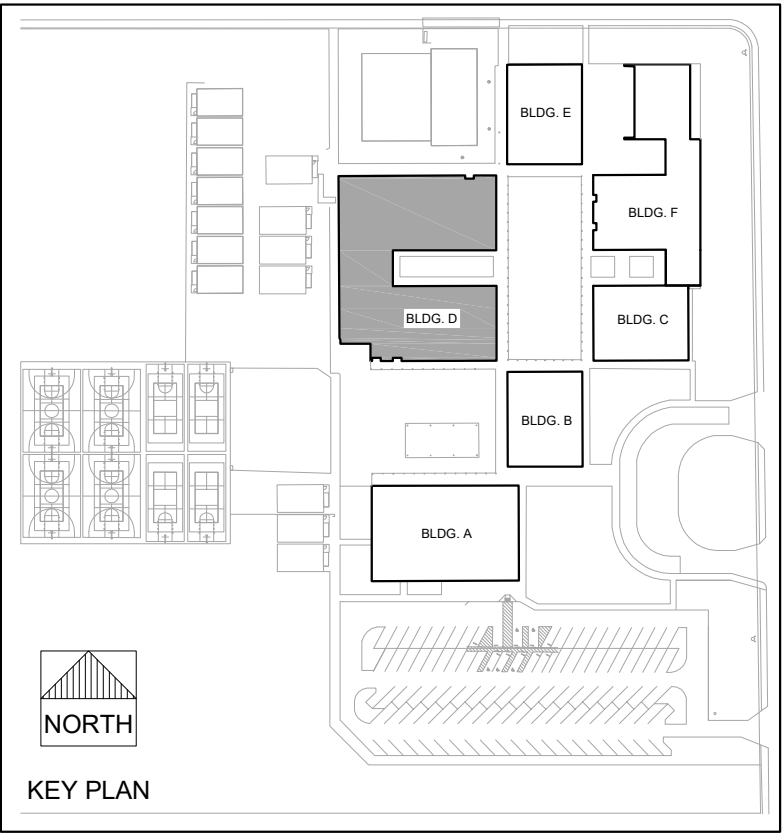
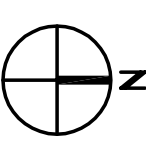
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MECHANICAL - ROOF PLAN - BUILDING D

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

1
M2.2.D




UNCHO CORDOVA, CALIFORNIA
CM - BV
M - DESIGN TEAM
220208.00
PROJECT NO

BETWEEN UNIT AND ROO
FOR DUCT SIZES AND AD
SEE HP-D4.

FOR DUCT SIZES AND AD
SEE HP-D3.

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MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL - ROOF PLAN
BUILDING D

CONSULTANT

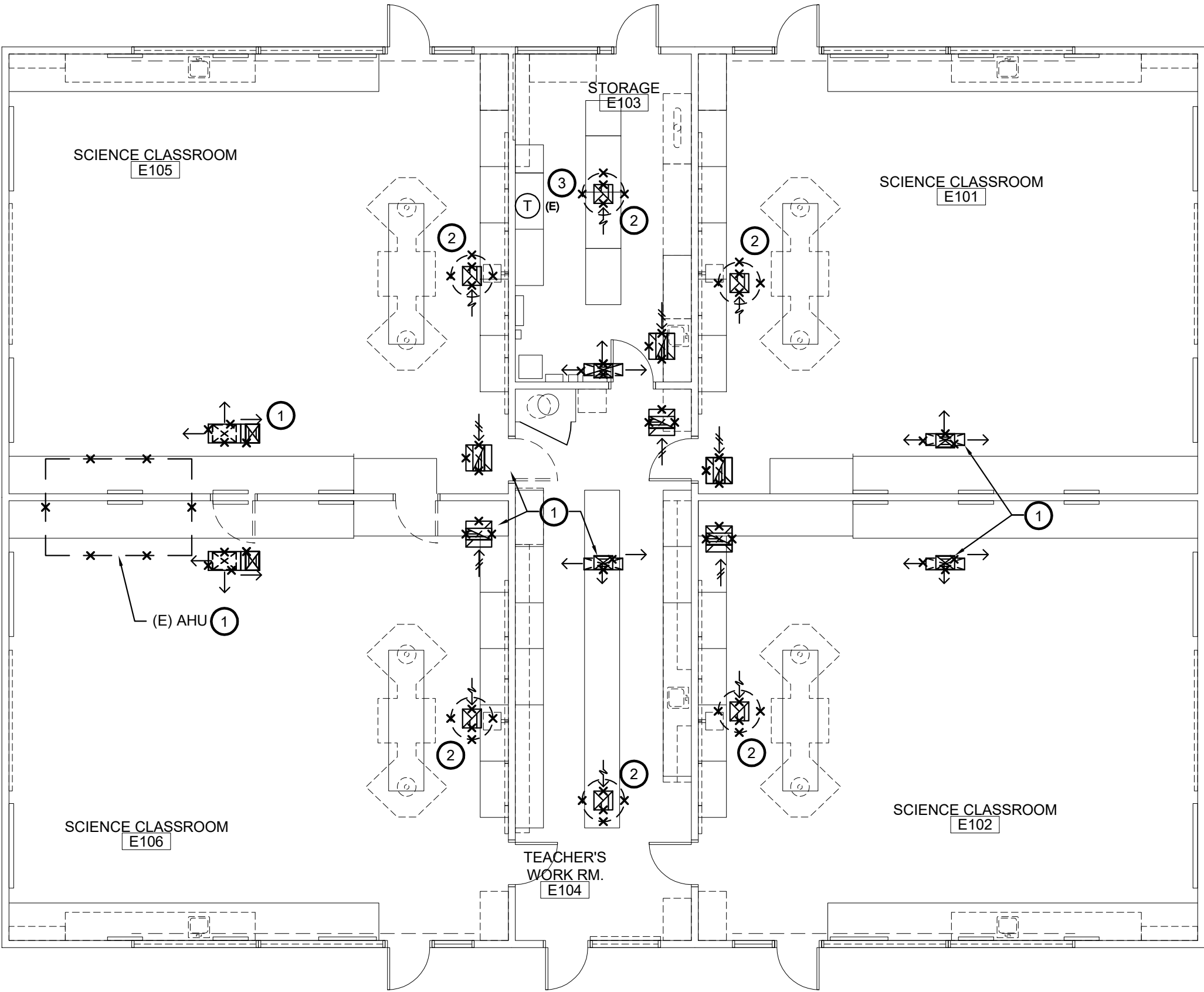


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PROJECT NO. 22-32-057	REVISIONS	BY
DATE 2/17/2021		
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CADFILE 44-M2.2.D.DWG		
UPDATED 8/26/2022		
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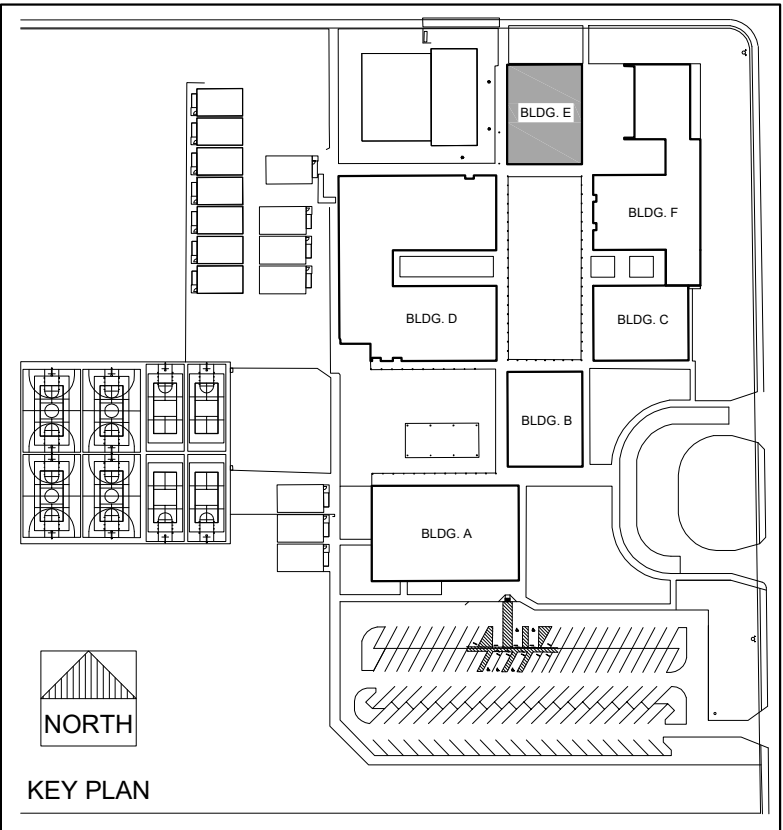
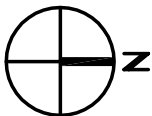
M2.2.D

QC
INI %



MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING E
SCALE : 1/8" = 1'-0"

1
M1.1.E



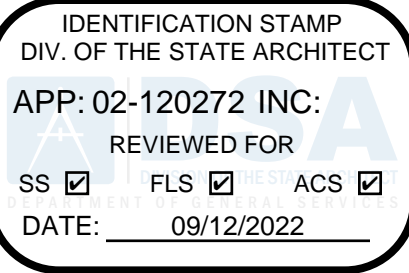
capital
engineering
RANCHO CORDOVA, CALIFORNIA
MCM - BV 220208.00
PM - DESIGN TEAM PROJECT NO.

GENERAL NOTES:

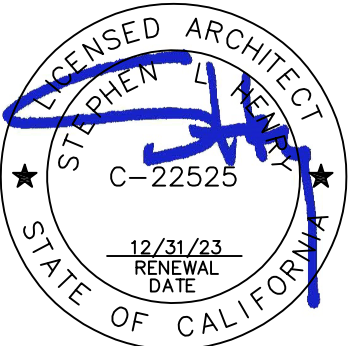
1. EXISTING HVAC SYSTEMS & HYDRONIC SUPPLY AND RETURN PIPING SHOWN ON THE PLANS ARE DIAGRAMATIC IN NATURE AND BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES.

DEMOLITION KEY NOTES:

- ① ALL VERTICAL AND HORIZONTAL DUCT, GRILLES, & SUPPORT FOR (E) AHU ON ROOF TO BE REMOVED.
- ② DUCT, GRILLE & SUPPORTS FOR (E) EXHAUST FAN ON ROOF TO BE REMOVED. PATCH OPENING TO MATCH SURROUNDING SURFACES.
- ③ REMOVE (E) THERMOSTAT & WIRING. (TYP.)



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**MODERNIZATION
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(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION FLOOR PLAN
BUILDING E**

CONSULTANT

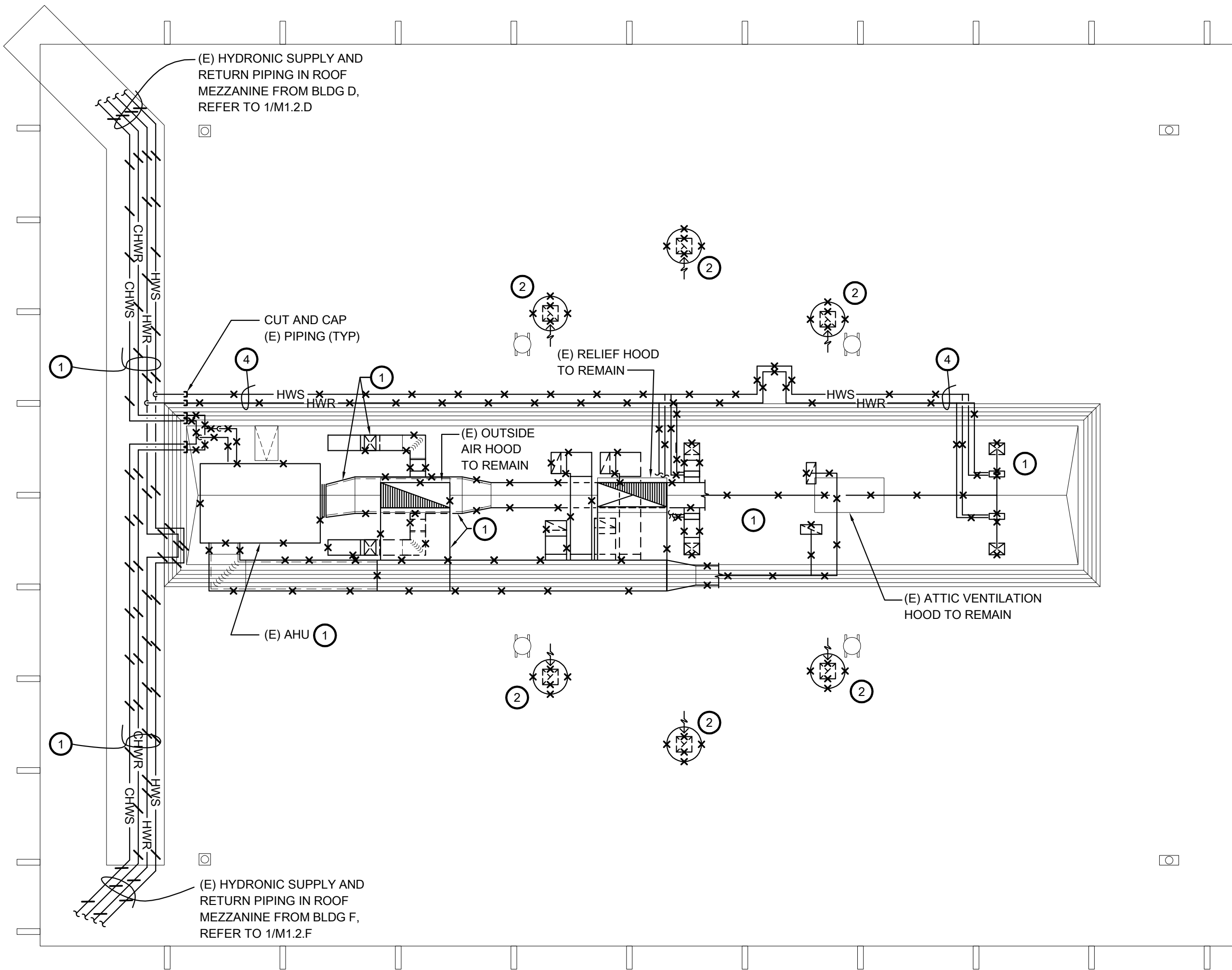


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51-M1.1.E.DWG		
UPDATED		
8/26/2022		
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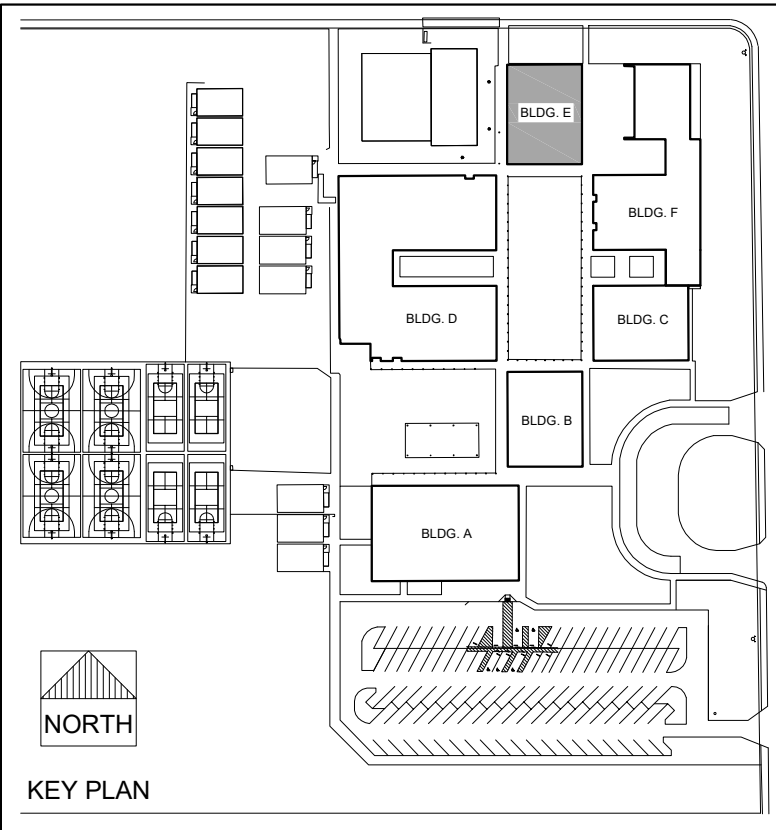
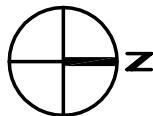
M1.1.E

QC
INI %



MECHANICAL - DEMOLITION ROOF PLAN - BUILDING E
SCALE : 1/8" = 1'-0"

1
M1.2.E

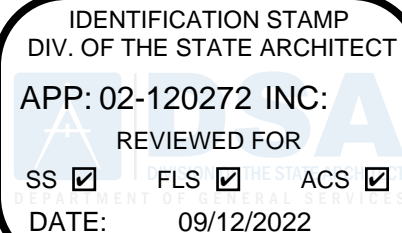


GENERAL NOTES:

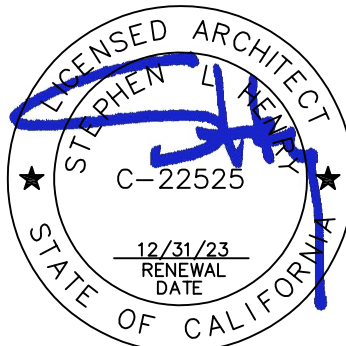
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- ② EXHAUST FAN TO BE REMOVED. PATCH OPENING TO MATCH SURROUNDING SURFACES.
- ③ (E) HYDRONIC SUPPLY AND RETURN PIPING IN ROOF MEZZANINE TO BE ABANDONED IN PLACE (TYP.)
- ④ (E) HYDRONIC SUPPLY AND RETURN PIPING & SUPPORTS TO BE REMOVED.

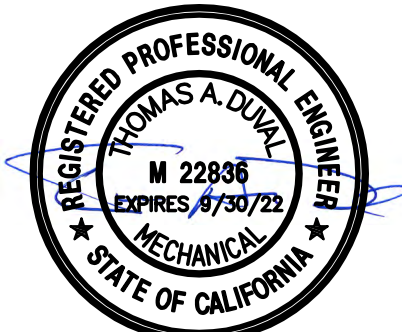


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MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION ROOF PLAN
BUILDING E

CONSULTANT



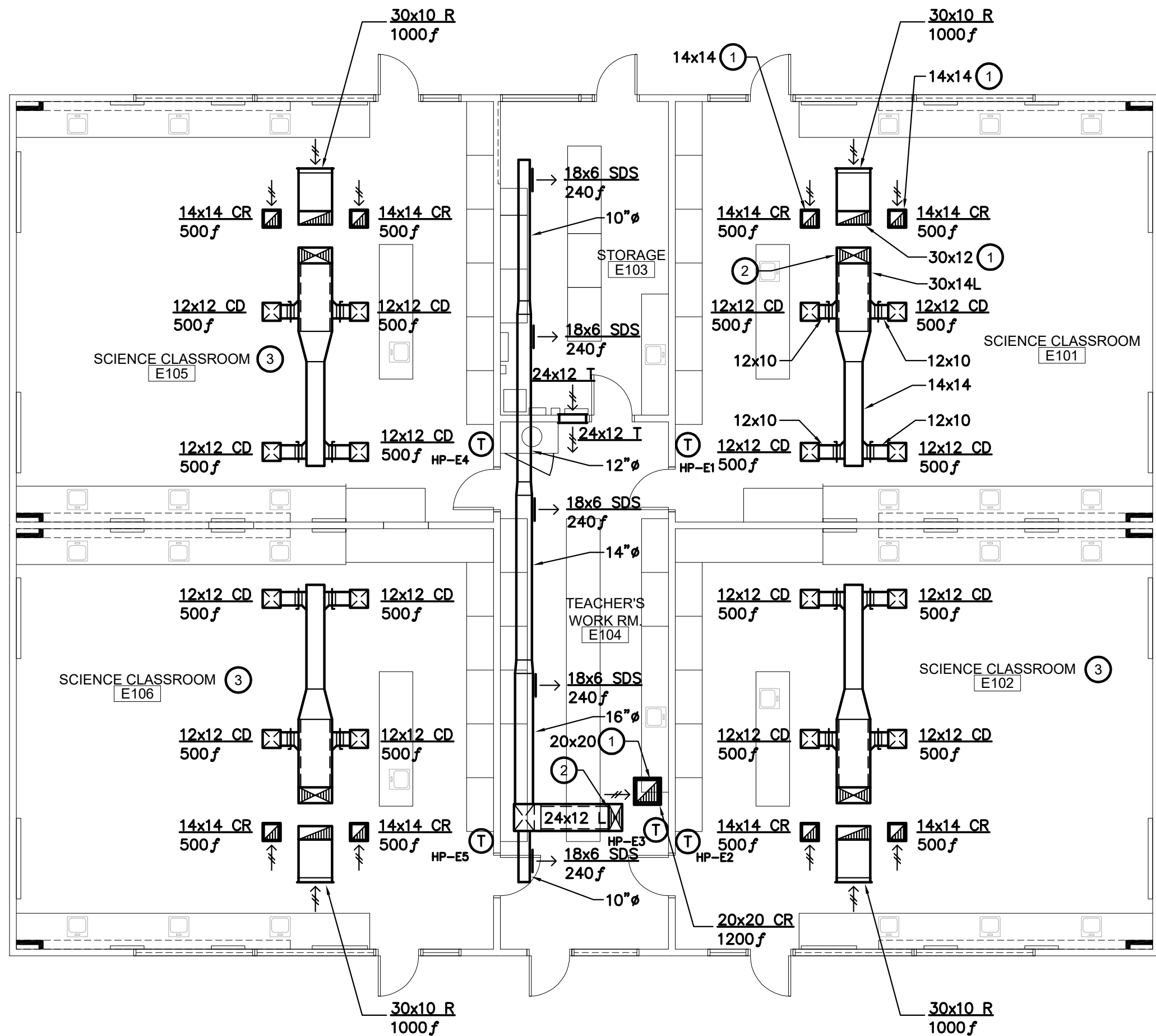
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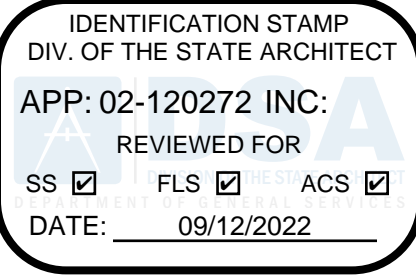
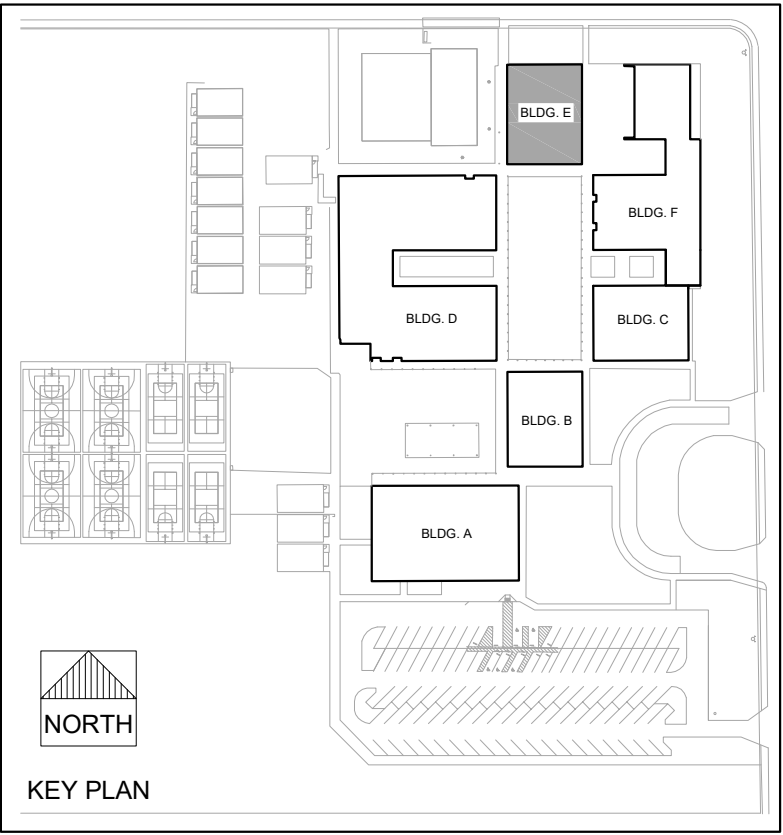
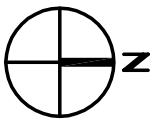
- KEY NOTES:
- 1 RETURN DUCT THROUGH ROOF. TERMINATE INSIDE UNIT PLATFORM JUST ABOVE ROOF.
 - 2 SUPPLY DUCT THROUGH ROOF.
 - 3 SEE SCIENCE CLASSROOM E101 FOR DUCT SIZES AND ADDITIONAL NOTES.



MECHANICAL - FLOOR PLAN - BUILDING E

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

1
M2.1E



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MECHANICAL - BUILDING E
FLOOR PLAN - BUILDING E

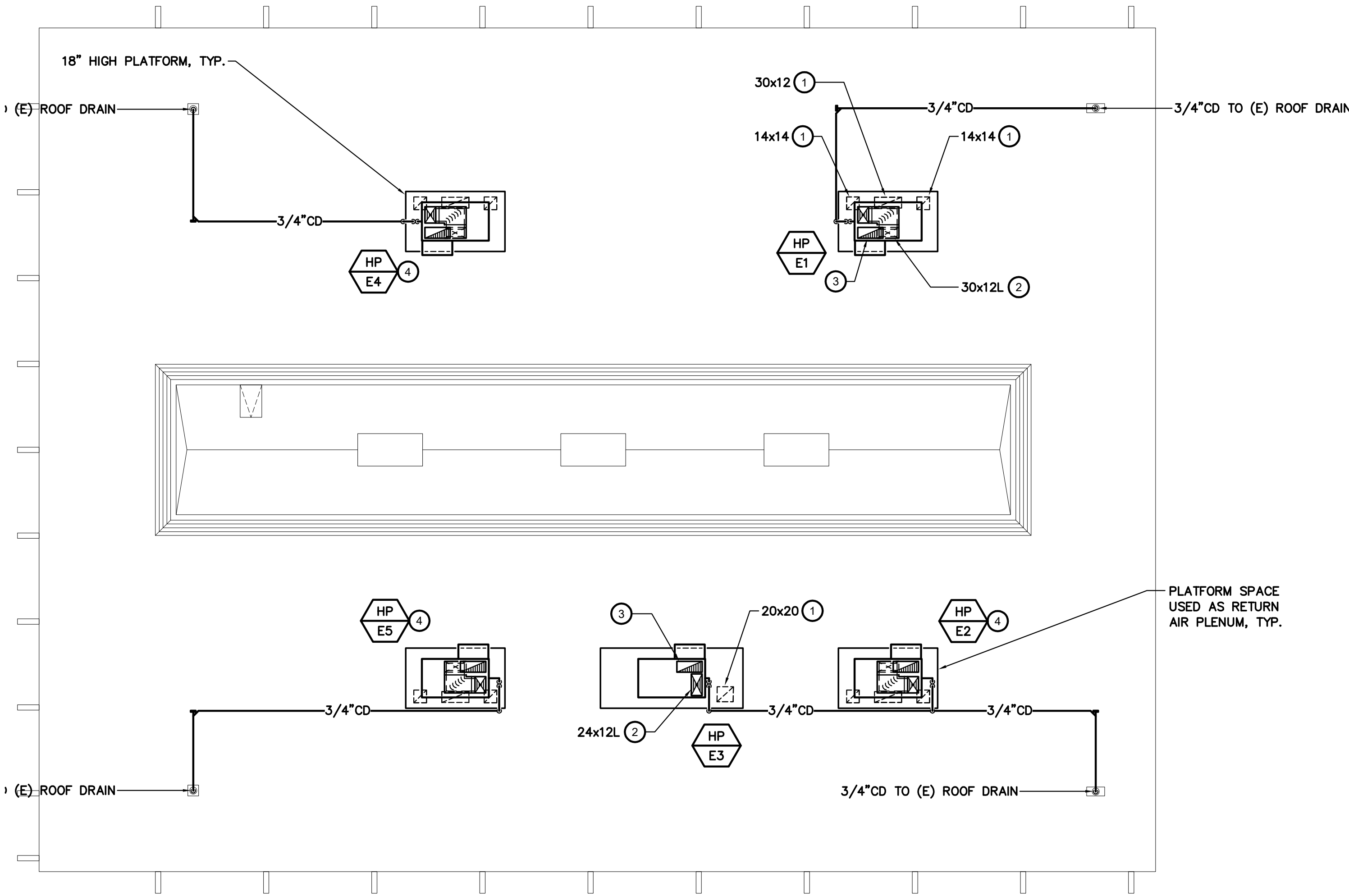


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CADFILE		
53-M2.1.E.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

M2.1.E

QC	
INI	%



KEY NOTES:

- 1 RETURN DUCT THROUGH ROOF FROM BELOW. TERMINATE INSIDE UNIT PLATFORM.
- 2 SUPPLY DUCT INSIDE ROOF CURB AND UNIT PLATFORM. DROP THROUGH ROOF AS INDICATED.
- 3 TERMINATE UNIT RA DUCT DROP AT CONNECTION BETWEEN UNIT AND ROOF CURB.
- 4 FOR DUCT SIZES AND ADDITION INFORMATION SEE HP-E1.

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MODERNIZATION
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MECHANICAL -
ROOF PLAN - BUILDING E

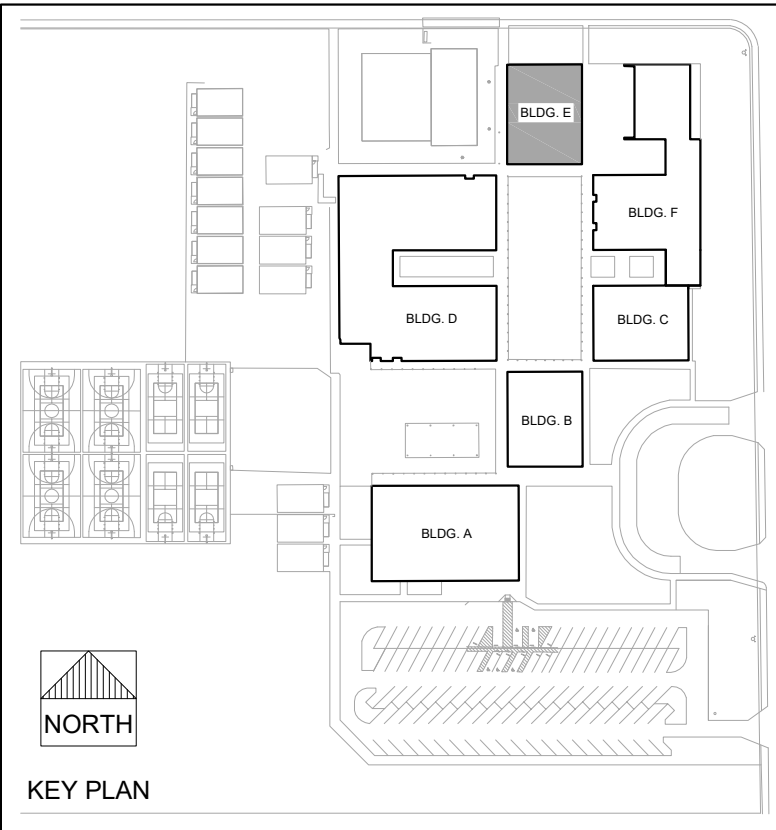
CONSULTANT



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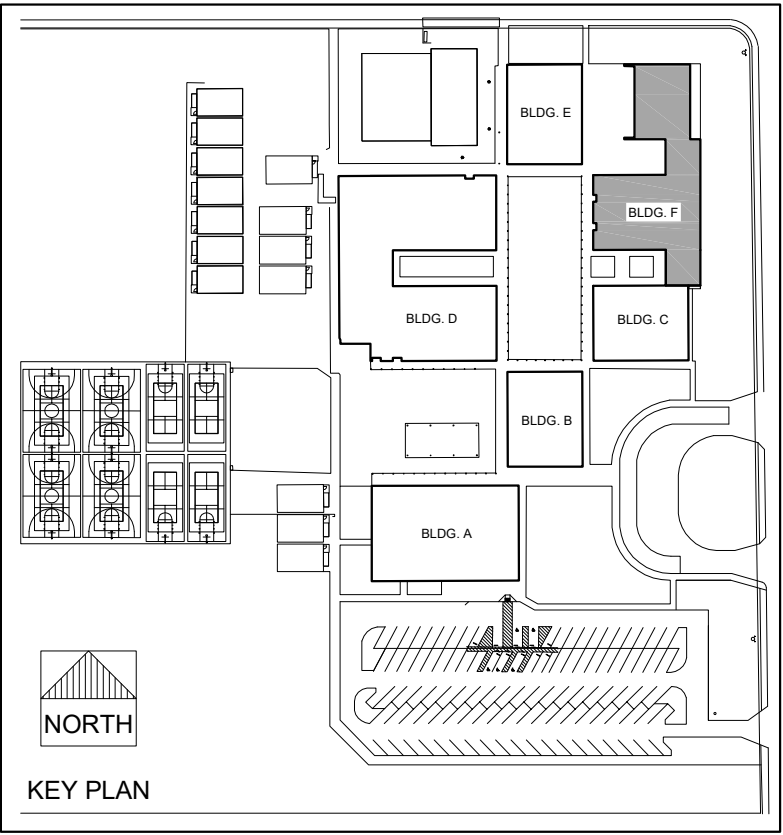
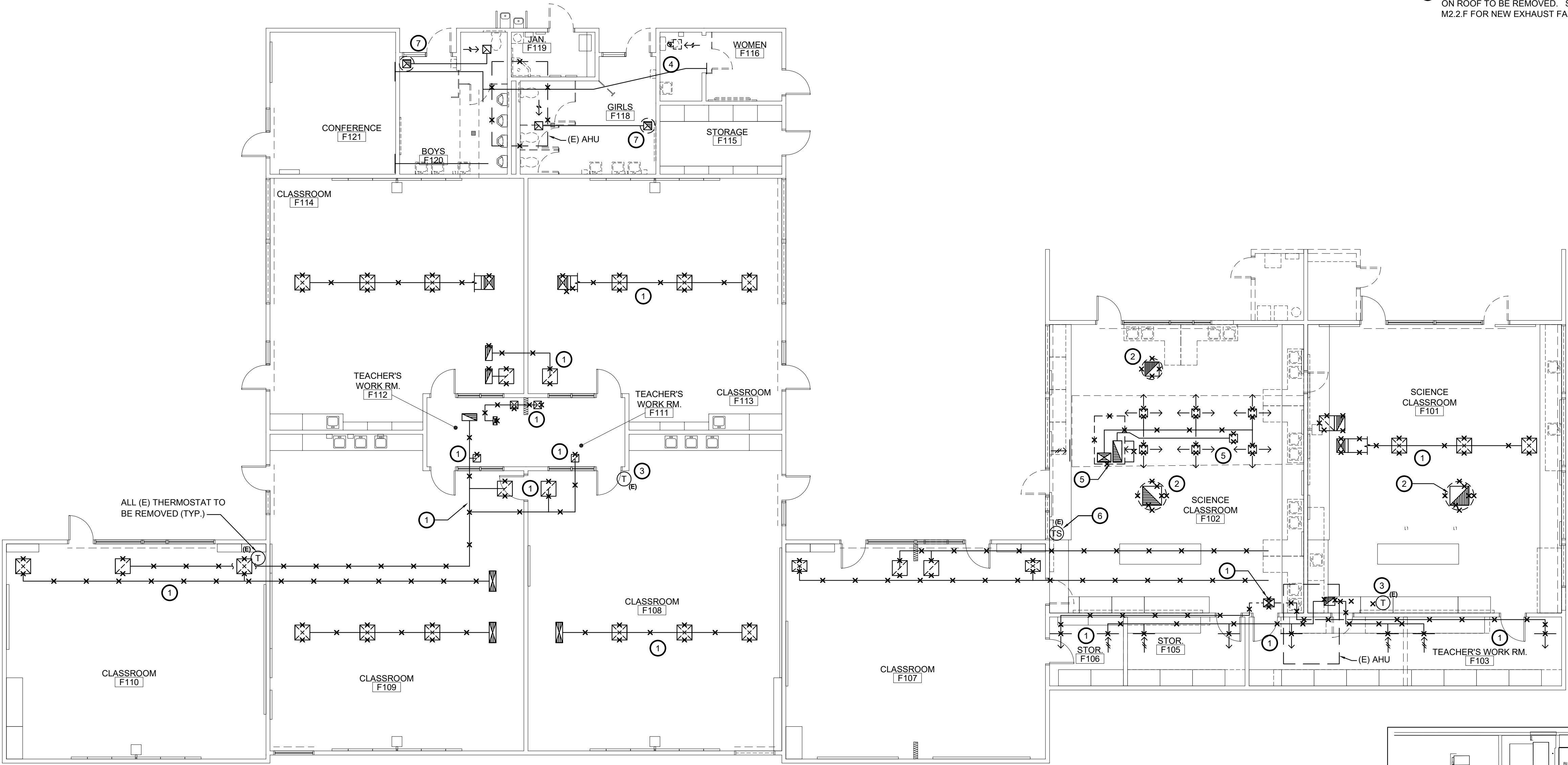
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54-M2.2.E.DWG		
UPDATED		
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SHEET NO.		

M2.2.E

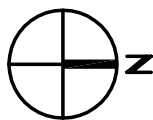


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MECHANICAL - DEMOLITION FLOOR PLAN - BUILDING F 1
SCALE : 1/8" = 1'-0" **M1.1F**



GENERAL NOTES:

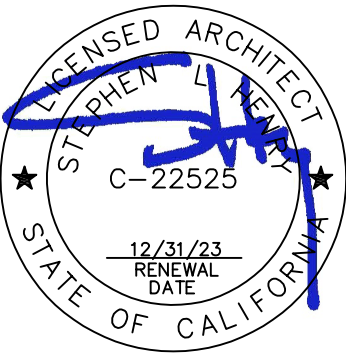
1. EXISTING HVAC SYSTEMS & HYDRONIC SUPPLY AND RETURN PIPING SHOWN ON THE PLANS ARE DIAGRAMATIC IN NATURE AND BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES.

DEMOLITION KEY NOTES:

- 1 ALL VERTICAL AND HORIZONTAL DUCT, GRILLES, & SUPPORT FOR (E) AHU ON ROOF TO BE REMOVED.
- 2 DUCT, GRILLE & SUPPORTS FOR (E) EXHAUST FAN ON ROOF TO BE REMOVED. PATCH OPENING TO MATCH SURROUNDING SURFACES.
- 3 REMOVE (E) THERMOSTAT & WIRING. (TYP.)
- 4 CEILING EXHAUST FAN DUCT, GRILLE & SUPPORTS TO BE REMOVED. PATCH OPENING TO MATCH SURROUNDING SURFACES.
- 5 ALL HORIZONTAL DUCT, GRILLES, CONTROLS, & SUPPORTS FOR (E) HP UNIT ON ROOF TO BE REMOVED.
- 6 (E) TS & WIRING TO BE REMOVED PATCH SURFACE TO MATCH SURROUNDING AREA .
- 7 DUCT, GRILLE & SUPPORTS FOR (E) EXHAUST FAN ON ROOF TO BE REMOVED. SEE M2.1.F AND M2.2.F FOR NEW EXHAUST FAN AND DUCTWORK.

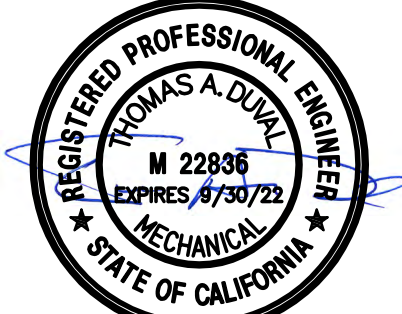
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APP: 02-120272 INC:
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DATE: 09/12/2022

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Fax: 916.921.2212



**MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
DEMOLITION FLOOR PLAN
BUILDING F**

CONSULTANT

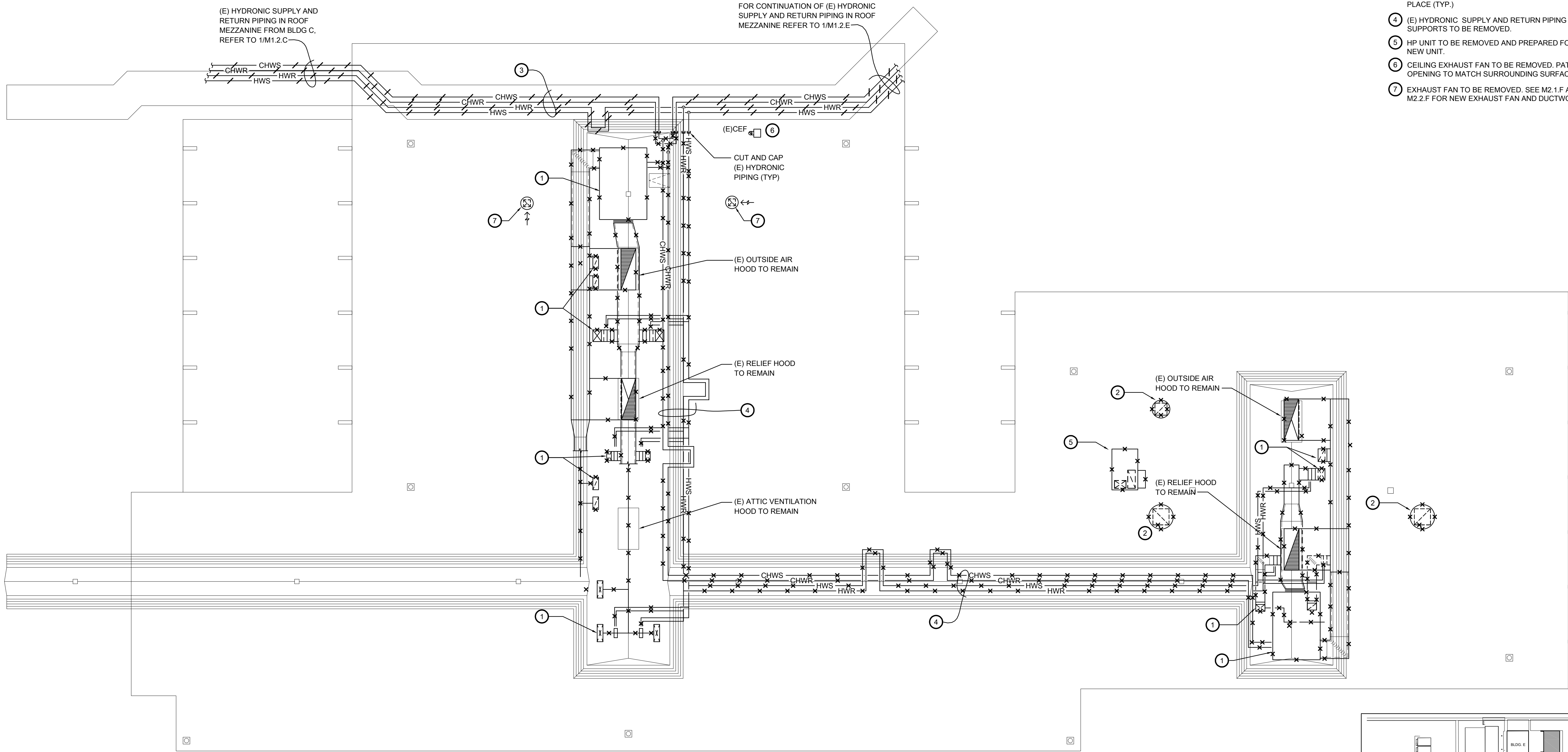


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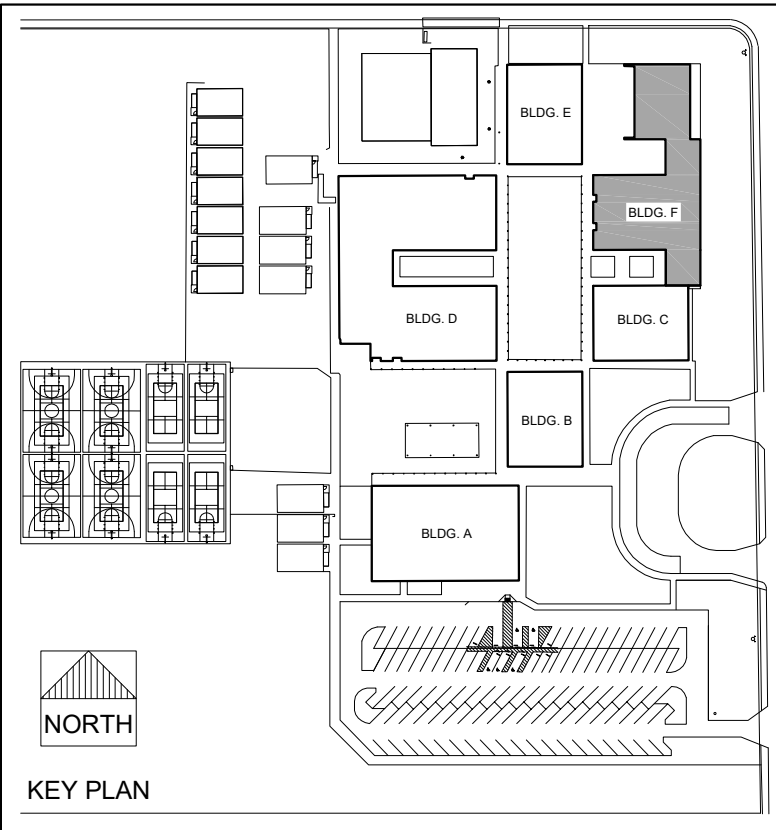
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61-M1.1.F.DWG		
UPDATED		
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M1.1F

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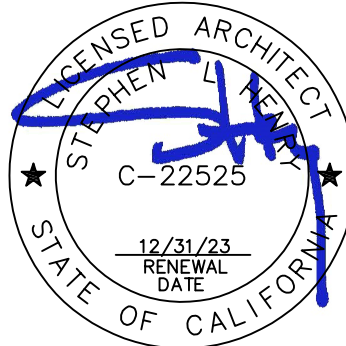
MECHANICAL - DEMOLITION ROOF PLAN - BUILDING F **1**
SCALE : 1/8" = 1'-0" **M1.2F**



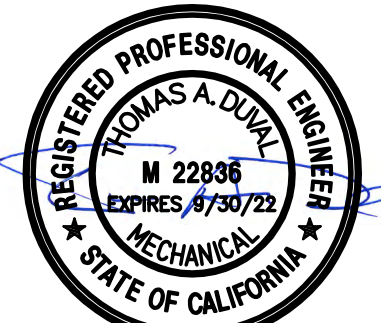
- GENERAL NOTES:
- EXISTING HVAC SYSTEMS & HYDRONIC SUPPLY AND RETURN PIPING SHOWN ON THE PLANS ARE DIAGRAMATIC IN NATURE AND BASED ON RECORD DRAWINGS AND SITE OBSERVATIONS OF EXPOSED FEATURES.
- DEMOLITION KEY NOTES:
- AHU, REHEAT COILS, ALL VERTICAL & HORIZONTAL DUCT, HYDRONIC SUPPLY & RETURN PIPING, AND SUPPORTS TO BE REMOVED.
 - EXHAUST FAN TO BE REMOVED. PATCH OPENING TO MATCH SURROUNDING SURFACES.
 - (E) HYDRONIC SUPPLY AND RETURN PIPING IN ROOF MEZZANINE TO BE ABANDONED IN PLACE (TYP.)
 - (E) HYDRONIC SUPPLY AND RETURN PIPING & SUPPORTS TO BE REMOVED.
 - HP UNIT TO BE REMOVED AND PREPARED FOR NEW UNIT.
 - CEILING EXHAUST FAN TO BE REMOVED. PATCH OPENING TO MATCH SURROUNDING SURFACES.
 - EXHAUST FAN TO BE REMOVED. SEE M2.1.F AND M2.2.F FOR NEW EXHAUST FAN AND DUCTWORK.

