

ABBREVIATIONS

Table of abbreviations and their corresponding full names, organized in columns. Includes terms like 'And', 'Angle', 'Architectural', 'Beam', 'Block', 'Board', 'Bottom', 'Building', 'Cabinet', 'Cable T.V.', 'Catch Basin', 'Ceiling', 'Cement', 'Center', 'Ceramic', 'Chain Link', 'Chalkboard', 'Classroom', 'Clear', 'Cold Water', 'Column', 'Concrete', 'Concrete Masonry Unit', 'CONN.', 'CONSTR.', 'CONSTR. C.J.', 'CONT.', 'CONTR.', 'CORR.', 'C.M.P.', 'C.Y.', 'CUST.', 'D.', 'DET./DTL.', 'DIAG.', 'DIA./Ø', 'DIM.', 'DIMPT.', 'D.A.', 'DW.', 'DR.', 'DR.', 'DBL.', 'DN.', 'D.S.', 'D.I.', 'DWG.', 'D.F.', 'EA.', 'ELEC.', 'E.W.C.', 'E.W.H.', 'EL/ELEV.', 'EMER.', 'ENCL.', 'EQ.', 'E.F.', '(E)EXST.', 'EXP.', 'E.J.', 'EXT.', 'F.O.C.', 'F.O.F.', 'F.O.S.', 'FB.'

DEFERRED SUBMITTALS

NO DEFERRED SUBMITTALS.

DSA NOTES

INSPECTOR CLASSIFICATIONS

- CLASS 3

ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR. A MINIMUM CLASS 3 INSPECTOR IS REQUIRED.

A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. A MINIMUM CLASS 3 INSPECTOR IS REQUIRED.

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

THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION TO BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317 (C), PART 1, TITLE 24, CCR)

ADDITIONAL NOTES

ENERGY EFFICIENCY STIMULUS (SEES) PROGRAM IS NOT USED FOR THIS PROJECT

DSA SUPPLEMENTARY CONDITIONS

- COMPLIANCE WITH TITLE 24, FOR PARTS 1-6 AND 9
- TITLE 24, PARTS 1-5 MUST BE KEPT ON SITE DURING CONSTRUCTION.
- ALL ADDENDA MUST BE SIGNED BY ARCHITECT AND APPROVED BY DSA PER CAC SEC. 4-338(B)
- ALL SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDA AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION. (CAC, SECTION 4-338(C), IR A-4933
- CONSTRUCTION CHANGE DOCUMENTS MUST BE SIGNED BY A/E OF RECORD, STRUCTURAL ENGINEER, DELEGATED PROFESSIONAL ENGINEER (WHEN APPLICABLE) AND DSA.
- PROJECT INSPECTOR AND TESTING LAB MUST BE EMPLOYED BY THE OWNER AND APPROVED BY A/E OF RECORD, STRUCTURAL ENGINEER, AND DSA.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)

GENERAL NOTES

- 1. SEE INDIVIDUAL SHEETS FOR LEGEND DESCRIPTIONS AND SHEET NOTES.
2. "ARCHITECT" AS USED IN THESE DOCUMENTS REFERS TO WESTGROUP DESIGNS.
3. REFERENCE TO MAKES, BRANDS, AND MODEL IS TO ESTABLISH TYPE AND QUALITY DESIRED. FOR PRODUCT SUBSTITUTION, THE CONTRACTOR SHALL SUBMIT PRODUCT DATA FOR THE PROPOSED SUBSTITUTE PRODUCT FOR COMPARISON. THE ARCHITECT SHALL ACCEPT OR REJECT THE PROPOSED SUBSTITUTION AS EQUAL.
4. "TYPICAL" OR "TYP" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS THE SAME OR REPRESENTATIVE FOR ALL SIMILAR CONDITIONS.
5. "SIMILAR" MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED.
6. INSTALL ALL FINISH MATERIALS AND MANUFACTURED SYSTEMS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AS REQUIRED FOR THE JOB SPECIFIC APPLICATION.
7. VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT FOR INSTRUCTION ON HOW TO PROCEED.
8. SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, THE ARCHITECT SHALL BE ASKED FOR CLARIFICATION. IF A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS IS BROUGHT TO THE ATTENTION OF THE ARCHITECT AFTER AWARD OF BID, NO ADDITIONAL COST TO THE PROJECT SHALL BE INCURRED FOR CLARIFYING TO PROCEED PER THE DRAWINGS OR SPECIFICATIONS.
9. DIMENSIONS:
a. DO NOT SCALE DRAWINGS.
b. ALL DIMENSIONS ARE TO THE FACE OF STUD, OR FACE OF CONCRETE, OR CENTERLINE OF COLUMN, UNLESS NOTED OTHERWISE.
c. CEILING HEIGHT DIMENSIONS ARE FROM FINISH FLOOR TO FACE OF FINISH OF CEILING MATERIAL, UNLESS NOTED OTHERWISE.
d. LARGE SCALE DRAWINGS SHALL GOVERN OVER SMALLER SCALE DRAWINGS.
e. FINISH FLOOR ELEVATIONS ARE TO TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
f. "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE.
10. WHERE NOTED "V.I.F." OR "VERIFY", THE DIMENSIONS ARE TO BE CHECKED IN THE FIELD. NOTIFY THE ARCHITECT IF THE FIELD DIMENSIONS ARE NOT SUITABLE FOR THE INTENDED PURPOSE.
11. VERIFY SIZES AND LOCATIONS OF ALL MECHANICAL EQUIPMENT PADS AND BASES AS WELL AS POWER AND WATER OR DRAIN INSTALLATIONS WITH EQUIPMENT MANUFACTURERS BEFORE PROCEEDING WITH THE WORK. CHANGES TO ACCOMMODATE FIELD CONDITIONS OR SUBSTITUTIONS SHALL BE MADE WITHOUT ADDITIONAL CHARGES TO OWNER.
12. PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, AND SEALANT AS REQUIRED FOR PROPER INSTALLATION OF THE WORK.
13. ALL BUILDING OR SITE CONSTRUCTION RUBISH AND DEBRIS SHALL BE REMOVED AND FLOORS SWEEP CLEAN ON A DAILY BASIS; RUBISH AND DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE IN THE BUILDING OR ON SITE.

PROJECT DIRECTORY

OWNER:
VICTOR ELEMENTARY SCHOOL DISTRICT
12219 2ND AVE, VICTORVILLE, CA 92395

Contact:
Joe Pont, Director of Facilities
jpont@vcsd.net

ARCHITECT:
WESTGROUP DESIGNS
19520 JAMBOROE ROAD, STE #100
IRVINE, CA 92612
(949) 250-0880

Contact:
JOSHUA SMITH
joshuas@westgroupdesigns.com
(949) 250-0880

CONSULTANTS:
MECHANICAL
PEZESHKI ENGINEERING, INC
1920 E. WARNER AVE., Suite 3-4H
SANTA ANA, CA 92705
MATTHEW PEZESHKI
EMAIL: mpezeshki@pei-eng.com
PHONE: (949) 903-3205

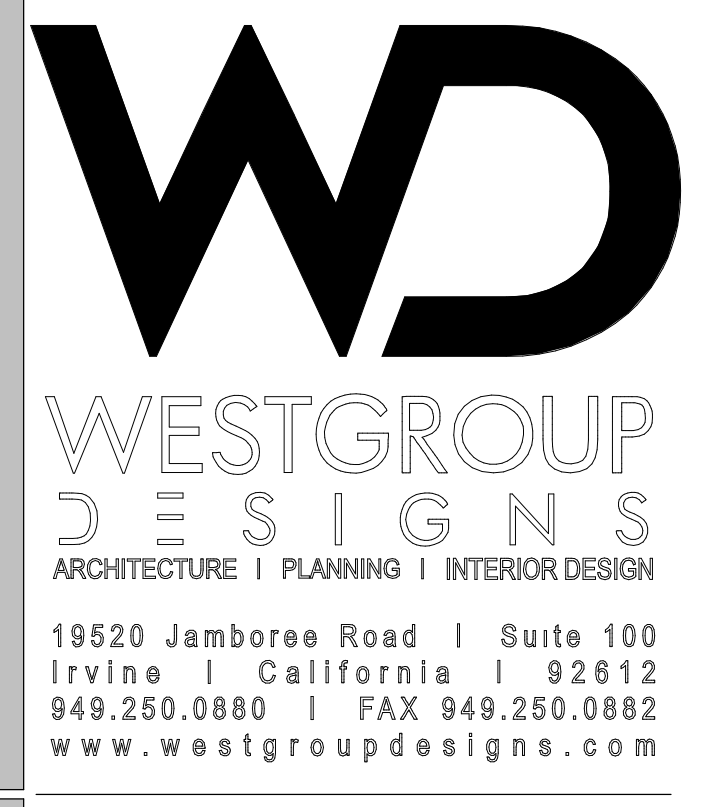
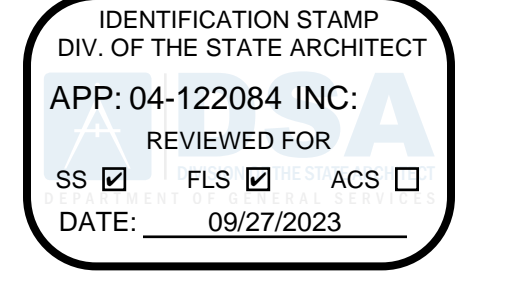
ELECTRICAL
AG DESIGN
2100 W. ORANGEWOOD AVE. SUITE 165
ORANGE, CA 92668
GARY MCFARLAND
gmcfarland@agdesigneng.com
(714) 392-2728

STRUCTURAL ENGINEERING
KNA STRUCTURAL ENGINEERING
9631 MUIRLANDS BLVD.
IRVINE, CA 92618
CONTACT NAME: JOSH RANDALL
EMAIL: jrandall@knastructural.com
PHONE: (949) 462-3200

SHEET INDEX

Table with columns SHEET # and SHEET NAME. Lists cover sheets, architectural sheets (AD-1.1 to AD-1.4), mechanical sheets (M0-1.0 to M2-1.4), and electrical sheets (E000 to E7-1.1).