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**MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)**
CONSTRUCTION DOCUMENTS PHASE
**MECHANICAL -
DEMOLITION ROOF PLAN
BUILDING F**



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62-M1.2.F.DWG		
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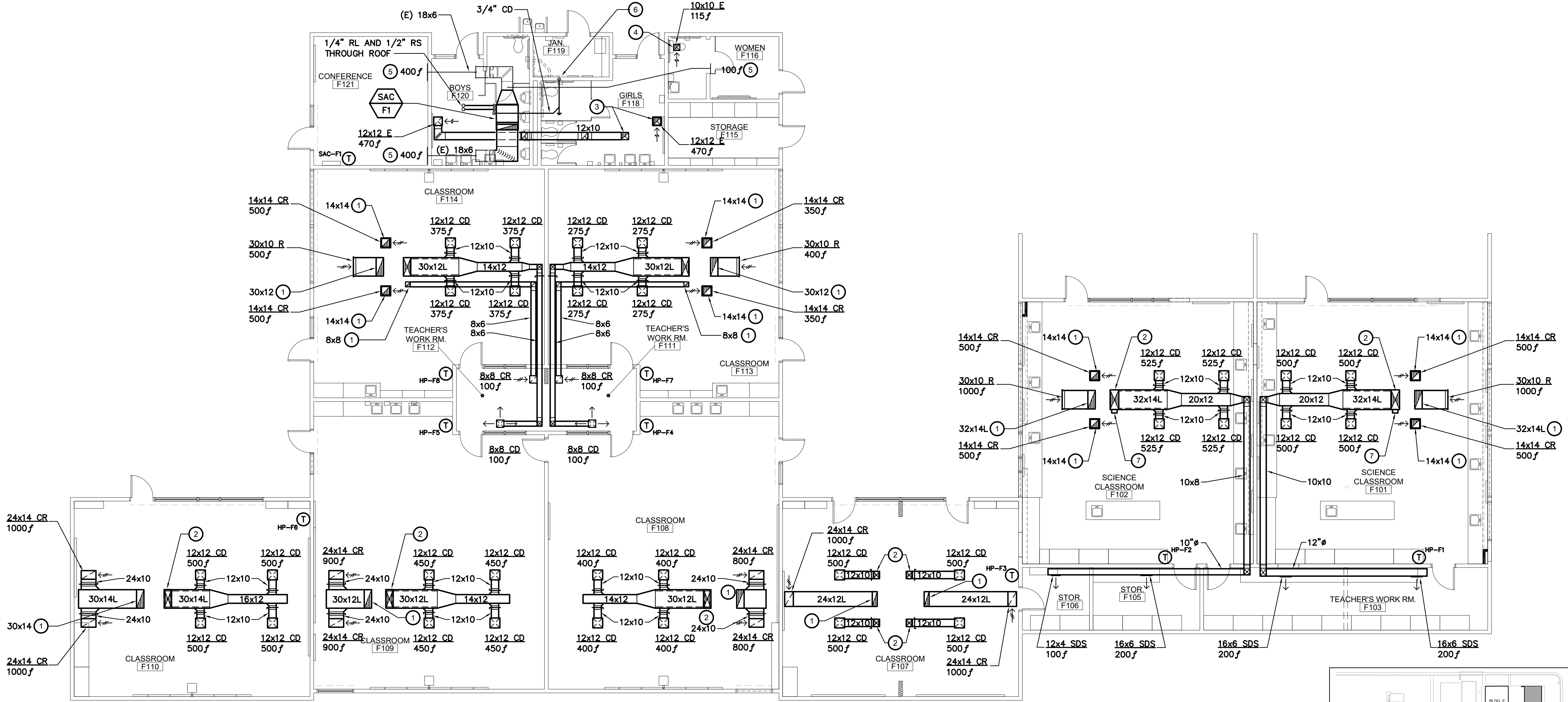
M1.2F



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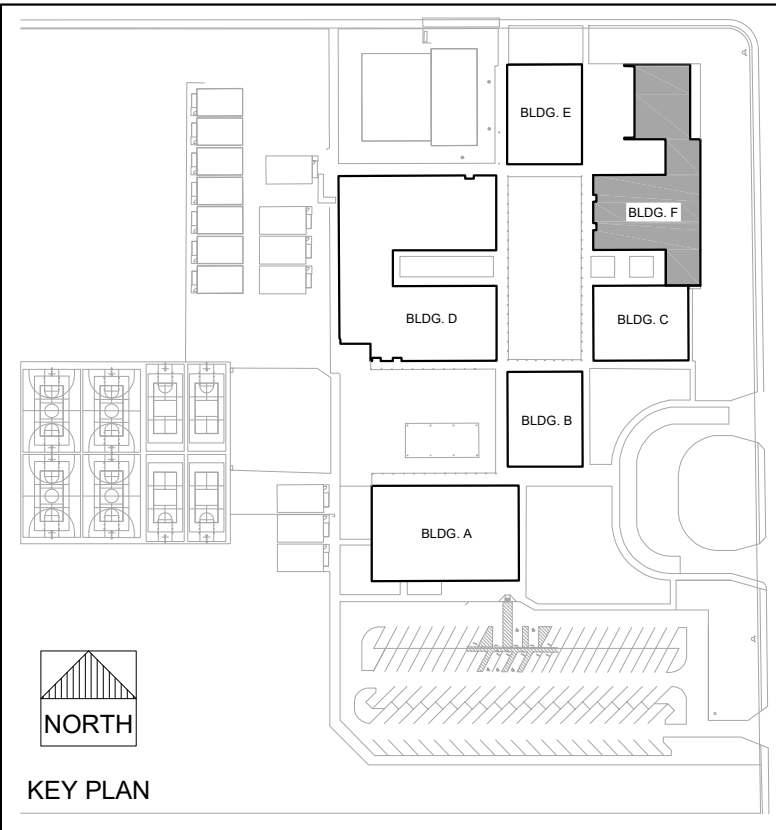
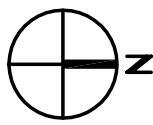
- KEY NOTES:
- 1 RETURN DUCT THROUGH ROOF. TERMINATE INSIDE UNIT PLATFORM JUST ABOVE ROOF.
 - 2 SUPPLY DUCT THROUGH ROOF.
 - 3 12x12 EXHAUST DUCT THROUGH ROOF.
 - 4 10x10 EXHAUST DUCT THROUGH ROOF.
 - 5 SET (E) GRILLE OR REGISTER TO AIRFLOW NOTED.
 - 6 CONNECT 3/4" CD TO (E) 1-1/2" CD DROP IN WALL.
 - 7 DUCT MOUNTED SMOKE DETECTOR, REFER TO CONTROL DIAGRAM 1/M6.1.



MECHANICAL - FLOOR PLAN - BUILDING F

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

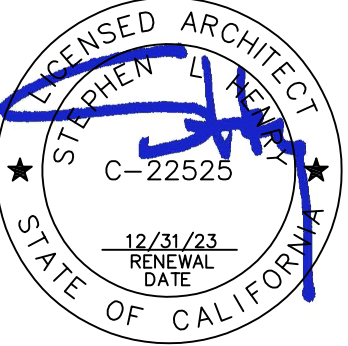
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M2.1.F



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MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL -
FLOOR PLAN - BUILDING F

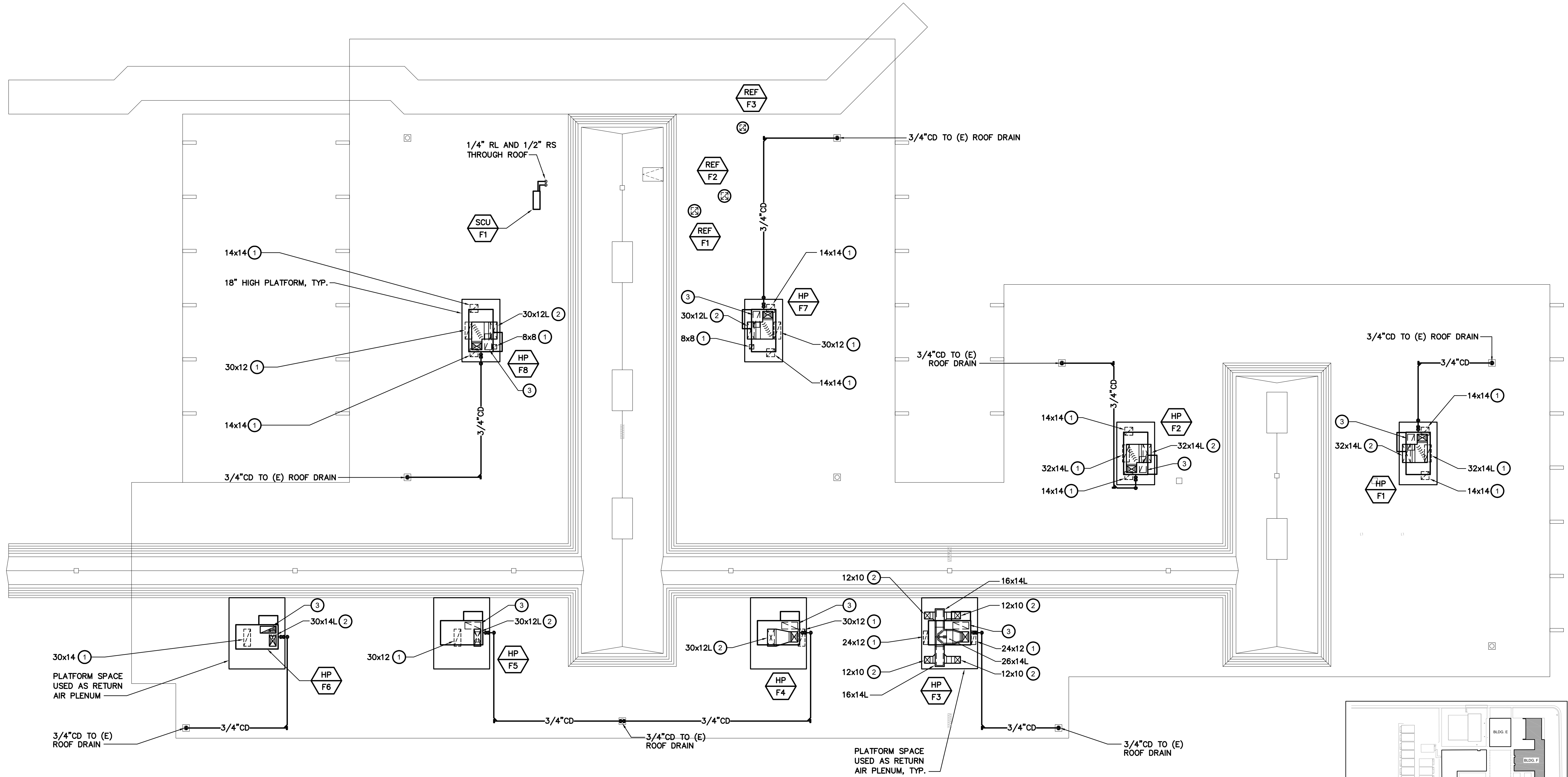


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UPDATED		
8/26/2022		
SHEET NO.		

M2.1.F

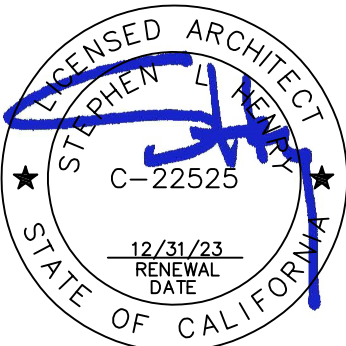
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- KEY NOTES:
- 1 RETURN DUCT THROUGH ROOF FROM BELOW. TERMINATE INSIDE UNIT PLATFORM.
 - 2 SUPPLY DUCT INSIDE ROOF CURB AND UNIT PLATFORM. DROP THROUGH ROOF AS INDICATED.
 - 3 TERMINATE UNIT RA DUCT DROP AT CONNECTION BETWEEN UNIT AND ROOF CURB.

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MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE

MECHANICAL -
ROOF PLAN - BUILDING F

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
THOMAS A. DWYER
M 22896
EXPIRES 8/30/22
MECHANICAL
STATE OF CALIFORNIA
DATE SIGNED: 07/05/22

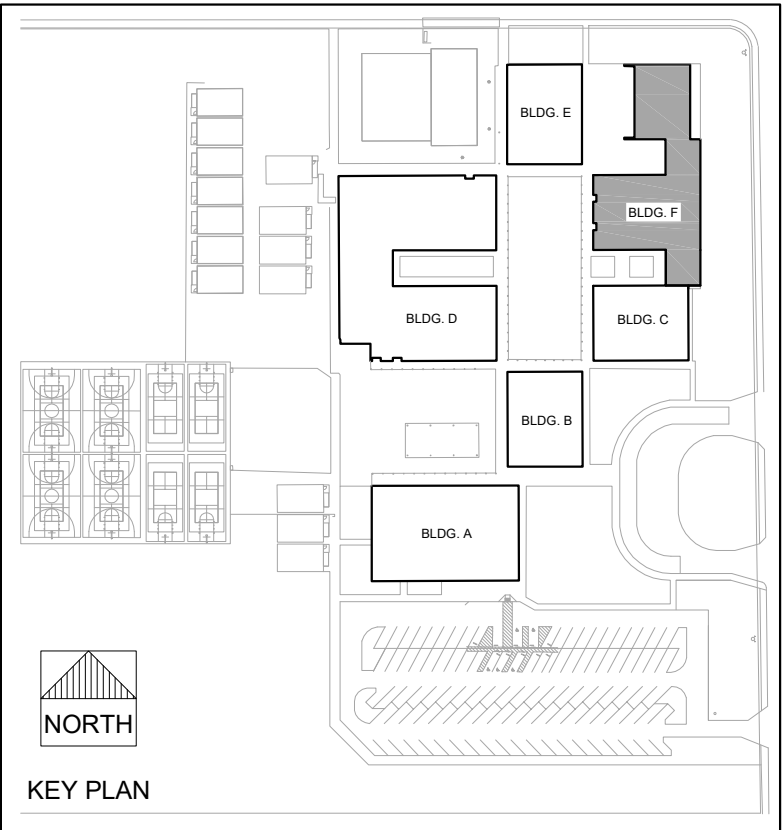
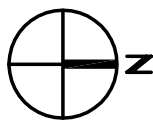
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CHECKED MCM		
SCALE AS SHOWN		
CADFILE 64-M2.2.F.DWG		
UPDATED 8/26/2022		
SHEET NO.		

M2.2.F

MECHANICAL - ROOF PLAN - BUILDING F

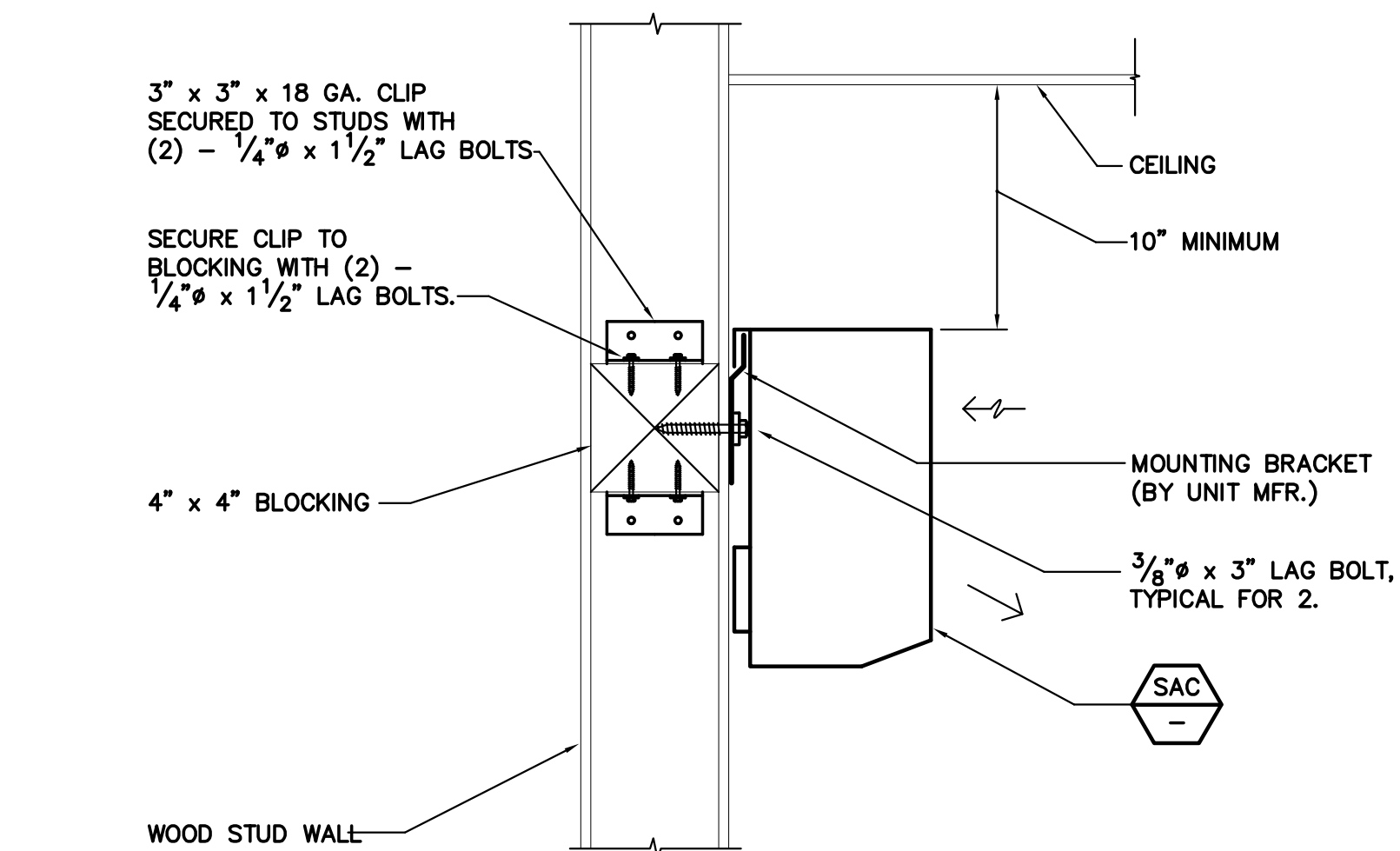
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M2.2.F

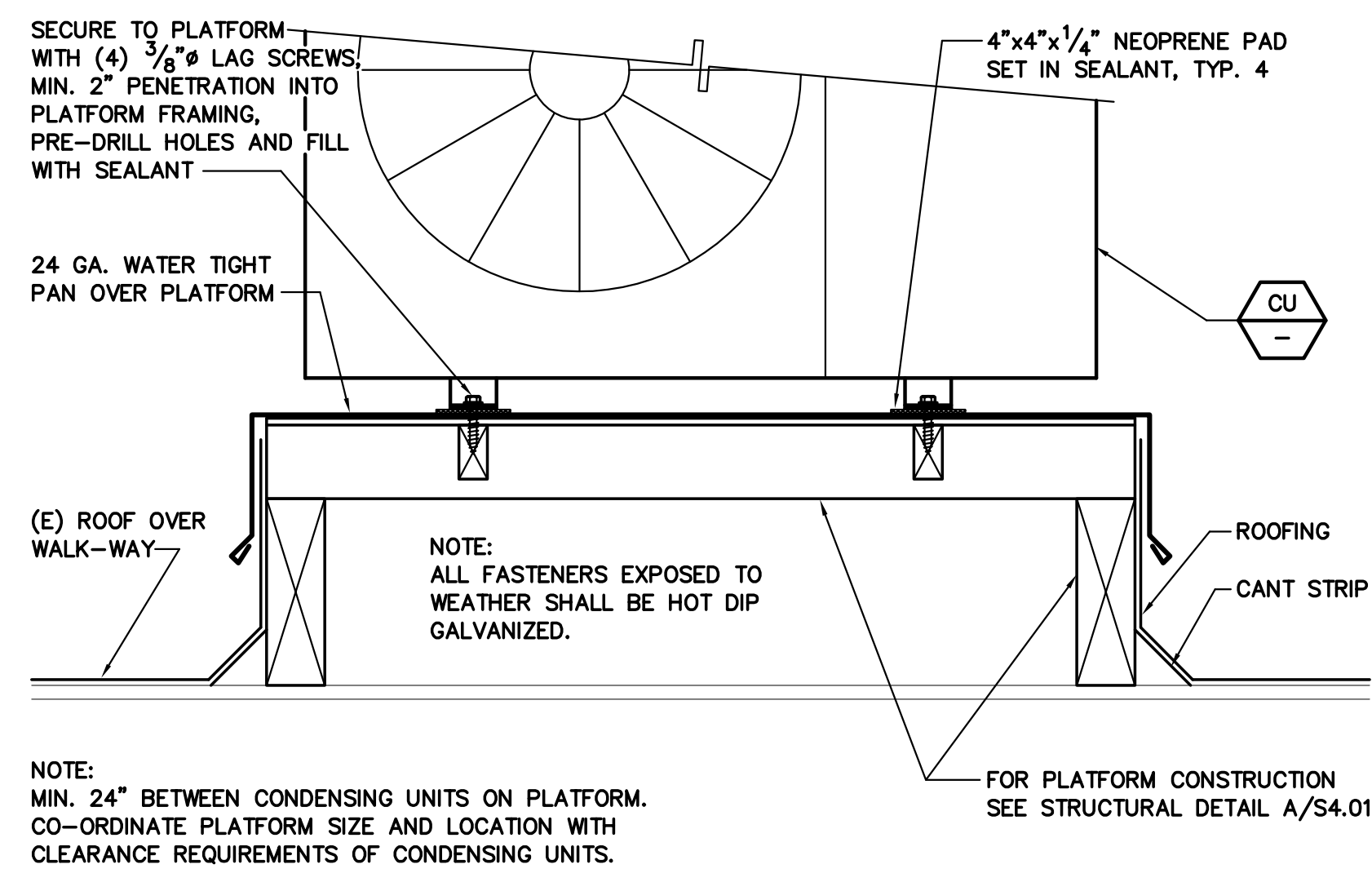


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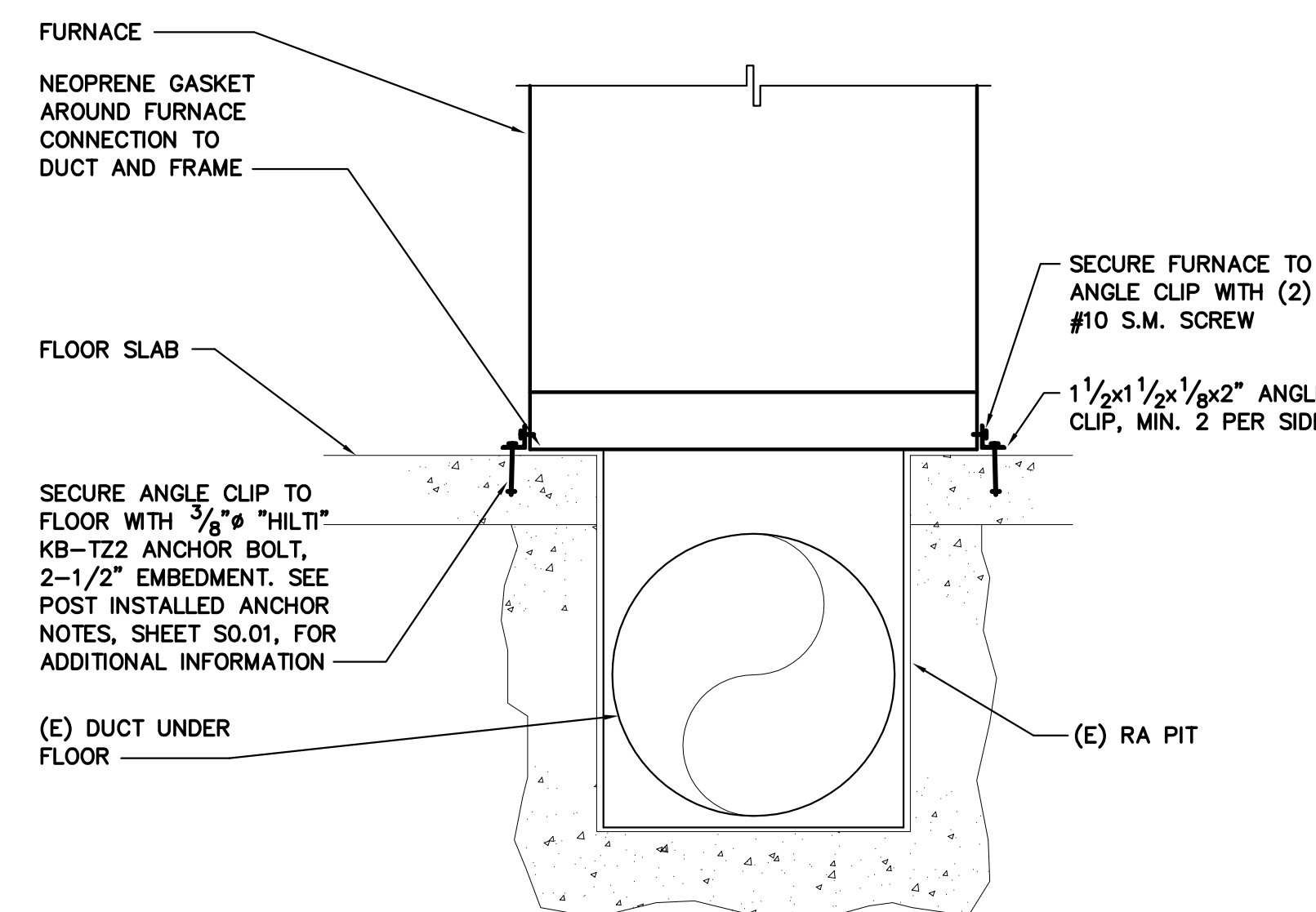
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SPLIT INDOOR UNIT MOUNTING

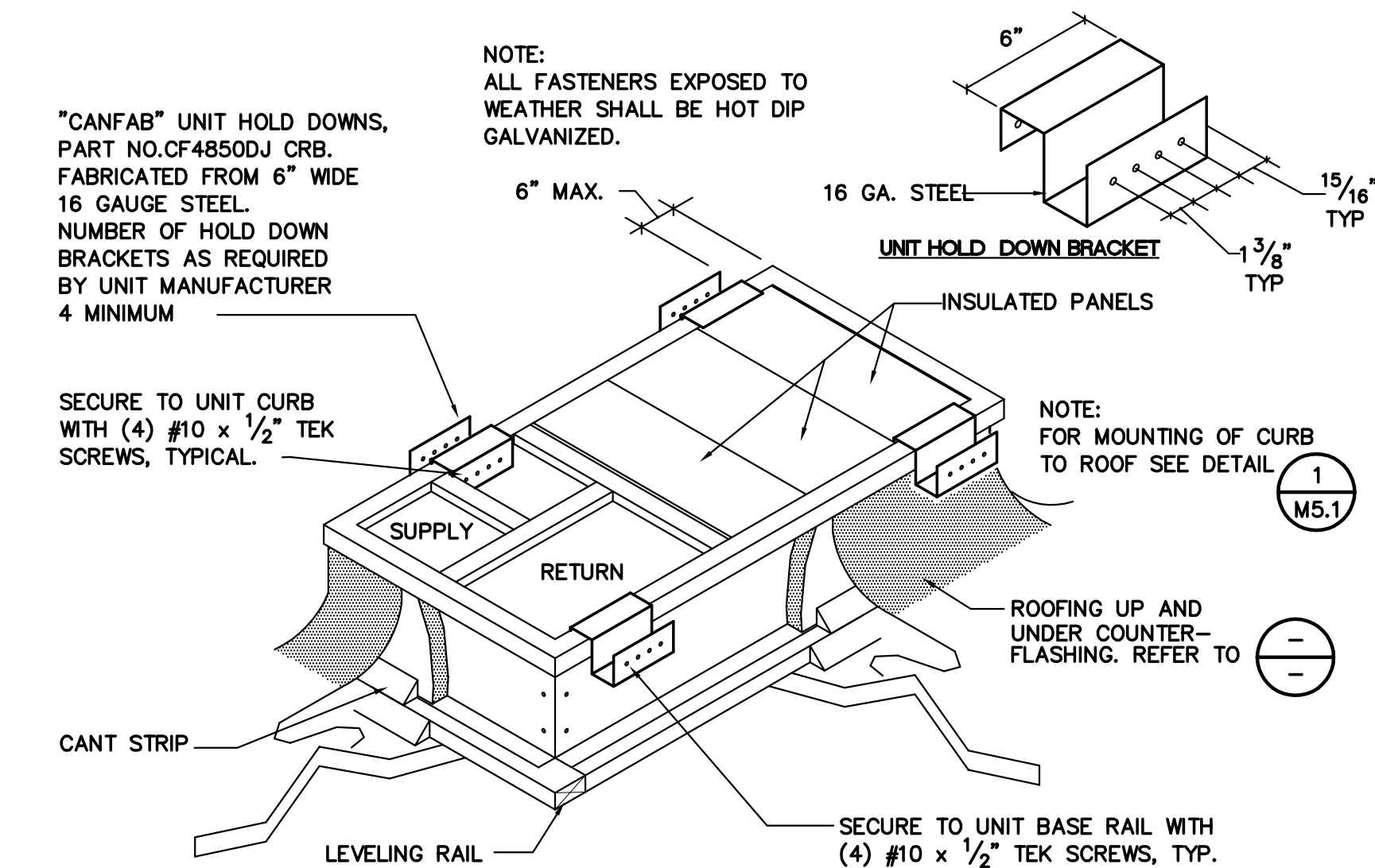


SPLIT SYSTEM OUTDOOR MOUNTING

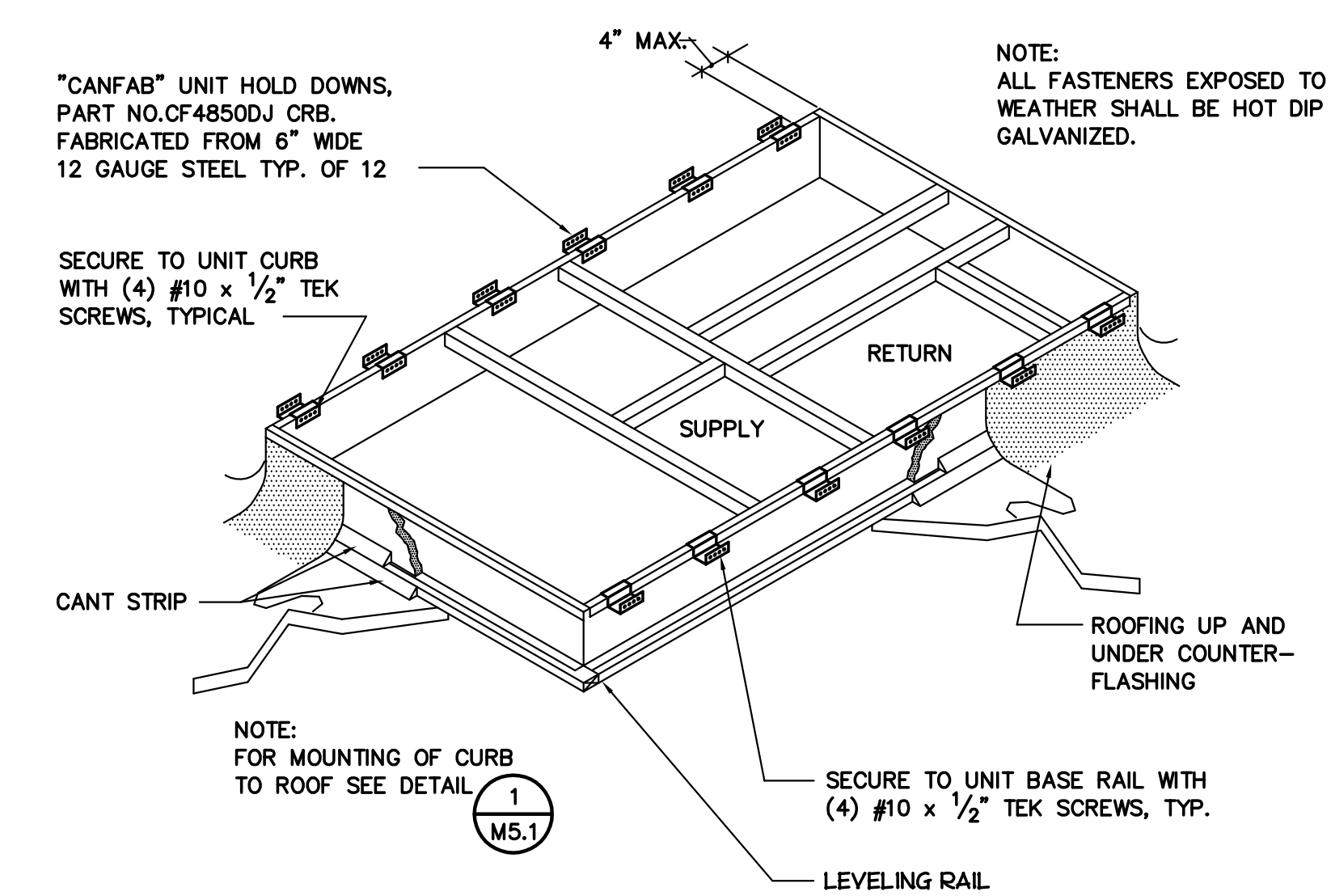


DOWNFLOW FURNACE MOUNTING

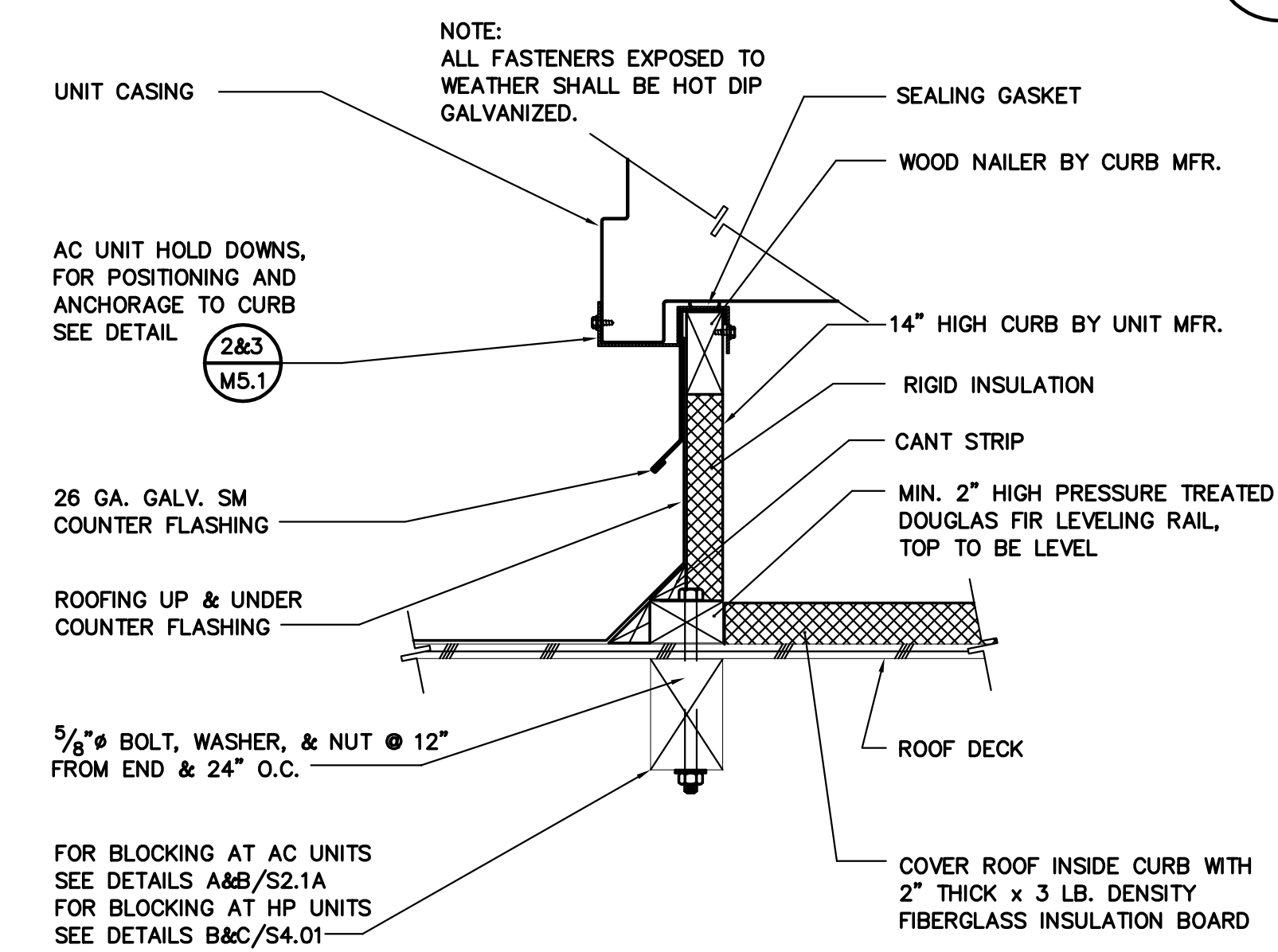
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HP UNIT "HOLD DOWN" PLACEMENT



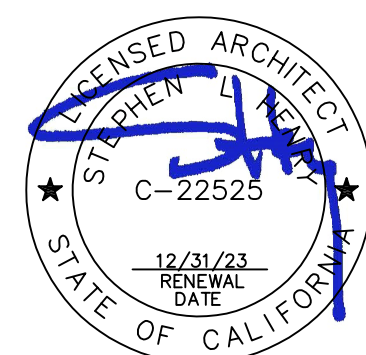
AC UNIT "HOLD DOWN" PLACEMENT



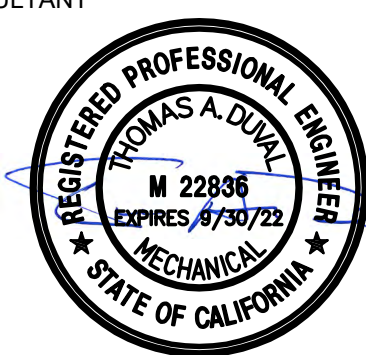
AC & HP UNIT MOUNTING

SCALE : NONE

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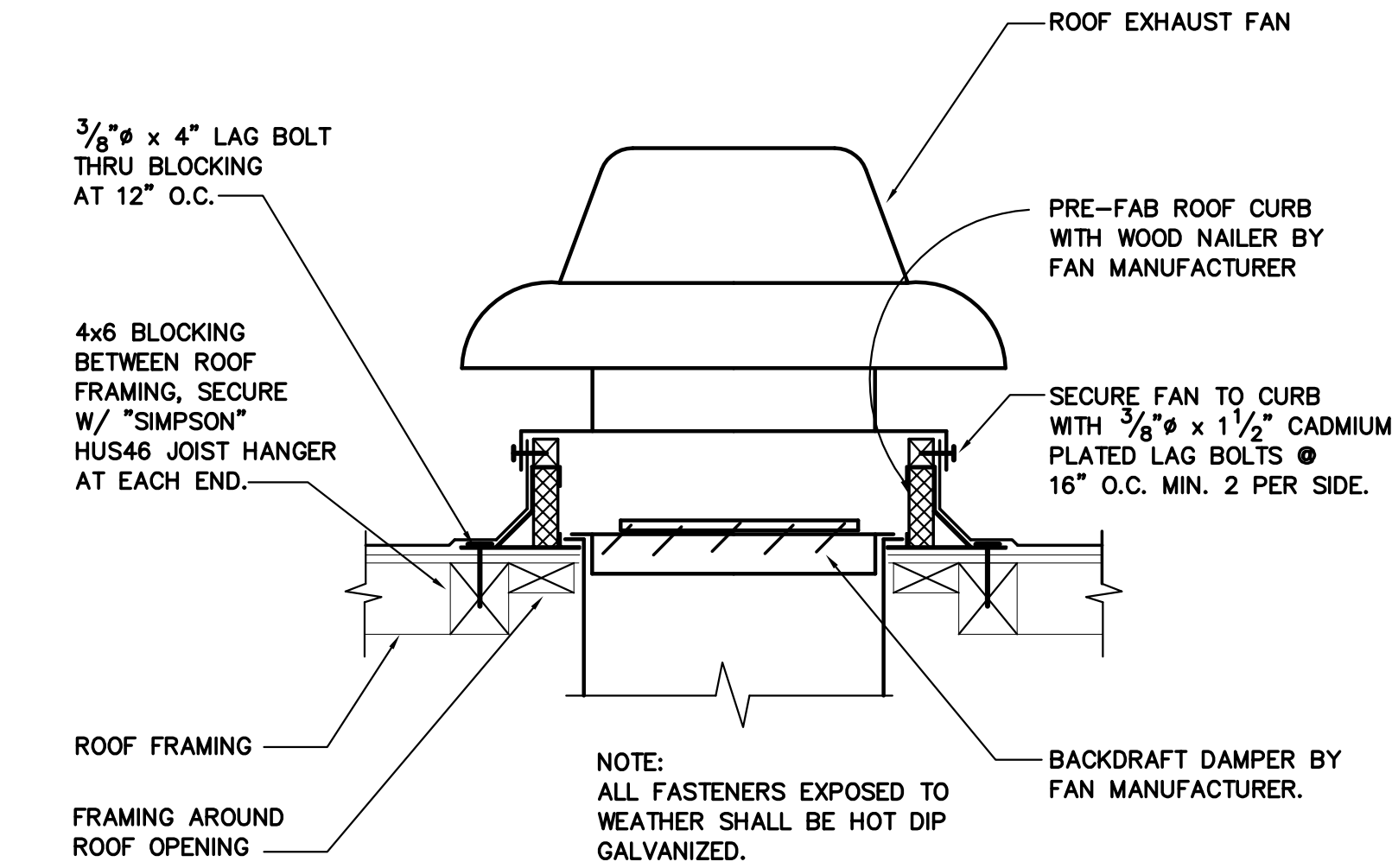
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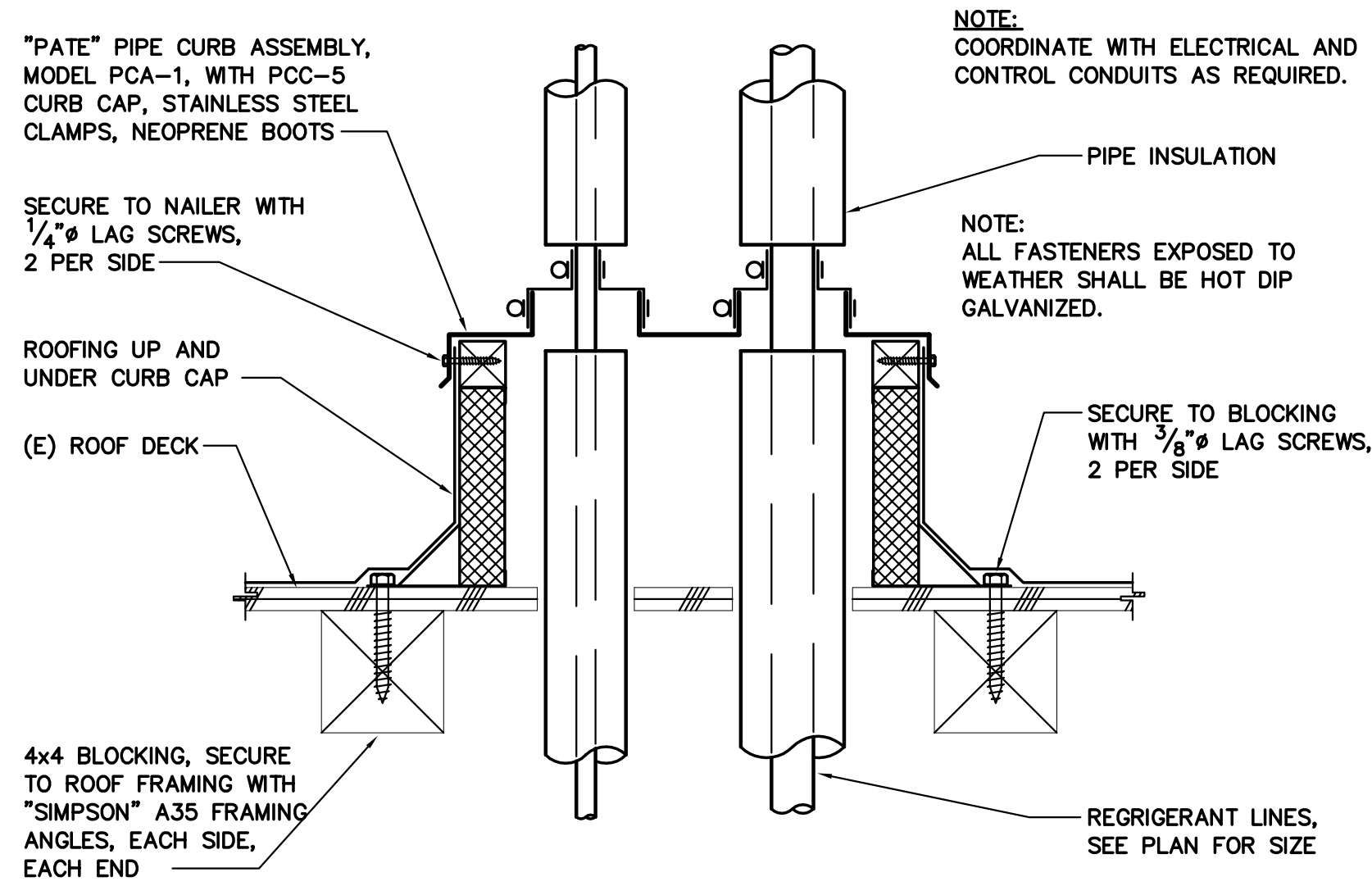


R.E.F. MOUNTING DETAIL

SCALE : NONE

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M5.2

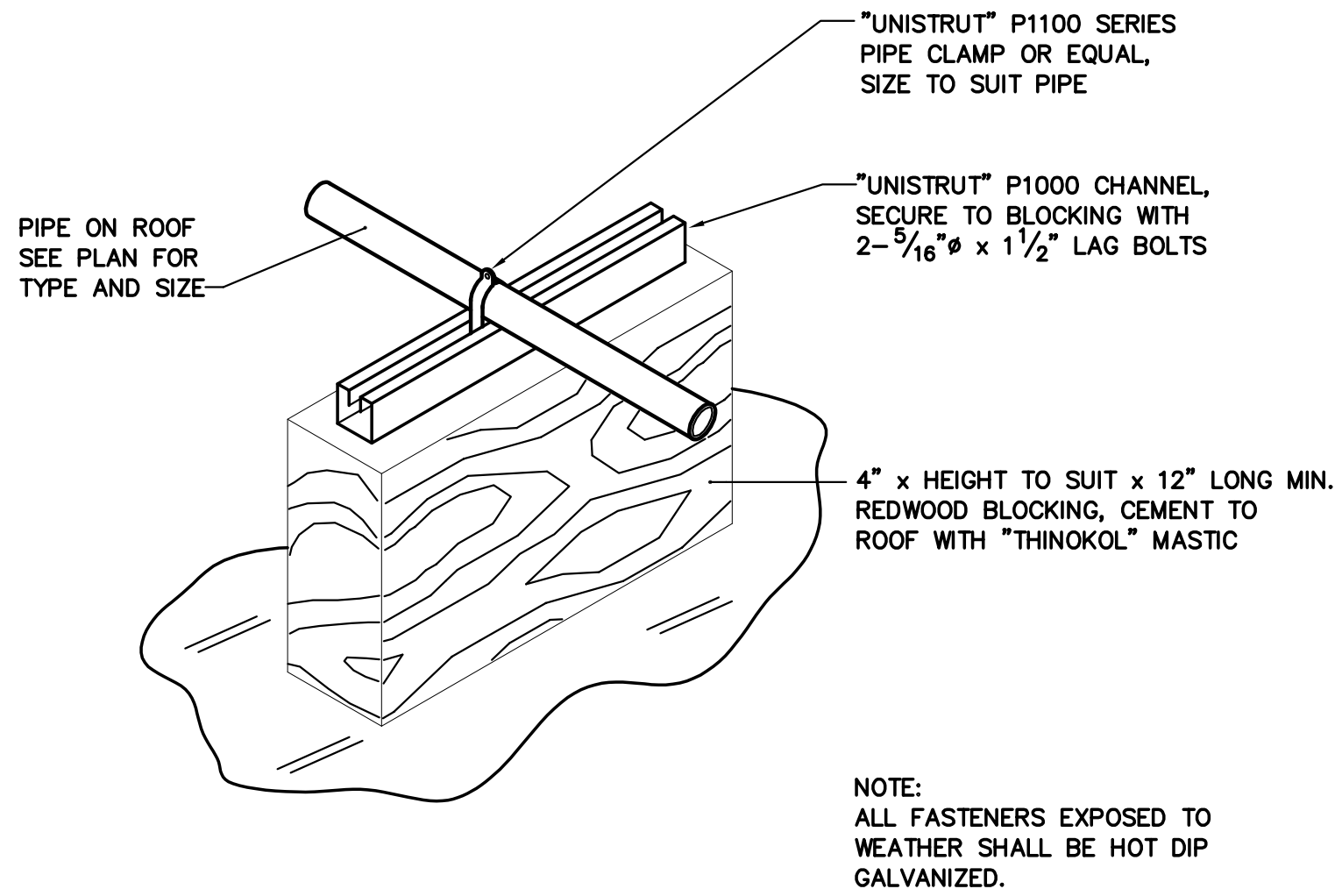


PIPE THROUGH ROOF DETAIL

SCALE : NONE

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M5.2

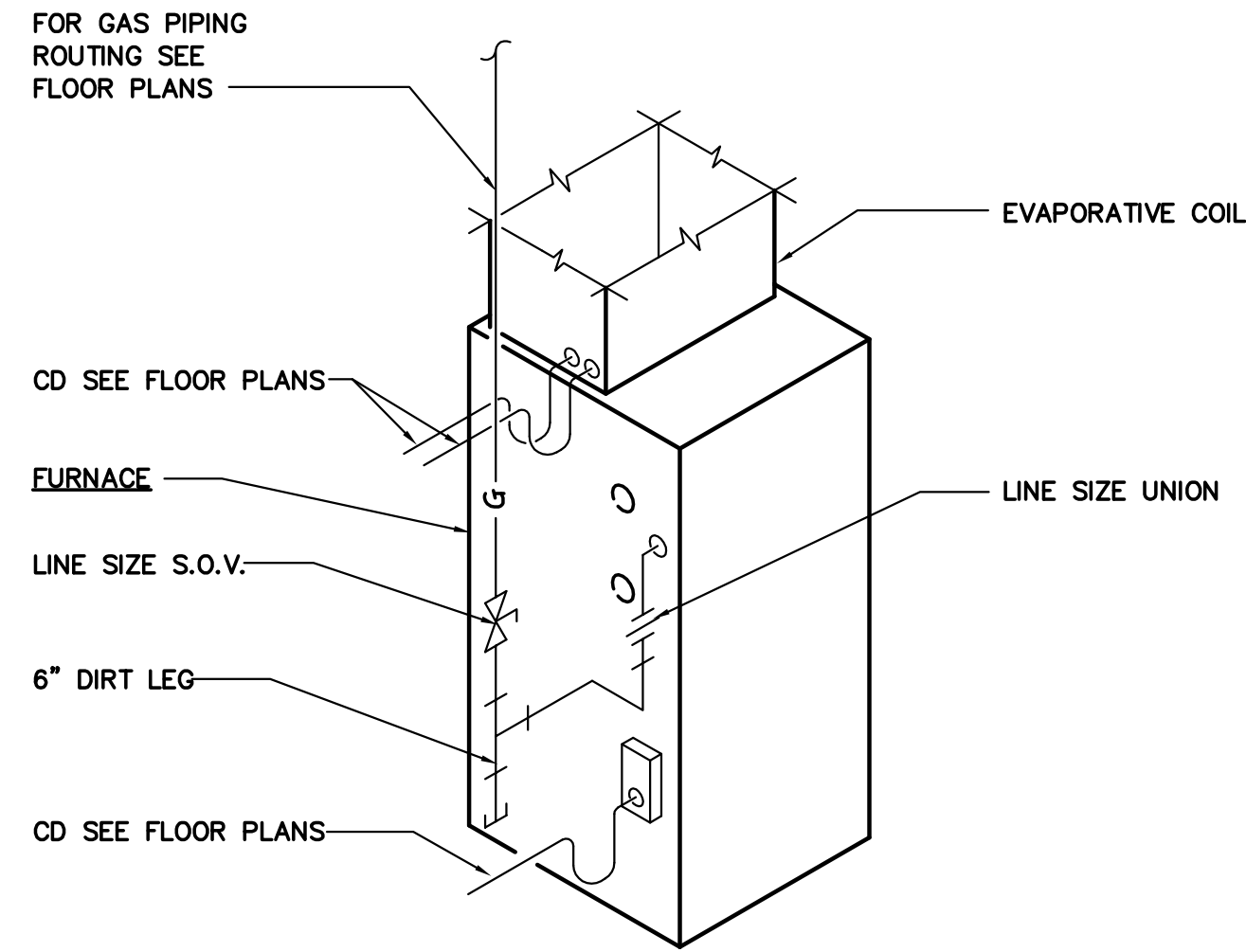


PIPE SUPPORT ON ROOF

SCALE : NONE

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M5.2

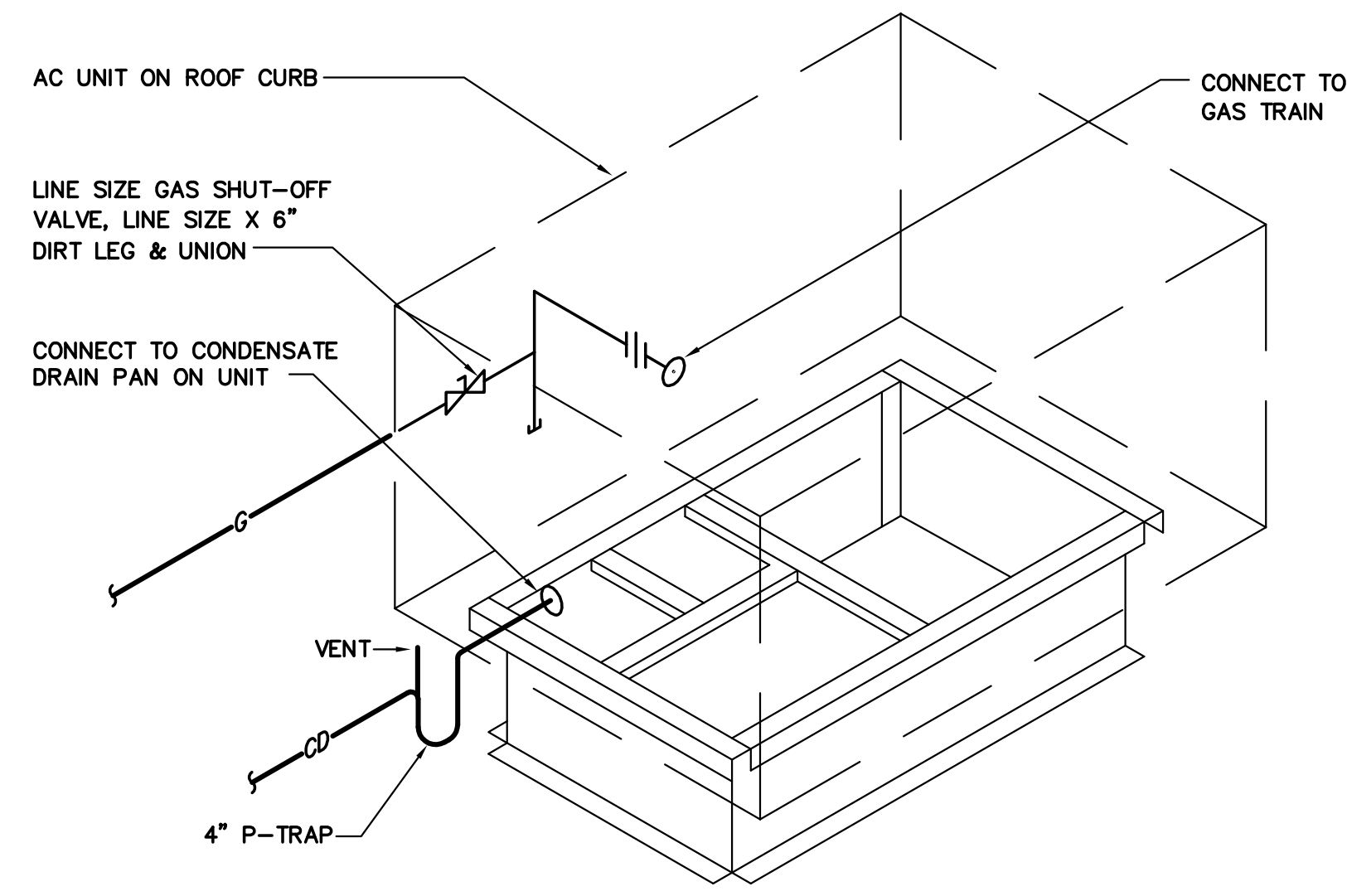


TYP. VERTICAL UNIT PIPING

SCALE : NONE

3

M5.2

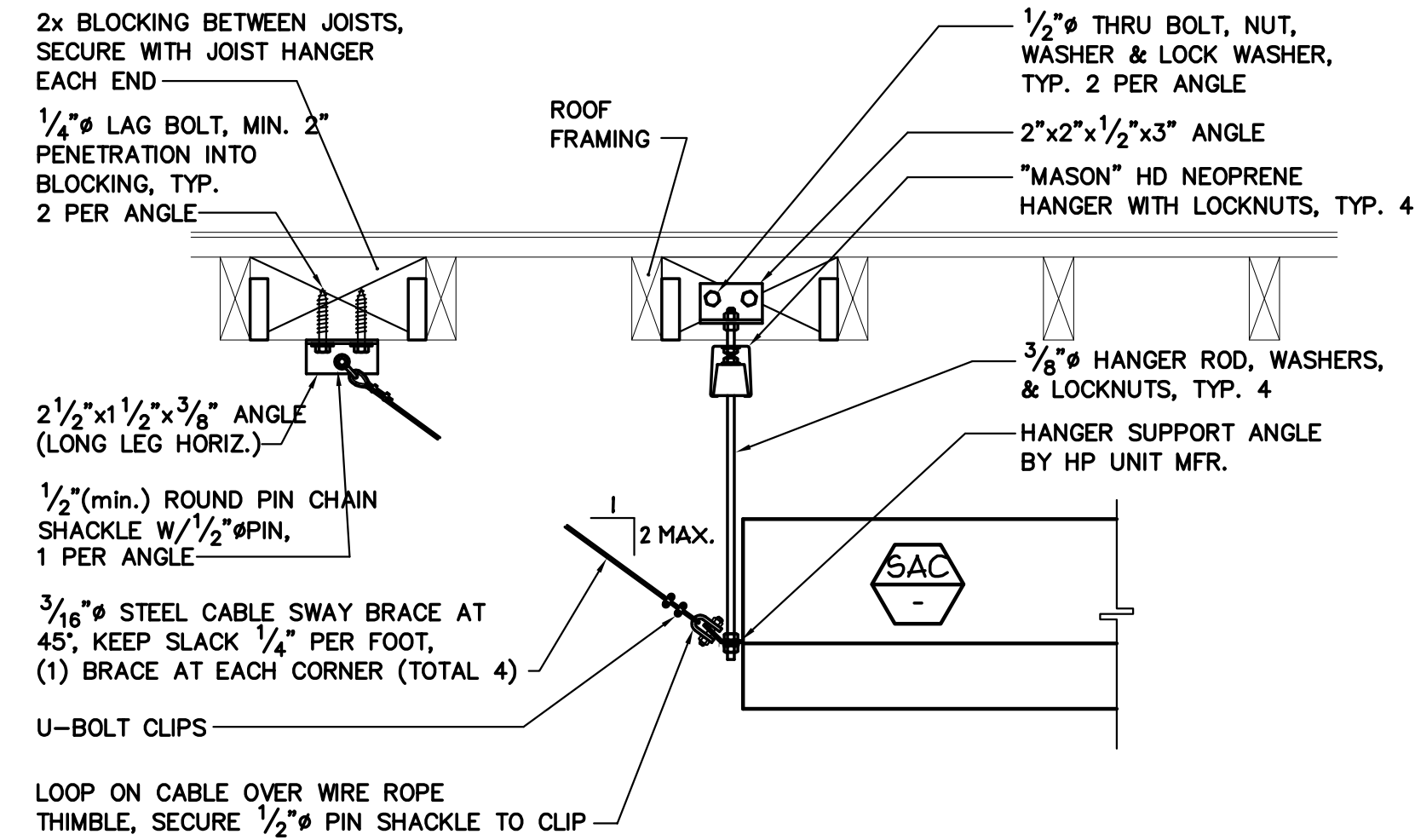


AC UNIT PIPING

SCALE : NONE

2

M5.2



SPLIT SYSTEM INDOOR MOUNTING

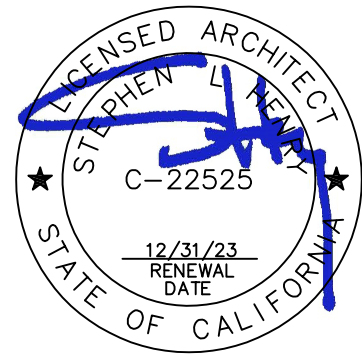
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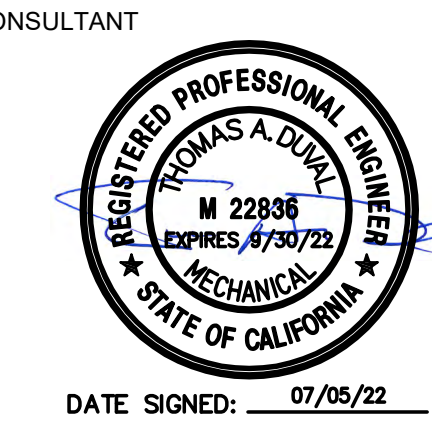
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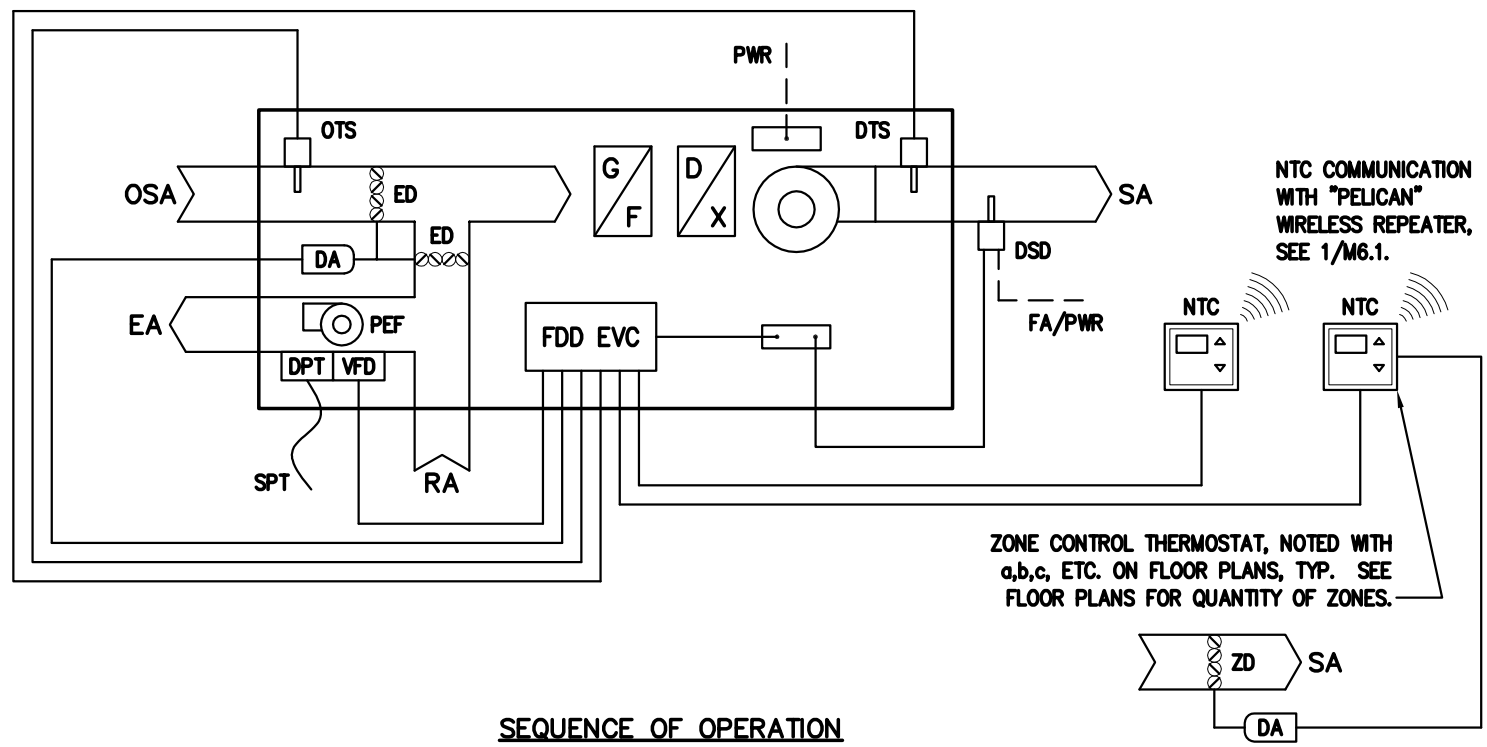
MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL
DETAILS



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GENERAL: THE NETWORK THERMOSTAT SHALL BE PROGRAMMED AS DIRECTED BY THE DISTRICT FOR OCCUPIED PERIODS, UNOCCUPIED PERIODS, AND HOLIDAYS. THE NETWORK THERMOSTAT SHALL BE CAPABLE OF RECEIVING A UTILITY COMPANY 'AUTOMATED DEMAND RESPONSE' (ADR) SIGNAL, VIA WIRELESS SIGNAL FROM INTERNET CONNECTED WIRELESS GATEWAY. THE AC UNIT SHALL PROVIDE MINIMUM OUTSIDE AIR VENTILATION FOR 1 HOUR PRIOR TO SCHEDULED OCCUPANCY. DURING PERIODS OF OCCUPANCY, OR IF THE NETWORK THERMOSTAT OVERRIDE BUTTON IS PUSHED, THE SUPPLY FAN SHALL BE ENABLED AND STAGED HEATING OR COOLING SHALL BE PROVIDED TO MAINTAIN ROOM TEMPERATURE SETPOINT. TCC SHALL INSTALL IN EACH AC UNIT THE 'FAULT DETECTION & DIAGNOSTICS' (FD) ECONOMIZER/VENTILATION CONTROLLER AND TEMPERATURE SENSORS. THE POWER EXHAUST FAN VFD SHALL BE ENABLED WHENEVER THE AC UNIT SUPPLY FAN IS RUNNING. THE POWER EXHAUST DIFFERENTIAL PRESSURE TRANSDUCER SHALL AUTOMATICALLY MODULATE THE POWER EXHAUST FAN VFD TO MAINTAIN A SLIGHT POSITIVE PRESSURE IN THE ROOMS SERVED. CONTRACTOR SHALL COMMISSION THE POWER EXHAUST SYSTEM TO MAINTAIN ROOM PRESSURE BETWEEN 0.01" AND 0.03" POSITIVE UNDER ALL OPERATING CONDITIONS. THE OUTSIDE AIR DAMPER SHALL MODULATE FULLY CLOSED WHENEVER THE AC UNIT IS DISABLED.

COOLING:
ON A CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE ECONOMIZER LOCKOUT TEMPERATURE SET AT 75 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE AS NEEDED TO OPERATE AS THE FIRST STAGE OF COOLING. ON AN ADDITIONAL CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE IS ABOVE THE COOLING LOCKOUT TEMPERATURE SET AT 60 DEG F (ADJUSTABLE), STAGES OF DX COOLING SHALL BE ENABLED IN CONJUNCTION WITH THE ECONOMIZER TO MAINTAIN ROOM COOLING SETPOINT (INTEGRATED ECONOMIZER OPERATION). IF SETPOINT STILL CANNOT BE MAINTAINED, OR IF THE OUTSIDE AIR TEMPERATURE RISES ABOVE THE ECONOMIZER LOCKOUT TEMPERATURE, THE ECONOMIZER DAMPERS SHALL MODULATE TO MINIMUM POSITION, AND STAGES OF DX COOLING SHALL BE ENABLED TO MAINTAIN ROOM COOLING SETPOINT.

HEATING:
ON A CALL FOR HEATING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE HEATING LOCKOUT TEMPERATURE SET AT 65 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE TO MINIMUM POSITION, AND STAGES OF HEATING SHALL BE ENABLED TO MAINTAIN ROOM HEATING SETPOINT.

DEMAND CONTROLLED VENTILATION (DCV):
CO2 CONTROL OVER THE ECONOMIZER SHALL ALWAYS TAKE PRECEDENCE OVER HEATING OR COOLING TO MAINTAIN A ZONE CO2 LEVEL LESS THAN 1000 PPM (ADJUSTABLE). WHEN CO2 LEVELS RISE ABOVE 750 PPM (ADJUSTABLE), THE ECONOMIZER SHALL MODULATE OPEN AS NEEDED TO MAINTAIN CO2 LEVELS BETWEEN 750-1000 PPM (ADJUSTABLE). IF THE OUTSIDE AIR DAMPER REACHES ITS "UPPER MINIMUM" POSITION AND CO2 LEVELS ARE STILL RISING, THE OUTSIDE AIR DAMPER SHALL MAINTAIN THIS "UPPER MINIMUM" POSITION UNTIL ZONE CO2 LEVELS DROP BELOW 700 PPM (ADJUSTABLE). ONCE CO2 LEVELS HAVE DROPPED BELOW 700 PPM (ADJUSTABLE), THE ECONOMIZER SHALL RETURN TO THE LOWER CFM POSITION AS IN THE AC UNIT SCHEDULE.

AUTOMATIC SHUTOFFS (DUCT SMOKE DETECTORS):
INSTALL DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR AUTOMATIC SHUTDOWN OF HVAC SYSTEM UPON SENSING SMOKE. PROVIDED, POWERED & INTERLOCKED/WIRED TO FIRE ALARM SYSTEM BY DIV. 26/28, INSTALLED & CONNECTED TO AC UNIT BY TCC. REFER TO AC UNIT SCHEDULE ON SHEET M0.2 FOR AC UNITS THAT REQUIRE AUTOMATIC SHUTOFF.

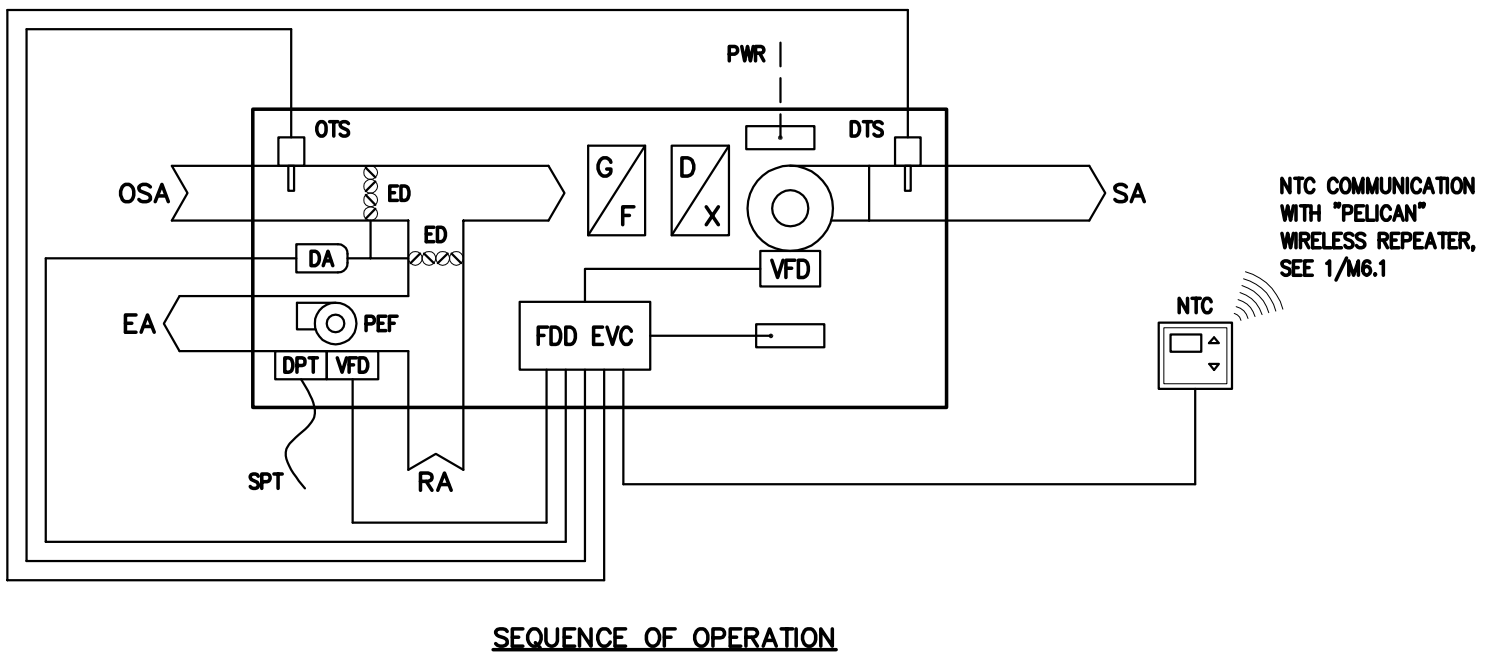
SHELTER IN PLACE OVERRIDE:
UPON ACTIVATION OF "SHELTER IN PLACE" OVERRIDE AT EMS, ECONOMIZER DAMPER SHALL BE CLOSED TO OUTSIDE AIR BUT THE UNIT SHALL REMAIN IN OPERATION.

NOTIFICATIONS AND ALERTS:

- THE NETWORK THERMOSTAT WITH INTEGRAL CO2 MONITOR SHALL DISPLAY CO2 READINGS THROUGH A WEB-BASED APPLICATION OR CELLULAR PHONE APPLICATION.
- THE NETWORK THERMOSTAT WITH INTEGRAL CO2 MONITOR SHALL PROVIDE NOTIFICATION WHEN THE CLASSROOM CO2 LEVEL EXCEEDS 1100 PPM VIA A VISUAL INDICATOR ON THE NTC, AN EMAIL, A TEXT, OR CELLULAR PHONE APPLICATION.
- THE NETWORK THERMOSTAT WITH INTEGRAL CO2 MONITOR SHALL MAINTAIN A RECORD OF PREVIOUS MAXIMUM CO2 CONCENTRATION MEASURED.
- THE INTEGRAL CO2 MONITOR SHALL HAVE A RANGE OF 400 PPM TO 2000 PPM MINIMUM.
- THE INTEGRAL CO2 MONITOR SHALL BE ACCURATE TO WITHIN 75 PPM MAXIMUM AT 1000 PPM CO2 CONCENTRATION.
- THE INTEGRAL CO2 MONITOR SHALL BE CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY FIVE YEARS.

SZCAV AC UNIT CONTROL DIAGRAM

(SINGLE ZONE CONSTANT AIR VOLUME w/
CO2 DEMAND CONTROL VENTILATION)



GENERAL: THE NETWORK THERMOSTAT SHALL BE PROGRAMMED AS DIRECTED BY THE DISTRICT FOR OCCUPIED PERIODS, UNOCCUPIED PERIODS, AND HOLIDAYS. THE NETWORK THERMOSTAT SHALL BE CAPABLE OF RECEIVING A UTILITY COMPANY 'AUTOMATED DEMAND RESPONSE' (ADR) SIGNAL, VIA WIRELESS SIGNAL FROM INTERNET CONNECTED WIRELESS GATEWAY. THE AC UNIT SHALL PROVIDE MINIMUM OUTSIDE AIR VENTILATION FOR 1 HOUR PRIOR TO SCHEDULED OCCUPANCY. DURING PERIODS OF OCCUPANCY, OR IF THE NETWORK THERMOSTAT OVERRIDE BUTTON IS PUSHED, THE SUPPLY FAN VFD SHALL BE ENABLED AND STAGED HEATING OR COOLING SHALL BE PROVIDED TO MAINTAIN ROOM TEMPERATURE SETPOINT. TCC SHALL INSTALL IN EACH AC UNIT THE 'FAULT DETECTION & DIAGNOSTICS' (FDD) ECONOMIZER/VENTILATION CONTROLLER AND TEMPERATURE SENSORS. THE POWER EXHAUST FAN VFD SHALL BE ENABLED WHENEVER THE AC UNIT SUPPLY FAN IS RUNNING. THE POWER EXHAUST DIFFERENTIAL PRESSURE TRANSDUCER SHALL AUTOMATICALLY MODULATE THE POWER EXHAUST FAN VFD TO MAINTAIN A SLIGHT POSITIVE PRESSURE IN THE ROOMS SERVED. CONTRACTOR SHALL COMMISSION THE POWER EXHAUST SYSTEM TO MAINTAIN ROOM PRESSURE BETWEEN 0.01" AND 0.03" POSITIVE UNDER ALL OPERATING CONDITIONS. THE OUTSIDE AIR DAMPER SHALL MODULATE FULLY CLOSED WHENEVER THE AC UNIT IS DISABLED.

COOLING:
ON A CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE ECONOMIZER LOCKOUT TEMPERATURE SET AT 75 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE AND THE SUPPLY FAN VFD SHALL MODULATE AS NEEDED TO OPERATE AS THE FIRST STAGE OF COOLING. ON AN ADDITIONAL CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE ABOVE THE COOLING LOCKOUT TEMPERATURE SET AT 60 DEG F (ADJUSTABLE), STAGES OF DX COOLING SHALL BE ENABLED IN CONJUNCTION WITH THE ECONOMIZER TO MAINTAIN ROOM COOLING SETPOINT (INTEGRATED ECONOMIZER OPERATION). IF ROOM SETPOINT STILL CANNOT BE MAINTAINED, OR IF THE OUTSIDE AIR TEMPERATURE RISES ABOVE THE ECONOMIZER LOCKOUT TEMPERATURE, THE ECONOMIZER DAMPERS SHALL MODULATE TO 'LOWER MINIMUM' POSITION, STAGES OF DX COOLING SHALL BE ENABLED, AND SUPPLY FAN VFD SHALL MODULATE AS NEEDED TO MAINTAIN ROOM COOLING SETPOINT. SUPPLY FAN AIRFLOW SHALL NEVER BE LESS THAN 66% OF FULL AIRFLOW.

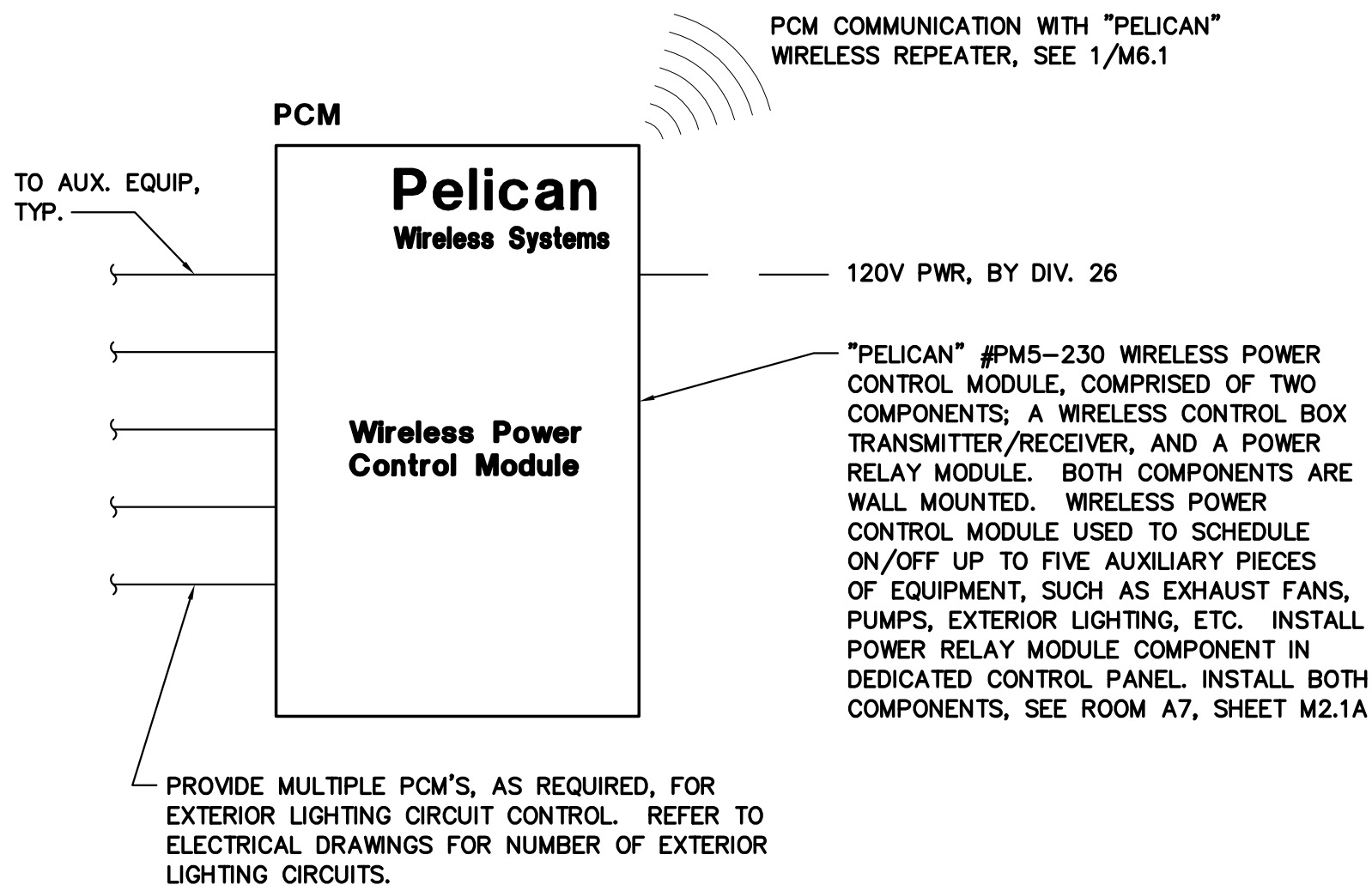
HEATING: ON A CALL FOR HEATING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE HEATING LOCKOUT TEMPERATURE SET AT 65 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE TO 'LOWER MINIMUM' POSITION. STAGES OF HEATING SHALL BE ENABLED, AND THE SUPPLY FAN VFD SHALL MODULATE AS NEEDED TO MAINTAIN ROOM HEATING SETPOINT. SUPPLY FAN AIRFLOW SHALL NEVER BE LESS THAN 66% OF FULL AIRFLOW.

DEMAND CONTROLLED VENTILATION:
CO2 CONTROL OVER THE ECONOMIZER SHALL ALWAYS TAKE PRECEDENCE OVER HEATING OR COOLING TO MAINTAIN A ZONE CO2 LEVEL LESS THEN 1000 PPM (ADJUSTABLE). WHEN CO2 LEVELS RISE ABOVE 750 PPM (ADJUSTABLE), THE ECONOMIZER SHALL MODULATE OPEN AS NEEDED TO MAINTAIN CO2 LEVELS BETWEEN 750-1000 PPM (ADJUSTABLE). IF THE OUTSIDE AIR DAMPER REACHES ITS "UPPER MINIMUM" POSITION AND CO2 LEVELS ARE STILL RISING, THE OUTSIDE AIR DAMPER SHALL MAINTAIN THIS "UPPER MINIMUM" POSITION UNTIL ZONE CO2 LEVELS DROP BELOW 700 PPM (ADJUSTABLE). ONCE CO2 LEVELS HAVE DROPPED BELOW 700 PPM (ADJUSTABLE), THE ECONOMIZER SHALL RETURN TO THE LOWER CFM POSITION AS IN THE AC UNIT SCHEDULE.

NOTIFICATIONS AND ALERTS:

- THE NETWORK THERMOSTAT WITH INTEGRAL CO2 MONITOR SHALL DISPLAY CO2 READINGS THROUGH A WEB-BASED APPLICATION OR CELLULAR PHONE APPLICATION.
- THE NETWORK THERMOSTAT WITH INTEGRAL CO2 MONITOR SHALL PROVIDE NOTIFICATION WHEN THE CLASSROOM CO2 LEVEL EXCEEDS 1100 PPM VIA A VISUAL INDICATOR ON THE NTC, AN EMAIL, A TEXT, OR CELLULAR PHONE APPLICATION.
- THE NETWORK THERMOSTAT WITH INTEGRAL CO2 MONITOR SHALL MAINTAIN A RECORD OF PREVIOUS MAXIMUM CO2 CONCENTRATION MEASURED.
- THE INTEGRAL CO2 MONITOR SHALL HAVE A RANGE OF 400 PPM TO 2000 PPM MINIMUM.
- THE INTEGRAL CO2 MONITOR SHALL BE ACCURATE TO WITHIN 75 PPM MAXIMUM AT 1000 PPM CO2 CONCENTRATION.
- THE INTEGRAL CO2 MONITOR SHALL BE CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY FIVE YEARS.