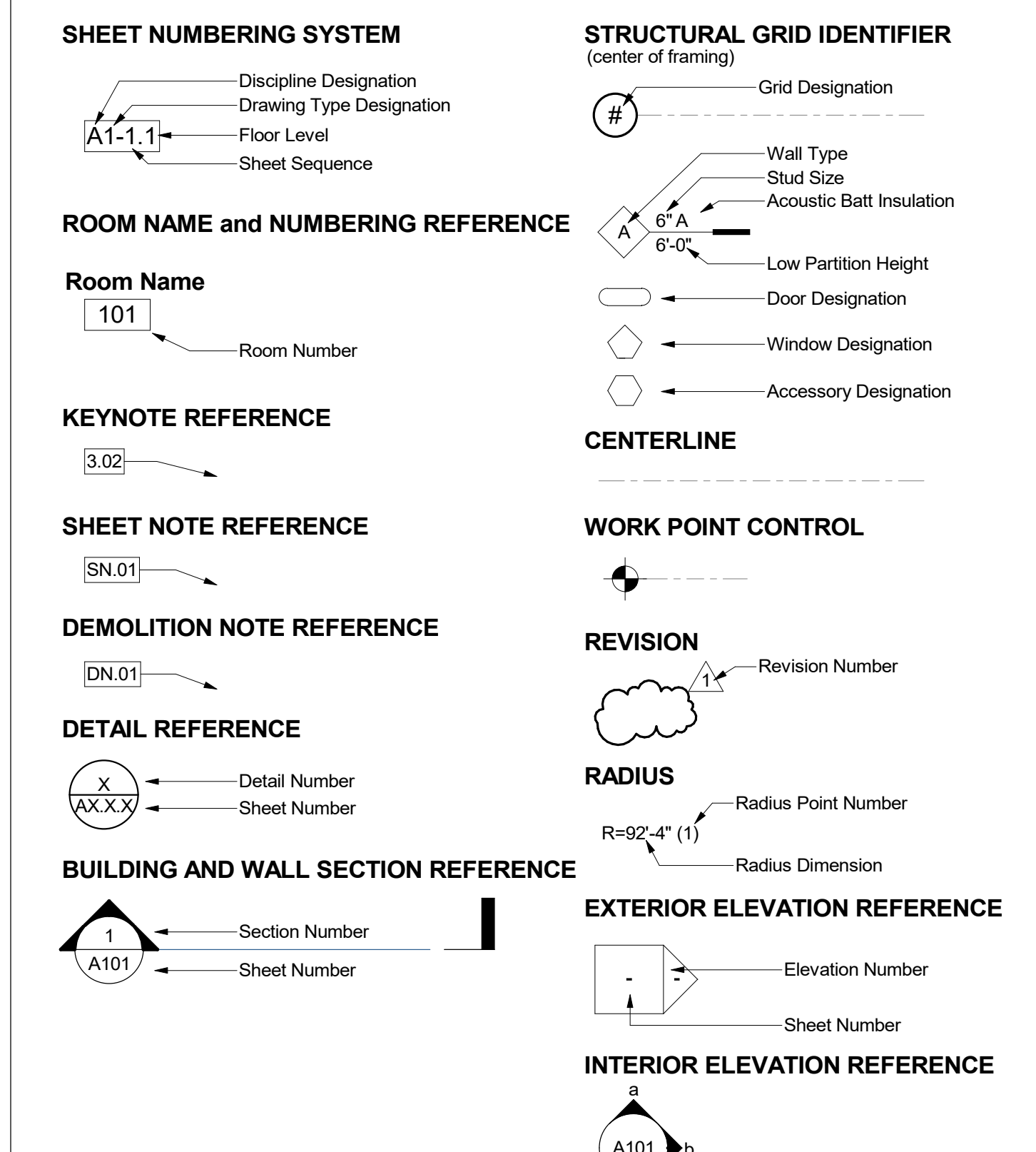
TOTAL # OF SHEETS: 36



SIXTH STREET PREP STREAM
VICTOR ELEMENTARY SCHOOL DISTRICT
15476 6th St, Victorville, CA 92395

Table with columns: ISSUED FOR, PRICING PACKAGE, DSA REVIEW, DSA SUBMITTAL, and dates.

SYMBOL LEGEND



APPLICABLE CODES

- ALL WORK SHALL CONFORM TO TITLE 24 OF THE CALIFORNIA CODE OF REGULATIONS 2022 EDITION PARTS 1 THROUGH 12:
LIST OF APPLICABLE CODES
2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
2022 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN), PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCE STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
APPLICABLE STANDARDS
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 CFC CHAPTER 80

SCOPE OF WORK

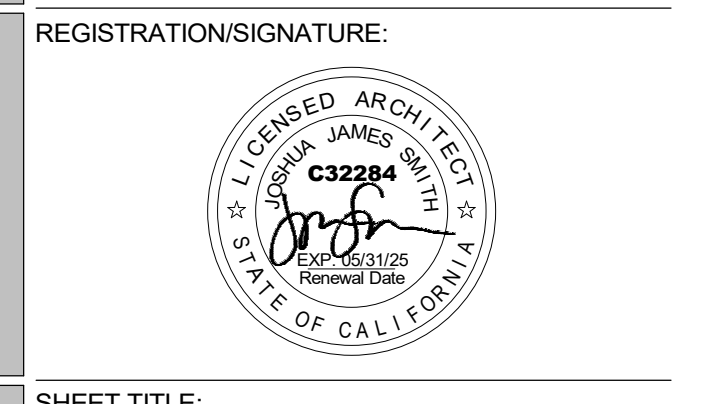
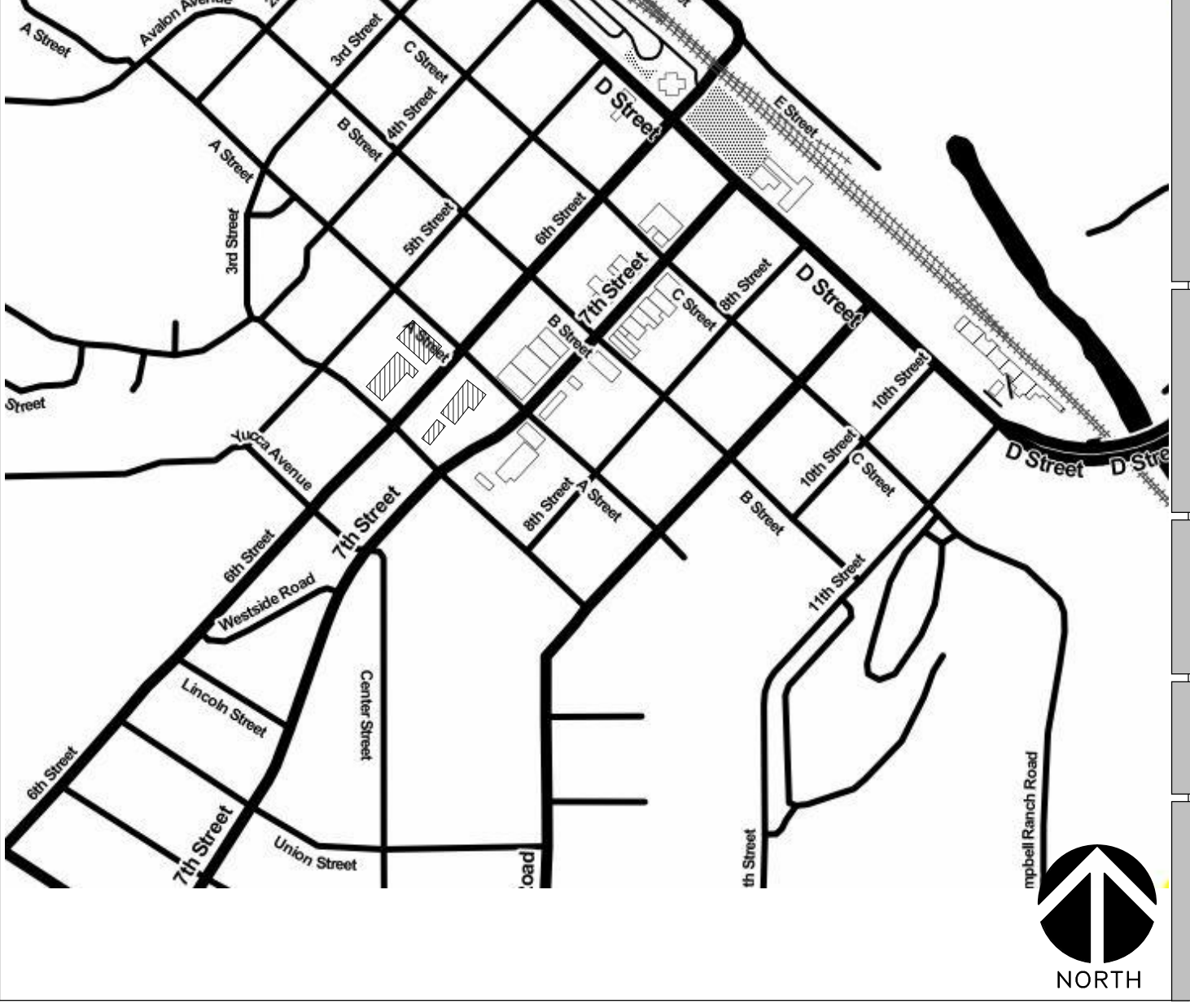
PROJECT DESCRIPTION:
PROJECT INCLUDES THE FOLLOWING BUT NOT LIMITED TO: ALL WORK REQUIRED TO REMOVE AND REPLACE EXISTING HVAC UNITS WITH NEW UNITS OF SAME TONNAGE AND HIGHER ENERGY EFFICIENCY. NO CHANGE OF OCCUPANCIES; NO SQUARE FOOTAGE INCREASE.

STATEMENT OF GENERAL CONFORMANCE

USE OF CONSTRUCTION DOCUMENTS PREPARED BY OTHER PROFESSIONALS
IR A-18, TITLE 24, PART 1, SECTION 4-316.4-317
Application No. <<04-122084>> File No. <<#-#>>
All Structural, Mechanical, Electrical, and Plumbing drawings as listed in the sheet index above have been prepared by other design professionals or consultants who are licensed and/or authorized to prepare such drawings in this State. They have been examined by me for: 1) design intent and appear to meet the appropriate requirements of Title 24, California Code of Regulations and the project specifications, and 2) coordination with my plans and specifications and are acceptable for incorporation into the construction of this project.
The Statement of General Conformance "shall not be construed as relieving me of my rights, duties, and responsibilities under Sections 17302 and 81138 of the Education Code and Sections 4-336, 4-341 and 4-344" of Title 24, Part 1, (Title 24, Part 1, Section 4-317 (b))

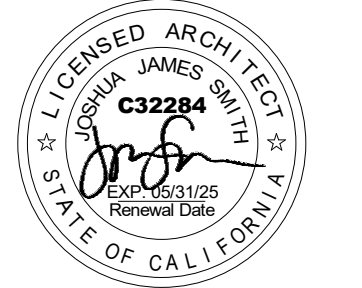
Certification box with signature of Joshua James Smith, dated 03/29/2023, and license information (C-32284, expires 05.31.23).

VICINITY MAP



Project information table: SHEET TITLE: PROJECT INFORMATION, SHEET NUMBER: CS-0.2, WD PROJ. # 22825, DRAWN BY MS/YA, CHECKED MC/CW, DATE 05/03/23, © WESTGROUP DESIGNS, INC.

REVISIONS:

REGISTRATION/SIGNATURE:



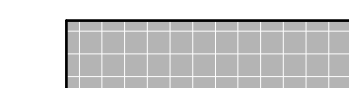

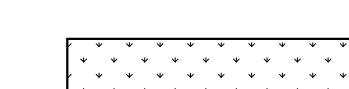

SHEET TITLE:
OVERALL EXISTING SITE PLAN

SHEET NUMBER:
A0-1.1

WD PROJ # 22825 | DRAWN BY MS | CHECKED MC/CW | DATE 05/03/23

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LEGEND

-  FIRE ACCESS LANE
-  CONCRETE PAVING
-  ASPHALT PAVING
-  GRASS / LANDSCAPING
-  EXISTING BUILDING - NOT A PART OF THE WORK SCOPE