AC UNIT CONTROL DIAGRAM

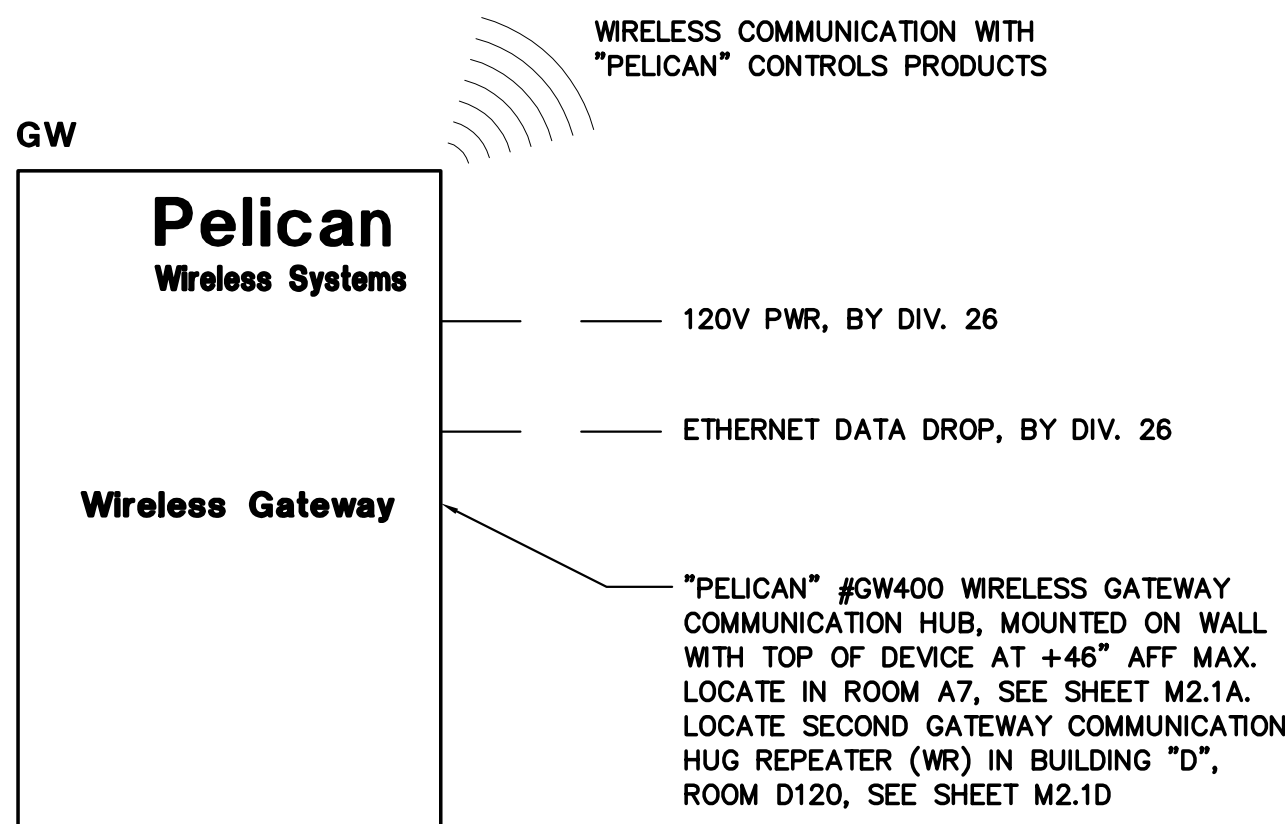


WIRELESS POWER CONTROL MODULE

SCALE : NONE

2
M6.1

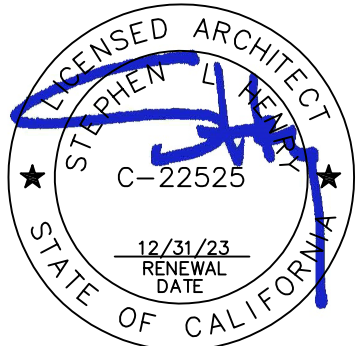
CONTROLS LEGEND	
SYMBOL	DESCRIPTION
NT	"PELICAN" #TS200 NETWORK THERMOSTAT WITH OVERRIDE BUTTON
NTC	"PELICAN" #TS250 NETWORK THERMOSTAT WITH INTEGRAL CO2 SENSOR AND OVERRIDE BUTTON
FDD EVC	"PELICAN" PEARL FAULT DETECTION & DIAGNOSTICS ECONOMIZER/VENTILATION CONTROLLER
GW	"PELICAN" #GW400 WIRELESS GATEWAY MODULE
WR	"PELICAN" #WR400 EXTENDED RANGE WIRELESS REPEATER
PCM	"PELICAN" #PM5-230 WIRELESS POWER CONTROL MODULE
DS	"PELICAN" #PRX1 WIRELESS DOOR SENSOR
RT	"PELICAN" #RT1-AC WIRELESS REMOTE THERMOSTAT (TEMPERATURE ONLY MODE)
TAS	"PELICAN" #TA1 TEMPERATURE/ALARM SENSOR (INSTALLED NEXT TO OCCUPANCY SENSOR)
OCS	"LUTRON" #LOS-CDT-500R-WH (OR EQUAL) OCCUPANCY SENSOR
DCV	DEMAND CONTROLLED VENTILATION
ADR	AUTOMATED DEMAND RESPONSE
DTS	DISCHARGE TEMPERATURE SENSOR
OTS	OUTSIDE AIR TEMPERATURE SENSOR
DA	DAMPER ACTUATOR
ED	ECONOMIZER DAMPER
PEF	POWER EXHAUST FAN
VFD	VARIABLE FREQUENCY DRIVE
DPT	POWER EXHAUST DIFFERENTIAL PRESSURE TRANSDUCER
SPT	SPACE STATIC PRESSURE TUBING (INSTALLED BY TCC)
DSD	DUCT SMOKE DETECTOR BY DIV. 26
RIB	RELAY IN BOX
J-BOX	JUNCTION BOX
PWR	POWER WIRING BY DIV. 16
FA/PWR	FIRE ALARM WIRING AND POWER WIRING BY DIV. 16
RA	RETURN AIR
OSA	OUTSIDE AIR
EA	EXHAUST AIR
SA	SUPPLY AIR
TCC	TEMPERATURE CONTROLS CONTRACTOR
EC	ELECTRICAL CONTRACTOR
<hr/> <p style="text-align: center;">WIRING BY TEMPERATURE CONTROL CONTRACTOR (TCC)</p> <hr style="width: 50%; margin: auto;"/> <p style="text-align: center;">WIRING BY ELECTRICAL CONTRACTOR (EC)</p> <hr style="width: 50%; margin: auto;"/>	
<p>THESE CONTROL DIAGRAMS ARE DIAGRAMMATIC AND DO NOT DEPICT ALL CONTROL WIRES, RELAYS OR COMPONENTS OF A COMPLETE SYSTEM. IT IS THE RESPONSIBILITY OF THE TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE A COMPLETE AND FUNCTIONAL CONTROL SYSTEM AT NO ADDITIONAL COST TO THE OWNER.</p> <p>NOTE: ALL CONTROL WIRING SHALL BE RUN IN CONDUIT.</p>	



WIRELESS GATEWAY COMMUNICATION


SCALE : NONE

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



MODERNIZATION LODI MIDDLE SCHOOL (INCREMENT 1)	CONSTRUCTION DOCUMENTS PHASE
MECHANICAL CONTROLS	

CONSULTANT

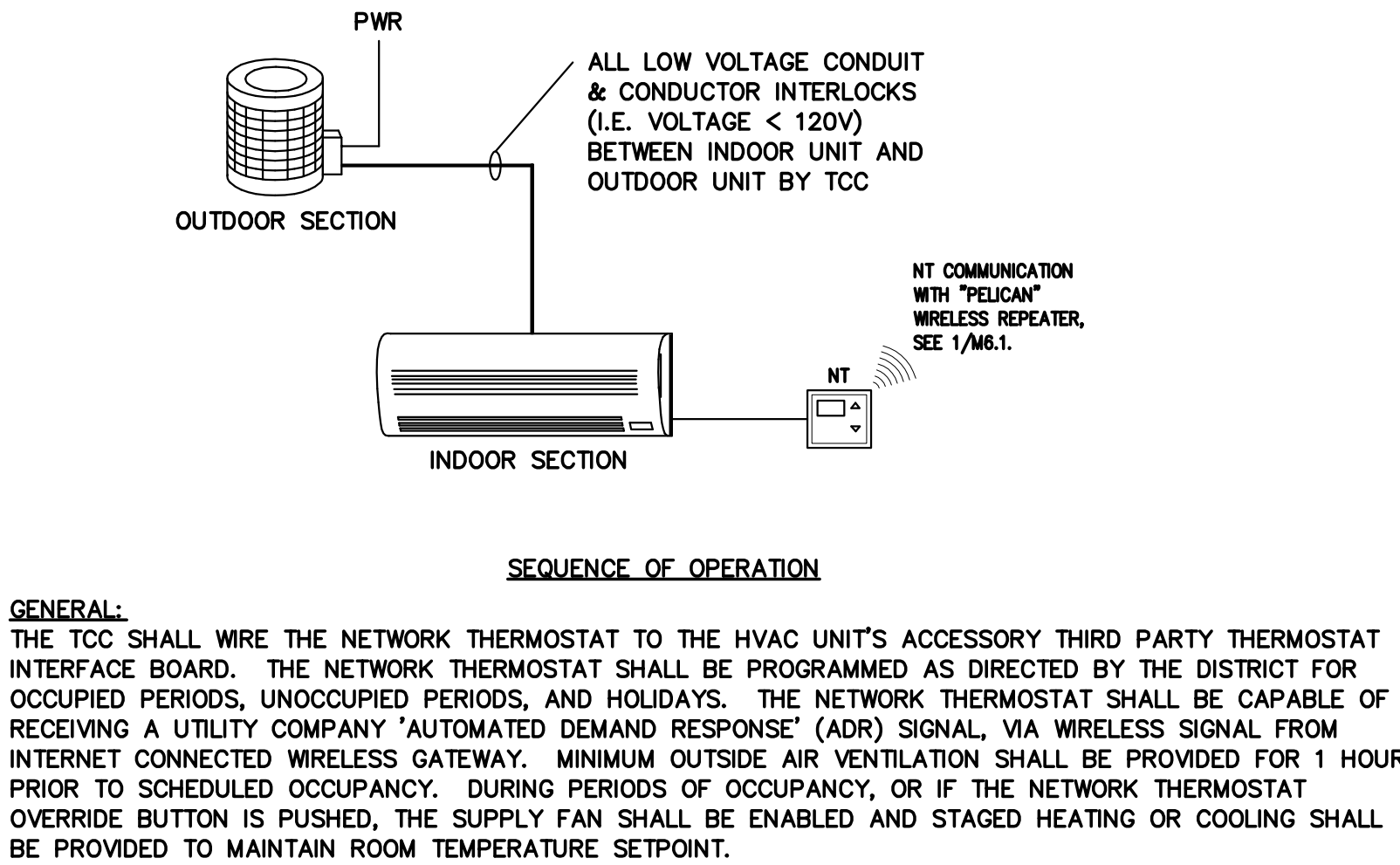


DATE SIGNED: 07/05/22

PROJECT NO. 22-32-057	REVISIONS	BY
DATE 2/17/2021		
DRAWN BV		
CHECKED MCM		
SCALE AS SHOWN		
CADFILE 81-M6.1.DWG		
UPDATED 8/26/2022		
SHEET NO.		

M6.1

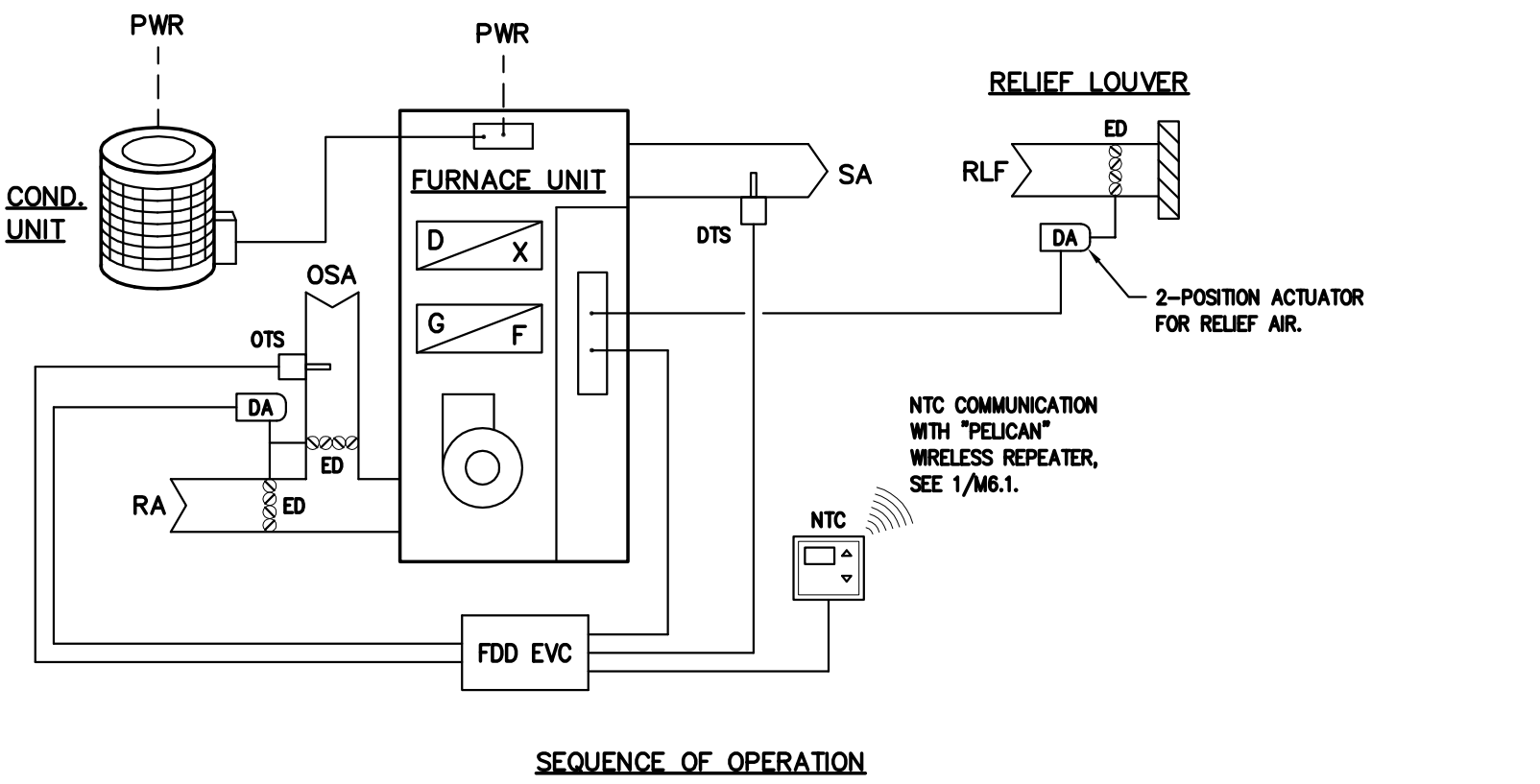
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SFC/SHP CONTROL DIAGRAM

SCALE : NONE

4
M6.1



COOLING:
ON A CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE ECONOMIZER LOCKOUT TEMPERATURE SET AT 75 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE AS NEEDED TO OPERATE AS THE FIRST STAGE OF COOLING. ON AN ADDITIONAL CALL FOR COOLING, IF THE OUTSIDE AIR TEMPERATURE IS ABOVE THE COOLING LOCKOUT TEMPERATURE SET AT 60 DEG F (ADJUSTABLE), STAGES OF DX COOLING SHALL BE ENABLED IN CONJUNCTION WITH THE ECONOMIZER TO MAINTAIN ROOM COOLING SETPOINT (INTEGRATED ECONOMIZER OPERATION). IF SETPOINT STILL CANNOT BE MAINTAINED, OR IF THE OUTSIDE AIR TEMPERATURE RISES ABOVE THE ECONOMIZER LOCKOUT TEMPERATURE, THE ECONOMIZER DAMPERS SHALL MODULATE TO MINIMUM POSITION, AND STAGES OF DX COOLING SHALL BE ENABLED TO MAINTAIN ROOM COOLING SETPOINT.

HEATING:
ON A CALL FOR HEATING, IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE HEATING LOCKOUT TEMPERATURE SET AT 65 DEG F (ADJUSTABLE), THE ECONOMIZER DAMPERS SHALL MODULATE TO MINIMUM POSITION, AND STAGES OF HEATING SHALL BE ENABLED TO MAINTAIN ROOM HEATING SETPOINT.

DEMAND CONTROLLED VENTILATION:
CO2 CONTROL OVER THE ECONOMIZER SHALL ALWAYS TAKE PRECEDENCE OVER HEATING OR COOLING TO MAINTAIN A ZONE CO2 LEVEL LESS THEN 1000 PPM (ADJUSTABLE). WHEN CO2 LEVELS RISE ABOVE 750 PPM (ADJUSTABLE), THE ECONOMIZER SHALL MODULATE OPEN AS NEEDED TO MAINTAIN CO2 LEVELS BETWEEN 750-1000 PPM (ADJUSTABLE). IF THE OUTSIDE AIR DAMPER REACHES ITS 'UPPER MINIMUM' POSITION AND CO2 LEVELS ARE STILL RISING, THE OUTSIDE AIR DAMPER SHALL MAINTAIN THIS 'UPPER MINIMUM' POSITION UNTIL ZONE CO2 LEVELS DROP BELOW 700 PPM (ADJUSTABLE). ONCE CO2 LEVELS HAVE DROPPED BELOW 700 PPM (ADJUSTABLE), THE ECONOMIZER SHALL RETURN TO THE LOWER CFM POSITION AS IN THE FURNACE SCHEDULE.

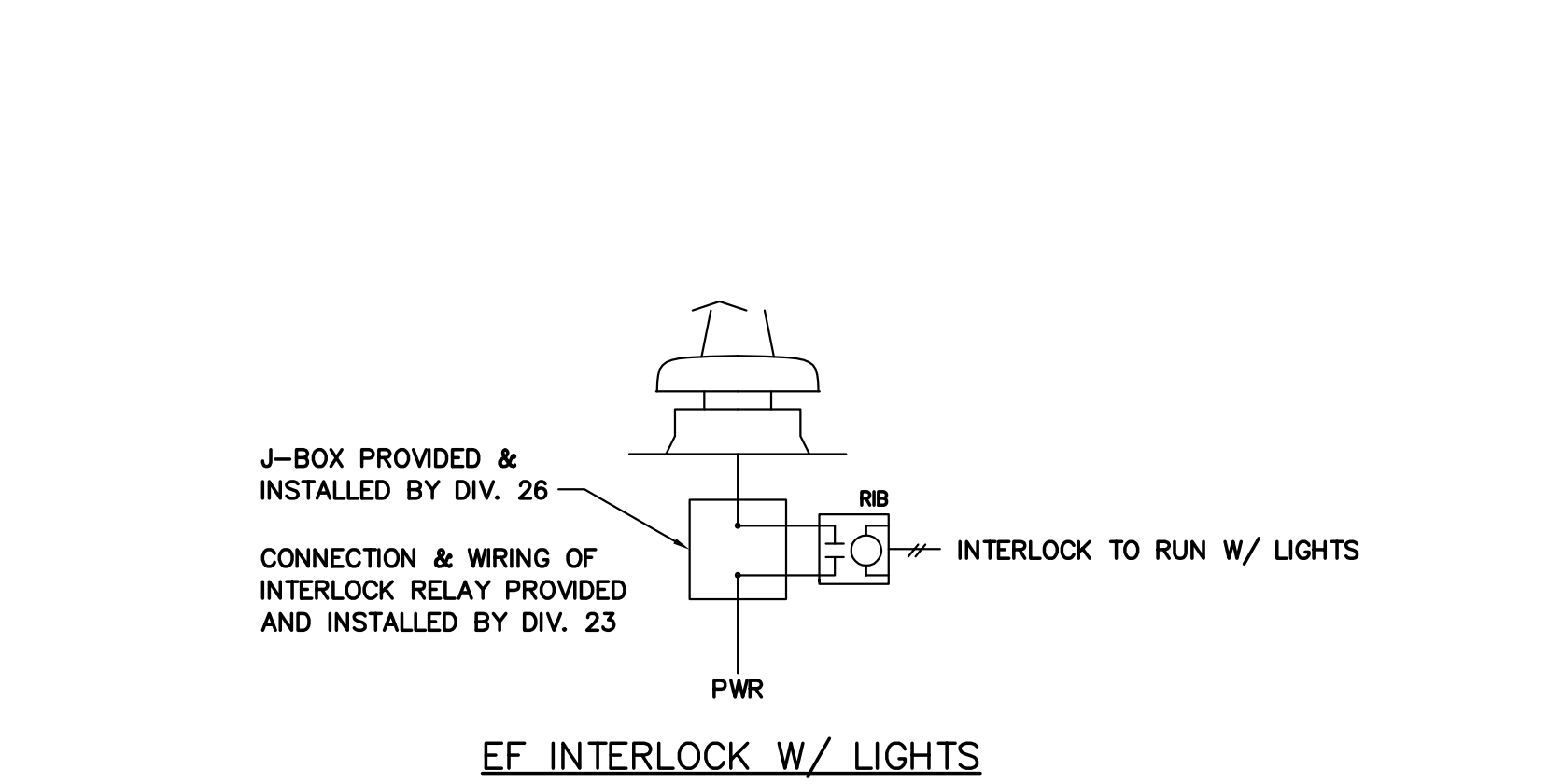
SHELTER IN PLACE OVERRIDE:
UPON ACTIVATION OF "SHELTER IN PLACE" OVERRIDE AT EMS, ECONOMIZER DAMPER SHALL BE CLOSED TO OUTSIDE AIR BUT THE UNIT SHALL REMAIN IN OPERATION.

NOTIFICATIONS AND ALERTS:
•THE NETWORK THERMOSTAT WITH INTEGRAL CO2 MONITOR SHALL DISPLAY CO2 READINGS THROUGH A WEB-BASED APPLICATION OR CELLULAR PHONE APPLICATION.
•THE NETWORK THERMOSTAT WITH INTEGRAL CO2 MONITOR SHALL PROVIDE NOTIFICATION WHEN THE CLASSROOM CO2 LEVEL EXCEEDS 1100 PPM VIA A VISUAL INDICATOR ON THE NTC, AN EMAIL, A TEXT, OR CELLULAR PHONE APPLICATION.
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•THE INTEGRAL CO2 MONITOR SHALL BE CERTIFIED BY THE MANUFACTURER TO REQUIRE CALIBRATION NO MORE FREQUENTLY THAN ONCE EVERY FIVE YEARS.

F/CU UNIT CONTROL DIAGRAM W/ DCV

SCALE : NONE

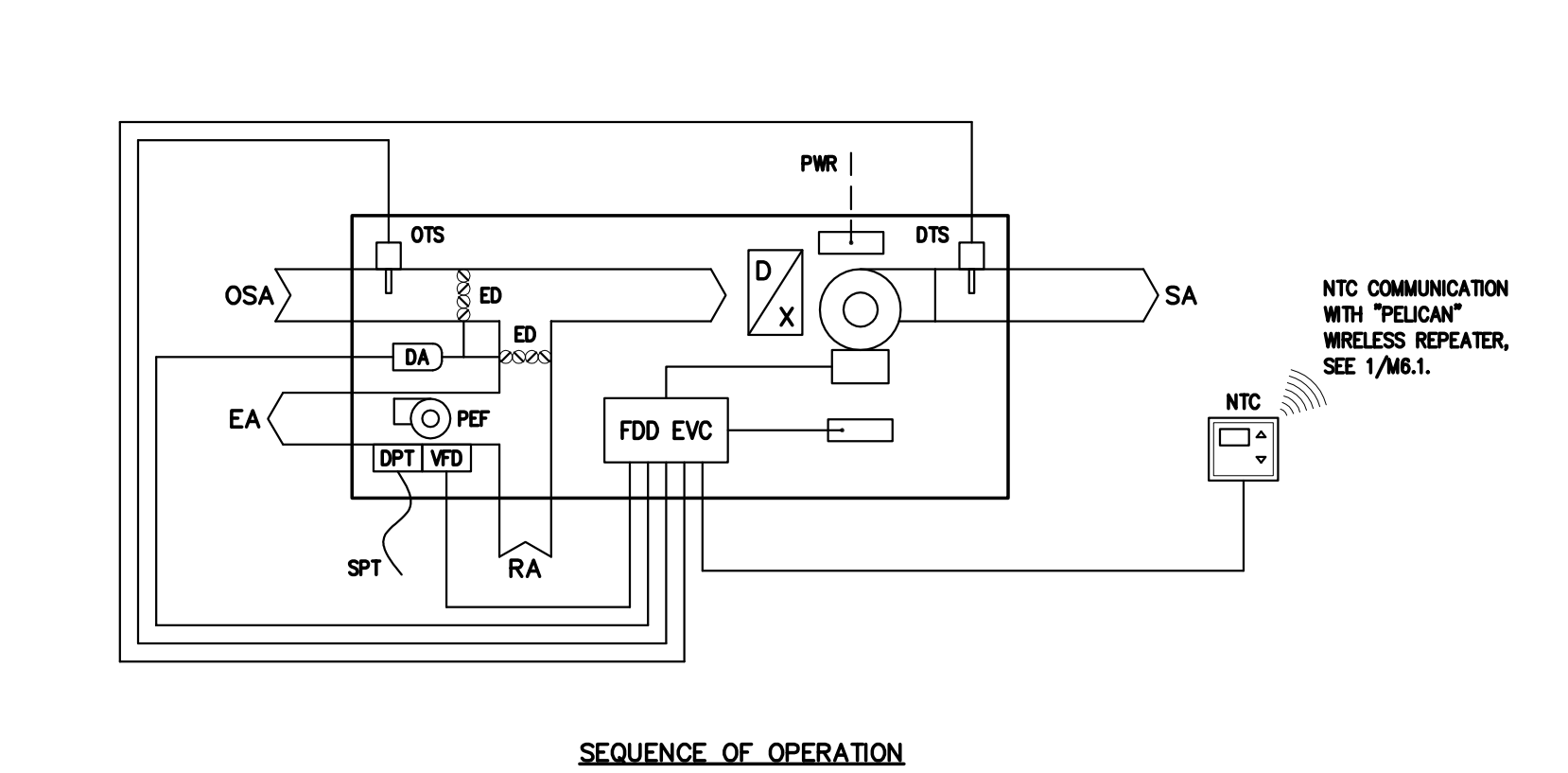
2
M6.2



REF CONTROL DIAGRAM

SCALE : NONE

3
M6.2



COOLING:
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SHELTER IN PLACE OVERRIDE:
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NOTIFICATIONS AND ALERTS:
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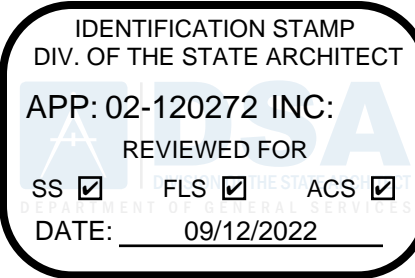
HEAT PUMP UNIT CONTROL W/ DCV

SCALE : NONE

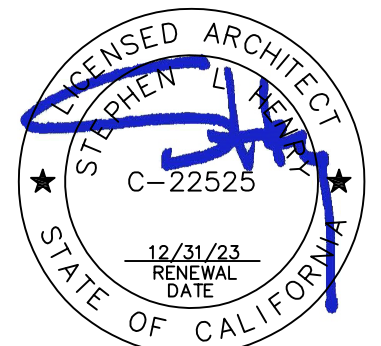
1
M6.2



MCN - BV 220208.00
PM - DESIGN TEAM PROJECT NO.



730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



MODERNIZATION
LODI MIDDLE SCHOOL
(INCREMENT 1)
CONSTRUCTION DOCUMENTS PHASE
MECHANICAL
CONTROLS



PROJECT NO.	REVISIONS	BY
22-32-057		
DATE		
2/17/2021		
DRAWN		
BV		
CHECKED		
MCM		
SCALE		
AS SHOWN		
CADFILE		
81-M6.2.DWG		
UPDATED		
8/26/2022		
SHEET NO.		

M6.2

QC	
INI	%

STATE OF CALIFORNIA Mechanical Systems <small>MISC-0014</small>		CALIFORNIA ENERGY CONSERVATION <small>MISC-MCH-001</small>	
CERTIFICATE OF COMPLIANCE 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 path outlined in §160.6 or §141.0(b)(2) for alterations.			
Project Name:	Lodi MS-2022 HVAC Modernization	Report Page:	(Page 1 of 8)
Project Address:	545 S Main Lane	TBD (2023)	

A. GENERAL INFORMATION			
C1 Project Location (city):	Lodi	D4 Total Conditioned Floor Area	44439
C2 Climate Zone:	12	D5 Total Unconditioned Floor Area	119
C3 Occupancy Types Within Project:		E1 % of Stories (Inhabitable Above Grade)	1
H1 Hotel / HI	<input type="checkbox"/> Retail (M)	F1 Non-refrigerated Warehouse (S)	
K1 Hotels / Motels Guest Rooms (R-K)	<input type="checkbox"/> School (E)	G1 Healthcare Facility (H)	
L1 High-Rise Residential (R-2/R-3)	<input type="checkbox"/> Reducatable Class Bldg (F)	O1 Other (write in)	See Tab 2

B. PROJECT SCOPE			
This table includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §160.6 or §141.0(b)(2) for alterations.			
01	02	03	04
Air System(s)	Wet System Components	Dry System Components	
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input checked="" type="checkbox"/> Air Economizer	
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat	
<input type="checkbox"/> Mechanical Controls	<input type="checkbox"/> System Piping	<input type="checkbox"/> Fan Systems	
<input checked="" type="checkbox"/> Mechanical Controls (existing to remain, altered or new)	<input type="checkbox"/> Cooling Towers	<input type="checkbox"/> Ductwork (existing to remain, altered or new)	
	<input type="checkbox"/> Chillers	<input type="checkbox"/> Ventilation	
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems / Terminal Boxes	

STATE OF CALIFORNIA Mechanical Systems <small>MISC-2024</small>		CALIFORNIA ENERGY COMMISSION NRC-2024-01						
CERTIFICATE OF COMPLIANCE								
Project Name:		Last MD= 2023 HPMC Modernization [Report Page]						
Project Address:		945 S Main Lane [Page 1 of 8] 755-0952						
C. COMPLIANCE RESULTS								
Table C. and indicate if the project data input onto the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.								
01	02	03	04	05	06	07	08	09
System Summary \$110.1 \$110.2 \$140.5	AND Pumps \$169.493	Fans/ Economizers \$146.463 \$146.561 \$140.405	AND System Controls \$110.2 \$100.3 \$140.405	AND Ventilation \$120.1	AND Terminal Box Controls \$149.569	AND Distribution \$120.3 \$140.501	AND Cooling Towers \$110.2612	Compliance Results
(See Table A)	(See Table G)	(See Table H)	(See Table I)	(See Table J)	(See Table K)	(See Table L)	(See Table M)	
Yes	AND	Yes	AND	Yes	AND	Yes	AND	COMPLIES
Mandatory Measures Compliance (See Table Q for Details)								
COMPLIES								
D. EXCEPTIONAL CONDITIONS								
This table is auto-filled with unreadable comments because of selections made or data entered in tables throughout the form.								
E. ADDITIONAL REMARKS								
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.								

Registration Number:
Registration Date/Time:
Registration Provider: Energypart

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2019_1.003
Schema Version: v20200601
Report Generated: 2022-07-05 16:55:31

STATE OF CALIFORNIA Mechanical Systems		CALIFORNIA ENERGY COMMISSION NRECB MAILING ADDRESS: 1515 MARKET STREET, SACRAMENTO, CA 95833-1500 PHONE: (916) 227-2300 FAX: (916) 227-2301 TOLL FREE: 1-800-955-3829										
CERTIFICATE OF COMPLIANCE Project Name: _____ Project Address: _____		Laid Off MHF Residential _____ Report Page: _____ SWS 5 Home Loan _____ Date Prepared: _____ 7/2/2002										
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS) This table is used to document compliance for mechanical equipment with mandatory requirements found in §1501.6 and §1501.6.2 , and prescriptive requirements found in §1501.6.6(a) , §1501.6.6(b) , and §1501.6.6(c) . Dry System Equipment List (includes air conditioners, condensers, heat pumps, VAV, furnaces and unit heaters)												
G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11		
Name or Item Tag	Equipment Category per Table 110.2.2	Equipment Type Tables 110.2.1 & 110.2.20	Smallest Size (kW) (\$140.45)	Heating Output (Btu/hr)	Cooling Output (Btu/hr)	Supp. Heating Output (Btu/hr)	Sensible Per Degree (Btu/hr)	Latent Ratio (%)	Total Cooling Capacity (Btu/hr)	Total Heating Capacity (Btu/hr)	Total Sensible Cooling Load (Btu/hr)	Total Latent Cooling Load (Btu/hr)
AC-1	Unitary A/C Condensers	AC, air-cooled split (3 phase)	Yes	600	600	0	538	88	450	955.69	517.81	81.33
AC-2	Unitary A/C Condensers	AC, air-cooled split (3 phase)	Yes	180	180	0	162.14	13.5	64.22	140.74	64.22	14.74
SAC-A1	Unitary Heat Pumps	Air-cooled, split (phase)	Yes	33.27	38	8.23	36	36	26.28	34	50.7	
CU-BW-B1	Unitary A/C Condensers	AC, air-cooled, split (3 phase)	Yes	117	117	0	48.53	50.3	50.3	71.21	88.53	
CU-BW-B2	Unitary A/C Condensers	AC, air-cooled, split (3 phase)	Yes	117	117	0	48.53	50.3	50.3	71.21	88.53	
CU-BW-B3	Unitary A/C Condensers	AC, air-cooled, split (3 phase)	Yes	117	117	0	47.23	50.1	50.1	71.37	81.33	
CU-BW-B4	Unitary A/C Condensers	AC, air-cooled, split (3 phase)	Yes	117	117	0	46.78	50.3	50.3	71.37	81.33	
HP-C1	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	50.4	48	18.77	41.95	36	49.19	50.4	50.4	
HP-C2	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	42.5	36	18.77	32.26	27	36.56	46.73	36.56	
HP-C3	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	50.4	48	18.77	41.95	36	51.12	62.79	50.4	
HP-C4	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	50.4	48	18.77	42.49	36	49.19	50.4	50.4	
HP-C5	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	50.4	48	18.77	42.18	36	55.56	50.4	50.4	
HP-C6	Unitary Heat Pumps	Air-cooled, split (3 phase)	N/A, Load Unknown	50.4	48	18.77	41.87	36	49.19	50.4	50.4	
HP-D1	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	50.4	48	18.77	41.85	36	49.19	55.16	50.4	
HP-D2	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	50.4	48	18.77	42.34	36	49.67	61.8	50.4	
HP-D3	Unitary Heat Pumps	Air-cooled, split (3 phase)	Yes	50.4	48	18.77	42.33	36	55.56	50.4	50.4	

SEAL OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION												
Mechanical Systems														
CERTIFICATE OF COMPLIANCE														
Project Name:	Lodi Mall ME-5 Mechanical	Report Date:	06/28/2020										NCEM/CESAC Number:	Page 1 of 4
Project Address:	SWS 15 Main Street	Date Prepared:	7/2/2021											
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)														
Dry System Equipment Summary (Includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)														
ID#	Description	DR	TH	OS	06	07	08	09	10	11	12	13	14	
HP-D4	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	42.5	36	18.77	32.24	27	36.59	59.74				
HP-D5	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	42.5	36	18.77	32.23	27	36.56	59.67				
HP-D6	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	58.31	60	18.77	32.27	28	37.97	59.12				
HP-D7	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	50.4	48	17.77	32.24	36	37.07	56.62				
HP-D7	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	50.4	48	17.77	41.83	36	40.5	54.07				
HP-D9	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	58.31	60	18.77	42.84	36	42.84	56.54				
HP-D10	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	50.4	48	17.77	41.95	36	49.37	59.23				
HP-D11	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	42.5	36	17.77	32.26	27	36.74	56.86				
HP-D12	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	50.4	48	17.77	42	36	37.75	55.66				
HP-D13	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	50.4	48	17.77	43.2	36	37.75	55.66				
HP-D14	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	42.5	36	18.77	32.27	27	37.82	57.59				
HP-E1	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	42.5	36	17.77	36.36	27	22.43	38.43				
HP-E2	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	58.31	60	18.77	42.78	60	42.78	56.67				
HP-E2	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	58.31	60	18.77	52.84	45	60.37	79.2				
HP-E3	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	42.5	36	17.77	30.01	27	60.37	79.2				
HP-L4	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	58.31	60	17.77	52.8	45	60.37	79.2				
HP-L5	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	58.31	60	18.77	52.75	45	60.37	79.14				
HP-F1	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	66.22	72	17.77	63.02	54	88.66	103.98				
HP-F3	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	58.31	60	18.77	51.6	45	54.44	68.85				
HP-G2	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	66.22	72	17.77	62.55	45	72.17	87.45				
HP-H4	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	50.4	48	17.77	43.49	36	52.04	65.81				
HP-I5	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	50.4	48	18.77	43.33	36	52.06	68.1				
HP-I6	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	58.31	60	18.77	45.45	45	63.29	68				
HP-J7	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	42.5	36	17.77	32.99	27	42.85	54.41				
HP-F8	Unitary Heat Pumps	Air-cooled, q/c (3 phase)	Yes	50.4	48	17.77	42.32	36	40.16	58.8				
SAC-F1	Unitary Heat Pumps	Air-cooled, split (3phase)	Yes	17.3	19	4.78	14.43	13.86	27	40.25	29.88			

Registration Number: _____ Registration Date: _____ Report Generated: 2021-07-06 16:30:31
 CA Building Energy Efficiency Standards - 2020 Nonresidential Compliance Report Version: 2021.1.003 Changes since 2020.003.000: _____
 SAC-F1 Unitary

State of California Mechanical Systems NCEM-ACH-1		CALIFORNIA ENERGY COMMISSION NCEM-ACH-1 <i>(Page # of #)</i> Project Address: 945 S Han Lane Date Prepared: 7/2/2022									
CERTIFICATE OF COMPLIANCE Last MR 2019 Mechanical Modernization Report Page:											
Project Name: _____ Project Address: 945 S Han Lane Date Prepared: 7/2/2022											
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)											
Dry System Equipment List (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)											
01	02	03	04	05	06	07	08	09	10	11	12
FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per EBC-606.6 . Heavily flexible locations are exempted. *It is common practice to allow related output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables. *If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank. *Authority having jurisdiction may ask for load calculations under for compliance per §160.4(b)(6) .											
Dry System Equipment Summary thru Package Terminal Unit Heat Pumps (PTHP)											
		Heating Mode				Cooling Modes					
Name or Item Tag	Size Category (Btu/h)	Rating Condition (T°)	Efficiency Unit Minimum Efficiency Required per Tables 110.1-7 Title 20	Design Efficiency	Efficiency Unit Minimum Efficiency Required per Tables 110.1-7 Title 20	EER	SEER	HSPF	Design Efficiency	Efficiency	
AC-1	>>240,000	Ec	0.80	0.81	EER	9.8	10.8	14.2	9.8	10.8	14.2
AC-2	>>125,000 and <240,000	AFLUE	0.80	0.81	EER	11.2	12.2	15.1	11.2	12.2	15.1
SAC-A1	<65,000	HSPF	8.2	10.2	SEER	14.0	14.0	18.5	14.0	14.0	18.5
CB-B1-F-R1	<65,000	AFLUE	0.80	0.95	SEER	13.0	14.0	14	13.0	14.0	14
CB-B1-F-R2	<65,000	AFLUE	0.80	0.95	SEER	13.0	14.0	14	13.0	14.0	14
CB-B1-F-R3	<65,000	AFLUE	0.80	0.95	SEER	13.0	14.0	14	13.0	14.0	14
CB-B1-F-R4	<65,000	AFLUE	0.80	0.95	SEER	13.0	14.0	14	13.0	14.0	14
HP-C1	<65,000	HSPF	7.7	8.3	SEER	13.0	14.0	16.2	13.0	14.0	16.2
HP-C2	<65,000	HSPF	7.7	8.3	SEER	13.0	14.0	16.2	13.0	14.0	16.2
HP-C3	<65,000	HSPF	7.7	8.3	SEER	13.0	14.0	16.2	13.0	14.0	16.2
HP-C4	<65,000	HSPF	7.7	8.3	SEER	13.0	14.0	16.2	13.0	14.0	16.2
HP-C5	<65,000	HSPF	7.7	8.3	SEER	13.0	14.0	16.2	13.0	14.0	16.2
Registration Number: _____				Registration Date/Tier: _____				Registration Version/Project ID: _____			
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance				Schema Version: 2019.1.003 (See Table 202000001)				Report Generated: 2022-07-06 16:39:31			

STATE OF CALIFORNIA Mechanical Systems <small>MISC-04-21</small>		CALIFORNIA ENERGY COMMISSION MISC-04-21 <small>(Page 4 of 4)</small>				
CERTIFICATE OF COMPLIANCE						
Project Name: _____		Last MD-2022 HVAC Modelchecker Report Date: _____				
Project Address: _____		945 S Main Lane Date Prepared: _____				
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)						
Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))						
Name or Item Tag	Site Category (Btu/h)	Rating Condition (1%)	Heating Mode		Cooling Mode	
			Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / 110.20	Design Efficiency	Efficiency Unit
HP-C6	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D3	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D2	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D1	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D4	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D5	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D8	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D6	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D7	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D9	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D10	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D11	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D12	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D13	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D14	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-D15	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-E1	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-E2	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-E3	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2
HP-E4	<50,000	HSFF	HSFF	7.7 8.3	SEER	13.0 16.2

STATE OF CALIFORNIA Mechanical Systems HWS-2014		CALIFORNIA ENERGY COMMISSION REC-2014					
CERTIFICATE OF COMPLIANCE							
Project Name: _____		Last RPT-2012 HWS Modification Report Page: _____					
Project Address: _____		REC-2014 (Page 1 of 6) 7/2/2012					
F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)							
Dry System Equipment Efficiency [other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP)]							
DS	DS	DS	DS	DS	DS	DS	DS
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Heating Mode	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit
				Cooling Mode	Minimum Efficiency Required per Tables 110.2 / Title 20		Design Efficiency
HP-E5	<65,000		HSFP	7.7	8.3	SEER	13.0
HP-F1	>=65,000 and <135,000		COP	3.3	3.7	EER	11.1
HP-F3	<65,000		HSFP	7.7	8.3	SEER	12.2
HP-F2	>=65,000 and <135,000		COP	8.3	3.7	EER	12.2
HP-F4	<65,000		HSFP	7.7	8.3	SEER	13.1
HP-F5	>=65,000 and <135,000		COP	7.7	8.3	SEER	12.2
HP-F6	<65,000		HSFP	7.7	8.3	SEER	13.0
HP-F7	<65,000		HSFP	7.7	8.3	SEER	13.0
HP-F8	<65,000		HSFP	7.7	8.3	SEER	13.0
HP-F9	<65,000		HSFP	8.2	10.2	SEER	14.0

SEALING OF CALIFORNIA Mechanical Systems NCC-MACH-1				CALIFORNIA ENERGY COMMISSION			
CERTIFICATE OF COMPLIANCE				NCC-MACH-1 (Page 1 of 2)			
Last MS-2023 HMC Modification:				Report Date:			
Project Name:				Date Prepared:			
Project Address:				SHE'S Main Lane 792,022			

H. FAN SYSTEMS & AIR ECONOMIZERS

The table is used to demonstrate compliance with prescriptive requirements found in [§140.4\(c\) §140.4\(e\)](#), and [§140.4\(f\)\(iv\)](#) for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	AC-1	Economizer ¹	Differential Temperature	Economizer Control:	Designed per §130.4(a) and (m)	System Fan Type:	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.4	Design Airflow through Device (CFM)
SF	Supply	1	19000	BHP	20.1	Fully ducted return/exhaust Calculated Adjustment (in %C)	Device 19000
Total System Design Supply Airflow (CFM):			19000	Total System Design [BHP]:	20.1	Maximum System Fan Power (BHP):	20.16

System Name	AC-2	Economizer ¹	Differential Temperature	Economizer Control:	Designed per §130.4(a) and (n)	System Fan Type:	Constant Volume
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.4	Design Airflow through Device (CFM)
SF	Supply	1	6000	BHP	4.9		
EF	Exhaust	1	0	BHP	0		
Total System Design Supply Airflow (CFM):			6000	Total System Design [BHP]:	5.4	Maximum System Fan Power (BHP):	5.64

MECHANICAL SYSTEMS										CALIFORNIA ENERGY COMMISSION									
										NRECA/CES <small>(Page 1 of 8)</small>									
CERTIFICATE OF COMPLIANCE																			
Project Name:					Load MP-2023 HVAC Modification Report Page:										7/25/2023				
Project Address:					942 S Main Lane Date Prepared:														

H. FAN SYSTEMS & AIR ECONOMIZERS											
System Name:		SAC-A1	Economizer ¹	NA - <+5.4 kbtu/h cooling	Economizer Controls:	Designed per <u>140.4(a) and (m)</u>		System Fan Type:		Constant Volume	
O1	O2	O3	O4	O5	O6	O7	O8	O9	O10	O11	O12
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device		Design Airflow through Device (CFM)			
SF	Supply	1	1500	BHP							
Total System Design Supply Airflow (CFM):			610	Total System Design (BHP):		0.03		Maximum System Fan Power (BHP):			
System Name:		CU-B1-F-81	Economizer ¹	NA - <+5.4 kbtu/h cooling	Economizer Controls:	Designed per <u>140.4(a) and (m)</u>		System Fan Type:		Constant Volume	
O1	O2	O3	O4	O5	O6	O7	O8	O9	O10	O11	O12
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device		Design Airflow through Device (CFM)			
SF	Supply	1	1550	BHP	1						
Total System Design Supply Airflow (CFM):			1550	Total System Design (BHP):		1		Maximum System Fan Power (BHP):			
System Name:		CU-B2-F-82	Economizer ¹	NA - <+5.4 kbtu/h cooling	Economizer Controls:	Designed per <u>140.4(a) and (m)</u>		System Fan Type:		Constant Volume	
O1	O2	O3	O4	O5	O6	O7	O8	O9	O10	O11	O12
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device		Design Airflow through Device (CFM)			
SF	Supply	1	1550	BHP	1						
Total System Design Supply Airflow (CFM):			1550	Total System Design (BHP):		1		Maximum System Fan Power (BHP):			

Registration Number:
Registration Date/Time:
Registration Period: Energystop

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Report Version: 2023.1.003 Schema Version: rev 20200601
Report Generated: 2023-07-06 16:30:31

State of California

Mechanical Systems

NBC-MS-CAL

CERTIFICATE OF COMPLIANCE

Project Name: _____
 Project Address: _____

Last MSB-2022 HVAC Modification Report Page:

945 S. Main Lane Date Prepared: _____

SAN JOAQUIN COUNTY

CALIFORNIA ENERGY COMMISSION

NBC-MS-CAL
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(7/2/2022)