GENERAL NOTES

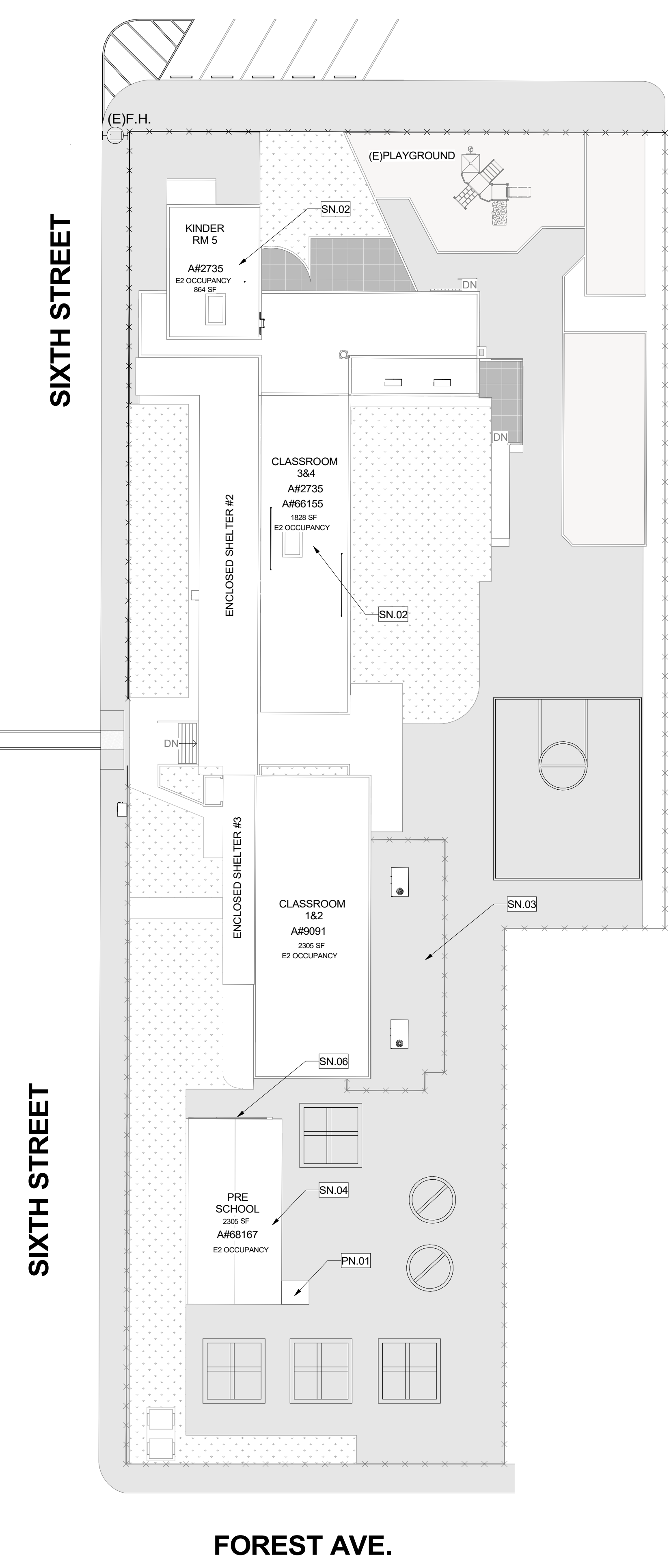
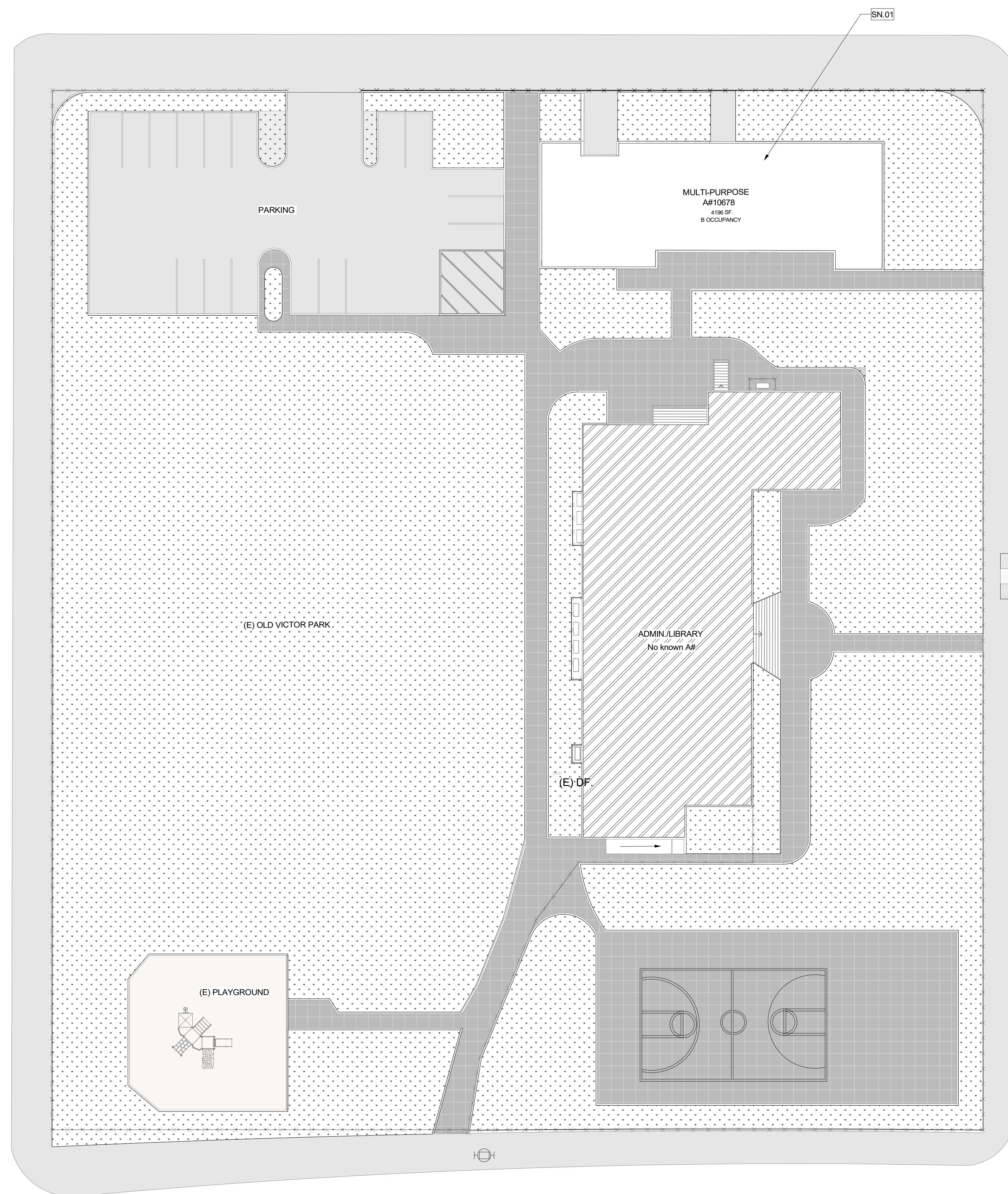
SHEET KEYNOTES / SN ##

- | | |
|------------|--|
| SN# | DESCRIPTION |
| PN.01 | (E) CARGO CONTAINER |
| SN.01 | SEE BUILDING MULTI-PURPOSE FOR PROPOSED WORK - SHEET A5-1.3 |
| SN.02 | SEE BUILDING KINDERGARTEN AND CLASSROOM 3 & 4 FOR PROPOSED WORK - SHEET A5-1.1 |
| SN.03 | SEE BUILDING CLASSROOM 1&2 FOR PROPOSED WORK - SHEET A5-1.2 |
| SN.04 | SEE BUILDING RELOCATABLE PRESCHOOL FOR PROPOSED WORK - SHEET A5-1.4 |
| SN.06 | PROVIDE DRYWELL FOR CONDENSATE RUN OFF - SEE MECHANICAL DRAWING M0-2.1 |

DSA APPLICATION NUMBERS

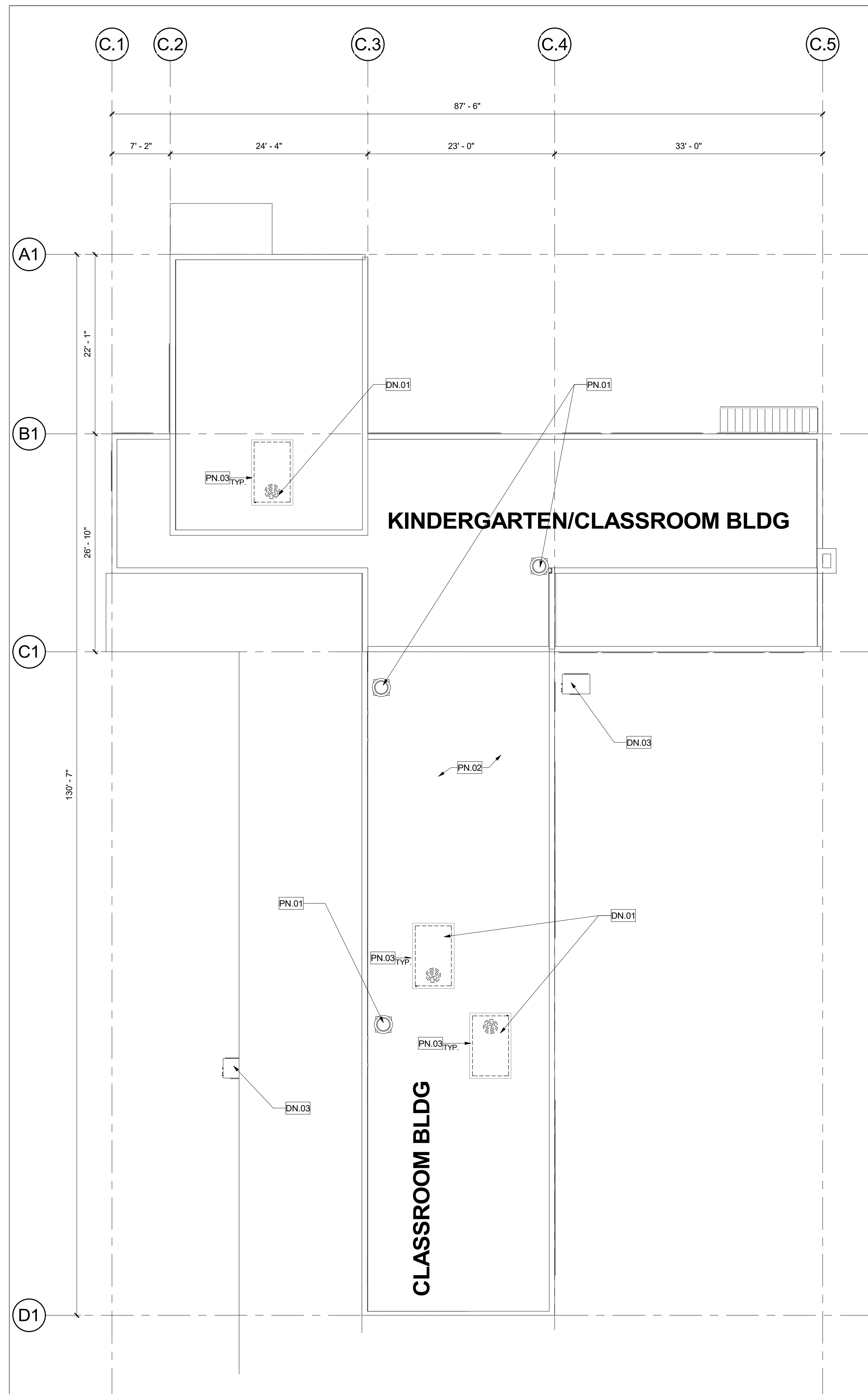
BUILDING	DSA - A#	SCOPE
MULTI-PURPOSE	10678	NEW BUILDING
KINDERGARTEN	2735	NEW BUILDING
CLASSROOM 1 & 2	9091	CLASSROOM ADDITION
PRE-SCHOOL	68167	NEW BUILDING