H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name: CU-B3/F-B3		Economizer?	NA: <-54 kWh/yr/h cooling	Economizer Controls:	Designed per <u>\$140.85c</u> and (m)	System Fan Type:	Constant Volume
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit?	Design HP	Fan Power Pressure Drop Adjustment - Table 140.8-4 Device	Design Airflow through Device (CFM)
SF	Supply	1	1550	BHP	1		
Total System Design Supply Airflow (CFM):			1550	Total System Design (BHP):	1	Maximum System Fan Power (BHP):	
System Name: CU-B4/F-S4		Economizer?	NA: <-54 kWh/yr/h cooling	Economizer Controls:	Designed per <u>\$150.85c</u> and (m)	System Fan Type:	Constant Volume
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit?	Design HP	Fan Power Pressure Drop Adjustment - Table 140.8-4 Device	Design Airflow through Device (CFM)
SF	Supply	1	1550	BHP	1		
Total System Design Supply Airflow (CFM):			1550	Total System Design (BHP):	1	Maximum System Fan Power (BHP):	
System Name: HP-C1		Economizer?	NA: <-54 kWh/yr/h cooling	Economizer Controls:	Designed per <u>\$160.85c</u> and (m)	System Fan Type:	Constant Volume
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit?	Design HP	Fan Power Pressure Drop Adjustment - Table 140.8-4 Device	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.7		
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.7	Maximum System Fan Power (BHP):	

Registration Number: _____

Registration Date/Time: _____

Registration Provider: Energsoft

CA Building Energy Efficiency Standards - 2023 Nonresidential Compliance

Report Version: 2023.1.003
Scheme Version: rev 20200605

Report Generated: 2023-07-05 16:35:31

SEPT OF CALIFORNIA Mechanical Systems				SOLAR ENERGY COMMISSION			
CERTIFICATE OF COMPLIANCE		Lodr AHS-2023 PHMC Modernization		Report Name:		NRECMCH (Page 11 of 12)	
Project Address:		945 S Hill Lane		Date Prepared:		2/2/2023	
H. FAN SYSTEMS & AIR ECONOMIZERS							
System Name:	HP-C2	Economizer ¹	NA - c=54 kBTU/h cooling	Economizer Controls:	Designed per <u>130.4(A)(2) and (m)</u>	System Fan Type:	Constant Volume
G1	G2	G3	G4	G5	G6	G7	G8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1200	BHP	0.46		
Total System Design Supply Airflow (CFM):			1200	Total System Design (BHP):	0.46	Maximum System Fan Power (BHP):	
System Name:	HP-C3	Economizer ¹	NA - c=54 kBTU/h cooling	Economizer Controls:	Designed per <u>130.4(A)(2) and (m)</u>	System Fan Type:	Constant Volume
G1	G2	G3	G4	G5	G6	G7	G8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.7		
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.7	Maximum System Fan Power (BHP):	
System Name:	HP-C4	Economizer ¹	NA - c=54 kBTU/h cooling	Economizer Controls:	Designed per <u>130.4(A)(2) and (m)</u>	System Fan Type:	Constant Volume
G1	G2	G3	G4	G5	G6	G7	G8
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit ²	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4-B Device	Design Airflow through Device (CFM)
SF	Supply	1	1600	BHP	0.7		
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):	0.7	Maximum System Fan Power (BHP):	

Registration Number: _____ Registration Date/Time: _____ Registration Period: Evergreen/

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance Report Version: 2023.1.003 Schema Version: v20200601 Report Generated: 2023-07-07 08:48:33 PM

MECHANICAL SYSTEMS				AIR CONDITIONING				ELECTRICAL			
CERTIFICATE OF COMPLIANCE				Load No: 2023 HVAC Modification				Report Title:			
Project Name:				Unit #				Plan No.			
Project Address:				Site S Main Lane				Date Prepared:			
H. FAN SYSTEMS & AIR ECONOMIZERS											
System Name:	HP C5	Economizer¹	NA - <=54 kBtu/h cooling	Economizer Controls:	Designed per <u>140.4(a)</u> and (m)			System Fan Type:	Constant Volume		
G1	O2	O3	O4	O5	O6	O7	O8				
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit?	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.4 Device		Design Airflow through Device (CFM)			
SF	Supply	1	1600	BHP	0.7	Maximum System Fan Power (BHP):					
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.7					
System Name:	HP-C5	Economizer¹	NA - <=54 kBtu/h cooling	Economizer Controls:	Designed per <u>140.4(a)</u> and (m)			System Fan Type:	Constant Volume		
G1	O2	O3	O4	O5	O6	O7	O8				
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit?	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.4 Device		Design Airflow through Device (CFM)			
SF	Supply	1	1600	BHP	0.7	Maximum System Fan Power (BHP):					
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.7					
System Name:	HP-D1	Economizer¹	NA - <=54 kBtu/h cooling	Economizer Controls:	Designed per <u>140.4(a)</u> and (m)			System Fan Type:	Constant Volume		
G1	O2	O3	O4	O5	O6	O7	O8				
Fan Name or Item Tag	Fan Function	Qty	Maximum Design Supply Airflow (CFM)	HP Unit?	Design HP	Fan Power Pressure Drop Adjustment - Table 140.4.4 Device		Design Airflow through Device (CFM)			
SF	Supply	1	1600	BHP	0.7	Maximum System Fan Power (BHP):					
Total System Design Supply Airflow (CFM):			1600	Total System Design (BHP):		0.7					

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<p style="margin: 0;">730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212</p>		
<p style="margin: 0; font-weight: bold; font-size: 1.2em;">HENRY+ ASSOCIATES ARCHITECTS</p>		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; margin-bottom: 10px;">CONSTRUCTION DOCUMENTS PHASE</div> <div style="display: flex; flex-direction: column; align-items: center;"> <p style="font-size: 1.5em; margin: 0;">MODERNIZATION LODI MIDDLE SCHOOL (INCREMENT 1)</p> <p style="font-size: 1.5em; margin: 0;">MECHANICAL TITLE 24 COMPLIANCE DOCUMENTS</p> </div> </div>		
<p>CONSULTANT</p> <div style="text-align: center;"> <p style="margin-top: 5px;">DATE SIGNED: 07/05/22</p> </div>		
PROJECT NO. 22-32-057	REVISIONS	BY
DATE 2/17/2021		
DRAWN BV		
CHECKED MCM		
SCALE AS SHOWN		
CADFILE 91-M7.1.DWG		
UPDATED 8/26/2022		
SHEET NO.		
<p style="font-size: 3em; font-weight: bold; margin: 0;">M7.1</p>		

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State of CALIFORNIA Mechanical Systems MEC-MODE										CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE										NCEM Notice	
Last Mod: 2023-07-20 HPC Modification: Report Page:										(Page 17 of 43)	
Project Address: 945 S Main Lane										7/15/2023	
J. VENTILATION AND INDOOR AIR QUALITY											
		05		06		07					
System Name		HP-D4 System Design OA CFM Airflow		313		System Design Transfer Air CFM		0		Air Filtration per §120.165 and §141.09b(7) Provided per §120.165 (NR and Total/Metall)	
08		10		11		12		13		14	
		Mechanical Ventilation Required per §120.165(1)		# of shower heads/toilets		# of people ^a		Required Min OA CFM		Eah. Vent per §120.165	
Space Name of Item Tag		Occupancy Type ^d		Conditioned Floor Area (ft²)		# of showers/head-toilets		Required Min OA CFM		DCV or Sensor Controls per §120.165 , §120.166b , and §141.09b(7)	
D104 Classroom		Lecture/postsecondary classroom		824		312.1		0		DCV N/A; Not required space type	
17		Total System Required Min OA CFM		313		18		Verification for this System Complex?		Yes	
		04		05		06		07		08	
System Name		HP-D5 System Design OA CFM Airflow		313		System Design Transfer Air CFM		0		Air Filtration per §120.165 and §141.09b(7) Provided per §120.165 (NR and Total/Metall)	
09		11		12		13		14		15	
		Mechanical Ventilation Required per §120.165(1)		# of shower heads/toilets		# of people ^a		Required Min OA CFM		Eah. Vent per §120.165	
Space Name of Item Tag		Occupancy Type ^d		Conditioned Floor Area (ft²)		# of showers/head-toilets		Required Min OA CFM		DCV or Sensor Controls per §120.165 , §120.166b , and §141.09b(7)	
D105 Classroom		Lecture/postsecondary classroom		823		312.7		0		DCV N/A; Not required space type	
17		Total System Required Min OA CFM		313		18		Verification for this System Complex?		Yes	

Registration Date: 2023/07/20
Schematic Version: rev-20200603

Regulation Number: California Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2023.0/2023
Report Generation: 2022-07-07 16:45:31

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STATE OF CALIFORNIA Mechanical Systems						CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE						NREC-MCH-2	
Project Name: LBN MS 2022 (Retrofit Modernization)						Page 23 of 43	
Project Address: 945 S Main Lane Date Prepared: 7/25/2022							
V. VENTILATION AND INDOOR AIR QUALITY							
G4		D5		D6		D7	
System Name	HP-D7	System Design CFM Airflow ^a	313	System Design Transfer Air CFM	0	Air Filtration per §120.16(b) and §141.00(a)(2) ^b Provided per §120.16(f) (NR and Hotel/Motel)?	
D8		10	12	13	14	15	
Mechanical Ventilation Required per §120.16(c) ¹				Exh. Vent per §120.16(d)			
Space Name or Item Tag	Occupancy Type ^d	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.16(e), §120.16(f), and §141.00(a)(2)
D111 Classroom	Lecture/postsecondary classroom	824		313.1	0	0	DCV Provided per §120.16(f) Occ sensor NA; Not required space type
17	Total System Required Min OA CFM			313.18	Ventilation for this System Completes?		Yes
G4		D5		D6		D7	
System Name	HP-D9	System Design CFM Airflow ^a	315	System Design Transfer Air CFM	0	Air Filtration per §120.16(b) and §141.00(a)(2) ^b Provided per §120.16(f) (NR and Hotel/Motel)?	
D8		10	12	13	14	15	
Mechanical Ventilation Required per §120.16(c) ¹				Exh. Vent per §120.16(d)			
Space Name or Item Tag	Occupancy Type ^d	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.16(e), §120.16(f), and §141.00(a)(2)
D113 Classroom	Lecture/postsecondary classroom	829		315.0	0	0	DCV Provided per §120.16(f) Occ sensor NA; Not required space type
17	Total System Required Min OA CFM			315.18	Ventilation for this System Completes?		Yes

OFFICE OF CALIFORNIA MECHANICAL SYSTEMS											
CERTIFICATE OF COMPLIANCE											
Project Name:		Los Altos Middle JHS/ Middle School				Report Page:		NRC/MC/4 Page 4 of 43			
Project Address:		345 S Ham Lane				Date Prepared:		7/27/2022			
J. VENTILATION AND INDOOR AIR QUALITY											
ID#		05		06		07					
System Name		HP-D10	System Design OA CFM Airflow ¹	315	System Design Transfer Air CFM	0	As Filtered per §20.14(b) , and §41.09(a)(2) ²				
08		09	10	11	12	13	14	Provided per §20.14(b) (NR and Hotel/Note) ³			
		Mechanical Ventilation Required per §20.14(b) ¹				Ehv. Vent per §10.15(b)					
Space Name or Item Tag		Occupancy Type ⁴	Conditioned # of Shower/ heads/ (bath) ⁵	# of people ⁶	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §20.14(b) , §10.14(b) , and §20.14(b) ³			
D114 Classroom		Lecture/ postsecondary classroom	928		314.6	0		DCV	Provided per §10.14(b)		
17		Total System Required Min OA CFM			315	18	Ventilation for this System Complex ⁷	DCV sensor	NA; Not required space type		
ID#		05		06		07					
System Name		HP-D11	System Design OA CFM Airflow ¹	315	System Design Transfer Air CFM	0	As Filtered per §20.14(b) , and §41.09(a)(2) ²				
09		10	11	12	13	14	Provided per §20.14(b) (NR and Hotel/Note) ³				
		Mechanical Ventilation Required per §20.14(b) ¹				Ehv. Vent per §10.15(b)					
Space Name or Item Tag		Occupancy Type ⁴	Conditioned # of Shower/ heads/ (bath) ⁵	# of people ⁶	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §20.14(b) , §10.14(b) , and §20.14(b) ³			
D115 Classroom		Lecture/ postsecondary classroom	829		315	0		DCV	Provided per §10.14(b)		
17		Total System Required Min OA CFM			315	18	Ventilation for this System Complex ⁷	DCV sensor	NA; Not required space type		
									Yes		

Registration Number: _____ Registration Date/Time: _____ Registration Provider: Environmental

CA Building Energy Efficiency Standards – 2019 Nonresidential Compliance Report Version: 2021.1.003 Schemes Version: 10-20200821 Report Generated: 2022-07-05 16:55:10

STATE OF CALIFORNIA
Mechanical Systems
MS-001-2019-01

CERTIFICATE OF COMPLIANCE

Project Name: _____
 Project Address: _____

Lead MS-2022 HVAC Modification
365 S. Palm Lane

Report Page: _____
Date Prepared: _____

NRCC-MCH-6
(Page 41 of 81)
7/25/2022

CALIFORNIA ENERGY COMMISSION

J. VENTILATION AND INDOOR AIR QUALITY									
04			05			06			07
System Name	HP-D12	System Design OA CFM Airflow ^a	315	System Design Transfer Air CFM	0	Air Filtration per §120.161 and §141.0063 ² Provided per §120.161 (NR and Hotel/Motel)			
08	09	10	11	12	13	14	15	16	
Mechanical Ventilation Required per §120.161 ¹									
Exh. Vent per §120.164									
Space Name of Item Tag	Occupancy Type ⁴	Conditional Floor Area (ft ²) ⁵	# of Showers /heads/ toilets	# of people ⁶	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.161 , §120.165 , and §120.169 ¹	
D116 Classroom	Lecture ⁷ /postsecondary classroom	830			315.4	0	0	DCV Provided per §120.164	
17	Total System Required Min OA CFM					315	18	Ventilation for this System Complex? Yes	
04			05			06			07
System Name	HP-D13	System Design OA CFM Airflow ^a	315	System Design Transfer Air CFM	0	Air Filtration per §120.161 and §141.0063 ² Provided per §120.161 (NR and Hotel/Motel)			
08	09	10	11	12	13	14	15	16	
Mechanical Ventilation Required per §120.161 ¹									
Exh. Vent per §120.164									
Space Name of Item Tag	Occupancy Type ⁴	Conditional Floor Area (ft ²) ⁵	# of Showers /heads/ toilets	# of people ⁶	Required Min OA CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.161 , §120.165 , and §120.169 ¹	
D117 Classroom	Lecture ⁷ /postsecondary classroom	830			315.4	0	0	DCV Provided per §120.164	
17	Total System Required Min OA CFM					315	18	Ventilation for this System Complex? Yes	

STATE OF CALIFORNIA Mechanical Systems										CALIFORNIA ENERGY COMMISSION			
CERTIFICATE OF COMPLIANCE										NRECC-MCH-6			
Project Name: Lodi Mid-2022 HVAC Modernization										Report Page: (Page 42 of 83)			
Project Address: 935 S Farm Lane										Date Prepared: 7/5/2023			
J. VENTILATION AND INDOOR AIR QUALITY													
04				05				06				07	
System Name	HP-D14	System Design CFM	315	System Design Transfer Air CFM	0	Air Filtration per §120.161 and §141.0802 ³ Provided per §120.161 (NR and Hotel/Motel)							
08	09	10	11	12	13	14	15						
Mechanical Ventilation Required per §120.163 ⁴							Exh. Vent per §120.168						
Spice Name of Item Tag	Occupancy Type ⁵	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁶	Required Min CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.165 , §120.166 and §120.163 ⁴					
018 ⁷ Classroom	Lecture/postsecondary classroom	829			315	0	0	DCV Provided per §120.168					
17	Total System Required Min CFM				315	18	Ventilation for this System Complex?	Yes					
04				05				06				07	
System Name	HP-D15	System Design CFM	92	System Design Transfer Air CFM	0	Air Filtration per §120.161 and §141.0802 ³ Provided per §120.161 (NR and Hotel/Motel)							
08	09	10	11	12	13	14	15						
Mechanical Ventilation Required per §120.163 ⁴							Exh. Vent per §120.168						
Spice Name of Item Tag	Occupancy Type ⁵	Conditioned Floor Area (ft ²)	# of Shower heads/ toilets	# of people ⁶	Required Min CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.165 , §120.166 and §120.163 ⁴					
012 ⁷ Nurse	Office space	75			11.2	0	0	DCV NA: Not required per §120.168					

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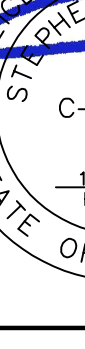

OFFICE OF CALIFORNIA Mechanical Systems REGULATORY										CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE										NRCC-Mech-1	
Project Name:		Lodi MS-2022 HVAC Modernization			Report Page:			(Page 45 of 83)			
Project Address:		345 E. Palm Lane			Date Prepared:			7/25/2022			
J. VENTILATION AND INDOOR AIR QUALITY											
E105 Science Classroom		Lecture/postsecondary classroom		1109		421.4		0		Provided per §120.1648 NA: Not required space type	
17		Total System Required Min OA CFM		421		18		Ventilation for this System Complex?		Yes	
04		05		06		07					
System Name		HP-E5		System Design OA CFM Airflow ^a		421		System Design Transfer Air CFM		DCV Provided per §120.161 (NR and Moist/Moist)	
08		09		10		11		12		13	
Space Name of Item Tag		Mechanical Ventilation Required per §120.1613		Conditioned ^b Floor Area (ft ²)		# of Showers/ head/toilets		# of people ^c		Required Min OA CFM	
		Occupancy Type ^d								Provided per Design CFM	
										DCV or Sensor Controls per §120.1615 , §120.1605 , and §120.1613 ^e	
E106 Science Classroom		Lecture/postsecondary classroom		1109		421.4		0		DCV Provided per §120.1648 NA: Not required space type	
17		Total System Required Min OA CFM		421		18		Ventilation for this System Complex?		Yes	
04		05		06		07					
System Name		HP-F1		System Design OA CFM Airflow ^a		471		System Design Transfer Air CFM		Air Filtration per §120.161 and §120.1602 ² Provided per §120.161 (NR and Moist/Moist) 	
08		09		10		11		12		13	
Space Name of Item Tag		Mechanical Ventilation Required per §120.1613		Conditioned ^b Floor Area (ft ²)		# of Showers/ head/toilets		# of people ^c		Required Min OA CFM	
		Occupancy Type ^d								Provided per Design CFM	
										DCV or Sensor Controls per §120.1615 , §120.1605 , and §120.1613 ^e	

OFFICE OF CALIFORNIA Mechanical Systems										CALIFORNIA ENERGY COMMISSION	
MECHANICAL										NRCC-MCH-4	
CERTIFICATE OF COMPLIANCE										NRCC-MCH-4	
Project Name:		Lod-M5-2022 HVAC Modernization			Report Page:		(Page 46 of 83)				
Project Address:		955 J Street, Los Angeles			Date Prepared:		7/20/2023				
I. VENTILATION AND INDOOR AIR QUALITY											
F101 Science Classroom	Lecture/postsecondary classroom	1110	421.8	0	0	DCV	Provided per §120.106(a)				
						Occ Sensor	NA; Not required space type				
F103 Teachers Work Rm	Office space	327	49	0	0	DCV	NA; Not required per §120.106(b)				
						Occ Sensor	NA; Not required space type				
17	Total System Required Min QM CFM		471	18	Ventilation for this System Complies?		Yes				
04		05		06		07					
System Name	HP-F3	System Design QM CFM Airflow ¹	322	System Design Transfer Air CFM	0	Air Filtration per §120.101 and §141.080(a) ²					
						Provided per §120.101 (NR and Hotel/Motel) ³					
08	09	10	11	12	13	14	15				
Mechanical Ventilation Required per §120.103 ¹		Ehv. Vent per §120.114 ²									
Space Name or Item Tag	Occupancy Type ⁴	Conditioned Floor Area (ft ²)	# of Shower Headset Units	# of people ⁵	Required Min QM CFM	Required Min CFM	Provided per Design CFM				
							DCV or Sensor Controls per §120.106(a) , §120.106(b) , and §120.106(c)				
F107 Classroom	Lecture/postsecondary classroom	847			321.9	0	DCV				
							Provided per §120.106(b)				
							Occ Sensor				
							NA; Not required space type				
17	Total System Required Min QM CFM		322	18	Ventilation for this System Complies?		Yes				
04		05		06		07					
System Name	HP-F2	System Design QM CFM Airflow ¹	452	System Design Transfer Air CFM	0	Air Filtration per §120.101 and §141.080(a) ²					
						Provided per §120.101 (NR and Hotel/Motel) ³					
08	09	10	11	12	13	14	15				

<div style="display: flex; justify-content: space-between;"> OF MECHANICAL Mechanical Systems </div>										<div style="display: flex; justify-content: space-between;"> MEDICAL CALIFORNIA ENERGY COMMISSION </div>							
CERTIFICATE OF COMPLIANCE										NRCC-MCH-2 <small>Project Name: Lead MS-2022 HVAC Modernization Report Page: (Page 47 of 83)</small>							
<small>Project Address: BCS 1500 Hill View Drive Date Prepared: 7/25/2022</small>																	
1. VENTILATION AND INDOOR AIR QUALITY																	
Mechanical Ventilation Required per §120.1463.1																	
Spoke Name of Item Tag	Occupancy Type ¹	Conditioned Floor Area (ft ²)	# of shower/handly/toilets	# of people ²	Required Min CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1463 , §120.1465 , and §120.1463.3 ³									
F102 Science Classroom	Lecture/postsecondary classroom	1111		422.2	0	0	0	DCV	Provided per §120.1464								
								Occ Sensor	NA: Not required space type								
F105 Stor	Corridor	123		18.4	0	0	0	DCV	NA: Not required space type								
								Occ Sensor	NA: Not required space type								
F106 Stor	Corridor	78		11.7	0	0	0	DCV	NA: Not required space type								
								Occ Sensor	NA: Not required space type								
17	Total System Ventilation Required Min GFA CFM				452	18	Ventilation for this System Complex?		Yes								
04				05				06				07					
System Name		HP-F4		System Design Transfer Air CFM Airflow ⁴		442		System Design Transfer Air CFM		15		14		15		Air Filtration per §120.1463.1 and §120.1463.3 ³	
																Provided per §120.1463.1 (DR and Hotel/Motel) ⁵	
08				09				10				16					
Mechanical Ventilation Required per §120.1463.1																	
Spoke Name of Item Tag	Occupancy Type ¹	Conditioned Floor Area (ft ²)	# of Shower/handly/toilets	# of people ²	Required Min CFM	Required Min CFM	Provided per Design CFM	DCV or Sensor Controls per §120.1463 , §120.1465 , and §120.1463.3 ³									
F18 Classroom	Lecture/postsecondary classroom	1163		441.9	0	0	0	DCV	Provided per §120.1464								
								Occ Sensor	NA: Not required space type								

OFFICE OF CALIFORNIA Mechanical Systems		CALIFORNIA ENERGY COMMISSION			
CERTIFICATE OF COMPLIANCE					
Project Name:		Lead MS-2012 HVAC Modernization			
Project Address:		Date Reported:			
		NRC-MCH-4 (Page 48 of 81) 7/2/2022			
V. VENTILATION AND INDOOR AIR QUALITY					
17	Total System Required Min QM CFM	442	18	Ventilation for this System Complex?	Yes
OR		OS		O6	
System Name	HP-F5	System Design QM CFM Airflow ^a	442	System Design Transfer Air CFM	0
Occupancy Type ^d		10	11	12	13
	Mechanical Ventilation Required per ASHRAE 62.1-2019 ^c	Fah. Vent per §120.14(a)	DCV or Sensor Controls per §120.14(b) , §120.14(c) , and §120.14(e)		
Space Name of Item Tag	Occupancy Type ^d	Conditioned Floor Area (ft²)	# of people ^e	Required Min QM CFM	Provided per Design CFM
F109 Classroom	Lecture/postsecondary classroom	1163		441.9	0
				DCV	Provided per §120.14(d)
				Occ Sensor	NA; Not required space type.
17	Total System Required Min QM CFM	442	18	Ventilation for this System Complex?	Yes
OR		OS		O6	
System Name	HP-F6	System Design QM CFM Airflow ^a	322	System Design Transfer Air CFM	0
Occupancy Type ^d		10	11	12	13
	Mechanical Ventilation Required per ASHRAE 62.1-2019 ^c	Fah. Vent per §120.14(a)	DCV or Sensor Controls per §120.14(b) , §120.14(c) , and §120.14(e)		
Space Name of Item Tag	Occupancy Type ^d	Conditioned Floor Area (ft²)	# of people ^e	Required Min QM CFM	Provided per Design CFM
F110 Classroom	Lecture/postsecondary classroom	847		321.9	0
				DCV	Provided per §120.14(d)
				Occ Sensor	NA; Not required space type.
17	Total System Required Min QM CFM	322	18	Ventilation for this System Complex?	Yes

Cad Building Energy Efficiency - 2019 Nonresidential Compliance Registration Date/Time: 2021.10.03 08:40:00 PST Registration Version: Evergreen 16.0

<div style="border: 2px solid black; border-radius: 15px; padding: 10px; margin: 0 auto; width: 80%;"> <p style="margin: 0;">IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT</p> <p style="margin: 5px 0;">APP: 02-120272 INC:</p> <p style="margin: 5px 0; text-align: center;">REVIEWED FOR</p> <p style="margin: 5px 0;">SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/></p> <p style="margin: 5px 0;">DATE: 09/12/2022</p> </div>		
<p style="margin: 0;">730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212</p>		
 <div style="display: inline-block; vertical-align: middle; text-align: left;"> <p style="margin: 0; font-weight: bold; font-size: 24px;">HENRY+</p> <p style="margin: 0; font-weight: bold; font-size: 24px;">ASSOCIATES</p> <p style="margin: 0; font-weight: bold; font-size: 24px;">ARCHITECTS</p> </div>		
		
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold; font-size: 18px;">CONSTRUCTION DOCUMENTS PHASE</div> <div style="text-align: center;"> <p style="font-weight: bold; font-size: 24px; margin: 0;">MECHANICAL</p> <p style="font-weight: bold; font-size: 24px; margin: 0;">TITLE 24 COMPLIANCE</p> <p style="font-weight: bold; font-size: 24px; margin: 0;">DOCUMENTS</p> </div> </div>		
<p>CONSULTANT</p> <div style="text-align: center; margin-top: 10px;">  </div> <p style="text-align: center; margin-top: 10px;">DATE SIGNED: 07/05/22</p>		
PROJECT NO. 22-32-057	REVISIONS	BY
DATE 2/17/2021		
DRAWN BV		
CHECKED MCM		
SCALE AS SHOWN		
CADFILE 91-M7.4.DWG		
UPDATED 8/26/2022		
SHEET NO.		
<p style="font-size: 48px; font-weight: bold; margin: 0;">M7.4</p>		
<p style="margin: 0;">15 OF XX SHEETS</p>		

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STATE OF CALIFORNIA Mechanical Systems <small>(MCC-2016)</small>										CALIFORNIA ENERGY COMMISSION NBC-NACH E-1 <small>(Page #1 of 83)</small> 7/20/2022																																																																									
CERTIFICATE OF COMPLIANCE																																																																																			
Project Name:				Lead MS-2022 HSPC Modification:				Report Type:																																																																											
Project Address:				SAS 5 Main Lane				Date Prepared:																																																																											
J. VENTILATION AND INDOOR AIR QUALITY																																																																																			
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**OFFICE OF CALIFORNIA
Mechanical Systems**

CERTIFICATE OF COMPLIANCE
NRC-00000000

Project Name: _____
Project Address: _____

Load (See 2022 IMC, Modification): _____
 Report Date: _____
 945 S Main Lane
 Date Prepared: _____

CALIFORNIA ENERGY COMMISSION

NRC-00000000
 (Page 3 of 83)
 7/25/2022

L DISTRIBUTION (OUTCWORK AND PIPING)

The answers to the following apply to the following duct system: CUL-87-91 Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <div style="margin-left: 20px;"> <input type="checkbox"/> Outdoors <input type="checkbox"/> in a space directly under a roof that has a factor greater than the factor of the ceiling, or if the roof does not meet the requirements of 14.06 (3)(a)(ii), or if the roof has feed vents or openings to the actively/unconditioned spaces <input type="checkbox"/> in an unconditioned crawl space <input type="checkbox"/> in other unconditioned spaces </div>	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system that is sealed to be in accordance with the California Mechanical Code	

The answers to the following apply to the following duct system: CUL-87-92 Duct leakage testing triggered for these systems? No

11	No	The scope of the project includes only duct systems serving healthcare facilities	
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <div style="margin-left: 20px;"> <input type="checkbox"/> Outdoors <input type="checkbox"/> in a space directly under a roof that has a factor greater than the factor of the ceiling, or if the roof does not meet the requirements of 14.06 (3)(a)(ii), or if the roof has feed vents or openings to the actively/unconditioned spaces <input type="checkbox"/> in an unconditioned crawl space <input type="checkbox"/> in other unconditioned spaces </div>	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system that is sealed to be in accordance with the California Mechanical Code	

Registration Number: _____

Registration Date: 2023-03-03

Registration Version: 1/26/2021

CAL Building Energy Efficiency Standards - 2023 Nonresidential Compliance

Report Version: 2023-07-03

Schematic Version: 2023-07-03

Report Generated: 2023-07-05 16:55:31

MECH-4 OF CALIFORNIA Mechanical Systems MECH-4-101		CALIFORNIA ENERGY COMMISSION NRC-401-NC-101	
CERTIFICATE OF COMPLIANCE		Project #	
Project Name	Unit #	Report Page	7/15/2023
Project Address	Unit #	Report Page	7/15/2023
1. DISTRIBUTION (DUCTWORK AND PIPING)			
The answers to the questions below apply to the following duct system:		HP-C's	Duct leakage testing triggered for these systems?
11	No		No
The scope of the project includes only duct systems serving healthcare facilities.			
12	No		No
The system provides conditioned air for an occupiable space for a constant volume, single zone, space-conditioning system.			
13	Yes		No
The space conditioning system serves less than 5,000 ft ² of conditioned floor area.			
14	No		No
The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:			
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No		
	<input type="checkbox"/> In a space directly under a roof that has a U factor greater than the U factor of the ceiling, or if the roof does not meet the requirements of 1450.140.3 , or if the roof has lead vents or openings to the outside/ unconditioned spaces		
	<input type="checkbox"/> In an unconditioned crawl space		
	<input type="checkbox"/> In other unconditioned spaces		
15	No		No
The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.			
16	No		No
The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.			
17	Yes		No
Duct system that is sealed in accordance with the California Mechanical Code.			
The answers to the questions below apply to the following duct system:		HP-C's	Duct leakage testing triggered for these systems?
11	No		No
The scope of the project includes only duct systems serving healthcare facilities.			
12	No		No
The system provides conditioned air for an occupiable space for a constant volume, single zone, space-conditioning system.			
13	Yes		No
The space conditioning system serves less than 5,000 ft ² of conditioned floor area.			
14	No		No
The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:			
	<input type="checkbox"/> Yes		
	<input type="checkbox"/> No		
	<input type="checkbox"/> In a space directly under a roof that has a U factor greater than the U factor of the ceiling, or if the roof does not meet the requirements of 1450.140.3 , or if the roof has lead vents or openings to the outside/ unconditioned spaces		
	<input type="checkbox"/> In an unconditioned crawl space		
	<input type="checkbox"/> In other unconditioned spaces		
15	No		No
The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.			
16	No		No
The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.			
17	Yes		No
Duct system that is sealed in accordance with the California Mechanical Code.			

NEW MECHANICAL SYSTEMS										CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE										NRCC-MCH-CA	
Project Name:		Lodi HS-2022-High Modestown				Report Date:		7/25/2022			
Project Address:		945 S Main Lane				Date Prepared:					
V. VENTILATION AND INDOOR AIR QUALITY											
05											
F134 Classroom	Lecture/postsecondary classroom	913		340.9	0	0	DCV Occ Sensor	Provided per <u>§120.164</u> NA; Not required space type			
F112 Teachers' Work	Office space	104		15.6	0	0	DCV Occ Sensor	NA; Not required per <u>§120.165</u> NA; Not required space type			
17	Total System Required Min CM OAM			363.5			Ventilation for this System Complete?	Yes			
06											
System Name	SAC-F1	System Design CM OAM Airflow*	136	System Design Transfer Air CM	0		Air Filtration per <u>§120.161</u> and <u>§144.0002</u> † Provided per <u>§120.161</u> (NR and above)				
06											
Spice Name of Item Tag	Mechanical Ventilation Required per <u>§120.161</u> ‡	10	11	12	13	Exh. Vent per <u>§120.164</u>	16				
Occupancy Type*	Conditioned (all other Floor Area (ft²))	271	Hand dryers/toilets	# of people	Required Min CM OAM	Required Min CM OAM	Provided per Design CM OAM				
F221 Conference	Conference/meeting	271		135.5	0	0	DCV Occ Sensor				
17	Total System Required Min CM OAM						Ventilation for this System Complete?	Yes			

* F120/F202ES: System CM shall include both mechanical and natural ventilation for the zone/system.

† F120/F202ES: Supply air systems shall supply the following three system types per [§120.161](#): spaces containing systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

‡ Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.

* See Standards: Tables 202.0.1.A and 202.1.B.

† For lecture halls with fixed seating, the expected number of occupants shall be as determined in accordance with the California Building Code.

NEW MECHANICAL SYSTEMS		CALIFORNIA ENERGY COMMISSION	
PROJECT INFORMATION		NCEC NOTICE Project Name: _____ (Page 14 of 18) 7/5/2022	
CERTIFICATE OF COMPLIANCE			
Project Name: _____		Last RSI-2022 Form Modification Report Page: _____	
Project Address: _____		Date Prepared: _____	
L DISTRIBUTION (DUCTWORK AND PIPING)			
The answers to the questions below apply to the following duct systems:	CUI-BV-B3	Duct leakage testing triggered for these systems?	No
12	No	The scope of the project includes only duct systems serving healthcare facilities.	
13	Yes	Duct system provides conditions or to an occupiable space for a constant volume, single zone, space-conditioning system.	
14	Yes	The space conditioning system serves less than 5,000 H ² of conditioned area.	
15	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> Outdoors <input type="checkbox"/> In a space directly under a roof that has a U factor greater than the U factor of the ceiling, or if the roof does not meet the requirements of §406.1(a)(2), or if the roof has fixed vents or openings to the outside/unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces	
16	Yes	The scope of the project includes extending an existing duct system, which is constructed, installed or sealed with asbestos.	
17	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
The answers to the questions below apply to the following duct systems:	CUI-BV-A3	Duct leakage testing triggered for these systems?	No
12	No	The scope of the project includes only duct systems serving healthcare facilities.	
13	Yes	Duct system provides conditions or to an occupiable space for a constant volume, single zone, space-conditioning system.	
14	Yes	The space conditioning system serves less than 5,000 H ² of conditioned area.	
15	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> Outdoors <input type="checkbox"/> In a space directly under a roof that has a U factor greater than the U factor of the ceiling, or if the roof does not meet the requirements of §406.1(a)(2), or if the roof has fixed vents or openings to the outside/unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces	
16	Yes	The scope of the project includes extending an existing duct system, which is constructed, installed or sealed with asbestos.	
17	Yes	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code.	

CA Building Energy Efficiency Standards - 2023 nonresidential Compliance	Registration Date: _____	Registration Project: Energypoint
Report Version: 2023.1.A(3)	Scheme Version: REV-20200601	Report Generated: 2022-07-05 16:50:11

STATE OF CALIFORNIA Mechanical Systems NCEC FORM 101 CERTIFICATE OF COMPLIANCE		CALIFORNIA ENERGY COMMISSION NCEC FORM 101 Project Name: _____ Project Address: _____ Report Date: _____	
L600 2022 HAKC Model Compliance		Report Date: _____	
L600 DISTRIBUTION (DISTRIBUTION AND PIPING)			
The answers to the questions below apply to the following duct systems:		HP-01	Duct leakage testing triggered for these systems? <input type="checkbox"/> No
11	No The scope of the project includes only duct systems serving healthcare facilities		
12	Yes The scope of the project includes testing for air-to-outdoor leakage for a constant system, single zone, space conditioning system		
13	Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area		
14	No The conditioned surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> In a space under a roof that is a U factor greater than the U factor of the ceiling, or if the roof does not meet the requirements of L600, L610 , or if the roof has fasteners or openings to the outside/unconditioned space <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces		
15	The scope of the project includes an existing duct system, which is constructed, insulated or sealed with aluminex.		
16	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Normative Appendix NA2.		
The answers to the questions below apply to the following duct systems:		HP-02	Duct leakage testing triggered for these systems? <input type="checkbox"/> No
11	No The scope of the project includes only duct systems serving healthcare facilities		
12	Yes The scope of the project includes testing for air-to-outdoor leakage for a constant system, single zone, space conditioning system		
13	Yes The space conditioning system serves less than 5,000 ft ² of conditioned floor area		
14	No The conditioned surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> In a space under a roof that is a U factor greater than the U factor of the ceiling, or if the roof does not meet the requirements of L600, L610 , or if the roof has fasteners or openings to the outside/unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces		
15	The scope of the project includes an existing duct system, which is constructed, insulated or sealed with aluminex.		
16	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Normative Appendix NA2.		
17	Yes The system shall be sealed in accordance with the California Mechanical Code		

STATE OF CALIFORNIA Mechanical Systems <small>SUBSECTION</small>		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRC CMC-6 <small>(Page 12 of 68)</small>	
Project Name: _____		Date Prepared: _____ 7/15/2022	
Project Address: _____		9415 Main Lane	

V. VENTILATION AND INDOOR AIR QUALITY

Duct Leakage Testing requires systems serving rooms that are required by [§190.16\(a\)](#) to have lighting occupancy sensing controls to also have occupancy sensing air controls for ventilation. Examples of spaces which require occupancy sensors include offices 250SF or smaller, multipurpose rooms less than 1,000 SF, classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless exempted by [§190.16\(c\)](#).

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)

The table is used to show compliance with mandatory pipe insulation requirements found in [§120.2](#) and prescriptive requirements found in [§140.6\(f\)](#) for duct leakage testing.

Duct Leakage Testing	The answers to the questions below apply to the following duct system:	AC-1	Duct leakage testing triggered for these systems?	No
11	No The scope of the project includes only duct systems serving healthcare facilities			
12	Yes Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system			
13	No The space conditioning system serves less than 1,000 SF of conditioned floor area			
14	No The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <div style="margin-left: 20px;"><input type="checkbox"/> Outdoors in a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §140.10(a)(1), or if the roof has flash vents or openings to the outside/unconditioned spaces</div> <div style="margin-left: 20px;"><input type="checkbox"/> In an unconditioned crawl space in any unconditioned spaces</div>			
15	No The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.			
16	No The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.			
17	Yes Duct system shall be tested in accordance with the California Mechanical Code			

Registration Number: _____
Registration Date/Time: _____
Registration Provider: Energypart

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Report Version: 2021.1.0(3)
Schema Version: rev.20200601
Report Generated: 2022-07-05 16:55:31

<div style="display: flex; justify-content: space-between;"> STATE OF CALIFORNIA California Mechanical Systems </div> <div style="display: flex; justify-content: space-between; font-size: small;"> PROJECT NAME: _____ ISSUE: _____ </div>		<div style="display: flex; justify-content: space-between;"> CALIFORNIA ENERGY COMMISSION NRC-603-01 </div> <div style="display: flex; justify-content: space-between; font-size: small;"> PROJECT ADDRESS: _____ SCHEMATIC: _____ </div>					
CERTIFICATE OF COMPLIANCE Project Name: _____ Project Address: _____		Last NRC-603-01E Modification Report Date: _____ 945 Main Street Date Prepared: _____ 7/3/2022					
L DISTRIBUTION (DUCTWORK AND PIPING)							
The answers to the questions below apply to the following duct systems: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;"></th> <th style="width: 40%; text-align: left;">HV-C</th> <th style="width: 40%; text-align: left;">Duct leakage testing triggered for these systems?</th> <th style="width: 10%; text-align: center;">No</th> </tr> </table>					HV-C	Duct leakage testing triggered for these systems?	No
	HV-C	Duct leakage testing triggered for these systems?	No				
11	No	The scope of the project includes only duct systems serving healthcare facilities	No				
12	No	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	No				
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	No				
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <div style="margin-left: 20px;"> <input type="checkbox"/> Outdoors <input type="checkbox"/> In a space directly under a roof that has a U factor greater than the U factor of the ceiling, or if the floor does not meet the requirements of §406.30110, or if the roof has fixed vents or openings to the outside/ unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces </div>	No				
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	No				
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	No				
The answers to the questions below apply to the following duct systems: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;"></th> <th style="width: 40%; text-align: left;">HV-C</th> <th style="width: 40%; text-align: left;">Duct leakage testing triggered for these systems?</th> <th style="width: 10%; text-align: center;">No</th> </tr> </table>					HV-C	Duct leakage testing triggered for these systems?	No
	HV-C	Duct leakage testing triggered for these systems?	No				
11	No	The scope of the project includes only duct systems serving healthcare facilities	No				
12	No	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	No				
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	No				
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <div style="margin-left: 20px;"> <input type="checkbox"/> Outdoors <input type="checkbox"/> In a space directly under a roof that has a U factor greater than the U factor of the ceiling, or if the floor does not meet the requirements of §406.30110, or if the roof has fixed vents or openings to the outside/ unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces </div>	No				
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	No				
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	No				
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code	No				

STATE OF CALIFORNIA Mechanical Systems PROJECT NAME: _____ CERTIFICATE OF COMPLIANCE Project Name: _____ Project Address: _____		LMS MDS 2024 MDR Model Declaration Report Page: _____ 961.5 M Number: _____ Date Prepared: _____		CALIFORNIA ENERGY COMMISSION NRC 602-1 Page 39 of 43 7/3/2024	
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1.6 DISTRIBUTION (DISTRIBUTION AND PIPING)					
	The answers to the questions below apply to the following duct systems	HP-03	Duct leakage testing triggered for these systems?		
11	No	The scope of the project includes only duct systems serving healthcare facilities			
12	Yes	Duct system provides conditioned or to an occupiable space for a comfort system, single zone, space conditioning system			
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area			
14	No	The conditioned surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> In a room <input type="checkbox"/> In a space directly under a roof that has a U factor greater than the U factor of the ceiling, or if the roof does not meet the requirements of 4.40.140.1 , or if the roof has fixed vents or openings to the outside/unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces			
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos:			
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.			
Duct system that shall be sealed in accordance with the California Mechanical Code.					
	The answers to the questions below apply to the following duct systems	HP-04	Duct leakage testing triggered for these systems?		
11	No	The scope of the project includes only duct systems serving healthcare facilities			
12	Yes	Duct system provides conditioned or to an occupiable space for a comfort system, single zone, space conditioning system			
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area			
14	No	The conditioned surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> In a room <input type="checkbox"/> In a space directly under a roof that has a U factor greater than the U factor of the ceiling, or if the roof does not meet the requirements of 4.40.140.1 , or if the roof has fixed vents or openings to the outside/unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces			
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos:			
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.			
17	Yes	Duct system that shall be sealed in accordance with the California Mechanical Code.			

Registration Number: _____	Registration Date/Time: _____	Registration Provider: Energusoft
CA Building Energy Efficiency Standards - 2023 Nonresidential Compliance	Report Version: 2023.1.005 Revision: 00000003	Report Generated: 2022-07-05 16:55:31

<div style="display: flex; justify-content: space-between;"> State of California Mechanical Systems </div>		<div style="display: flex; justify-content: space-between;"> CALIFORNIA ENERGY COMMISSION REC-604-2 </div>	
<div style="display: flex; justify-content: space-between;"> CERTIFICATE OF COMPLIANCE Issue: 08/23/2021 HWK: Mechanical </div>		<div style="display: flex; justify-content: space-between;"> Report Page: Page 12 of 40 </div>	
<div style="display: flex; justify-content: space-between;"> Project Name: 945 S Hamilton </div>		<div style="display: flex; justify-content: space-between;"> Date Prepared: 7/5/2022 </div>	
DISTRIBUTION (DUCTWORK AND PIPING)			
The answers to the questions below apply to the following duct systems:	AC-2	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities.	Yes
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	No
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	No
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <input type="checkbox"/> Outdoors </div> <div style="width: 60%;"> <input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §160.101(b), or if the roof has fixed vents or openings to the outside/unconditioned spaces </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <input type="checkbox"/> In an unconditioned crawl space </div> <div style="width: 60%;"> <input type="checkbox"/> In other unconditioned spaces </div> </div>			
15	No	The scope of the project includes extending an existing duct system, which is constructed, installed, or sealed with asbestos.	No
16	Yes	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	No
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code.	No
Duct leakage testing triggered for these systems?			
The answers to the questions below apply to the following duct systems:	SAC-41	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities.	Yes
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	No
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	No
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <input type="checkbox"/> Outdoors </div> <div style="width: 60%;"> <input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §160.101(b), or if the roof has fixed vents or openings to the outside/unconditioned spaces </div> </div>			
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <input type="checkbox"/> In an unconditioned crawl space </div> <div style="width: 60%;"> <input type="checkbox"/> In other unconditioned spaces </div> </div>			
15	No	The scope of the project includes extending an existing duct system, which is constructed, installed, or sealed with asbestos.	No
16	Yes	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	No
17	Yes	Duct system shall be sealed in accordance with the California Mechanical Code.	No

STATE OF CALIFORNIA Mechanical Systems		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE		NRC-CES-16	
Project Name: _____		Project # or ID: _____	
Project Address: _____		Date Prepared: _____	
Last MSB-2021 HWRK Modification _____		Report Page: _____	
DISTRIBUTION (DUCTWORK AND PIPING)			
The answers to the questions below apply to the following duct systems:	HP-C	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities.	
12	Yes	Duct systems provide conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No	The conditioned surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> Outdoors <input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §160.3(a)(1)(ii) or if the roof has fixed vents or openings to the outside/unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct systems that be sealed in accordance with the California Mechanical Code.	
The answers to the questions below apply to the following duct systems:	HP-C	Duct leakage testing triggered for these systems?	No
11	No	The scope of the project includes only duct systems serving healthcare facilities.	
12	Yes	Duct systems provide conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No	The conditioned surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system: <input type="checkbox"/> Outdoors <input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §160.3(a)(1)(ii) or if the roof has fixed vents or openings to the outside/unconditioned spaces <input type="checkbox"/> In an unconditioned crawl space <input type="checkbox"/> In other unconditioned spaces	
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.	
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.	
17	Yes	Duct systems that be sealed in accordance with the California Mechanical Code.	

Registration Number: _____	Registration Date: _____	Registration Provider: Energysight
CA Building Energy Efficiency Standards - 2020 Nonresidential Compliance	Report Version: 2023.1.003 Schemas Version: 20200601	Report Generated: 2022-07-05 16:55:50

STATE OF CALIFORNIA Mechanical Systems <small>FOR MECHANICAL SYSTEMS</small>		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE Project Name: _____ Project Address: _____		NRC NO. 20-001 Page # of 4 (of 4) 7/15/2022	
LHM MS-2022 HVAC Model Declaration		Report Paper: Date Prepared: _____	
Unit 3 - Mechanical System			
(D) DISTRIBUTION (DUPLICATEWORK AND PIPING)			
The answers to the questions below apply to the following duct systems:		Duct ID# _____	Duct leakage testing triggered for these systems? No
11	No	The scope of the project includes only duct systems serving healthcare facilities.	
12	Yes	The scope of the project includes all or an unoccupiable space for a constant volume, single zone, space conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
<input type="checkbox"/> Outside			
<input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §16.50(a)(1)(ii) , or if the roof has fixed vents or openings to the outside/unconditioned spaces			
<input type="checkbox"/> In an unconditioned crawl space			
<input type="checkbox"/> In other unconditioned spaces			
15	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Duct system shall be sealed in accordance with the California Mechanical Code.		
The answers to the questions below apply to the following duct systems:		Duct ID# _____	Duct leakage testing triggered for these systems? No
11	No	The scope of the project includes only duct systems serving healthcare facilities.	
12	Yes	The scope of the project includes all or an unoccupiable space for a constant volume, single zone, space conditioning system.	
13	Yes	The space conditioning system serves less than 5,000 ft ² of conditioned floor area.	
14	No	The combined surface area of the ducts in the following locations is more than 25% of the total surface area of the entire duct system:	
<input type="checkbox"/> Outside			
<input type="checkbox"/> In a space directly under a roof that has a U-factor greater than the U-factor of the ceiling, or if the roof does not meet the requirements of §16.50(a)(1)(ii) , or if the roof has fixed vents or openings to the outside/unconditioned spaces			
<input type="checkbox"/> In an unconditioned crawl space			
<input type="checkbox"/> In other unconditioned spaces			
15	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.		
16	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.		
17	Duct systems shall be sealed in accordance with the California Mechanical Code.		
Registration Number: _____		Registration Date/Time: _____	
CA Building Energy Efficiency Standards – 2020 Nonresidential Compliance		Report Version: 2021.1.003 Report No.: 2022-07-00003	
		Report Generated: 2022-07-05 15:55	

<div style="border: 1px solid black; border-radius: 15px; padding: 10px; text-align: center;"> <p>IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT</p> <p>APP: 02-120272 INC:</p> <p>REVIEWED FOR</p> <p>SS <input checked="" type="checkbox"/> FLS <input checked="" type="checkbox"/> ACS <input checked="" type="checkbox"/></p> <p>DATE: 09/12/2022</p> </div>		
<p style="text-align: right;">730 Howe Avenue, Suite 450 Sacramento, CA 95825 Phone: 916.921.2112 Fax: 916.921.2212</p>		
<div style="display: flex; align-items: center;"> <div> <p>HENRY+ ASSOCIATES ARCHITECTS</p> </div> </div>		
<div style="text-align: center;"> </div>		
<div style="display: flex; justify-content: space-between; padding: 10px;"> <div style="width: 30%;"> <p>MODERNIZATION LODI MIDDLE SCHOOL (INCREMENT 1)</p> </div> <div style="width: 30%; text-align: center;"> <p>CONSTRUCTION DOCUMENTS PHASE</p> </div> <div style="width: 30%;"> <p>MECHANICAL TITLE 24 COMPLIANCE DOCUMENTS</p> </div> </div>		
<p>CONSULTANT</p> <div style="text-align: center;"> </div> <p>DATE SIGNED: 07/05/22</p>		
PROJECT NO. 22-32-057	REVISIONS	BY
DATE 2/17/2021		
DRAWN BV		
CHECKED MCM		
SCALE AS SHOWN		
CADFILE 91-M7.5.DWG		
UPDATED 8/26/2022		
SHEET NO.		
M7.5		
15 OF XX SHEETS		

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STATE OF CALIFORNIA Mechanical Systems <small>WELLSVILLE</small>		CALIFORNIA ENERGY COMMISSION <small>NCEC-MICH-4</small> (Page 7) Of 8) <small>7/5/2022</small>	
CERTIFICATE OF COMPLIANCE			
Project Name:	L06 MS-2022 HVAC, Modernization [Report Page]		
Project Address:	945 S Hays Lane [Date Prepared]		
<p>O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE</p> <p>Sections have been made based on information provided in previous tables of this document. If any section needs to be changed, please explain why in Table E Additional Remarks.</p> <p>These documents must be provided to the building inspector during construction and can be found online at: https://www.energy.ca.gov/sites/default/files/2019-08/documents/Nonsentimental_Documents/HVAC/</p>			
Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
ACAL; AC; 2-CAC A1; Carrier Split-5 ton; Carrier Split-5 ton; Carrier Split-5 ton; Carrier Split-5 ton; Carrier-4 ton HVAC; Carrier-3 ton HVAC; Carrier-4 ton HVAC; Carrier-4 ton HVAC; Carrier-4 ton HVAC; Carrier-4 ton HVAC; Carrier-4 ton HVAC; Carrier-4 ton HVAC; Carrier-3 ton HVAC; Carrier-3 ton HVAC; Carrier-5 ton HVAC; Carrier-4 ton HVAC; Carrier-4 ton HVAC; Carrier-4 ton HVAC; Carrier-3 ton HVAC; Carrier-4 ton HVAC; Carrier-4 ton HVAC; Carrier-3 ton HVAC; Carrier-3 ton HVAC; Carrier-5 ton HVAC; Carrier-5 ton HVAC; Carrier-5 ton HVAC; HVAC; Carrier-6 ton HVAC; Carrier-5 ton HVAC; Carrier-5 ton HVAC; Carrier-4 ton HVAC; Carrier-4 ton HVAC; Carrier-5 ton HVAC; Carrier-5 ton HVAC; Carrier-5 ton HVAC; Carrier-3		□	□

Registration Number:
Registration Date/Time:
Registration Reported: Energypoint

CAL Building Energy Efficiency Standards - 2019 Nonsentimental Compliance
Report Version: 2021.1.023
Report Generated: 2022-07-05 16:55:31

Schema Version: 20200603

[illegible][illegible][illegible][illegible]

STATE OF CALIFORNIA Mechanical Systems NRC-MCH-4		CALIFORNIA ENERGY COMMISSION NRC-MCH-4					
CERTIFICATE OF COMPLIANCE		Report Phase: Page 12 of 111					
Project Name: Lodi MS-2022 HVAC Modernization		S45 S Horn Lane (Date Prepared: 7/5/2022)					
Project Address:							
0. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/files/2013/standards/2013_compliance_documents/Nonresidential_Documents/NRCA/							
Form Title		Systems/Spaces To Be Field Inspected					
NRCA-MCH-18-A Energy Management Control Systems		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Verified</td> <td style="width: 50%;">Field Inspector</td> </tr> <tr> <td style="text-align: center;">Pass</td> <td style="text-align: center;">Fail</td> </tr> </table>		Verified	Field Inspector	Pass	Fail
Verified	Field Inspector						
Pass	Fail						
		1 ton HVAC Carrier 4-ton HVAC SAC-11					
1. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION There are no NRCV forms required for this project.							
2. MANDATORY MEASURES DOCUMENTATION LOCATION This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.							
M1		M2					
Compliance with Mandatory Measures documented through Mandatory Measures Note Block		Yes	M-Sheets				



[illegible]

STATE OF CALIFORNIA Mechanical Systems <small>NRC-MCH-1</small>		CALIFORNIA ENERGY COMMISSION	
CERTIFICATE OF COMPLIANCE <small>NRC-MCH-1</small>		NRC-MCH-4	
Project Name: <u>Los Angeles 2022 HVAC Modernization</u>		Report Page: (Page 79 of 80)	
Project Address: <u>945 S Sun Land</u>		Date Prepared: <u>7/26/2023</u>	
O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/title24/2019_standards/2019_compliance_documents/Nonresidential_documents/NRCA/			
Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-11 A Automatic Demand Shed Controls	100 HVAC Carrier 4-ton HVAC SAK-F1		

Registration Number: _____
 CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time: _____
 Report Version: 2023.1.003
 Schema Version: rev.20200601

Registration Provider: Energysoft
 Report Generated: 2022-07-05 16:55:31

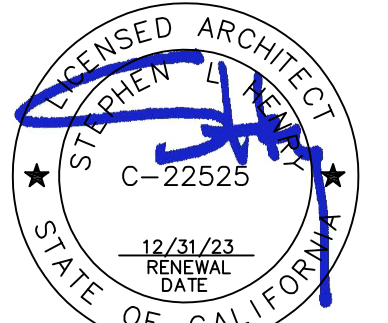
STATE OF CALIFORNIA Mechanical Systems NMC-MODE 4		CALIFORNIA ENERGY COMMISSION Form EES-610 (8/1)	
CERTIFICATE OF COMPLIANCE Project Name: _____ Project Address: _____		NMC-MODE 4 Page 63 of 63 7/25/2022	
Last Mod: 2022 HXRC Modernization		Report Page: _____ Date Prepared: _____	
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.			
Declaration Author Name: Aaron Wintermuth		Declaration Author Signature: 	
Company: Capital Engineering Consultants Inc.		Signature Date: 2022-07-05	
11020 San Center Dr #100 Rancho Cordova CA 95670		CEA HXRC Compliance Identification (if applicable): P16-851-3500	
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury under the laws of the State of California:			
1. The information provided on this Certificate of Compliance is true and correct. 2. I am duly authorized by the Board of the California and Petroleum Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy ratings and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of the California Energy Code and the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance can be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable jurisdictions. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation for the building permit(s) to be issued for the building, sewer or water utility.			
Responsible Designer Name: Tom Doud		Responsible Designer Signature: 	
Company: Capital Engineering Consultants, Inc		Date Signed: 2022-07-05	
Address: 11020 San Center Dr., Suite 100 Rancho Cordova CA 95670		Permit Number: PE 23836 Project: P16-851-3500	
CA Building Energy Code Standards - 2020 Nonresidential Compliance Report Version: 2023.1.003 Schema Version: 00-20200601 Report Generated: 2022-07-05 16:55:31			

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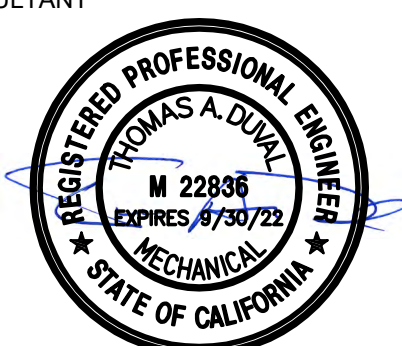
STATE OF CALIFORNIA		CALIFORNIA ENERGY COMMISSION	
Mechanical Systems			
NRC/MCH-12-I		NRC/MCH-12-E	
CERTIFICATE OF COMPLIANCE		(Page #1 of 8)	
Project Name:	Log MS-2022 HVAC Modernization Report Paper		PRC# 2022-07-05
Project Address:	945 S Ham Lane Date Prepared:		7/5/2022
O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE			
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_documents/NRCA/			
Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-MCH-12-A FDD for Packaged Direct Expansion Units	AC A1; AC A2; Carrier-S ton HVAC; Carrier-S ton HVAC; Carrier-S ton HVAC; Carrier-S ton HVAC; Carrier-S ton HVAC; Carrier-S ton HVAC; Carrier-S ton HVAC; Carrier-S ton HVAC;	<input type="checkbox"/>	<input type="checkbox"/>

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



MODERNIZATION LODI MIDDLE SCHOOL (INCREMENT 1)	CONSTRUCTION DOCUMENTS PHASE MECHANICAL TITLE 24 COMPLIANCE DOCUMENTS
--	--



DATE SIGNED: 07/05/22

PROJECT NO. 22-32-057	REVISIONS	BY
DATE 2/17/2021		
DRAWN BV		
CHECKED MCM		
SCALE AS SHOWN		
CADFILE 91-M7.7.DWG		
UPDATED 8/26/2022		
SHEET NO.		



M7.7

DEMOLITION GENERAL NOTES	
1.	INFORMATION SHOWN RELATIVE TO EXISTING CONDITIONS IS BASED UPON AVAILABLE RECORDS AND DATA. THEREFORE, IT SHALL BE REGARDED AS AN APPROXIMATION ONLY. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT. PRIOR TO SUBMITTING BID AND/OR BEFORE START OF ANY ELECTRICAL WORK, INSPECT ALL EXISTING LOCATIONS AND CONDITIONS AND ASCERTAIN WORK REQUIRED TO CLEAR PROJECT AREA OF ALL EXISTING ELECTRICAL ITEMS NOT BEING REUSED OR EXISTING TO REMAIN AS IS. REPORT ALL DISCREPANCIES AND COORDINATE ALL DEMOLITION WORK WITH THE OWNER'S REPRESENTATIVE. MAINTAIN SERVICE TO EXISTING ELECTRICAL EQUIPMENT IN AREAS ADJACENT TO REMODEL AREA, UNLESS OTHERWISE NOTED.
2.	PROTECT ALL EXISTING ELECTRICAL EQUIPMENT ON EXISTING WALLS AND CEILINGS NOT REQUIRED TO BE DEMOLISHED UNLESS OTHERWISE NOTED. DELIVER ALL EXISTING ELECTRICAL EQUIPMENT IN REMODELED AREAS, THAT ARE REMOVED AND NOT REUSED ELSEWHERE, AND ARE DEEMED TO BE SALVAGEABLE IN THE JUDGMENT OF THE CONTRACTOR AND OWNER'S REPRESENTATIVE, TO THE OWNER. DELIVER ALL SALVAGED ELECTRICAL EQUIPMENT AND OTHER ITEMS TO A LOCATION DESIGNATED BY THE OWNER'S REPRESENTATIVE. REMOVE FROM SITE, ALL OTHER ELECTRICAL EQUIPMENT, HARDWARE, AND OTHER ITEMS THAT ARE DEEMED UNSALVAGEABLE BY CONTRACTOR AND THE OWNER'S REPRESENTATIVE.
3.	CUT, PATCH AND MATCH IN ALL AREAS AFFECTED BY REMOVAL OF ELECTRICAL EQUIPMENT AND DEVICES.
4.	CAUSE AS LITTLE INTERFERENCE OR INTERRUPTION OF EXISTING UTILITIES AND SERVICES AS POSSIBLE. SCHEDULE ANY POWER OR OTHER UTILITY SHUTDOWN WITH THE OWNER'S REPRESENTATIVE. SHUTDOWNS WHICH MAY BE REQUIRED SHALL BE PRESENTED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR APPROVAL TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. SHUTDOWN WORK SHALL BE PERFORMED ON OVERTIME HOURS IF SO DIRECTED BY OWNER'S REPRESENTATIVE.
5.	DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, OUTLETS, DEVICES, CONDUIT, WIRING AND OTHER ELECTRICAL ITEMS, WHETHER SHOWN OR NOT, FROM EXISTING CEILINGS AND WALLS WHICH ARE TO BE DEMOLISHED. MAINTAIN CIRCUIT CONTINUITY TO ALL EXISTING REMAINING DEVICES, UNLESS OTHERWISE NOTED.
6.	COORDINATE WITH OTHER TRADES AND PROMPTLY TRANSMIT ALL INFORMATION REQUIRED BY THEM. COORDINATE THE SEQUENCE OF DEMOLITION WITH OTHER TRADES TO ENSURE THAT ALL WORK PROCEEDS WITH A MINIMUM OF INTERFERENCE AND DELAY.
7.	RELOCATE ALL CONDUITS THAT ARE TO REMAIN IN SERVICE WHICH ARE IN A LOCATION TO CONFLICT WITH NEW WORK.
8.	WHEREVER EXISTING ELECTRICAL DEVICES, PANELS, CONDUITS, CABLES, AND OTHER ITEMS, CONFLICT WITH REMODEL WORK, WHETHER SHOWN OR NOT, RELOCATE THESE ITEMS TO COORDINATE WITH NEW CONSTRUCTION.
9.	REUSE EXISTING CONDUITS AND WIRING WHEREVER POSSIBLE UNLESS OTHERWISE NOTED TO BE REMOVED.
10.	PROVIDE FIRE RATED BACKBOXES TO MAINTAIN FIRE RATING OF CEILING OR WALLS AT LOCATIONS WHERE RECESSED ELECTRICAL EQUIPMENT SUCH AS LIGHT FIXTURES, SWITCHES, RECEPTACLES, PANELS, AND OTHER ITEMS, ARE INSTALLED IN RATED WALLS OR CEILINGS.
11.	PROVIDE PROTECTIVE COVERING OVER EXISTING EQUIPMENT WHEN INSTALLING ALL NEW WORK.
12.	PROVIDE NEW PANEL DIRECTORIES FOR EXISTING PANELS INVOLVED IN THIS RENOVATION WORK, REFLECTING ALL CHANGES TO CIRCUIT DESIGNATIONS.
13.	PROTECT EXISTING FIRE ALARM NOTIFICATION AND INITIATION SYSTEMS DURING CONSTRUCTION.

Applicable Code: 2019 CBC 02/05/2020 Revised: 02/14/2020

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 2019 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26 and 30.

1. All permanent equipment and components.
2. Temporary, movable, or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having flexible cable.
3. Temporary, movable, or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure, but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions.

A. Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.

B. Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Section 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2019 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):

MP MD PP E - Option 1: Detailed on the approved drawings with project specific notes and details.

MP MD PP E - Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM#) # _____.

ELECTRICAL SYMBOL LIST	
	JUNCTION BOX - SIZE AS REQUIRED BY CODE
	DUPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" A.F.F. FROM THE BOTTOM OF OUTLET BOX. TYPICAL FOR ALL CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE (LETTER "A" SHOWN ADJACENT TO OUTLET DESIGNATES MOUNTED HORIZONTALLY ABOVE COUNTER).
	QUADPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" A.F.F. FROM THE BOTTOM OF OUTLET BOX.
	SPECIAL RECEPTACLE AS SHOWN ON PLANS +18" A.F.F. FROM THE BOTTOM OF OUTLET BOX.
	CONDUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" CONDUIT. TYPICAL FOR ALL CONDUITS.
	FLEXIBLE CONDUIT CONCEALED. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" MINIMUM DIAMETER CONDUIT.
	CONDUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.
	CONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET
	CONDUIT TURNED AND RISED UP
	CONDUIT TURNED AND DROPPED DOWN
	CONDUIT WITH CAP
	CONDUIT STUB WITH INSULATED BUSHING
	EXISTING CONDUIT AND WIRING
	EXISTING PANELBOARD - SURFACE MOUNTED
	EXISTING PANELBOARD - FLUSH MOUNTED
	TERMINAL CABINET
	SWITCHBOARD, DISTRIBUTION PANEL, OR MOTOR CONTROL CENTER
	EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, FUSED WITH FUSE SIZE INDICATED
	EQUIPMENT DISCONNECT SWITCH - EXTERNALLY OPERATED, NON-FUSIBLE
	EQUIPMENT CONTROLLER
	EQUIPMENT MOTOR POWER CONNECTIONS PART OF ELECTRICAL WORK
	ENCLOSED LUMINAIRE - SURFACE MOUNTED
	FIRE ALARM MECHANICAL DUCT DETECTOR - COORDINATE LOCATION WITH HVAC DRAWINGS AND CONTRACTOR.
	MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL PLANS
	DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME SHEET
	DRAWING PLAN OR DETAIL DESIGNATION - "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, "E-1" DENOTES SHEET NUMBER

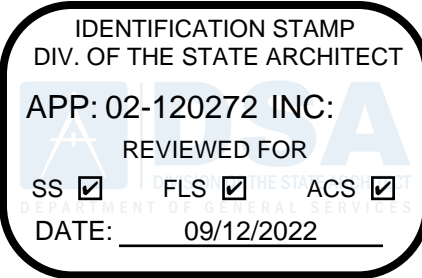
SYMBOL LIST NOTES:

1. EXISTING ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT LIGHTLY AND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION.
2. VERIFY ON SITE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE DEDICATED PANELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING AND EQUIPMENT FOREIGN TO THE PANEL BOARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN OBJECTS IMPEDE THE DEDICATED PANELBOARD AREAS.

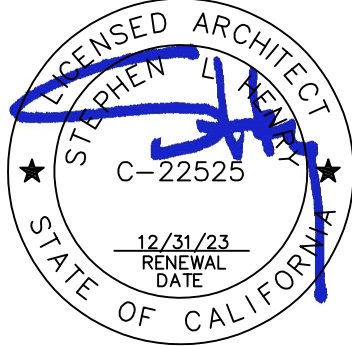
GENERAL NOTES:	
1.	CLOSELY COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR. NOT ALL ELECTRICAL INFORMATION MAY BE SHOWN ON ELECTRICAL PLANS. ELECTRICAL CONTRACTOR SHALL EXAMINE MECHANICAL DRAWINGS BEFORE COMMENCE WORK.
2.	COORDINATE LOCATION OR NEW PANELS WITH THE ARCHITECT BEFORE ROUGH IN
3.	COORDINATE EXACT ROUTE OF NEW CONDUITS WITH THE ARCHITECT BEFORE ROUGH IN. ELECTRICAL CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE ARCHITECT FOR CONDUIT ROUTE AND ROOF PENETRATION LOCATION BEFORE ROUGH IN.
4.	UPDATE PANEL DIRECTORY AT EXISTING PANELS WHERE ADDED NEW CIRCUIT BREAKERS OR DISCONNECTED LOAD.

ELECTRICAL SHEET INDEX		
No. OF SHEETS	DRAWING No.	DRAWING DESCRIPTIONS
1	E0.1	ELECTRICAL SHEET INDEX, SYMBOL LIST AND ABBREVIATIONS
2	E1.1	SITE PLAN - ELECTRICAL
3	E2.1.A	DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING A
4	E2.2.A	REMODEL ROOF PLAN - ELECTRICAL - BUILDING A
5	E2.1.B	DEMOLITION/REMODEL ROOF PLANS - ELECTRICAL - BUILDING B
6	E2.1.C	DEMOLITION/REMODEL ROOF PLANS - ELECTRICAL - BUILDING C
7	E2.4.C	LIGHTING - BUILDING C
8	E2.1.D	DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING D
9	E2.2.D	REMODEL ROOF PLAN - ELECTRICAL - BUILDING D
10	E2.4.D	LIGHTING - BUILDING D
11	E2.1.E	DEMOLITION/REMODEL ROOF PLANS - ELECTRICAL - BUILDING E
12	E2.4.E	LIGHTING - BUILDING E
13	E2.1.F	DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING F
14	E2.2.F	REMODEL ROOF PLAN - ELECTRICAL - BUILDING F
15	E2.4.F	LIGHTING - BUILDING F
16	E3.1	ONE LINE DIAGRAM - POWER, PANEL SCHEDULE
17	E5.1	ELECTRICAL DETAILS

ABBREVIATIONS			
A	AMPERES	MAX.	MAXIMUM
AC	ALTERNATING CURRENT	MFR.	MANUFACTURER
A.F.F.	ABOVE FINISHED FLOOR	MIN.	MINIMUM
A.I.C.	AMPERE INTERRUPTING CAPACITY	MTD.	MOUNTED
AMP	AMPERE	N	NEUTRAL
AWG	AMERICAN WIRE GAUGE	(N)	NEW
BKR	BREAKER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
C.	CONDUIT	N.I.C.	NOT IN CONTRACT
C.B.	CIRCUIT BREAKER	PFB	PROVISIONS FOR FUTURE CIRCUIT BREAKER
CKT	CIRCUIT	PH	PHASE
C.O.	CONDUIT ONLY, WITH PULL WIRE	(R)	REMOVE
DC	DIRECT CURRENT	(RE)	RELOCATE EXISTING
(E)	EXISTING	RCPT.	RECEPTACLE
(ER)	EXISTING RELOCATED	S.M.S	SHEET METAL SCREW
EMT	ELECTRICAL METALLIC CONDUIT	SWBD	SWITCHBOARD
(F)	FUTURE	SYS	SYSTEM
GA.	GAUGE	TYP.	TYPICAL
GND	GROUND	UG	UNDERGROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UL	UNDERWRITERS LABORATORY
HP	HORSEPOWER	V	VOLT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	VA	VOLT-AMPERES
IsC	SHORT CIRCUIT AMPERES	W	WIRE, WATT
ISO	ISOLATED	WP	WEATHER PROTECTED
K	THOUSAND	XFMR	TRANSFORMER
KV	KILO VOLT		
KVA	KILO VOLT AMPERE		
KW	KILO WATT		



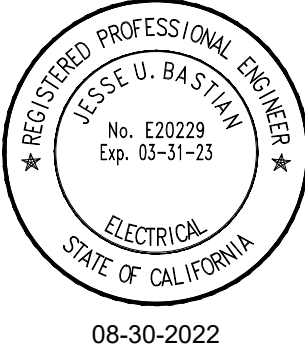
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Fax: 916.921.2212



HVAC REPLACEMENT
LODI MIDDLE SCHOOL

ELECTRICAL SHEET INDEX,
SYMBOL LIST AND
ABBREVIATIONS

CONSULTANT



08-30-2022

PROJECT NO. 22-32-057	REVISIONS	BY
DATE 06/30/2022		
DRAWN SG		
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SCALE AS NOTED		
CADFILE		
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E0.1

OF SHEETS

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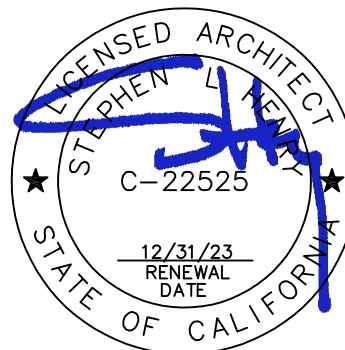
1 SITE PLAN - ELECTRICAL
E1.1 SCALE :1" = 30'-0"

- NUMBERED NOTES:
- 1 PROVIDE (N) CIRCUIT BREAKERS IN (E) SPACES PER ONE LINE DIAGRAM - POWER.
 - 2 (N) NEMA 3R GUTTER MOUNTED HIGH ON BUILDING WALL. REMOVE (E) GUTTER AND ROUTE (E) AND (N) CONDUITS/CONDUCTORS THROUGH (N) GUTTER TO LOW ROOF OF GYM BUILDING. (N) GUTTER SHALL BE OF ADEQUATE SIZE TO HOUSE (E) AND (N) CABLES.
 - 3 PROVIDE NEMA 4X ENCLOSURE 24"x24"x6". MOUNT PER 1/E5.1.
 - 4 RUN CONDUIT ON ROOF PER 1/E5.1. REFER TO ONE LINE DIAGRAM - POWER FOR CONDUITS/CONDUCTORS.
 - 5 PROGRAM (E) FIRE ALARM SYSTEM FOR ADDED DUCT DETECTOR IN BUILDING A.
 - 6 (E) EXPANSION JOINT. PROVIDE LIQUIDTIGHT FLEXIBLE METAL CONDUIT OVER JOINT. ACCOMMODATE 6" RELATIVE MOTION BETWEEN RIGID STEEL CONDUITS.

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Tel: (916) 923-4400
PROJECT #: 22076.21
PROJECT MGR: Sinisha Glisic

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-120272 INC:
REVIEWED FOR
SS ☒ FLS ☒ ACS ☒
DATE: 09/12/2022

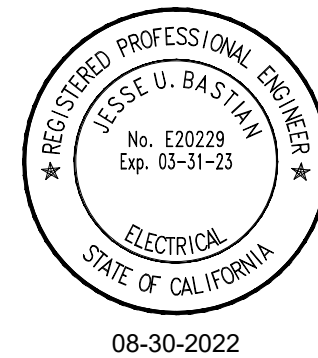
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HVAC REPLACEMENT
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SITE PLAN - ELECTRICAL

CONSULTANT



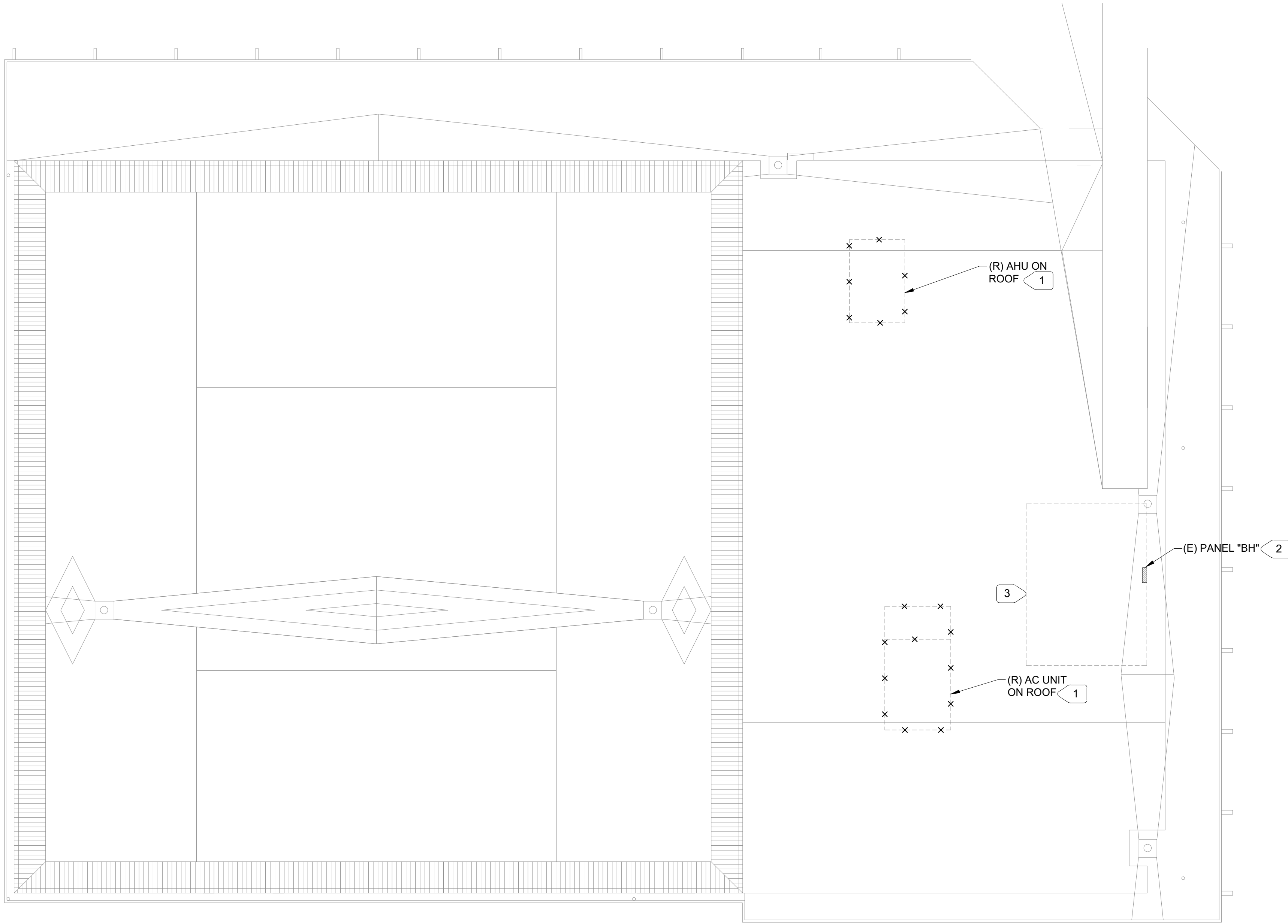
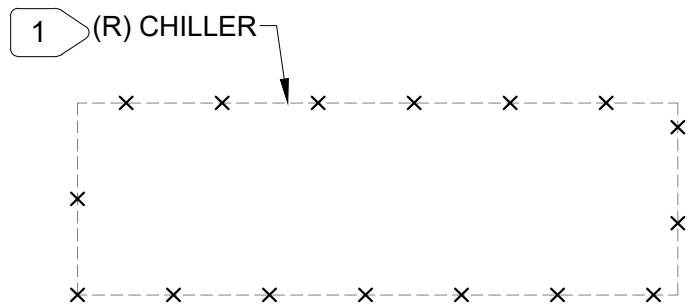
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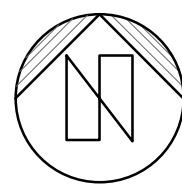
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1
E2.1.A

DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING A

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

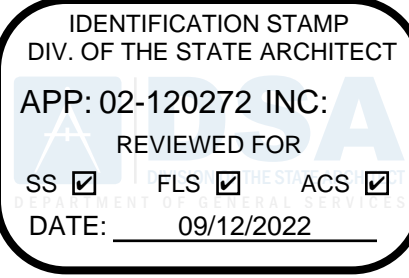


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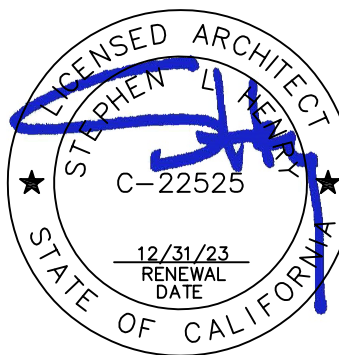
- 1 DISCONNECT UNIT. REMOVE WIRING BACK TO SOURCE.
- 2 REMOVE (E) NOT USED CIRCUIT BREAKERS.
- 3 DISCONNECT (2) (E) BOILERS, ASSOCIATED PUMPS, AND OTHER ELECTRICAL CONNECTION TO THE BOILERS TO BE REMOVED LOCATED IN MECHANICAL ROOM. REMOVE WIRING BACK TO SOURCE. REVISE PANEL SCHEDULE FROM LOAD HAS BEEN REMOVED. PROTECT (E) DOMESTIC WATER HEATER CONNECTION. COORDINATE WITH MECHANICAL CONTRACTOR BEFORE START DEMOLITION.



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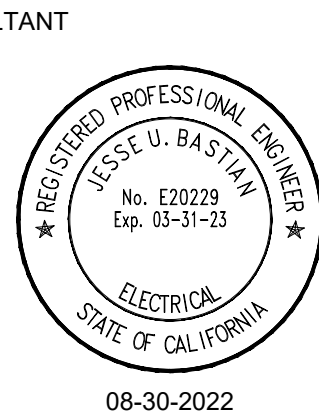


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HVAC REPLACEMENT
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DEMOLITION ROOF PLAN -
ELECTRICAL -
BUILDING A



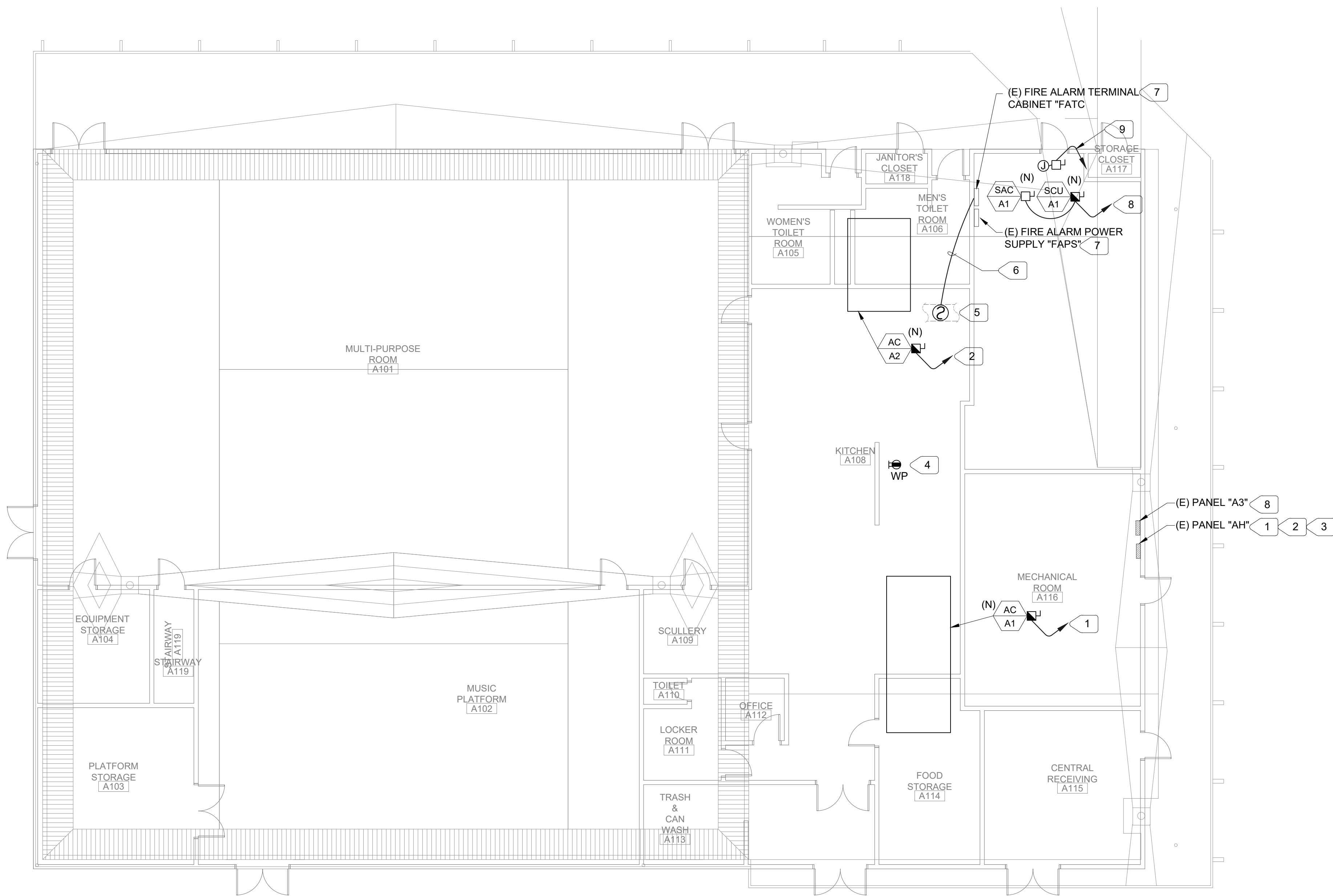
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E2.1.A

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1 REMODEL ROOF PLAN - ELECTRICAL - BUILDING A
E2.2.A SCALE :1/8" = 1'-0"

NUMBERED NOTES:

- 1 PROVIDE (N) CIRCUIT BREAKER 175/3 IN (E) SPACE AND CONNECT (N) UNIT TO THAT CIRCUIT BREAKER. RUN 2"C-3#2/0, 1#4G.
- 2 PROVIDE (N) CIRCUIT BREAKER 50/3 IN (E) SPACE AND CONNECT (N) UNIT TO THAT CIRCUIT BREAKER. RUN 1"C-3#6, 1#10G.
- 3 PROVIDE BLANK COVER OVER UNUSED SPACES.
- 4 PROVIDE ON ROOF IN METAL WP ENCLOSURE WITH WHILE-IN-USE COVER.
- 5 PROVIDE (N) DUCT DETECTOR - EDWARDS SIGA-SD. INSTALL AS DIRECTED BY MECHANICAL. CONNECT INTO ADDRESSABLE INITIATION CIRCUIT AT (E) FIRE ALARM TERMINAL CABINET "FATC". PROVIDE WITH LOCKABLE TEST STATION. INSTALL TEST STATION AS DIRECTED IN FIELD.
- 6 RUN WEST PENN 990 CABLE THROUGH 1/2" BETWEEN (N) DUCT DETECTOR AND (E) FIRE ALARM TERMINAL CABINET "FATC".
- 7 PER DSA APPL. #02-111649, DATED 02/28/2011.
- 8 PROVIDE (N) 40/2 CIRCUIT BREAKER IN PANEL "A3". CONNECT (N) UNIT SCU-A1 TO THAT CIRCUIT BREAKER USING 1"C-2#8, 1#10G. INDOOR UNIT SAC-A1 IS FED FROM OUTDOOR UNIT SCU-A1. PROVIDE ALL NECESSARY CONNECTIONS.
- 9 PROVIDE (N) 20/1 CIRCUIT BREAKER IN PANEL "A3". CONNECT (N) CONDENSATE PUMP, REFER TO MECHANICAL DRAWINGS.

GE
Security

EST Fire & Life Safety
Intelligent Initiating Devices

Overview

The GE Security SuperDuct Signature Series smoke detector is the most advanced and most reliable device in its class. Designed for easy installation and superb reliability, SuperDuct represents the perfect balance of practical design and advanced technology.

SuperDuct detectors feature a unique design that speeds installation and simplifies maintenance. Removable dust filters, conformally coated circuit boards, and optional water-resistant gaskets keep contaminants away from components, ensuring years of trouble-free service. When cleaning is required, the assemblies come apart easily and snap back together in seconds.

A Signature Series photoelectric sensor is incorporated into the design of each SIGA-SD duct smoke detector. This sensor inherits the power and benefits of this exceptional line of intelligent devices.

Signature Series sensors gather analog information from their smoke sensing elements and convert it into digital signals. The sensor measures and analyzes these signals and compares the information to historical readings and time patterns to make an alarm decision. Digital filters remove signal patterns that are not typical of fire, which virtually eliminates unwanted alarms.

WARNING: Duct detectors have specific limitations. Duct detectors are not a substitute for open area smoke detectors. Duct detectors are not a substitute for early warning detection or a replacement for building regular fire detection systems. Smoke detectors are not designed to detect two gases which can build up to hazardous levels in some fires. These devices will not operate without electrical power. As fires frequently cause power interruptions, GE Security suggests you discuss further safeguards with your local fire protection specialist.