KEY PLAN



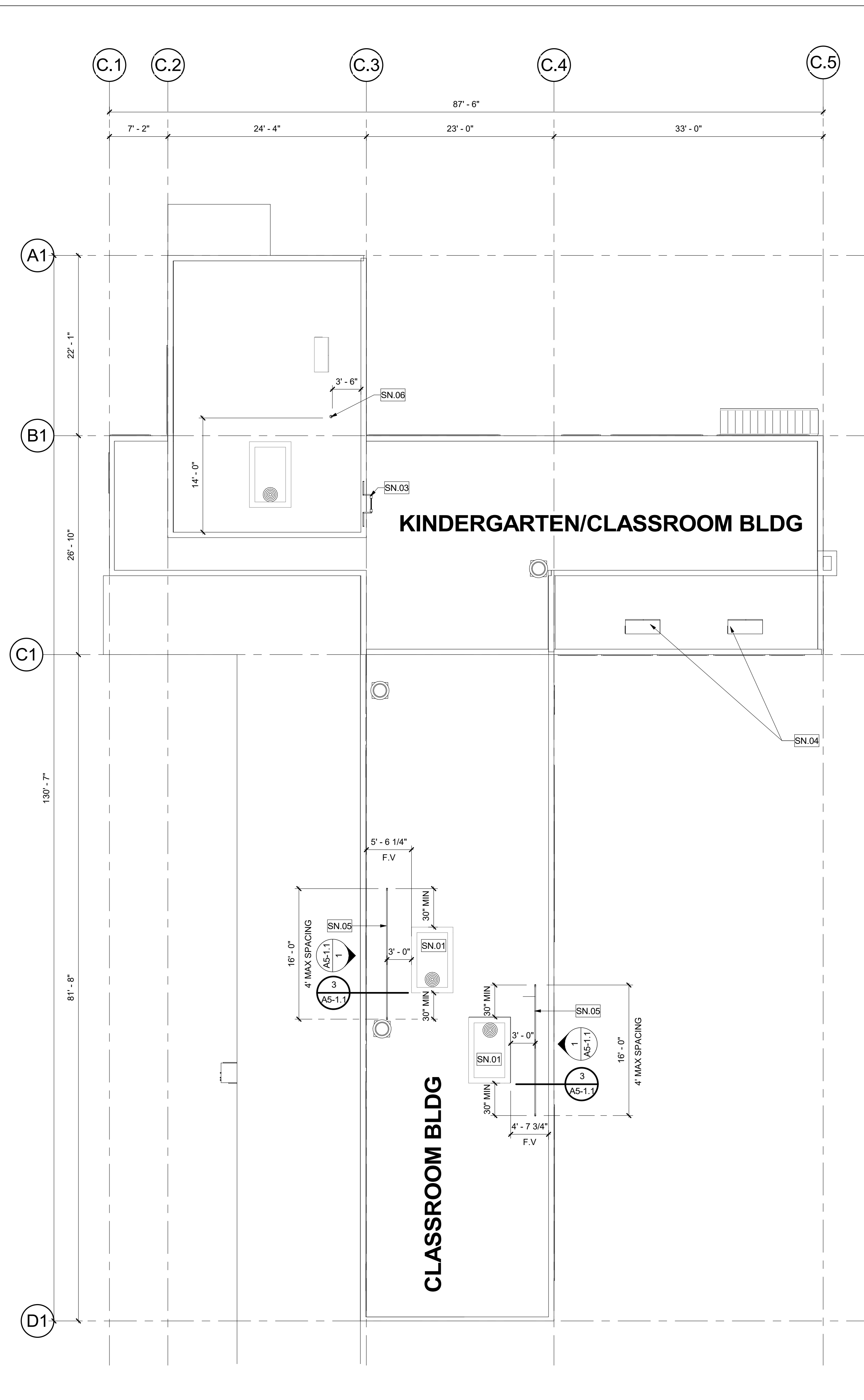
OVERALL EXISTING O SITE PLAN

1
 1" = 20'-0"



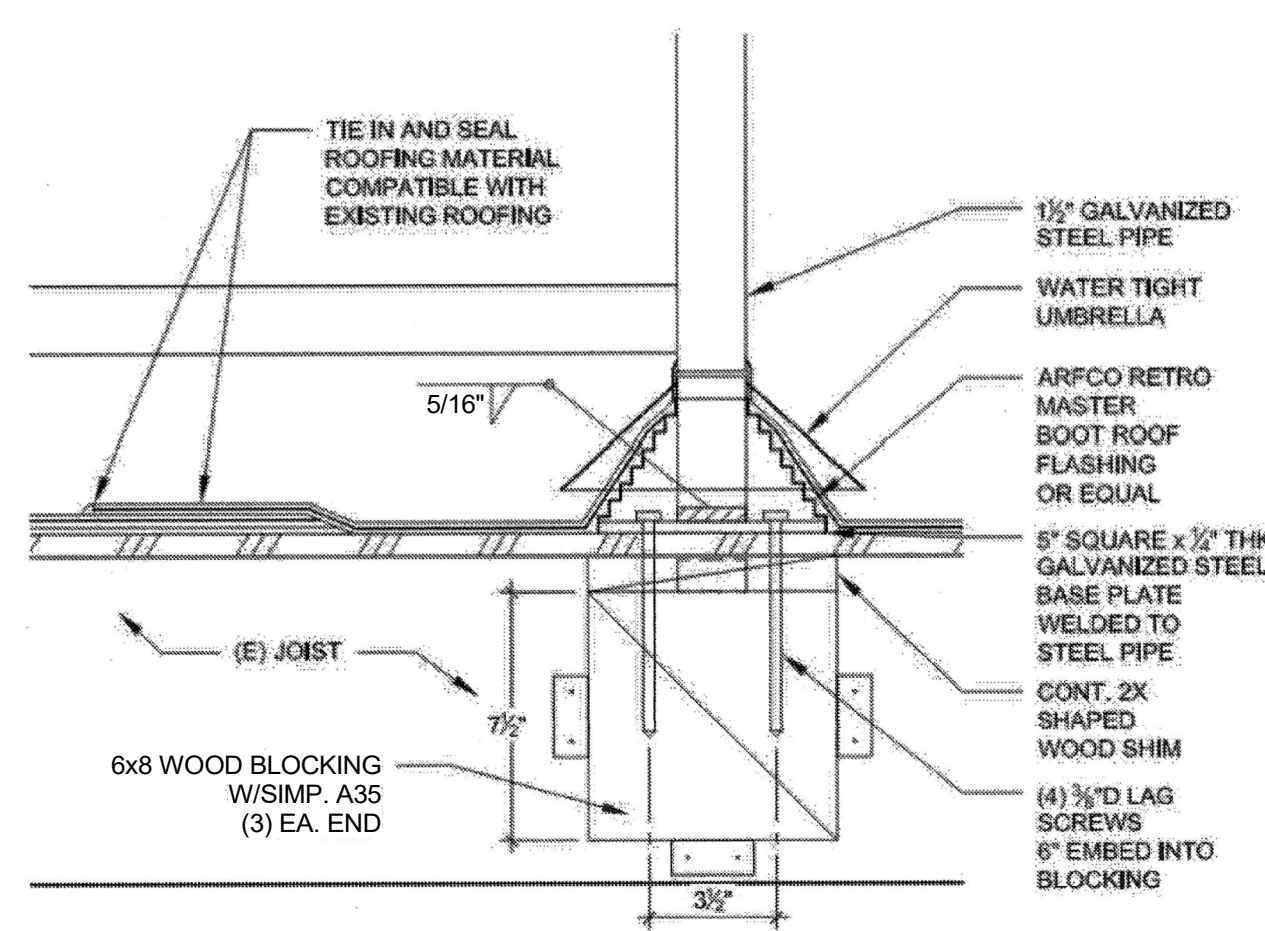
DEMOLITION ROOF PLAN - KINDERGARTEN

4
1/8" = 1'-0"



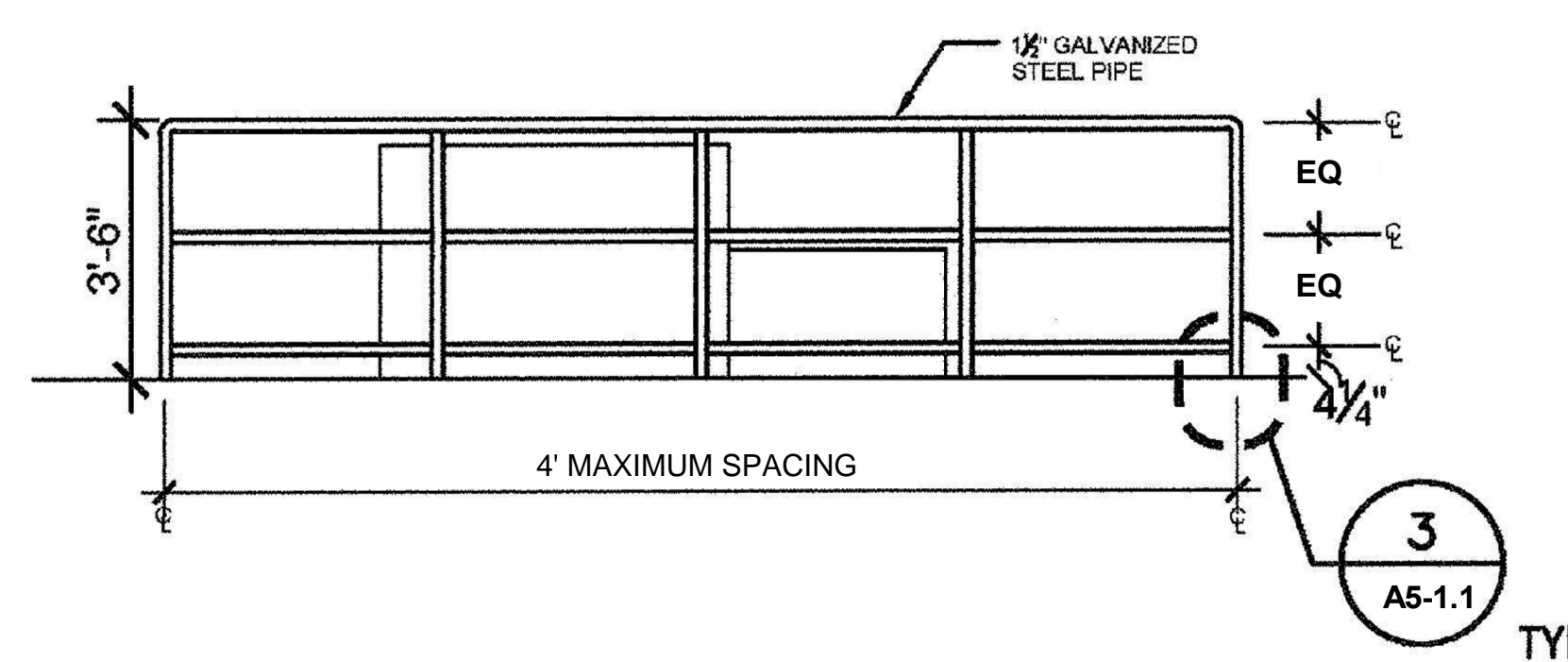
RENOVATION ROOF PLAN - KINDERGARTEN

2
1/8" = 1'-0"



GUARDRAIL ATTACHMENT DETAIL

3
6" = 1'-0"

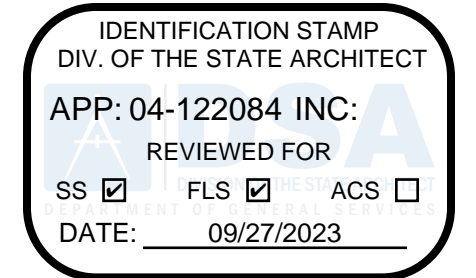


GUARDRAIL ELEVATION DETAIL

1
6" = 1'-0"

GENERAL NOTES

- PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
- EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
- FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER 33.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.