Intelligent Duct Smoke Detector SIGA-SD



Data Sheet 85001-0348 Issue 4
Not to be used for installation purposes. Page 3 of 4

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION OFFICE OF THE STATE FIRE MARSHAL FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM LISTING SERVICE



LISTING No. 3242-1657-0223
CATEGORY: 3242 -- DUCT SMOKE DETECTOR, PHOTO, (W) OR (WIO BASE)
LISTEE: EDWARDS, A Division of UTC Fire & Security Americas Corporation, Inc. 8985 Town Center Parkway, Bradenton, FL 34202
Contact: Jewell Conover (941) 738-4359 Fax (941) 308-8123
Email: rhonda.micochero@carrier.com
DESIGN: Models ESD-SJ, ESD-ST, TSD-SJ, TSD-ST, TSD-SJG, TSD-SJCO2, TSD-STCO2, SIGA-SD, SD-2W, ESD-2W, E-PDD, and FX-PDD photoelectric type duct smoke detectors. The duct detector consists of a thermoplastic enclosure, recognized component printed wiring board, a listed duct detector subassembly, and an inlet coupling tube and an exhaust tube along with gaskets. Refer to listee's data sheet for additional detailed product description and operational considerations.
RATING: 15.2-19.95 VDC
16-30 VDC: SD-2W, ESD-2W
INSTALLATION: In accordance with listee's printed installation instructions and applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.
MARKING: Listee's name, model number, electrical rating, and UL label.
APPROVAL: Listed as photoelectric type, duct smoke detectors for use with separately listed compatible fire alarm control units in conjunction with Models ESD-CJ, -CT or TSD-CJ, -CT series duct smoke detector controller (CSFM Listing No. 3240-1657-225). Models SIGA-SD, E-PDD, FX-PDD, SD-2W or ESD-2W does not require a listed duct smoke detector controller. Suitable for use in ducts where air velocity is between 100 and 4000 fpm.
NOTE: *Models ESD-SJ, ESD-ST, TSD-SJ, TSD-SJG, TSD-SJCO2, SIGA-SD, SD-2W and ESD-2W are suitable for use in ambient temperatures of -4°F to 158°F.
Refer to listee's Installation Instruction Manual for details.
1. CO2 sensing features were not examined.
2. Formerly 3242-1591-223

*Corrected 3-22-13 BH



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2022** Listing Expires **June 30, 2023**
Authorized By: **VICTOR WONG**, Program Coordinator
Fire Engineering Division



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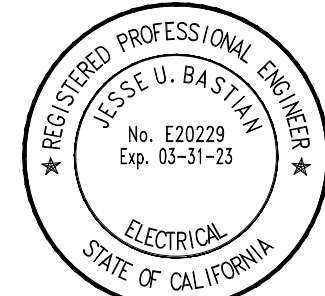
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**HENRY+
ASSOCIATES
ARCHITECTS**



HVAC REPLACEMENT
LODI MIDDLE SCHOOL
REMODEL ROOF PLAN -
ELECTRICAL -
BUILDING A

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08-30-2022

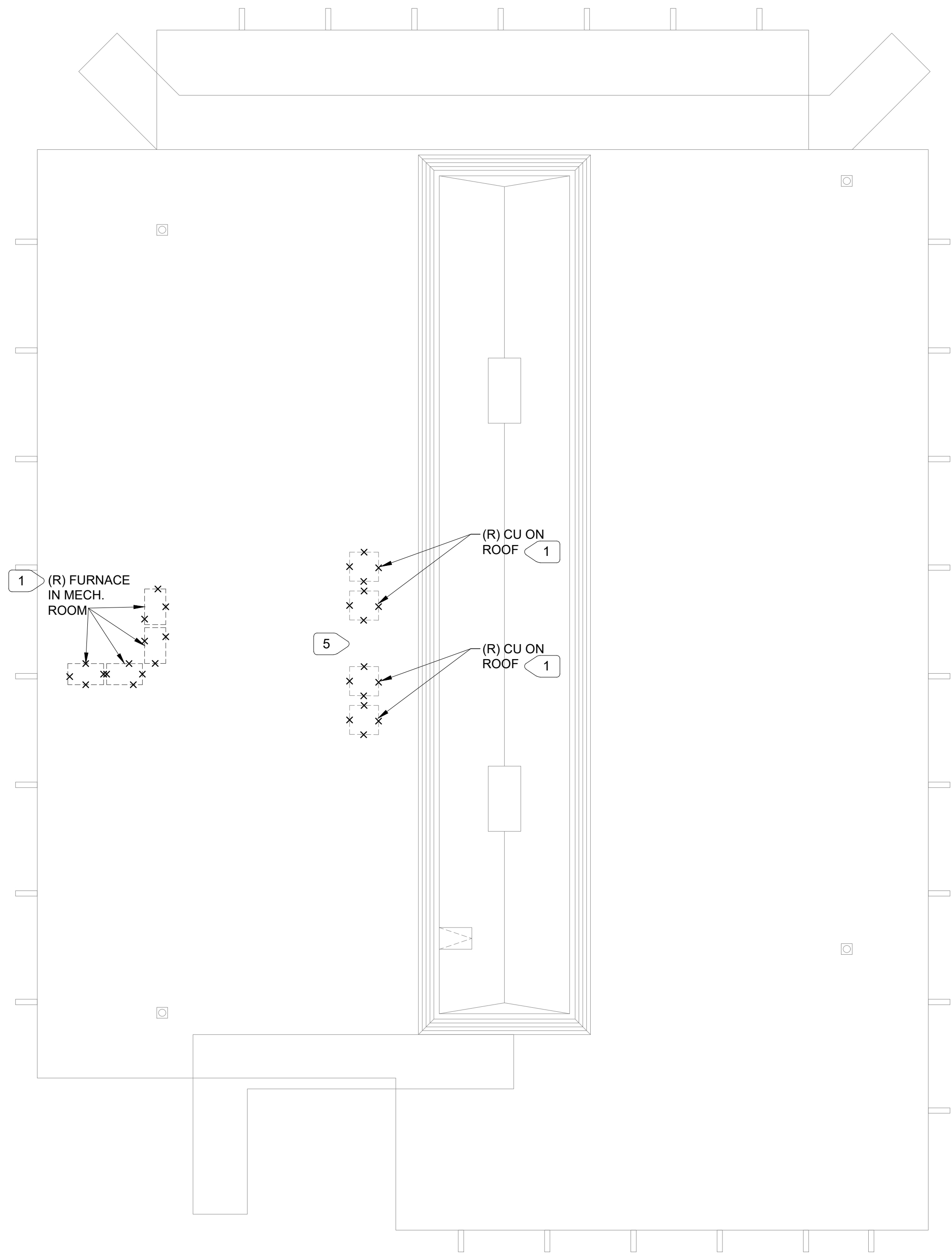
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E2.2.A

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1 DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING B
E2.1.B SCALE :1/8" = 1'-0"

NUMBERED NOTES:

- 1 DISCONNECT UNIT. REMOVE WIRING BACK TO PANEL BH/B2. REMOVE ASSOCIATED CIRCUIT BREAKERS.
- 2 PROVIDE (4) (N) CIRCUIT BREAKERS 20/3 IN (E) SPACE AND CONNECT (N) CU UNITS TO THAT CIRCUIT BREAKER USING 3/4"C-3#12, 1#12G.
- 3 PROVIDE (3) (N) CIRCUIT BREAKER 20/2 IN (E) SPACE AND CONNECT (N) F-B2, F-B3, FB-4 UNITS TO THAT CIRCUIT BREAKER USING 1/2"C-2#12, 1#12G.
- 4 PROVIDE (2) (N) CIRCUIT BREAKERS 20/1 IN (E) SPACE. CONNECT (N) RECEPTACLE TO ONE 20/1 CIRCUIT BREAKER. CONNECT UNIT F-B1 TO OTHER 20/1 CIRCUIT BREAKER. RECEPTACLE ON ROOF SHALL BE HOUSED IN METAL WP ENCLOSURE WITH WHILE-IN-USE COVER.
- 5 CAREFULLY DISCONNECT (E) CONDENSING UNIT. PROTECT POWER FEEDER. RECONNECT (E) CONDENSING UNIT WHEN REINSTALLED AT NEW PLATFORM.



2 REMODEL ROOF PLAN - ELECTRICAL - BUILDING B
E2.1.B SCALE :1/8" = 1'-0"

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Tel: (916) 923-4400
PROJECT #: 22076.21
PROJECT MGR: Sinisha Glisic

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ASSOCIATES
ARCHITECTS

REGISTERED ARCHITECT
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C-22525
12/31/23
RENEWAL
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STATE OF CALIFORNIA

HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DEMOLITION/REMODEL
ROOF PLANS - ELECTRICAL -
BUILDING B

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
JESSE U. BASTIN
No. E20229
Exp. 03-31-23
ELECTRICAL
STATE OF CALIFORNIA
08-30-2022

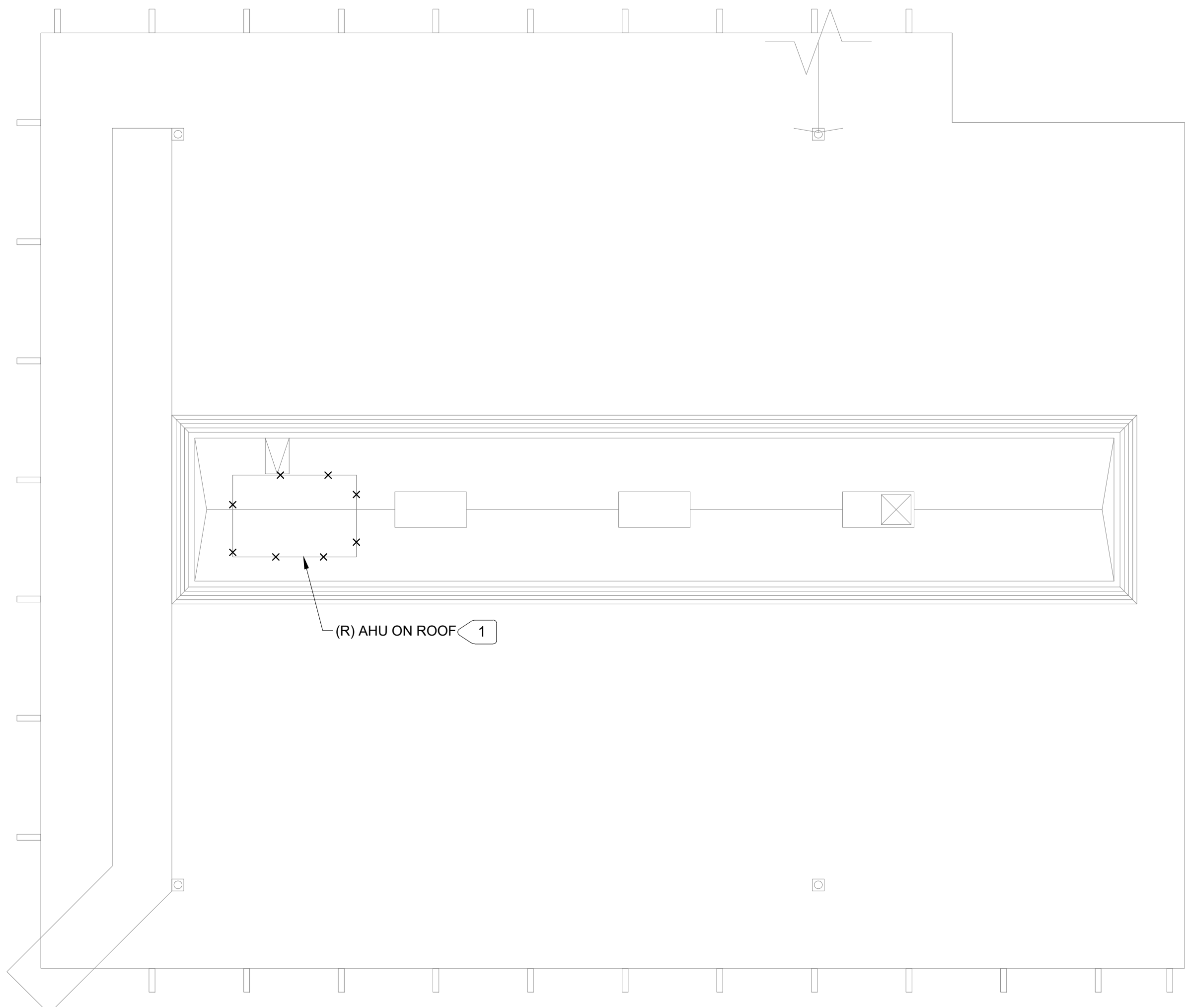
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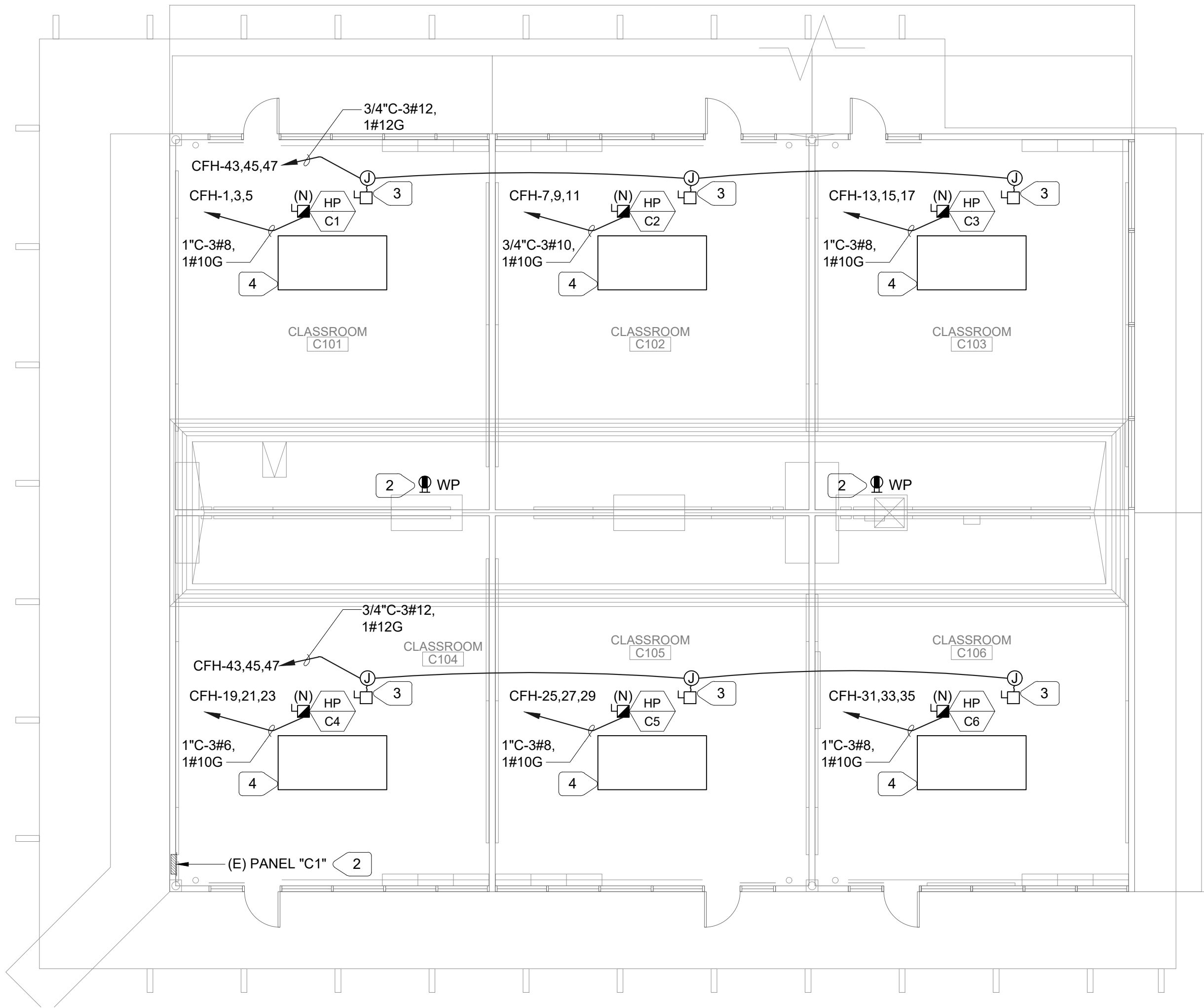
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1 DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING C
E2.1.C SCALE :1/8" = 1'-0"



2 REMODEL ROOF PLAN - ELECTRICAL - BUILDING C
E2.1.C SCALE :1/8" = 1'-0"

- NUMBERED NOTES:
- 1 DISCONNECT UNIT. REMOVE WIRING BACK TO SOURCE.
 - 2 PROVIDE ON ROOF IN METAL WP ENCLOSURE WITH WHILE-IN-USE COVER. PROVIDE (N) 20/1 CIRCUIT BREAKER IN (E) PANEL "C1" AND CONNECT (N) RECEPTACLES USING 1/2"C-2#12, 1#12G.
 - 3 POWER TO EXHAUST ECONOMIZER. REFER TO MECHANICAL DRAWINGS. COORDINATE.
 - 4 PROVIDE NAMEPLATE ON THE DISCONNECTS OF THIS UNIT (BOTH UNIT DISCONNECT AND ECONOMIZER DISCONNECT) TO READ: "POWER PANEL FOR THIS UNIT IS LOCATED IN BUILDING "F".

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DEMOLITION/REMODEL
ROOF PLANS - ELECTRICAL -
BUILDING C

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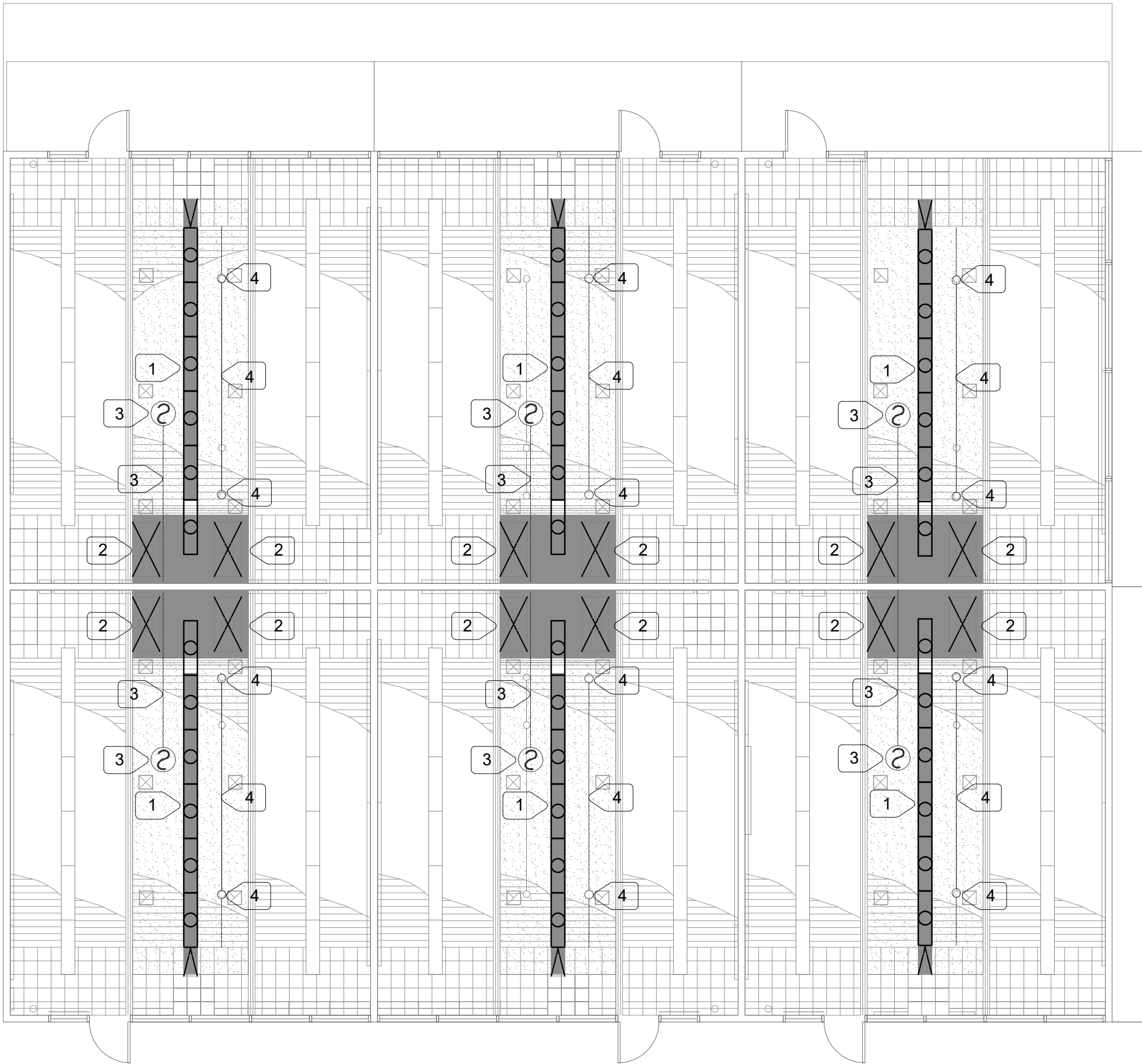
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E2.1.C

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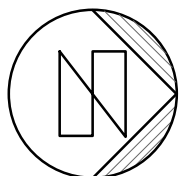


- NUMBERED NOTES:
- 1 CAREFULLY DISCONNECT (E) LIGHT FIXTURE TO ALLOW FOR CEILING WORK. PROTECT (E) LIGHTING CIRCUIT. LOCATE / SHIFT (E) FIXTURE AS SHOWN ON THIS DRAWING AND ARCHITECTURAL DRAWINGS AFTER CEILING WORK IS FINISHED. RECONNECT INTO EXISTING LIGHTING CIRCUIT AND LIGHTING CONTROLS. INSURE THAT LIGHT IS FUNCTIONING CORRECTLY.
 - 2 DISCONNECT (E) LIGHT FIXTURE AND RETURN TO THE OWNER. INSURE THAT (E) LIGHTING CIRCUIT CONTINUITY.
 - 3 CAREFULLY DISCONNECT (E) FIRE ALARM DEVICE(S) AND ASSOCIATED FIRE ALARM CIRCUIT(S) IN SURFACE RACEWAY TO ALLOW FOR CEILING WORK. REINSTALL (E) FIRE ALARM DEVICE(S) AT SAME LOCATION AFTER CEILING WORK IS FINISHED. REINSTALL AND RECONNECT EXISTING FIRE ALARM CIRCUITS. TEST DISTURBED/REINSTALLED FIRE ALARM DEVICES.
 - 4 (E) LIGHTING CONTROL DEVICES/CIRCUITS IN SURFACE RACEWAY. CAREFULLY DISCONNECT TO ALLOW FOR CEILING WORK. REINSTALL AND RECONNECT AFTER CEILING WORK IS FINISHED.

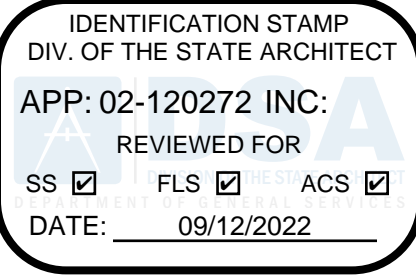
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E2.4.C

LIGHTING - BUILDING C

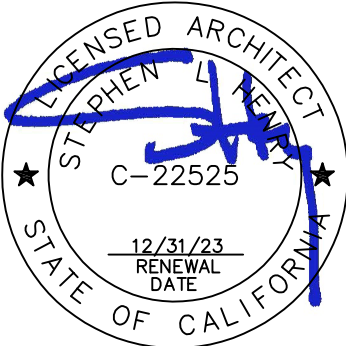
SCALE : 1/8" = 1'-0"



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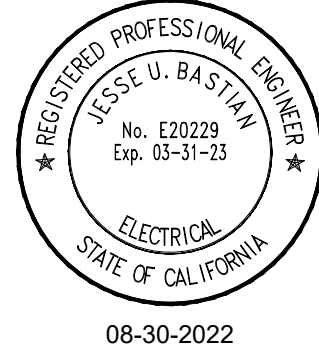
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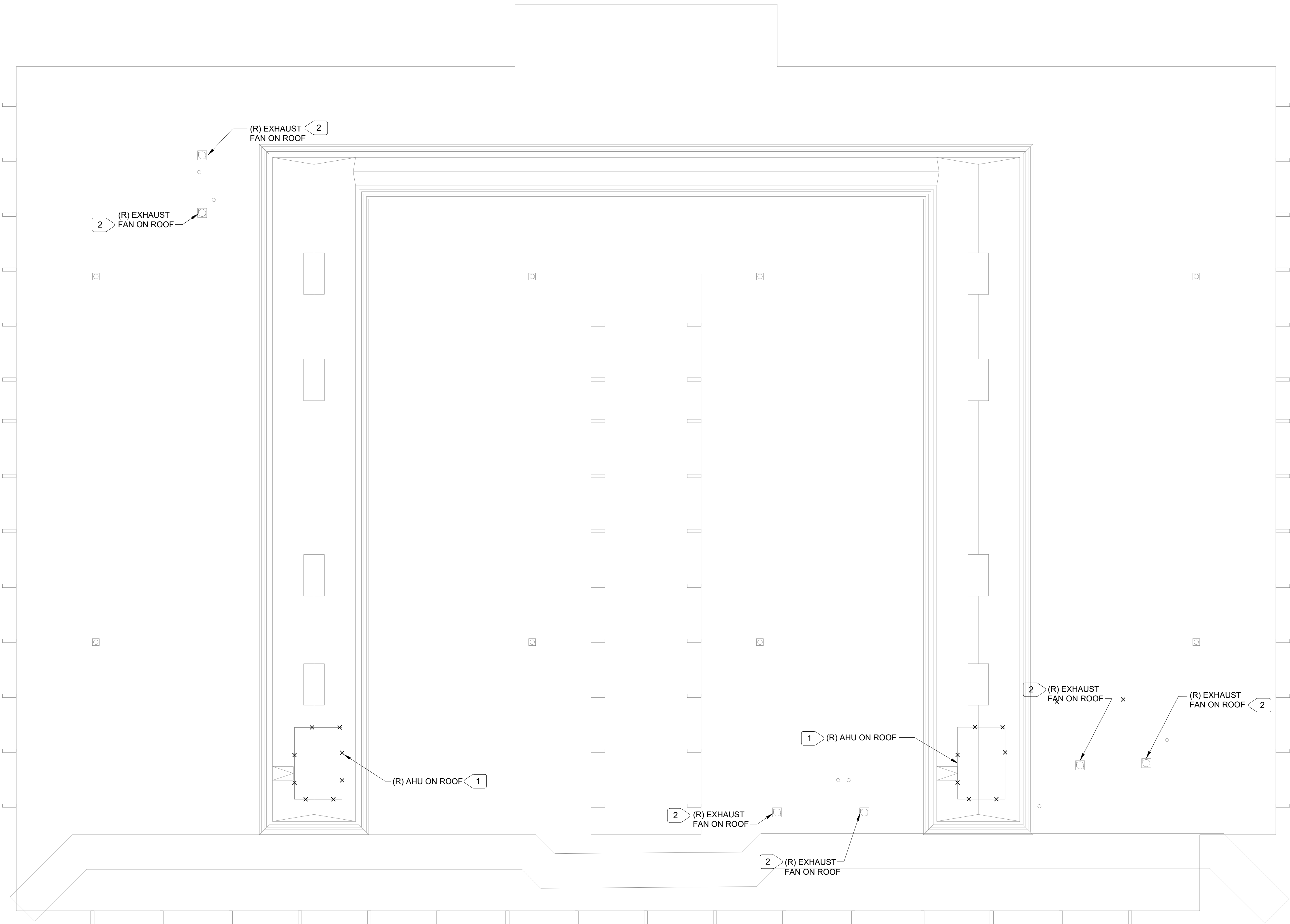
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E2.1.D

DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING D

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

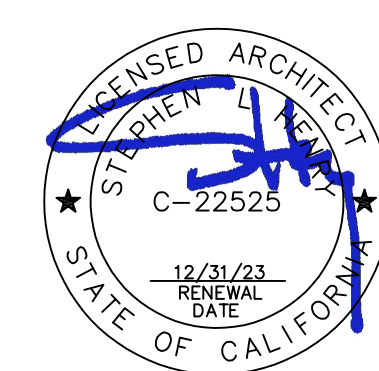
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NUMBERED NOTES:	
1	DISCONNECT UNIT. REMOVE WIRING BACK TO SOURCE.
2	DISCONNECT (E) FAN. PROTECT WIRING TO CONNECT (N) FAN.

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DEMOLITION ROOF PLAN -
ELECTRICAL -
BUILDING D

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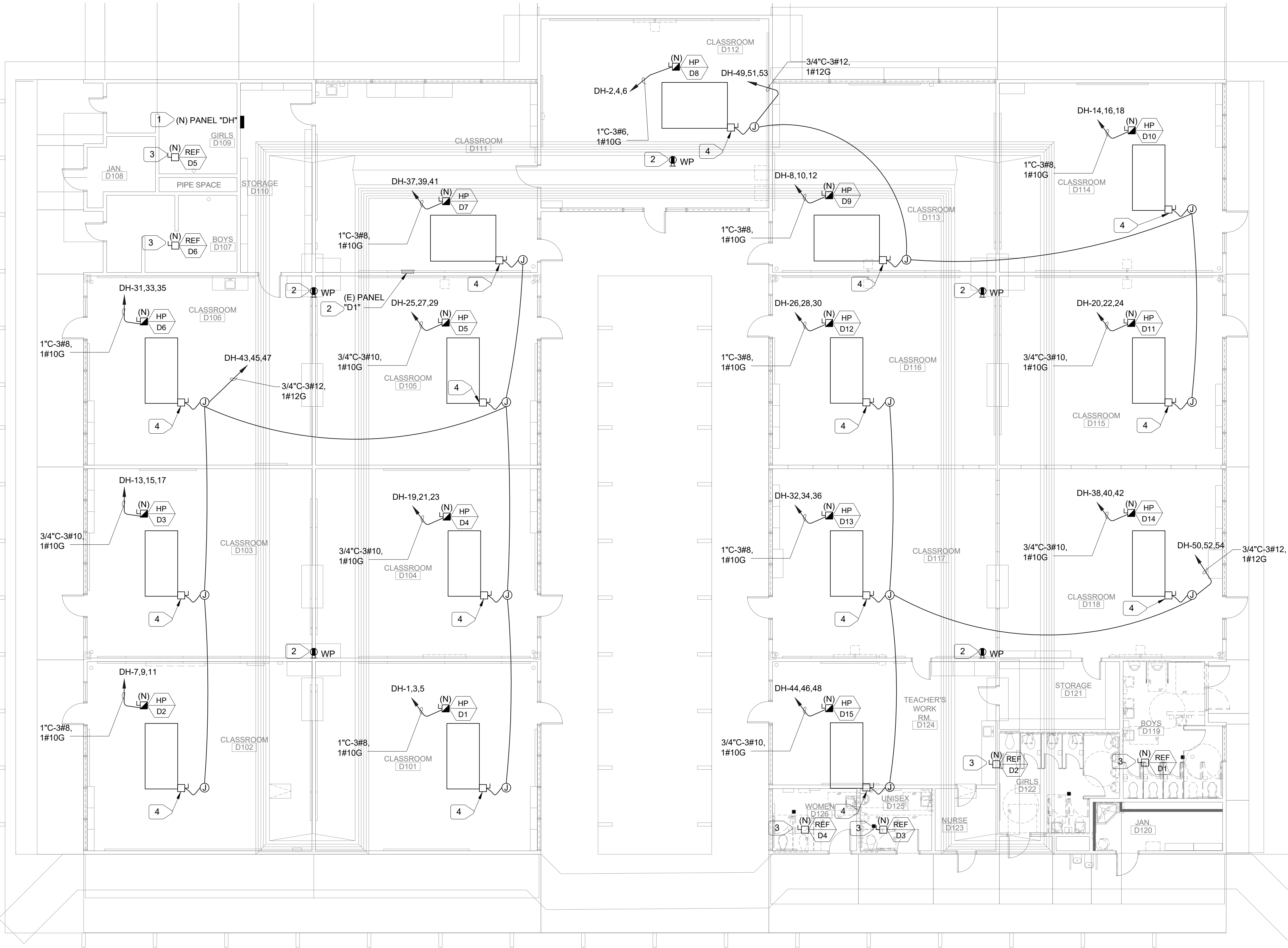
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E2.1.D

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1 REMODEL ROOF PLAN - ELECTRICAL - BUILDING D
E2.2.D SCALE :1/8" = 1'-0"

- NUMBERED NOTES:
- 1 INSTALL PER 2/E5.1.
 - 2 PROVIDE ON ROOF IN METAL WP ENCLOSURE WITH WHILE-IN-USE COVER. PROVIDE (N) 20/1 CIRCUIT BREAKER AND CONNECT (N) RECEPTACLES USING 1/2"C-2#12, 1#12G.
 - 3 CONNECT (N) FAN TO (E) SALVAGED FAN POWER CIRCUIT. REFER TO DEMOLITION.
 - 4 POWER TO EXHAUST ECONOMIZER. REFER TO MECHANICAL DRAWINGS. COORDINATE.

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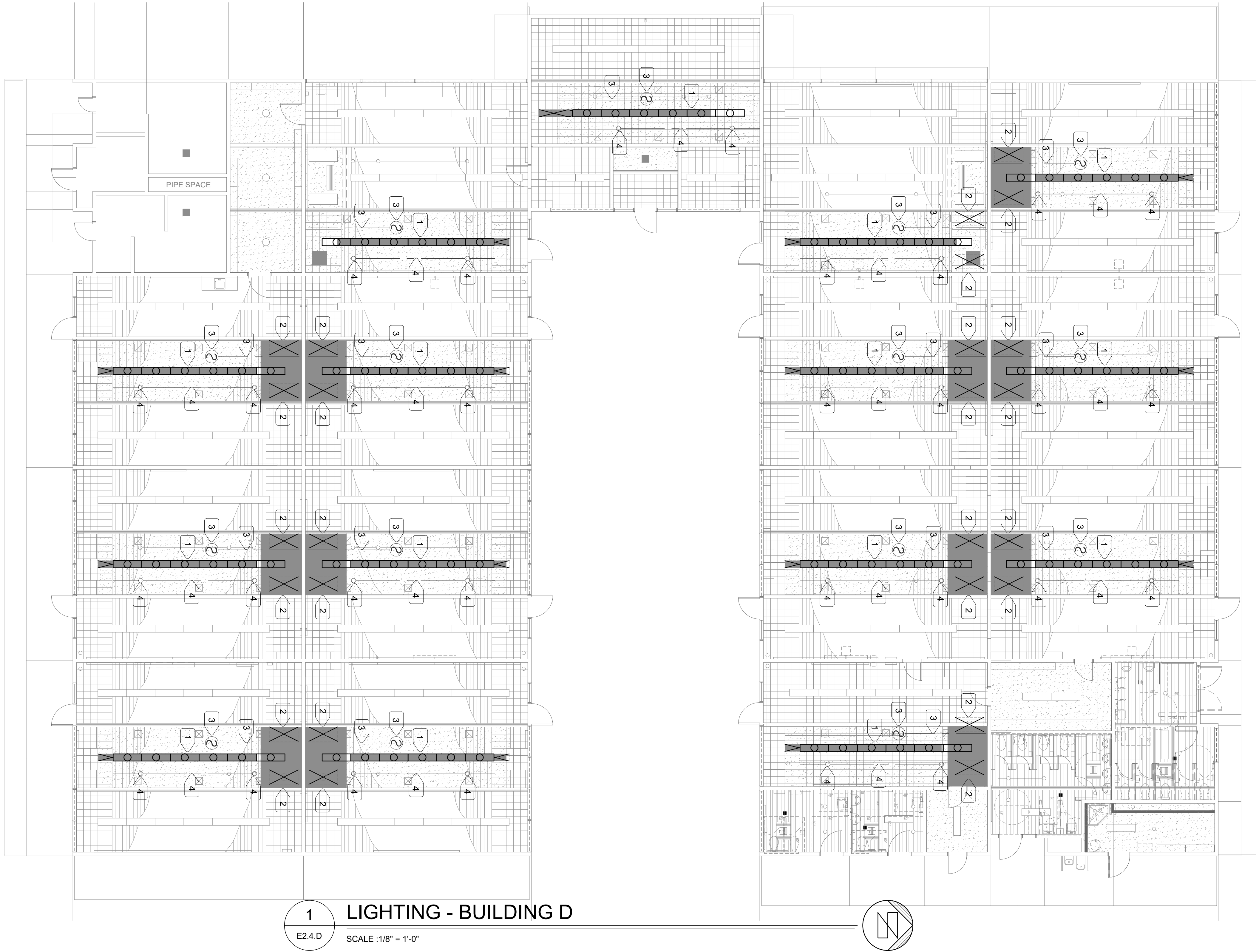
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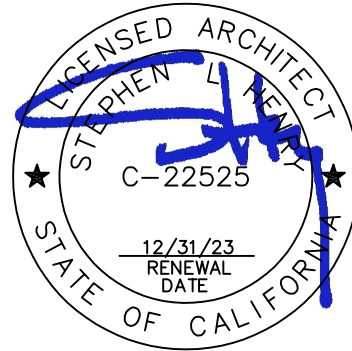
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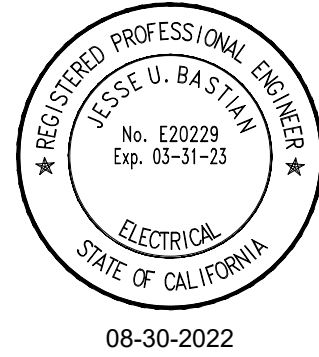
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LIGHTING -
BUILDING D

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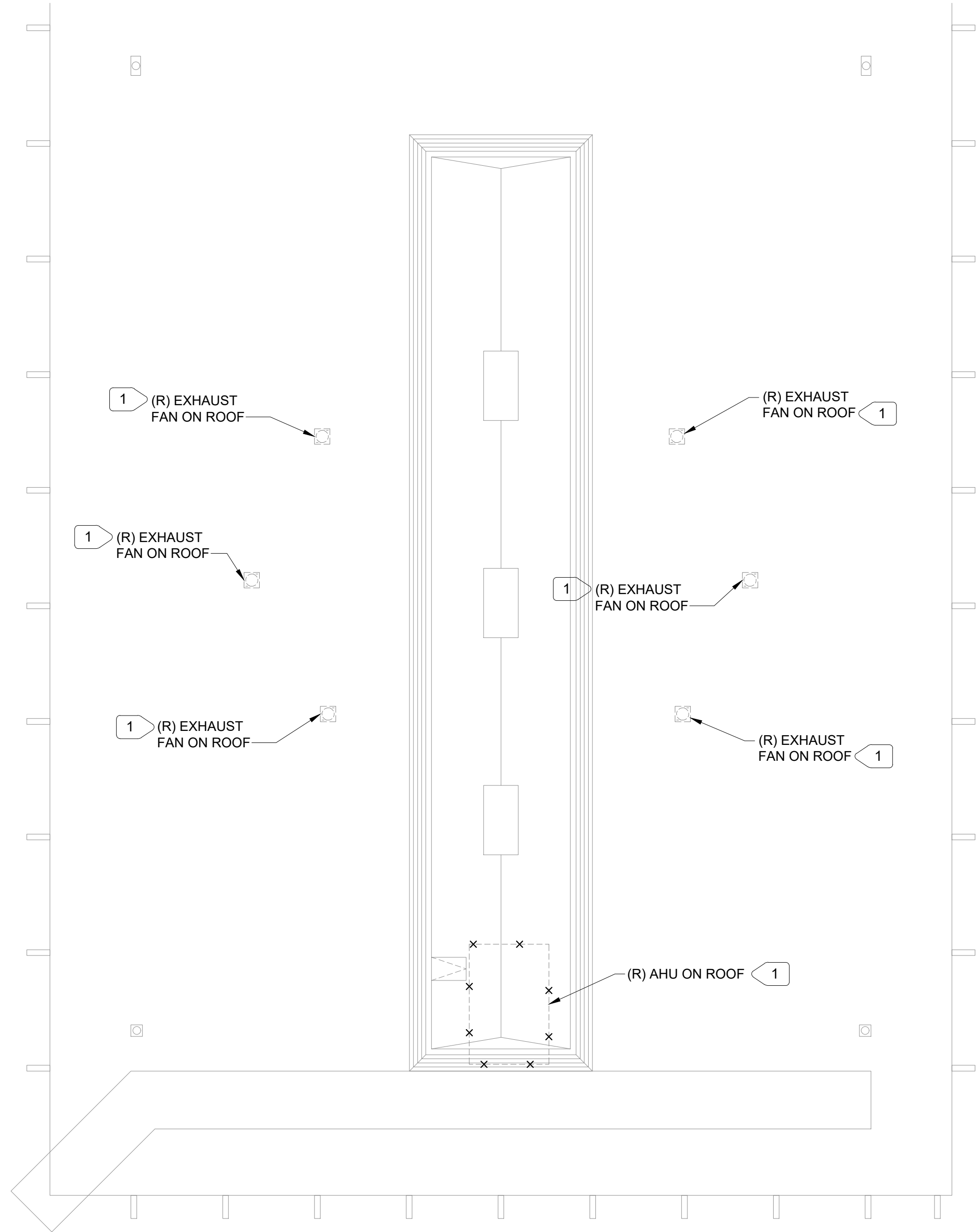
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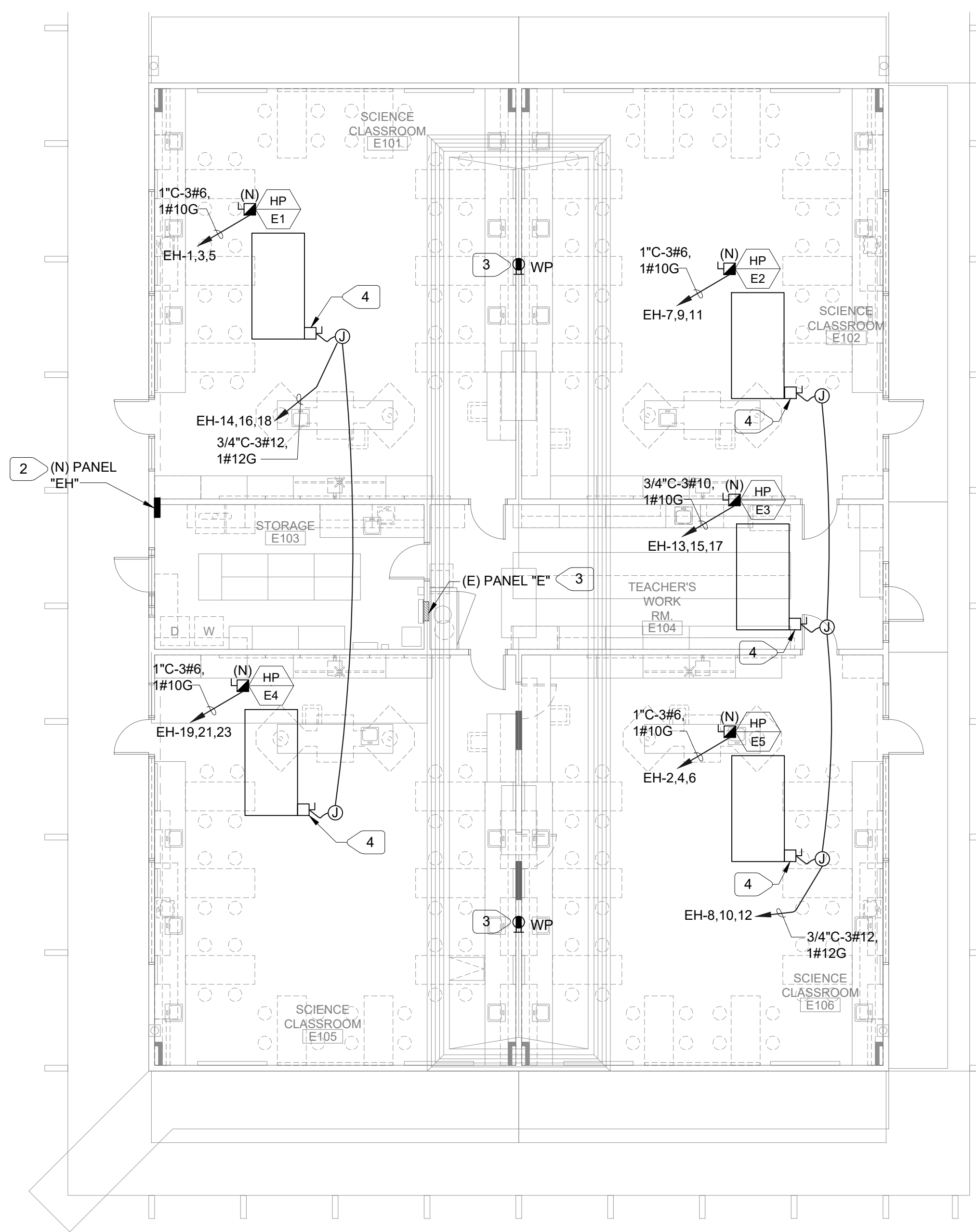
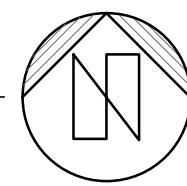
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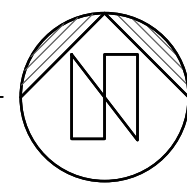
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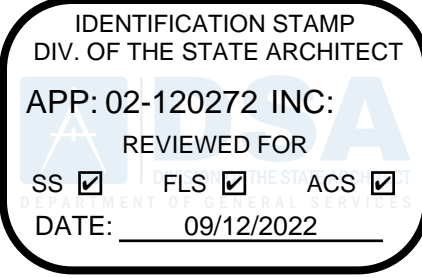
1 DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING E
E2.1.E SCALE :1/8" = 1'-0"



2 REMODEL ROOF PLAN - ELECTRICAL - BUILDING E
E2.1.E SCALE :1/8" = 1'-0"



- NUMBERED NOTES:
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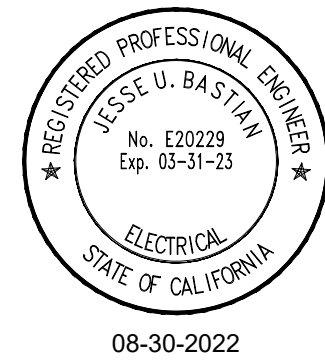


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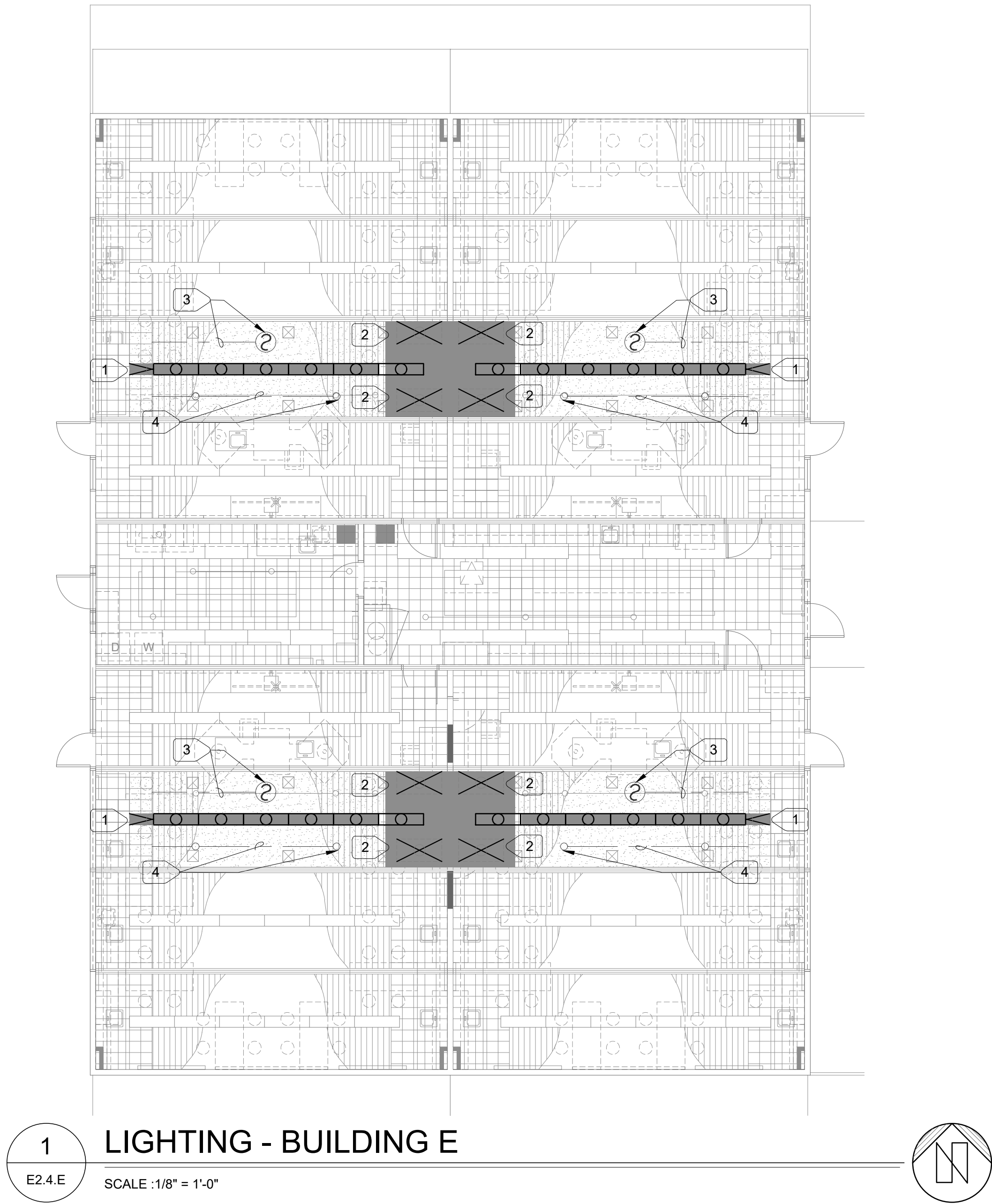
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- NUMBERED NOTES:
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 - DISCONNECT (E) LIGHT FIXTURE AND RETURN TO THE OWNER. INSURE THAT (E) LIGHTING CIRCUIT CONTINUITY.
 - CAREFULLY DISCONNECT (E) FIRE ALARM DEVICE(S) AND ASSOCIATED FIRE ALARM CIRCUIT(S) IN SURFACE RACEWAY TO ALLOW FOR CEILING WORK. REINSTALL (E) FIRE ALARM DEVICE(S) AT SAME LOCATION AFTER CEILING WORK IS FINISHED. REINSTALL AND RECONNECT EXISTING FIRE ALARM CIRCUITS. TEST DISTURBED/REINSTALLED FIRE ALARM DEVICES.
 - (E) LIGHTING CONTROL DEVICES/CIRCUITS IN SURFACE RACEWAY. CAREFULLY DISCONNECT TO ALLOW FOR CEILING WORK. REINSTALL AND RECONNECT AFTER CEILING WORK IS FINISHED.