SIXTH STREET PREP STREAM
VICTOR ELEMENTARY SCHOOL DISTRICT
15476 6th St, Victorville, CA 92395

PROTECTION KEYNOTES

PN#	DESCRIPTION
PN.01	(E) ROOF MOUNTED EXHAUST FAN TO REMAIN
PN.02	(E) STANDING SEAM ROOFING
PN.03	EXISTING CURBS TO REMAIN AND PROTECT IN PLACE

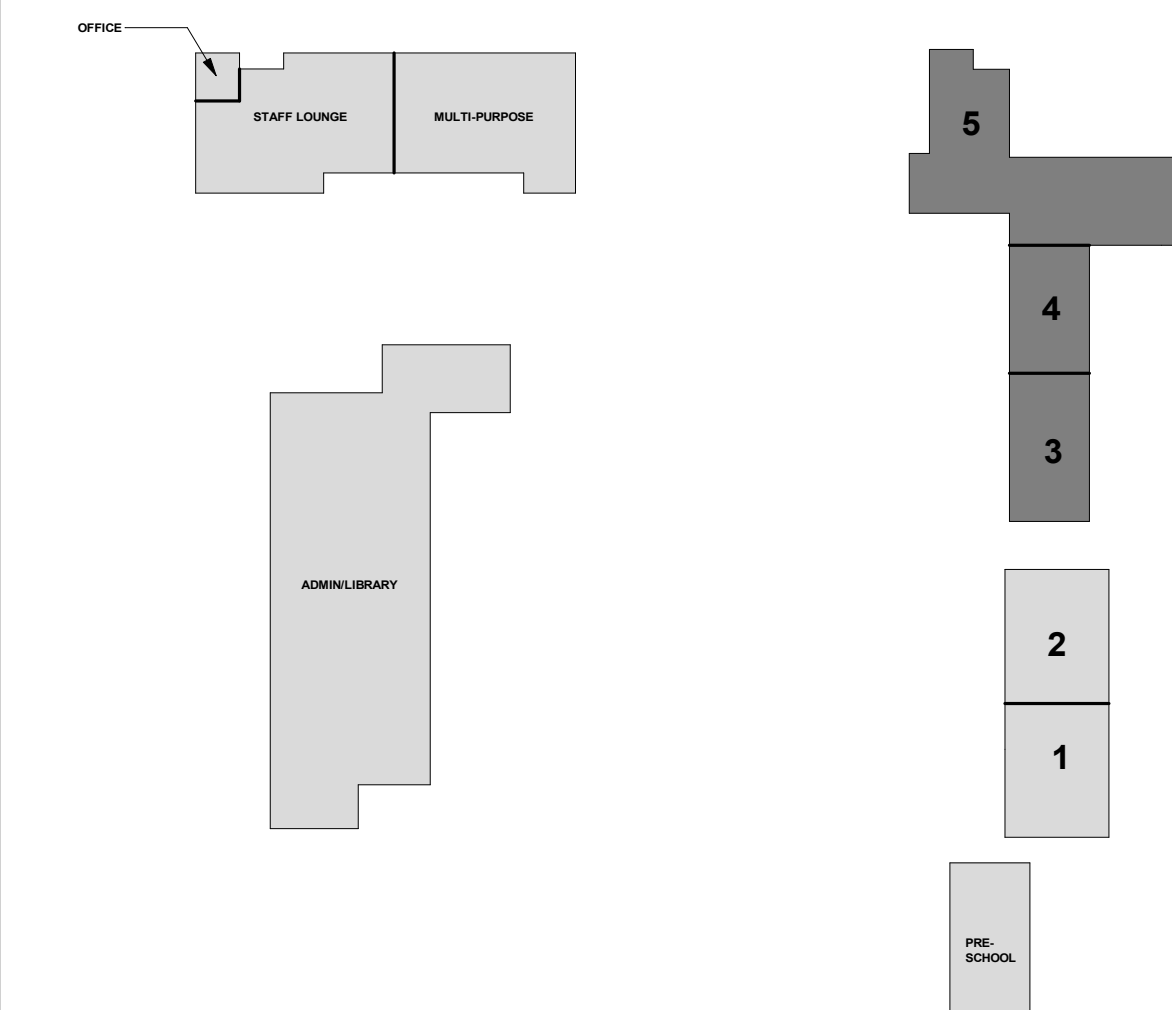
DEMOLITION KEYNOTES

DN#	DESCRIPTION
DN.01	REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT
DN.03	REMOVE EXISTING WALL MOUNTED HEAT PUMP UNIT

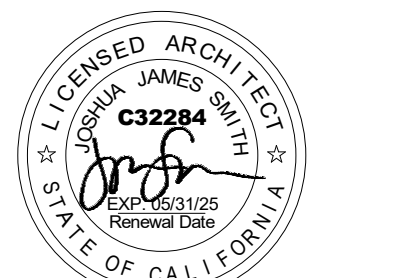
RENOVATION KEYNOTES

SN#	DESCRIPTION
SN.01	REPLACEMENT ROOFTOP AIR CONDITIONING UNIT
SN.03	REPLACEMENT ROOF ACCESS LADDER TO UPPER ROOF DECK
SN.04	REPLACEMENT WALL MOUNTED SPLIT AIR CONDITIONERS
SN.05	GUARD RAIL FOR FALL PROTECTION
SN.06	EQUIPMENT TIE - BACK - SEE DETAIL 1/AS-1.4

KEY PLAN



REGISTRATION/SIGNATURE:



SHEET TITLE:

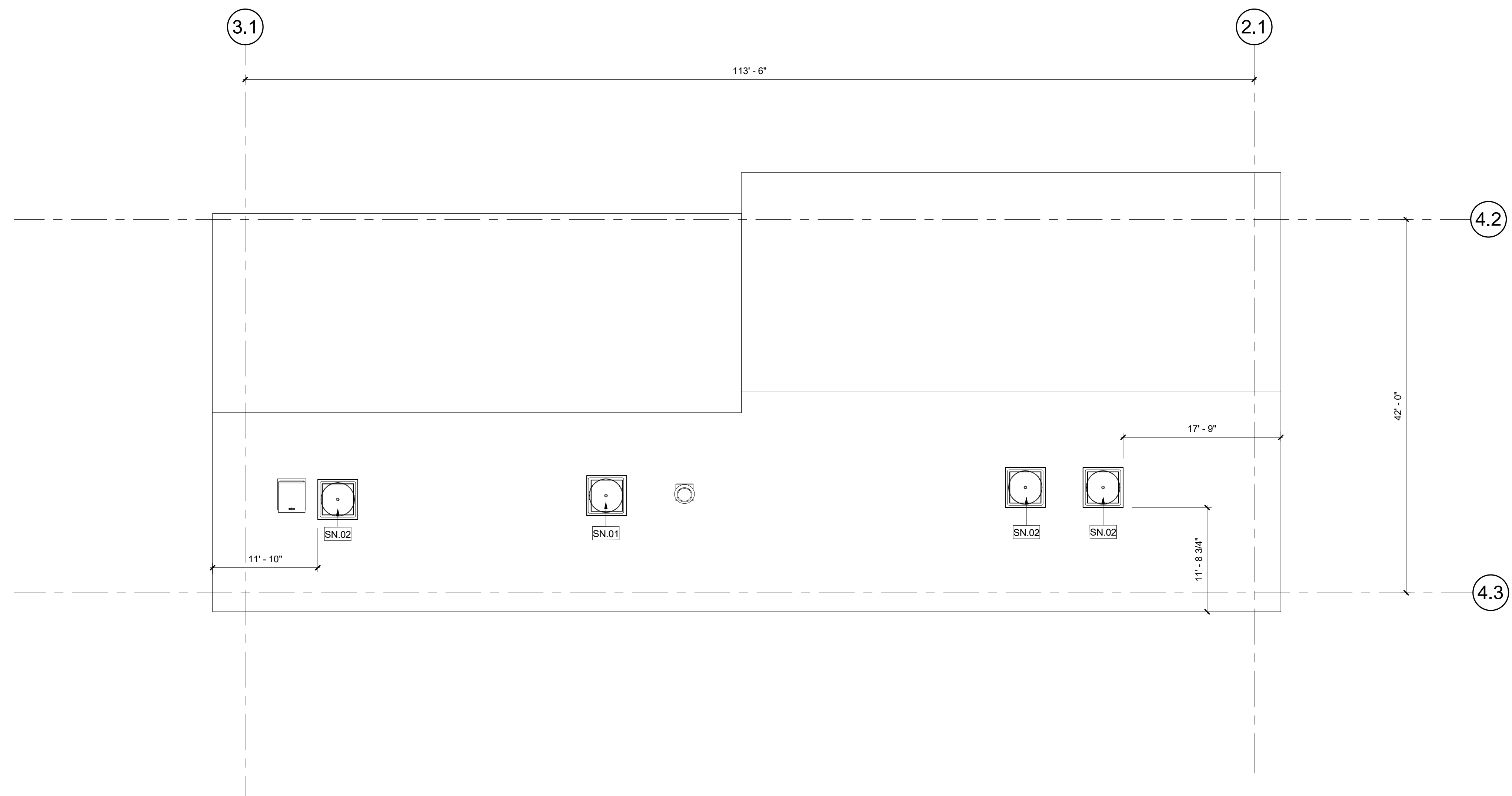
ROOF PLANS - KINDERGARTEN

SHEET NUMBER:

A5-1.1

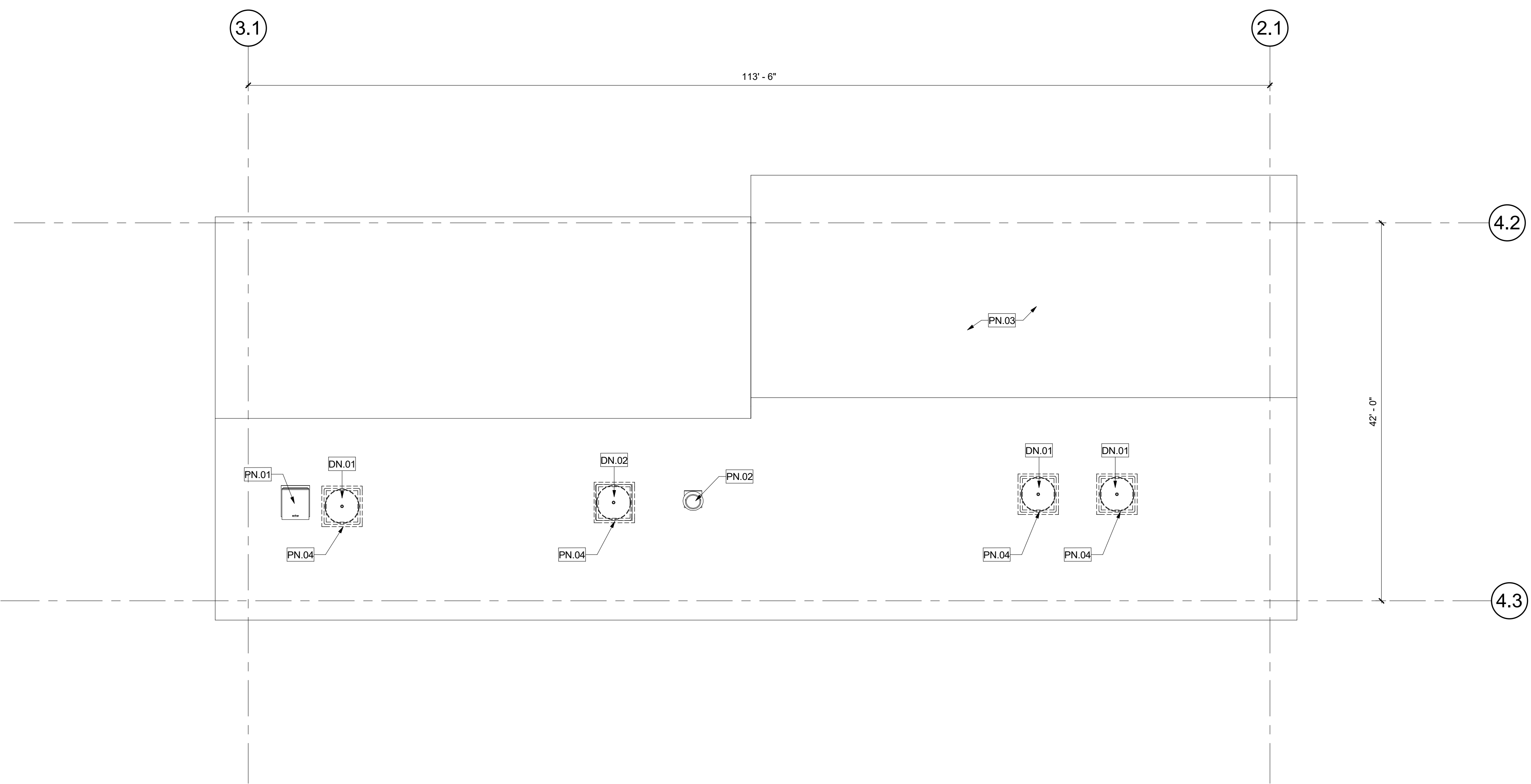
WD PROJ # 22825 | DRAWN BY MS | CHECKED MC/CW | DATE 05/03/23

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RENOVATION ROOF PLAN - MULTI-PURPOSE

2
1/8" = 1'-0"



DEMOLITION ROOF PLAN - MULTI-PURPOSE

1
1/8" = 1'-0"