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LODI MIDDLE SCHOOL

LIGHTING -
BUILDING E

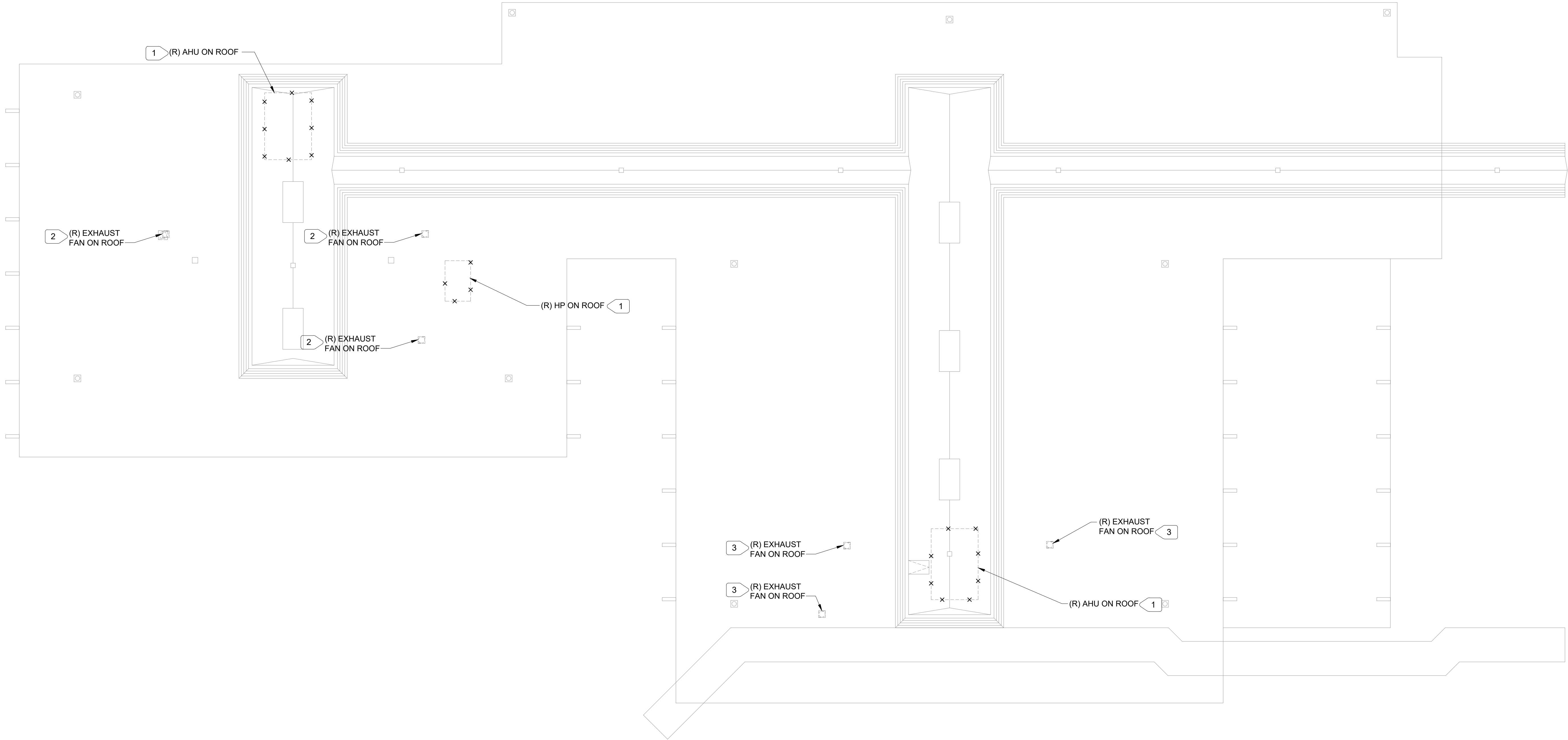
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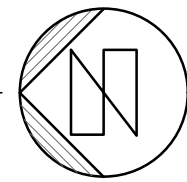
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1
E2.1.F

DEMOLITION ROOF PLAN - ELECTRICAL - BUILDING F

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



NUMBERED NOTES:

- 1 DISCONNECT UNIT. REMOVE WIRING BACK TO SOURCE.
- 2 DISCONNECT (E) FAN AND REMOVE WIRING BACK TO SOURCE.
- 3 DISCONNECT (E) FAN. PROTECT WIRING TO CONNECT (N) FAN.



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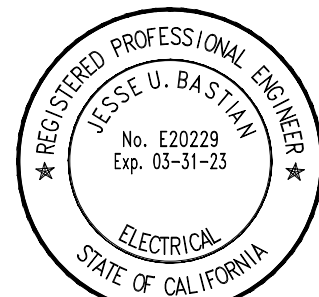
730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212



HVAC REPLACEMENT
LODI MIDDLE SCHOOL

DEMOLITION ROOF PLAN -
ELECTRICAL -
BUILDING F

CONSULTANT



08-30-2022

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Aug 30, 2022 -- 9:27am
UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

GE
Security

EST Fire & Life Safety
Intelligent Initiating Devices

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM
LISTING SERVICE



Page 1 of 1

LISTING No. 3242-1657-0223
CATEGORY: 3242 -- DUCT SMOKE DETECTOR, PHOTO. (W/ OR W/O BASE)
LISTEE: EDWARDS, A Division of UTC Fire & Security Americas Corporation, Inc.8985 Town Center Parkway, Bradenton, FL 34202
Contact: Jewel Conover (941) 739-4358 Fax (941) 308-8123
Email: rhonda.micohero@carrier.com
DESIGN: Models ESD-SJ, ESD-ST, TSD-SJ, TSD-ST, TSD-SJG, TSD-SJG2, TSD-STC02, SIGA-SD, SD-2W, ESD-2W, E-PDD, and FX-PDD photoelectric type duct smoke detectors. The duct detector consists of a thermoplastic enclosure, recognized component printed wiring board, a listed duct detector subassembly, and an inlet coupling tube and an exhaust tube along with gaskets. Refer to listee's data sheet for additional detailed product description and operational considerations.
RATING: 15.2-19.95 VDC
16-30 VDC, SD-2W, ESD-2W
INSTALLATION: In accordance with listee's printed installation instructions and applicable codes and ordinances and in a manner acceptable to the authority having jurisdiction.
MARKING: Listee's name, model number, electrical rating, and UL label.
APPROVAL: Listed as photoelectric type, duct smoke detectors for use with separately listed compatible fire alarm control units in conjunction with Models ESD-CJ, -CT or TSD-CJ, -CT series duct smoke detector controller (CSFM Listing No. 3240-1657-225). Models SIGA-SD, E-PDD, FX-PDD, SD-2W or ESD-2W does not require a listed duct smoke detector controller. Suitable for use in ducts where air velocity is between 100 and 4000 f/min.
NOTE: *Models ESD-SJ, ESD-ST, TSD-SJ, TSD-SJG, TSD-SJG2, SIGA-SD, SD-2W and ESD-2W are suitable for use in ambient temperatures of -4°F to 158°F.
Refer to listee's Installation Instruction Manual for details.
1. CO2 sensing features were not examined.
2. Formerly 3242-1591-223

*Corrected 3-23-13 BH



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other

Date Issued: **July 01, 2022** Listing Expires **June 30, 2023**
Authorized By: **VICTOR WONG, Program Coordinator**
Fire Engineering Division

Overview

The GE Security SuperDuct Signature Series smoke detector is the most advanced and most reliable device in its class. Designed for easy installation and superb reliability, SuperDuct represents the perfect balance of practical design and advanced technology. SuperDuct detectors feature a unique design that speeds installation and simplifies maintenance. Removable dust filters, conformally coated circuit boards, and optional water-resistant gaskets keep contaminants away from components, ensuring years of trouble-free service. When cleaning is required, the assemblies come apart easily and snap back together in seconds.

A Signature Series photoelectric sensor is incorporated into the design of each SIGA-SD duct smoke detector. This sensor inherits the power and benefits of this exceptional line of intelligent devices. Signature Series sensors gather analog information from their smoke sensing elements and convert it into digital signals. The sensor measures and analyzes these signals and compares the information to historical readings and time patterns to make an alarm decision. Digital filters remove signal patterns that are not typical of fires, which virtually eliminates unwanted alarms.

WARNING: Duct detectors have specific limitations. Duct detectors are not a substitute for other types of smoke detectors. Duct detectors cannot substitute for early warning detectors or a replacement for a building's regular fire detection system. Smoke detectors are not designed to detect fires that grow which can build up to hazardous levels in some fires. These devices will not operate without electrical power. As fires frequently cause power interruptions, GE Security suggests you discuss further safeguards with your local fire protection specialists.

Standard Features

- Less than 2" deep for easy installation and applications where space is tight.
- -20 to 159 °F (-29 to 70 °C) operating range with 100 f/min. to 4,000 f/min air velocity rating assures reliability under harsh environmental conditions
- Status LEDs remain visible through clear assembly cover
- Cover monitor switch for added security
- Standard sampling tube spacing for easy drop-in migration from other detectors
- Sampling tube can be installed with or without the cover in place and can be rotated in 45-degree increments to ensure proper alignment with duct airflow.
- 15.2 to 19.95 vdc operation
- Magnet-activated test switch
- One Form C auxiliary alarm relay for controlling ancillary equipment (e.g., HVAC control)
- No special tools required for easy access to field connections
- Signature Series intelligence
- Environmental compensation with differential sensing for reliable, stable, and drift-free sensitivity
- Wide 0.79% to 2.46% obscuration/ft. smoke sensitivity
- Identification of dirty or defective detectors

Intelligent Duct
Smoke Detector
SIGA-SD



Data Sheet 85001-0586 Issue 4
Not to be used for installation purposes. Page 1 of 4



REMODEL ROOF PLAN - ELECTRICAL - BUILDING F

1

E2.2.F

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

NUMBERED NOTES:

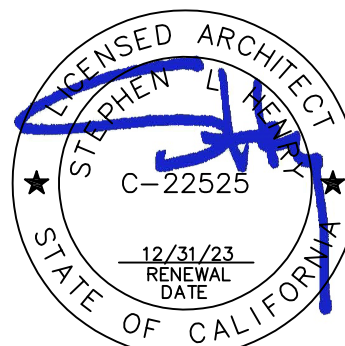
- 1 INSTALL PER 2/E5.1.
- 2 PROVIDE ON ROOF IN METAL WP ENCLOSURE WITH WHILE-IN-USE COVER. PROVIDE (N) 20/1 CIRCUIT BREAKER IN (E) PANEL "F2". CONNECT RECEPTACLE TO THAT CIRCUIT BREAKER USING 1/2"C-2#12, 1#12G.
- 3 (E) SALVAGED POWER CIRCUIT USED FOR REMOVED FAN. CONNECT (N) FANS, ADJUST AS REQUIRED.
- 4 CONNECT (N) FAN TO (E) SALVAGED FAN POWER CIRCUIT.
- 5 PROVIDE (N) DUCT DETECTOR - EDWARDS SIGA-SD. INSTALL AS DIRECTED BY MECHANICAL. CONNECT INTO ADDRESSABLE INITIATION CIRCUIT AT (E) FIRE ALARM TERMINAL CABINET "FATC". PROVIDE WITH LOCKABLE TEST STATION. INSTALL TEST STATION AS DIRECTED IN FIELD.
- 6 RUN WEST PENN 990 CABLE THROUGH 1/2" BETWEEN (N) DUCT DETECTOR AND (E) FIRE ALARM TERMINAL CABINET "FATC".
- 7 PROVIDE (N) 20/2 CIRCUIT BREAKER IN PANEL "F2". CONNECT (N) UNIT SCU-A1 TO THAT CIRCUIT BREAKER USING 3/4"C-2#12, 1#12G. INDOOR UNIT SAC-F1 IS FED FROM OUTDOOR UNIT SCU-F1. PROVIDE ALL NECESSARY CONNECTIONS.
- 8 PROVIDE (N) 20/1 CIRCUIT BREAKER IN PANEL "F2". CONNECT (N) CONDENSATE PUMP, REFER TO MECHANICAL DRAWINGS.
- 9 POWER TO EXHAUST ECONOMIZER. REFER TO MECHANICAL DRAWINGS. COORDINATE.



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PROJECT MGR: Sinisha Glisic

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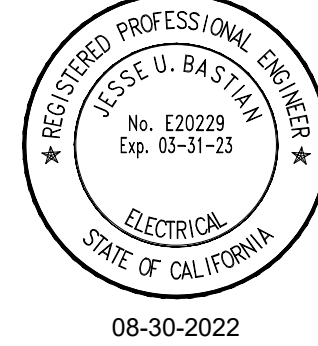
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HVAC REPLACEMENT
LODI MIDDLE SCHOOL

REMODEL ROOF PLAN -
ELECTRICAL -
BUILDING F

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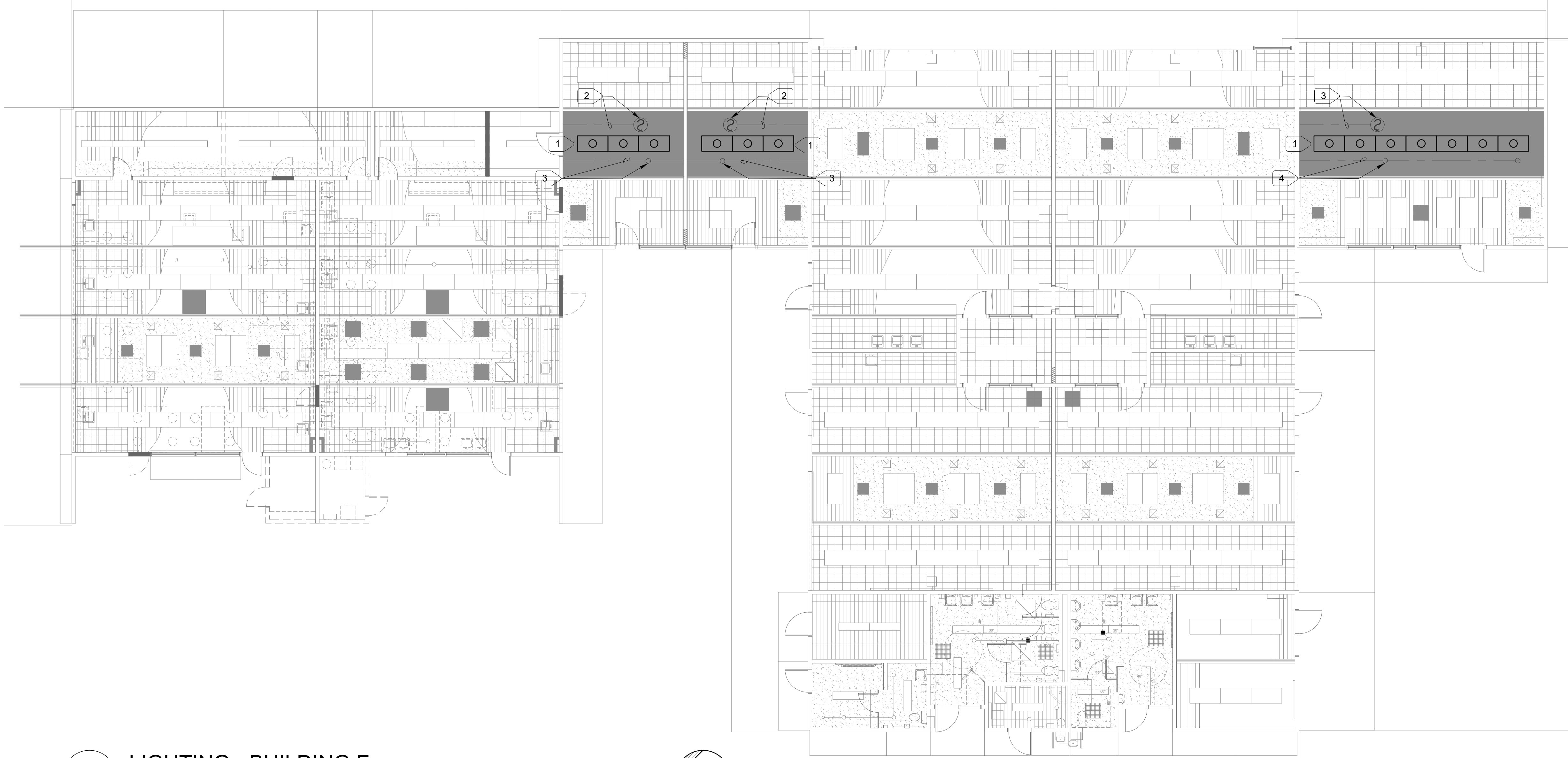
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1 LIGHTING - BUILDING F
E2.4.F SCALE :1/8" = 1'-0"

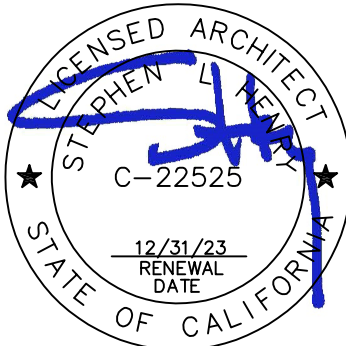
NUMBERED NOTES:

- 1 CAREFULLY DISCONNECT (E) LIGHT FIXTURE TO ALLOW FOR CEILING WORK. PROTECT (E) LIGHTING CIRCUIT. LOCATE / SHIFT (E) FIXTURE AS SHOWN ON THIS DRAWING AND ARCHITECTURAL DRAWINGS. AFTER CEILING WORK IS FINISHED, RECONNECT INTO EXISTING LIGHTING CIRCUIT AND LIGHTING CONTROLS. INSURE THAT LIGHT IS FUNCTIONING CORRECTLY.
- 2 CAREFULLY DISCONNECT (E) FIRE ALARM DEVICE(S) AND ASSOCIATED FIRE ALARM CIRCUIT(S) IN SURFACE RACEWAY TO ALLOW FOR CEILING WORK. REINSTALL (E) FIRE ALARM DEVICE(S) AT SAME LOCATION AFTER CEILING WORK IS FINISHED. REINSTALL AND RECONNECT EXISTING FIRE ALARM CIRCUITS. TEST DISTURBED/REINSTALLED FIRE ALARM DEVICES.
- 3 (E) LIGHTING CONTROL DEVICES/CIRCUITS IN SURFACE RACEWAY. CAREFULLY DISCONNECT TO ALLOW FOR CEILING WORK. REINSTALL AND RECONNECT AFTER CEILING WORK IS FINISHED.

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PROJECT MGR: Sinisha Glisic

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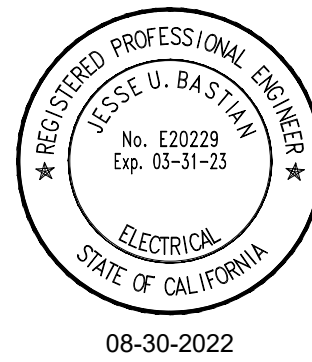
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HVAC REPLACEMENT
LODI MIDDLE SCHOOL

LIGHTING -
BUILDING F

CONSULTANT



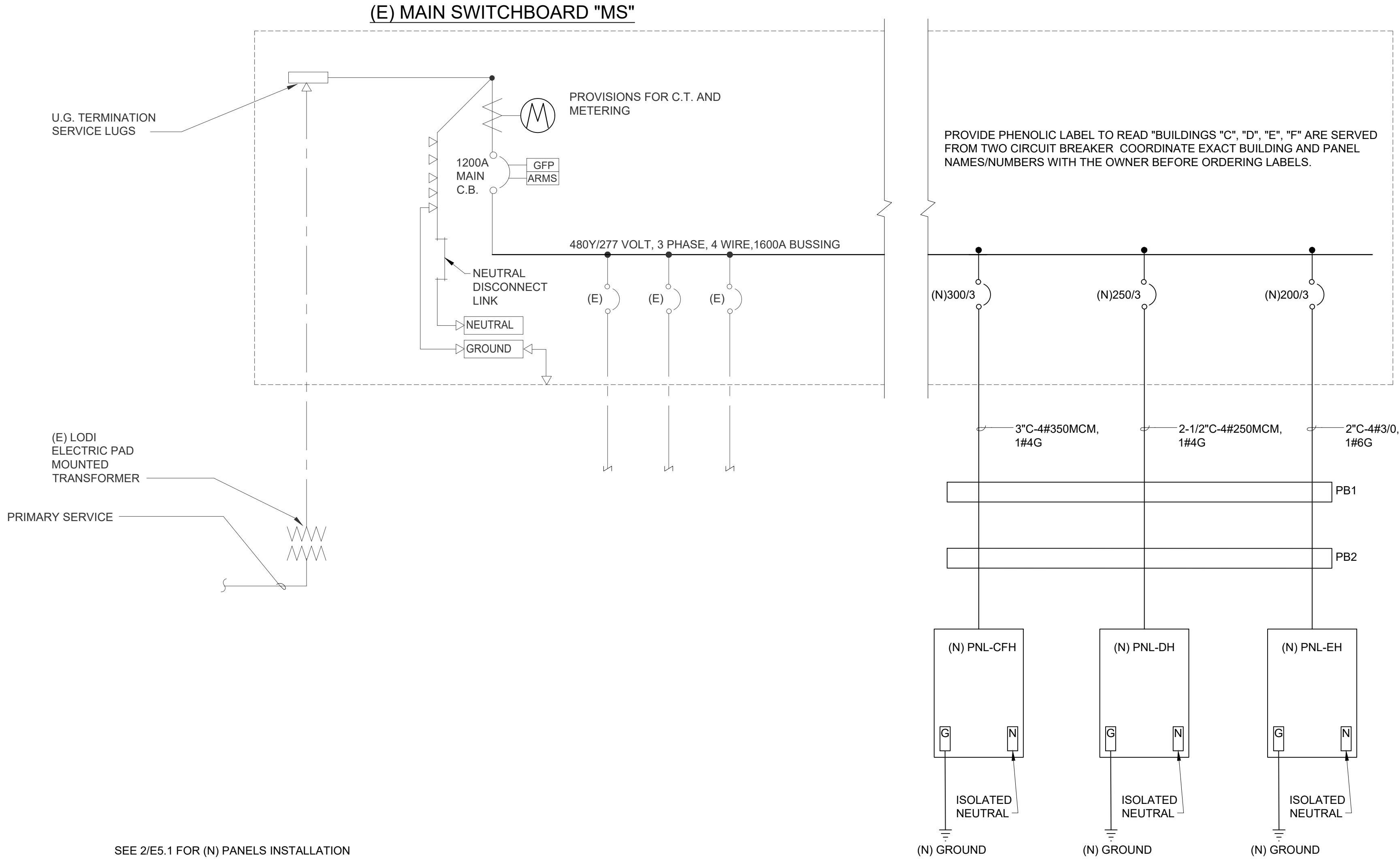
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1 ONE LINE DIAGRAM - POWER

E3.1 N.T.S.

NEW PANEL "CFH" SCHEDULE									
POWER SOURCE: PANEL "MAIN SWITCHBOARD MS"					LOCATION: SEE PLANS				
TYPE:	BUS: 400A	MAIN BKR 300A SUB FD:	VOLTAGE: 480Y/277 VOLT, 3 PHASE, 4 WIRES			MOUNTING: SURFACE PNL TYPE: NEMA 1		REMARKS: 22k AIC MIN. SYMM.	
LOAD SERVED		kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
HP-C1		5.1	35/3	1	A	2	50/3	7.9	HP-F2
		5.1		3	B	4		7.9	
		5.1		5	C	6		7.9	
HP-C2		4.1	25/3	7	A	8	45/3	7.0	HP-F3
		4.1		9	B	10		7.0	
		4.1		11	C	12		7.0	
HP-C3		5.1	35/3	13	A	14	35/3	5.1	HP-F4
		5.1		15	B	16		5.1	
		5.1		17	C	18		5.1	
HP-C4		7.0	45/3	19	A	20	35/3	5.1	HP-F5
		7.0		21	B	22		5.1	
		7.0		23	C	24		5.1	
HP-C5		5.1	35/3	25	A	26	45/3	7.0	HP-F6
		5.1		27	B	28		7.0	
		5.1		29	C	30		7.0	
HP-C6		5.1	35/3	31	A	32	25/3	4.1	HP-F7
		5.1		33	B	34		4.1	
		5.1		35	C	36		4.1	
HP-F1		7.9	50/3	37	A	38	35/3	5.1	HP-F8
		7.9		39	B	40		5.1	
		7.9		41	C	42		5.1	
EXH. ECONOMIZER		1.0	20/3	43	A	44	20/3	1.0	EXH. ECONOMIZER
		1.0		45	B	46		1.0	
		1.0		47	C	48		1.0	
EXH. ECONOMIZER		1.0	20/3	49	A	50	PFB		SPACE
		1.0		51	B	52			
		1.0		53	C	54			
NOTE(S) 1.							PHASE A = 80.7 kVA PHASE B = 80.7 kVA PHASE C = 80.7 kVA		
							TOTAL = 242.1 kVA TOTAL = 291.3 Amperes		

NEW PANEL "DH" SCHEDULE									
POWER SOURCE: PANEL "MAIN SWITCHBOARD MS"					LOCATION: SEE PLANS				
TYPE:	BUS: 250a	MAIN BKR 250A SUB FD:	VOLTAGE: 480Y/277 VOLT, 3 PHASE, 4 WIRES			MOUNTING: SURFACE PNL TYPE: NEMA 1		REMARKS: 22k AIC MIN. SYMM.	
LOAD SERVED		kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
HP-D1	5.1	35/3	1	A	2	45/3	7.0	HP-D8	
	5.1		3	B	4		7.0		
	5.1		5	C	6		7.0		
HP-D2	5.1	35/3	7	A	8	35/3	5.1	HP-D9	
	5.1		9	B	10		5.1		
	5.1		11	C	12		5.1		
HP-D3	4.1	25/3	13	A	14	35/3	5.1	HP-D10	
	4.1		15	B	16		5.1		
	4.1		17	C	18		5.1		
HP-D4	4.1	25/3	19	A	20	25/3	4.1	HP-D11	
	4.1		21	B	22		4.1		
	4.1		23	C	24		5.1		
HP-D5	4.1	25/3	25	A	26	35/3	5.1	HP-D12	
	4.1		27	B	28		5.1		
	4.1		29	C	30		5.1		
HP-D6	5.1	35/3	31	A	32	35/3	5.1	HP-D13	
	5.1		33	B	34		5.1		
	5.1		35	C	36		5.1		
HP-D7	5.1	35/3	37	A	38	25/3	4.1	HP-D14	
	5.1		39	B	40		4.1		
	5.1		41	C	42		4.1		
EXH. ECONOMIZER	1.0	20/3	43	A	44	25/3	4.1	HP-D15	
	1.0		45	B	46		4.1		
	1.0		47	C	48		4.1		
EXH. ECONOMIZER	1.0	20/3	49	A	50	20/3	1.0	EXH. ECONOMIZER	
	1.0		51	B	52		1.0		
	1.0		53	C	54		1.0		
NOTE(S) 1.							PHASE A= 68.3 kVA PHASE B= 68.3 kVA PHASE C= 68.3 kVA TOTAL = 204.9 kVA TOTAL = 246.6 Amperes		

NEW PANEL "EH" SCHEDULE									
POWER SOURCE: PANEL "MAIN SWITCHBOARD MS"					LOCATION: SEE PLANS				
TYPE:	BUS: 225A	MAIN BKR 200A SUB FD:	VOLTAGE: 480Y/277 VOLT, 3 PHASE, 4 WIRES			MOUNTING: SURFACE PNL TYPE: NEMA 1		REMARKS: 22k AIC MIN. SYMM.	
LOAD SERVED		kVA	CB	CKT	PHASE	CKT	CB	kVA	LOAD SERVED
HP-E1		7.0	45/3	1	A	2	45/3	7.0	HP-E5
		7.0		3	B	4		7.0	
		7.0		5	C	6		7.0	
HP-E2		7.0	45/3	7	A	8	20/3	1.0	EXH. ECONOMIZER
		7.0		9	B	10		1.0	
		7.0		11	C	12		1.0	
HP-E3		4.1	25/3	13	A	14	20/3	1.0	EXH. ECONOMIZER
		4.1		15	B	16		1.0	
		4.1		17	C	18		1.0	
HP-E4		7.0	45/3	19	A	20	70/3	15.0	(F) TRANSFORMER
		7.0		21	B	22		15.0	
		7.0		23	C	24		15.0	
NOTE(S) 1.							PHASE A= 49.1 kVA PHASE B= 49.1 kVA PHASE C= 49.1 kVA		
							TOTAL = 147.3 kVA TOTAL = 177.3 Amperes		

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HENRY+ ASSOCIATES ARCHITECTS

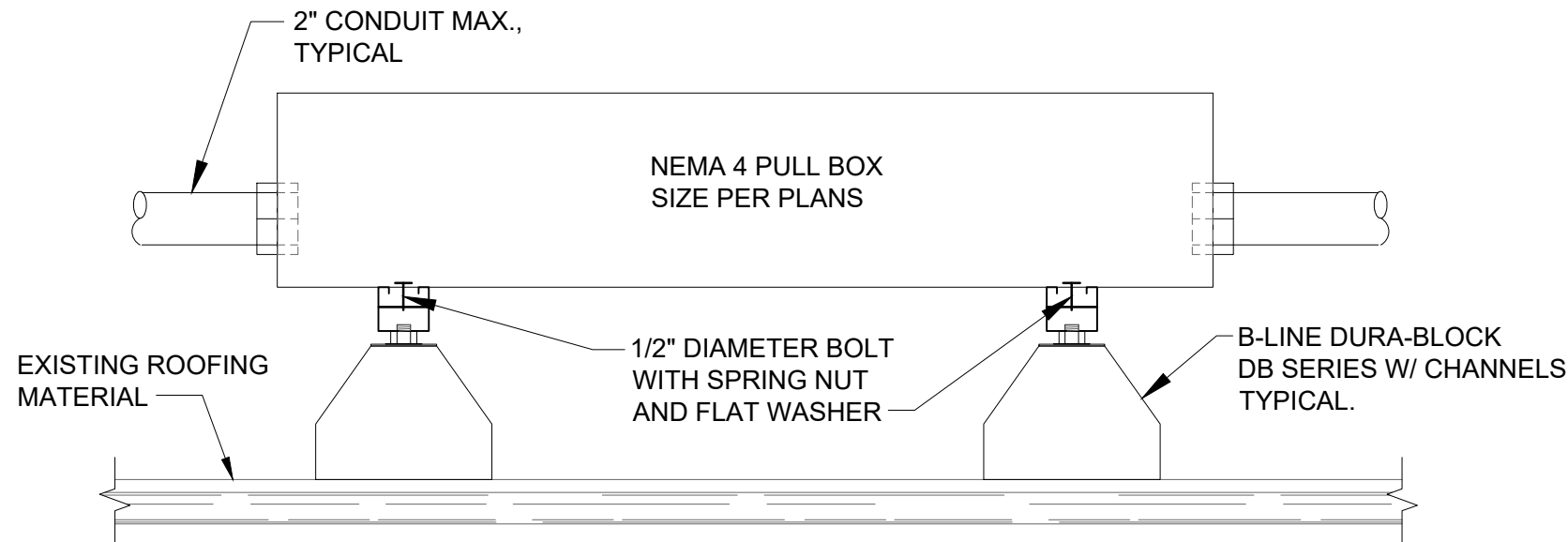
HVAC REPLACEMENT
LODI MIDDLE SCHOOL

ONE LINE DIAGRAM
POWER, PANEL SCHEDULE

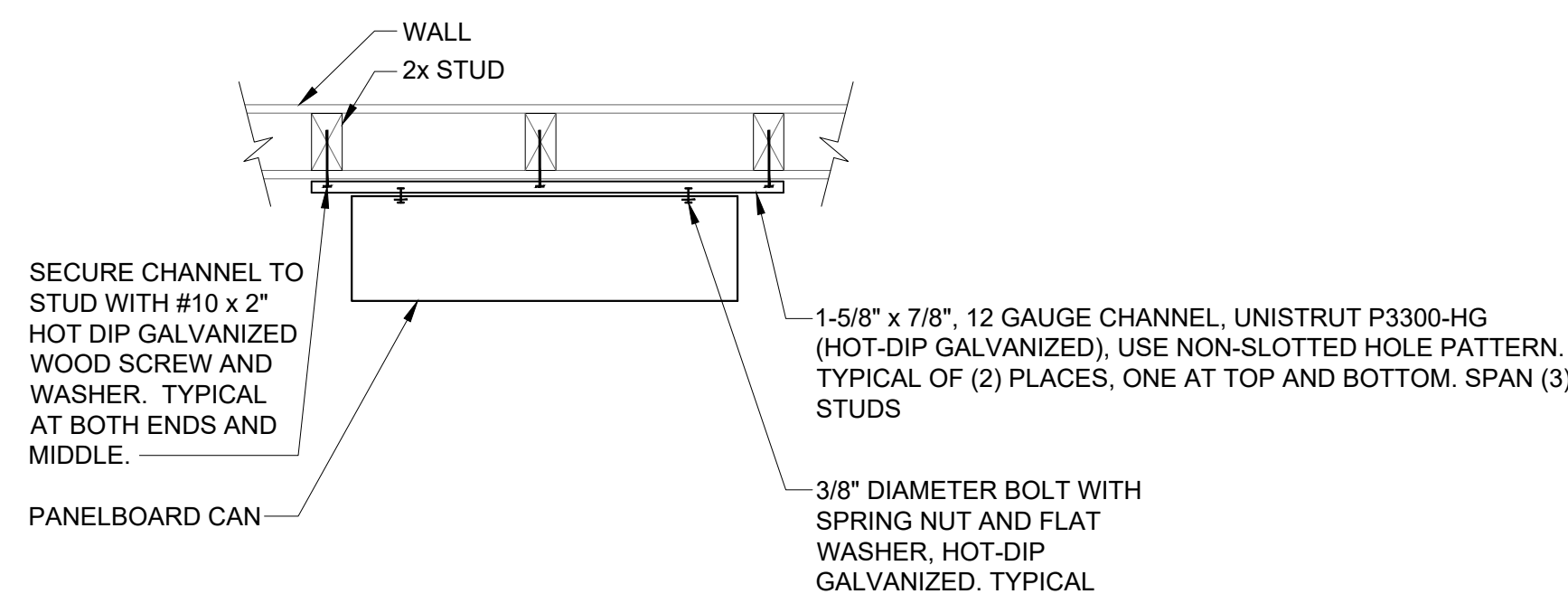
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1 CONDUIT & PULLBOX ON ROOF



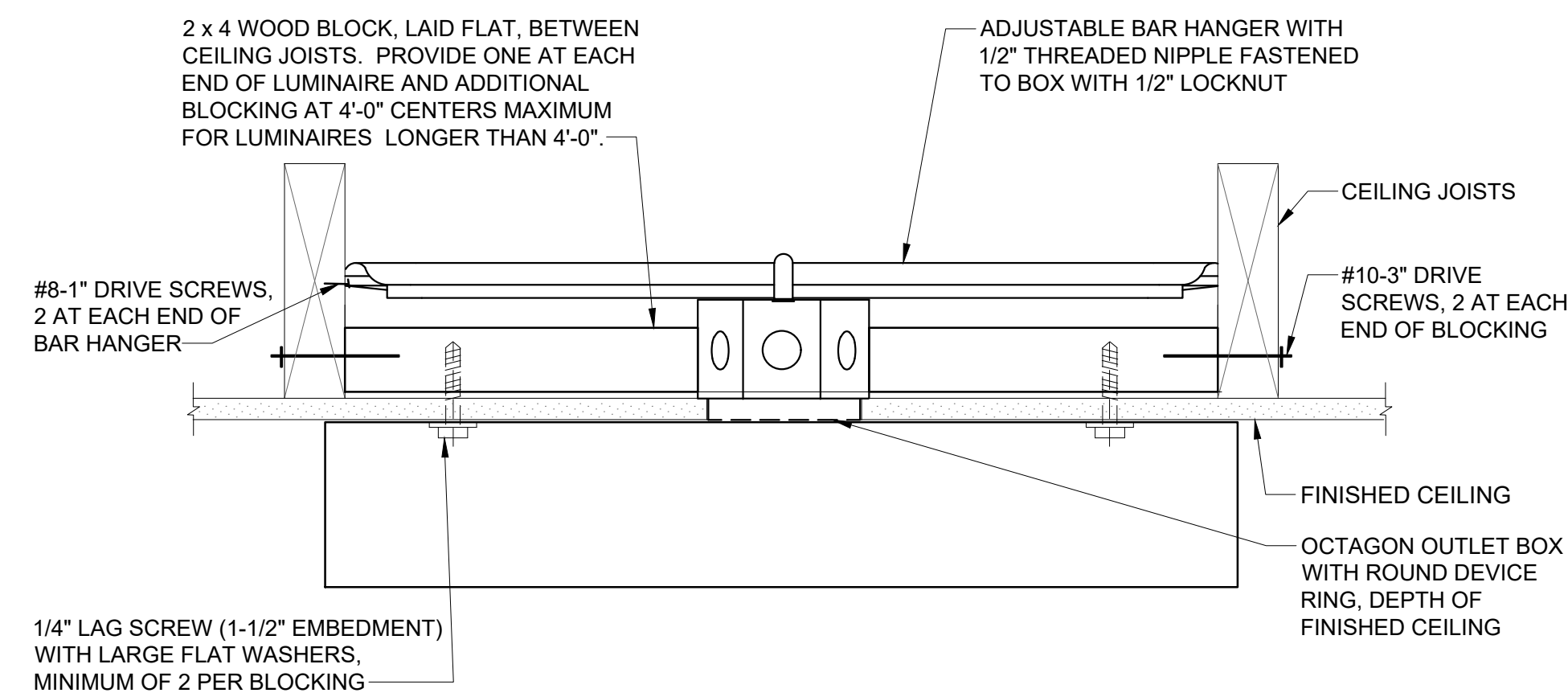
(N) PANELS DIMENSION: 26"H X 20"W X 6"D
MAXIMUM WEIGHT: 195LB.

NOTE: PAINT EXPOSED CONDUITS TO MATCH SURFACE TO WHICH THEY ARE ATTACHED.

**SURFACE PANELBOARD /
DISCONNECT MOUNTING DETAIL**

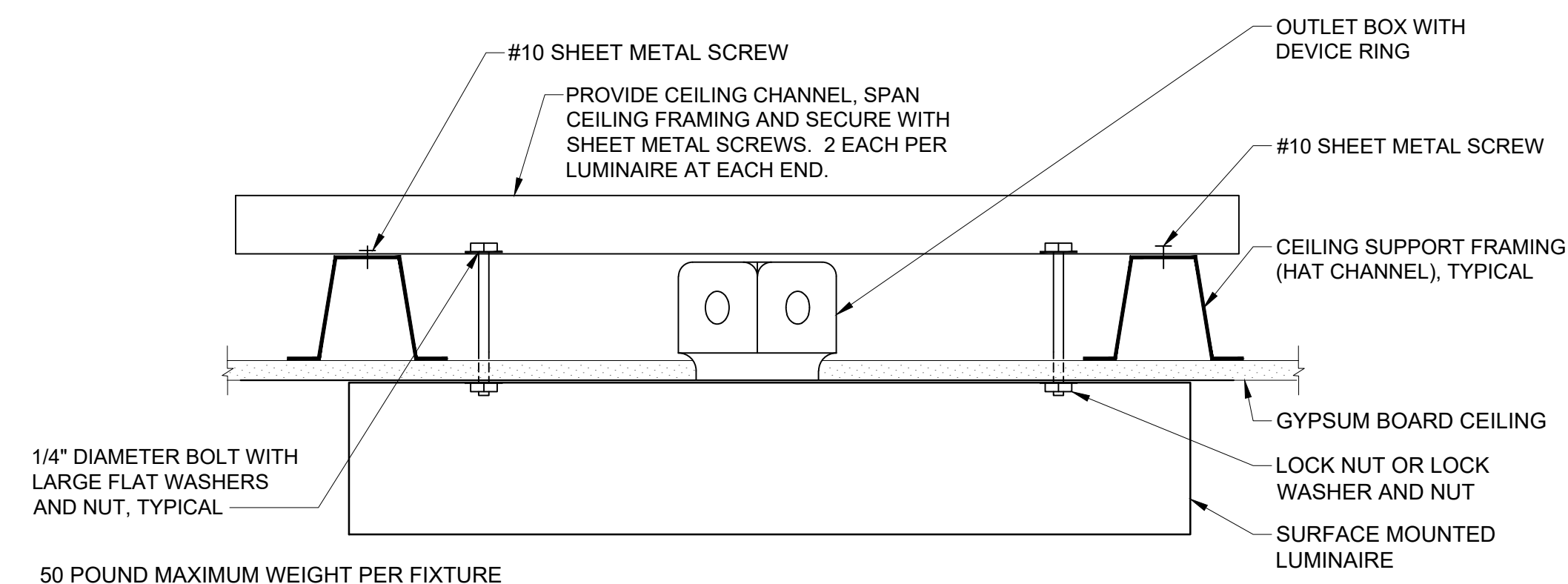
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E5.1

NO SCALE



3 SURFACE FIXTURE MOUNTING DETAIL

E5.1 NO SCALE

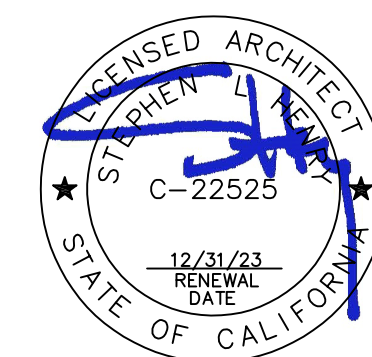


4 SURFACE FIXTURE MOUNTING DETAIL

E5.1 NO SCALE

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