GENERAL NOTES

- PATCH, REPAIR, OR REPLACE EXISTING MATERIALS DAMAGED BY WORK. PAINT ANY PATCHED AND REPAIRED SURFACES TO MATCH EXISTING COLOR AND FINISH.
- EXECUTION OF WORK SHALL BE DONE WITH APPLICABLE MATERIALS SO THAT SURFACES REPLACED WILL UPON COMPLETION MATCH SURROUNDING SURFACES OF SAME MATERIAL.
- FIRE PROTECTION DURING DEMOLITION AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH 2022 CFC, CHAPTER 33.
- REFER TO MECHANICAL DRAWINGS FOR MECHANICAL SCOPE OF WORK.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 04-122084 INC.
REVIEWED FOR
SS FLS ACS
DATE: 09/27/2023

WD
WESTGROUP
DESIGNS
ARCHITECTURE | PLANNING | INTERIOR DESIGN
19520 Jamboree Road | Suite 100
Irvine | California | 92612
949.250.0880 | FAX 949.250.0882
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SIXTH STREET PREP
STREAM
VICTOR
ELEMENTARY
SCHOOL DISTRICT
15476 6th St, Victorville, CA
92395

ISSUED FOR:	02-10-2023
PRICING PACKAGE	06-10-2023
DSA REVIEW	06-10-2023
DSA SUBMITTAL	06/02/23

REVISIONS:

PROTECTION KEYNOTES

PN#	DESCRIPTION
PN.01	(E) ROOF HATCH TO REMAIN - PROTECT IN PLACE DURING CONSTRUCTION
PN.02	(E) ROOFTOP EXHAUST FANS TO REMAIN
PN.03	(E) STANDING SEAM ROOFING
PN.04	(E) ROOF CURB TO REMAIN

DEMOLITION KEYNOTES

DN#	DESCRIPTION
DN.01	REMOVE EXISTING ROOFTOP AIR CONDITIONING UNIT
DN.02	REMOVE ROOFTOP EVAPORATIVE COOLER

RENOVATION KEYNOTES

SN#	DESCRIPTION
SN.01	REPLACEMENT ROOFTOP EVAPORATIVE COOLER
SN.02	REPLACEMENT ROOFTOP AIR CONDITIONING UNIT

KEY PLAN



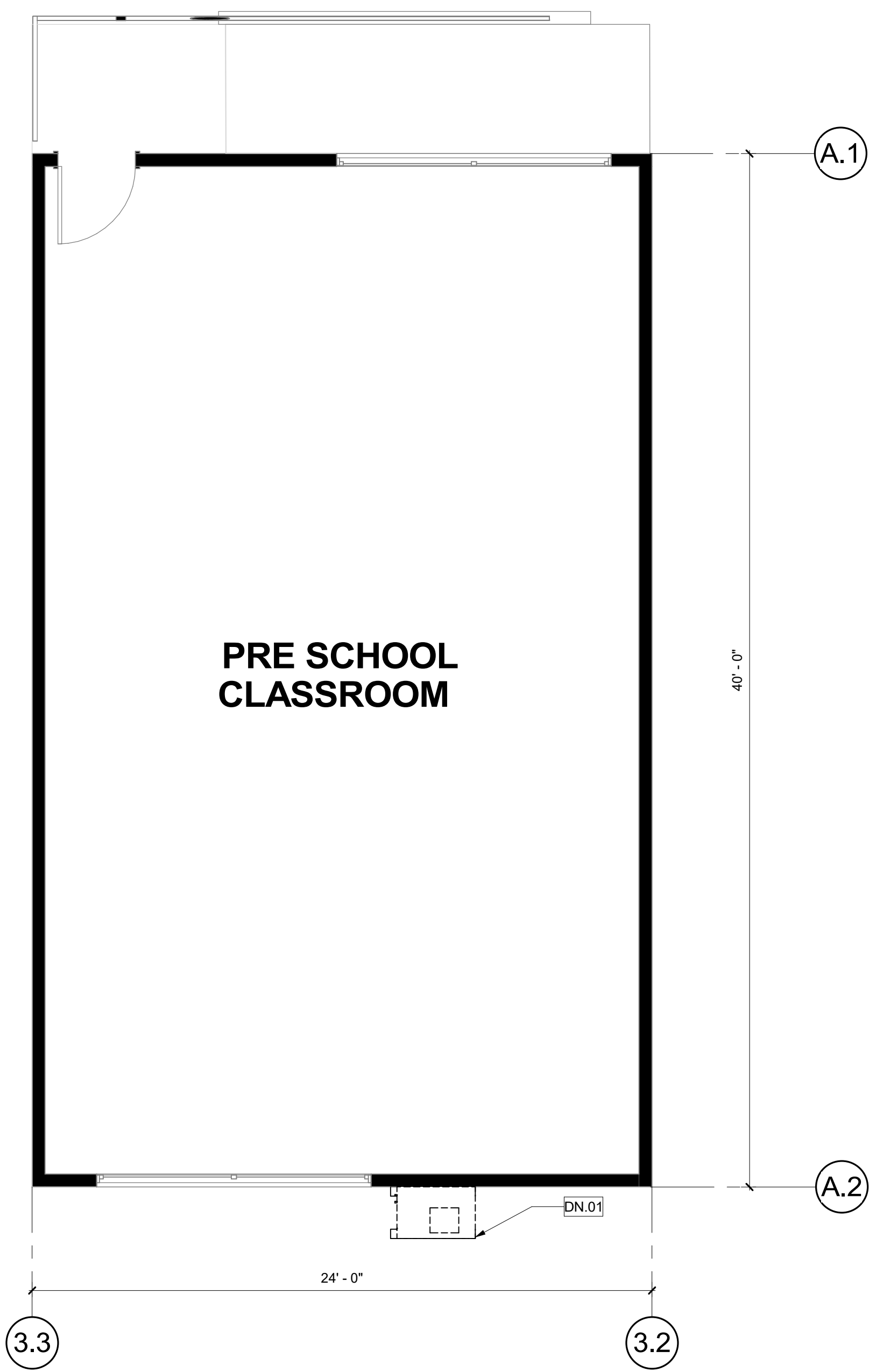
REGISTRATION/SIGNATURE:

SHEET TITLE:
ROOF PLANS - MULTI-PURPOSE

SHEET NUMBER:
A5-1.3

WD PROJ #	DRAWN BY	CHECKED	DATE
22825	MS	MC/CW	05/03/23

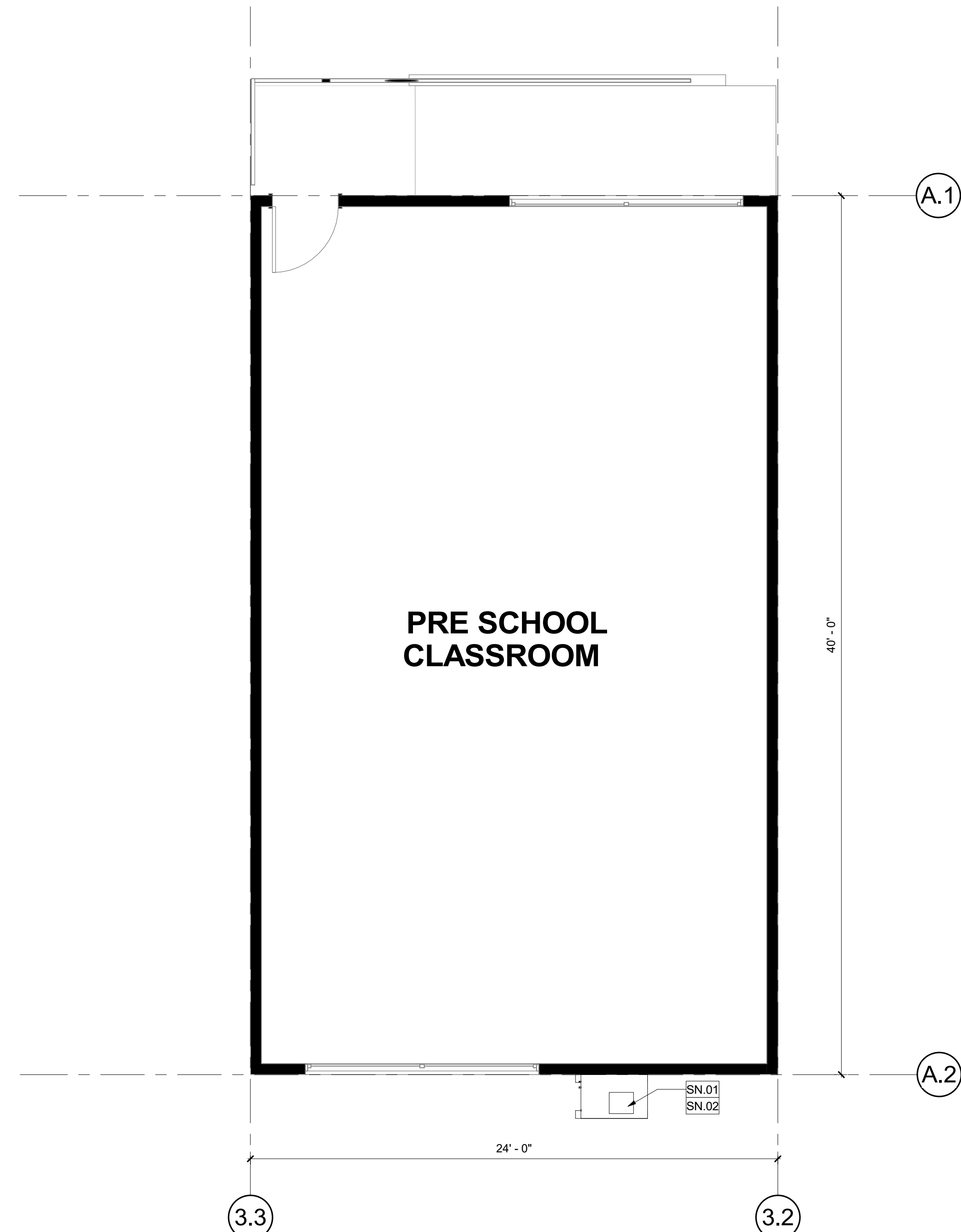
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DEMOLITION FLOOR PLAN - MODULAR UNIT

4

1/4" = 1'-0"



RENOVATION FLOOR PLAN - MODULAR UNIT

2

1/4" = 1'-0"

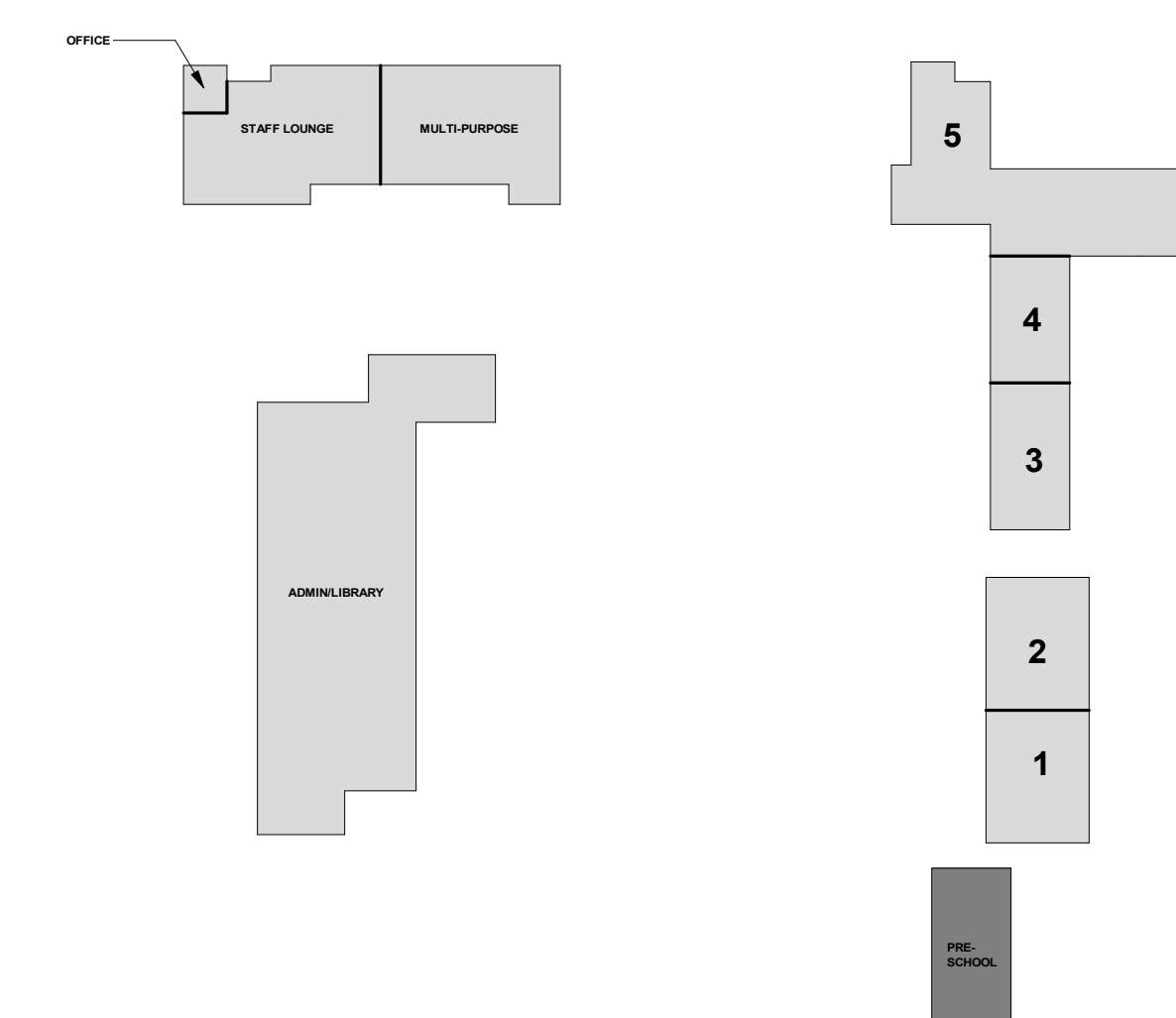
DEMOLITION KEYNOTES

DN#	DESCRIPTION
DN.01	REMOVE EXISTING WALL MOUNTED HEAT PUMP UNIT

RENOVATION KEYNOTES

SN#	DESCRIPTION
SN.01	WALL MOUNTED HEAT PUMP UNIT
SN.02	PROVIDE DRYWELL AT HARDSCAPE TO CAPTURE CONDENSATE RUN-OFF - SEE MECHANICAL DRAWING FOR DETAILS/ MD-2.1

KEY PLAN



REGISTRATION/SIGNATURE:

SHEET TITLE:
**FLOOR PLANS -
RELOCATABLE
(SINGLE UNIT)**

SHEET NUMBER:
A5-1.4

WD PROJ # 22825 | DRAWN BY MS | CHECKED MC/CW | DATE 05/03/23

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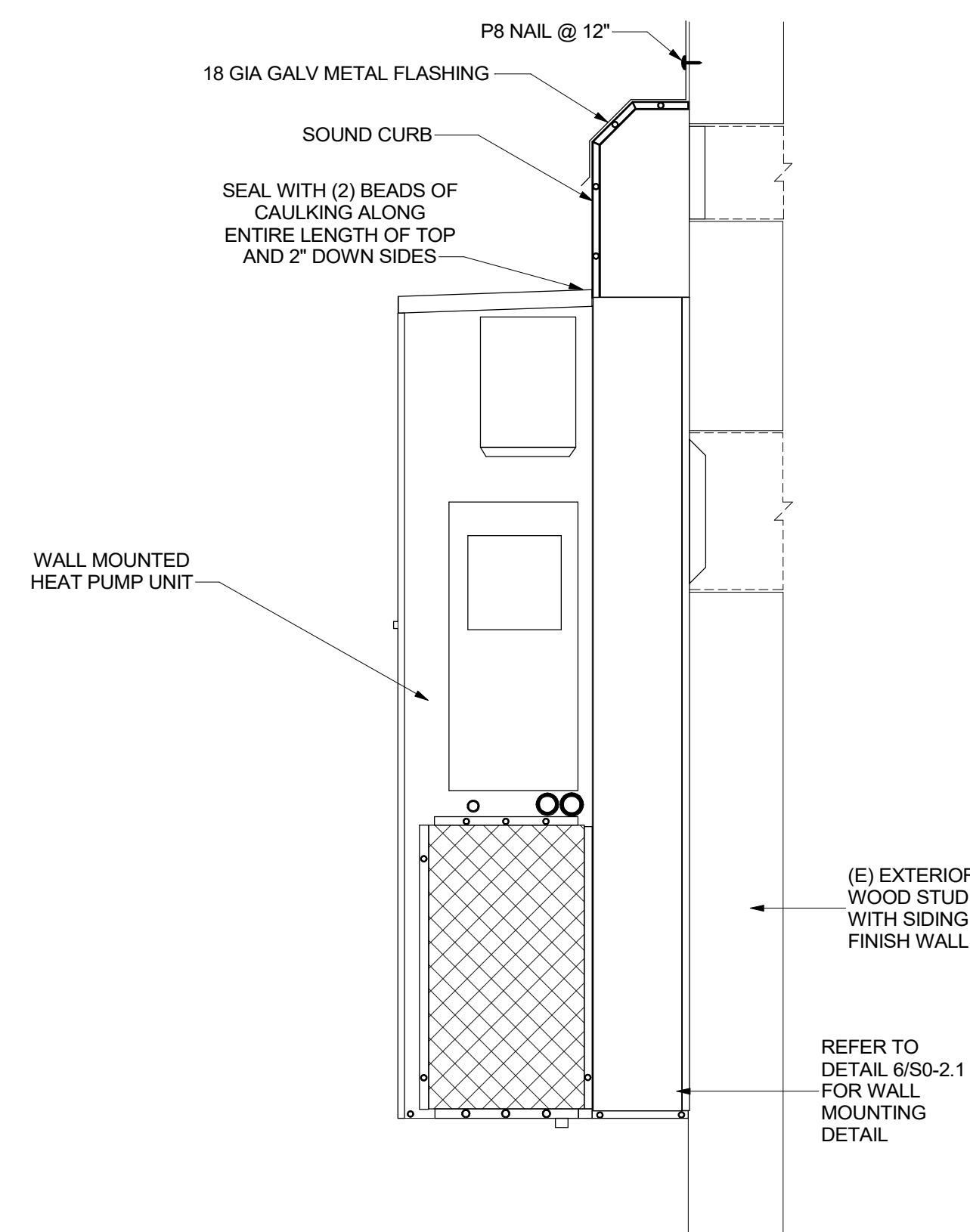
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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SS FLS ACS
DATE: 09/27/2023

WD
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92395

ISSUED FOR: 02-10-2023
PRICING PACKAGE: 02-10-2023
DSA REVIEW: 02-10-2023
DSA SUBMITTAL: 08/02/23

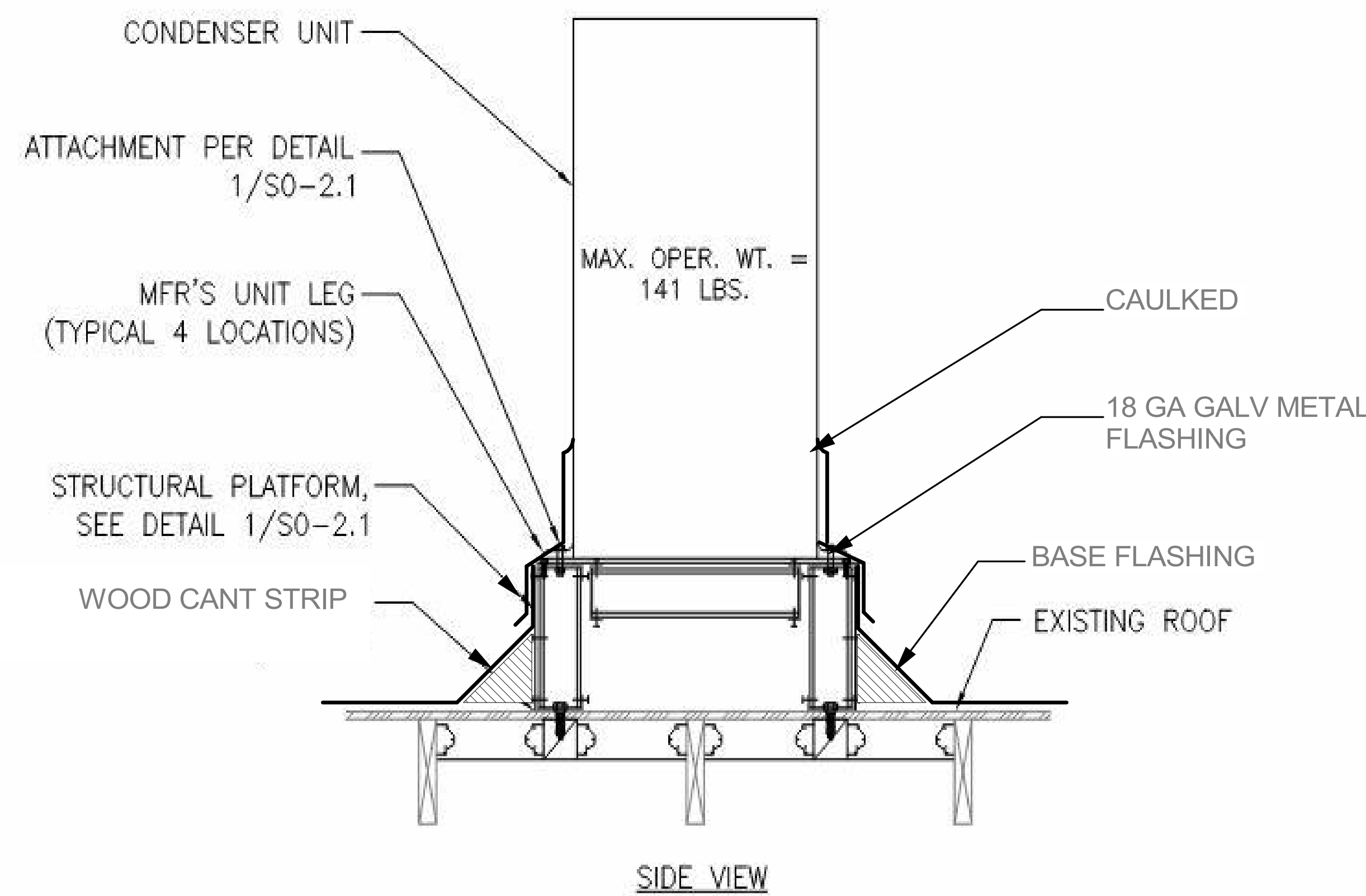
REVISIONS:



BARD A/C UNIT INSTALLATION DETAILS

5

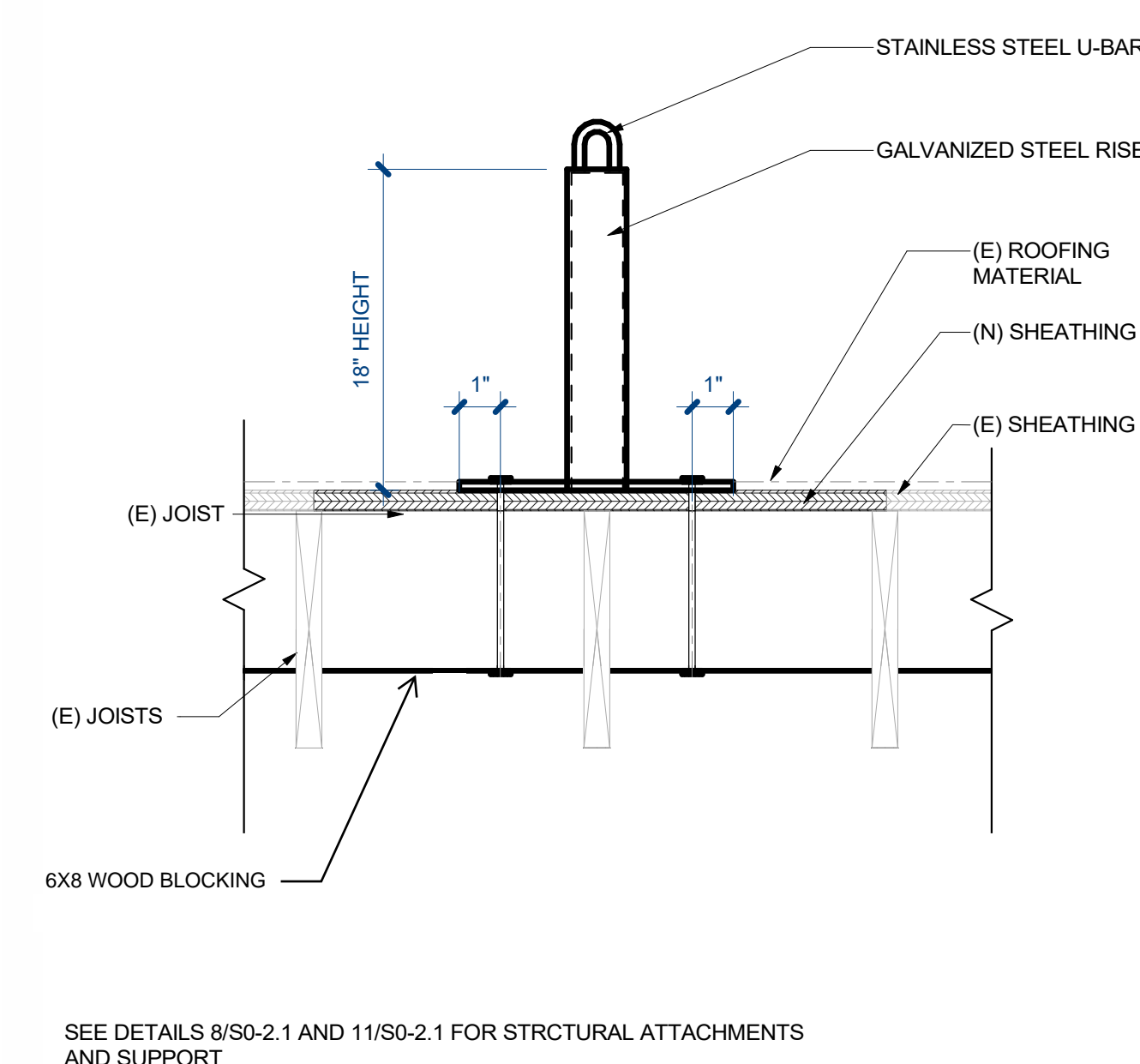
6" = 1'-0"



MECHANICAL EQUIPMENT CURB FLASHING DETAIL

3

6" = 1'-0"



TIE BACK ATTACHMENT DETAIL

1

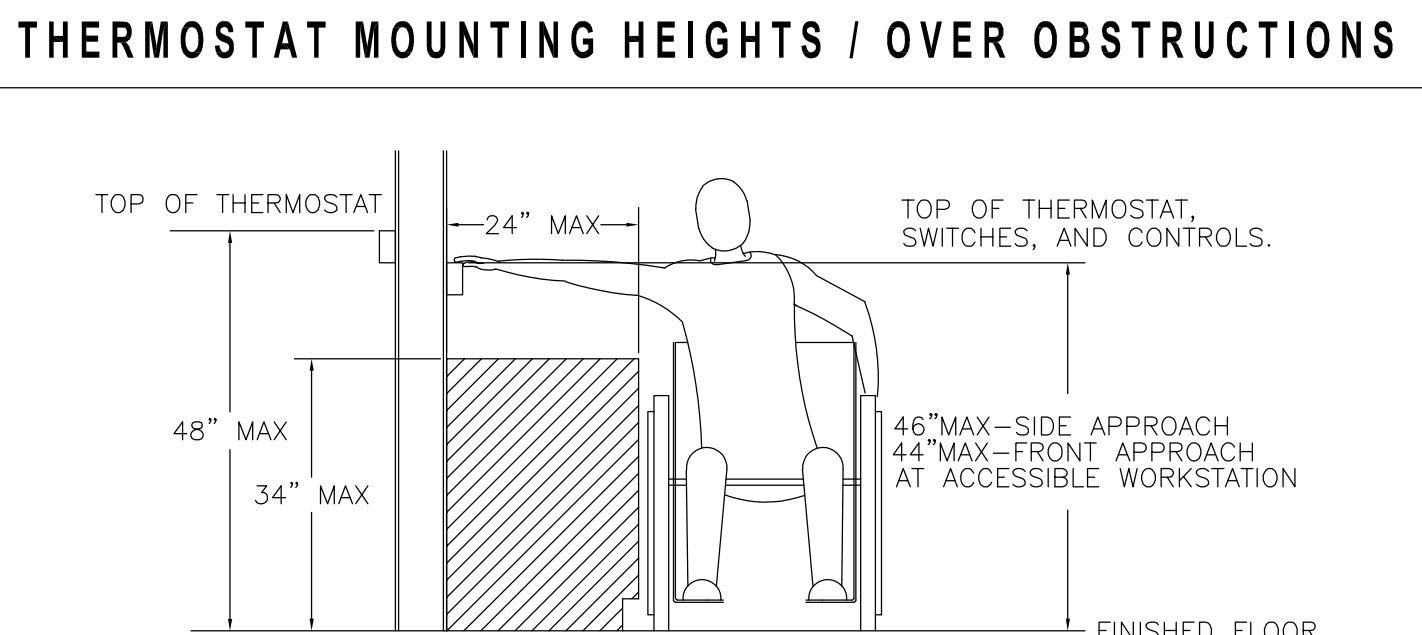
3" = 1'-0"

SEE DETAILS 8/SO-2.1 AND 11/SO-2.1 FOR STRUCTURAL ATTACHMENTS AND SUPPORT

MECHANICAL ABBREVIATIONS AND SYMBOLS LIST

MECHANICAL ABBREVIATIONS table with columns for symbol, description, and abbreviation. Includes items like AAV (Automatic Air Vent), AC (Air Conditioning), and various damper types.

APPLICABLE CODES table listing various California codes such as CAC, CBC, CEC, CFC, and CMAA, along with their respective titles and sections.



NOTE: PROVIDE A 30"x27"x19" MIN. TOE/KNEE CLEARANCE FOR FRONT APPROACH OVER OBSTRUCTION.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE OSA APPROVED CONSTRUCTION DOCUMENTS...

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE...

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...

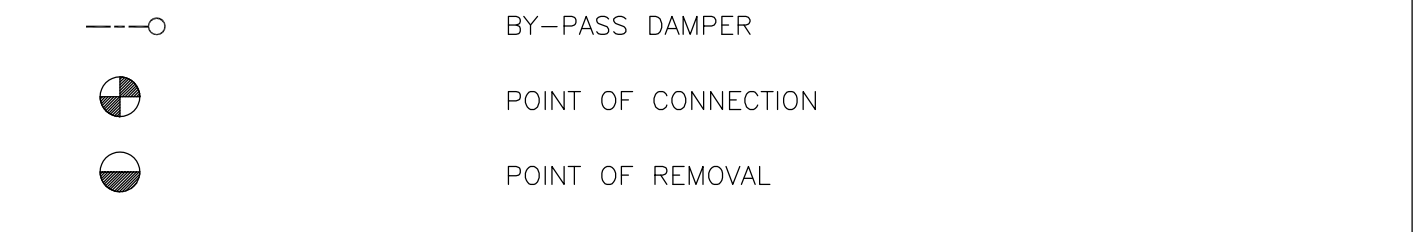
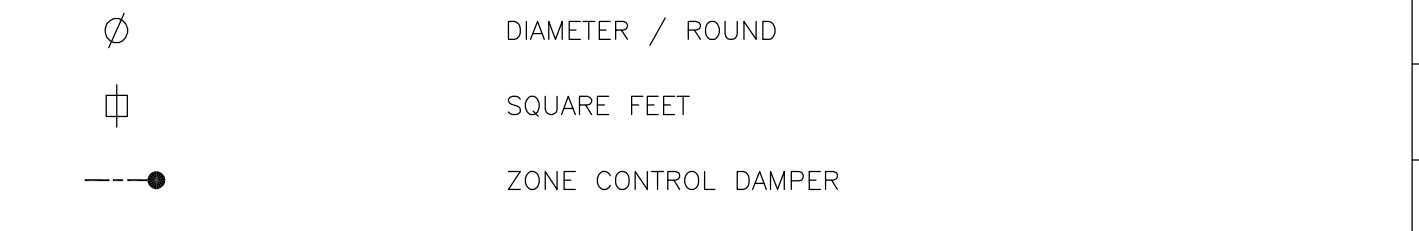
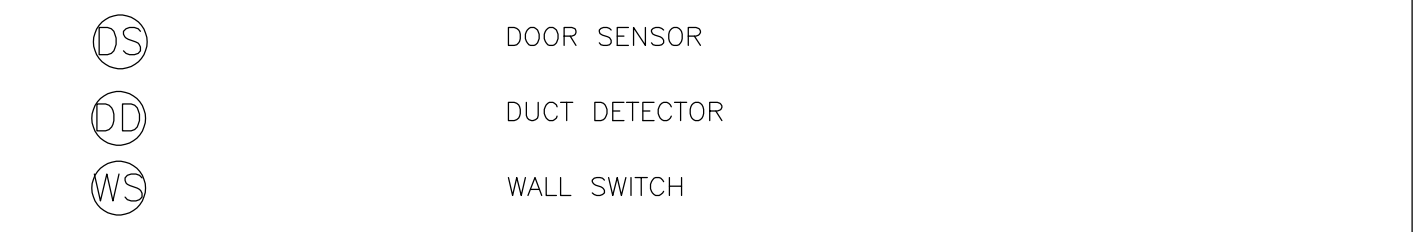
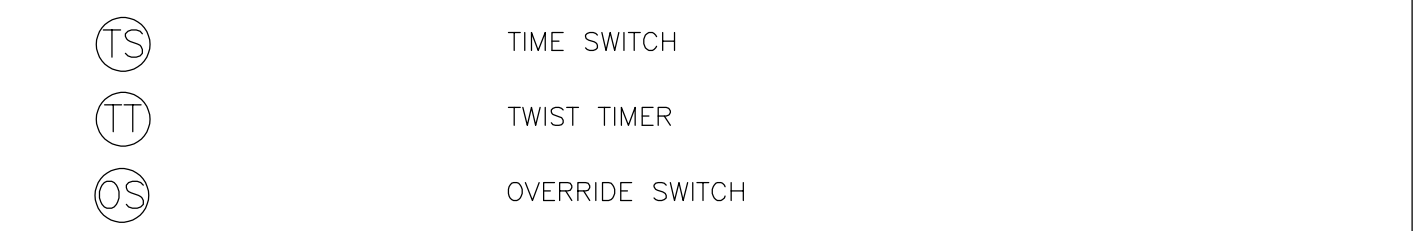
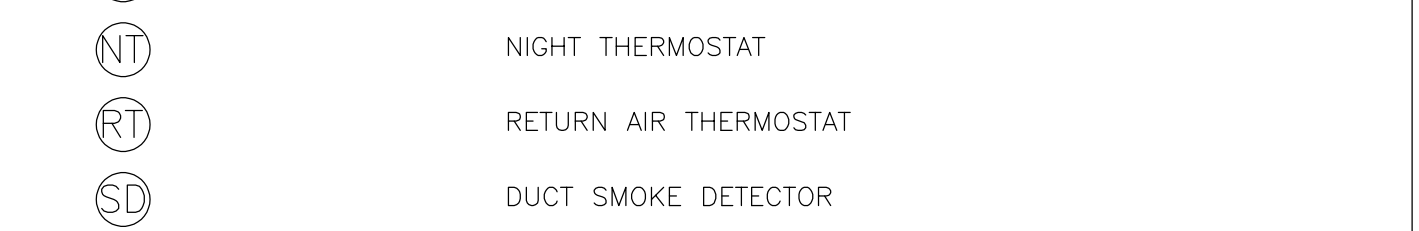
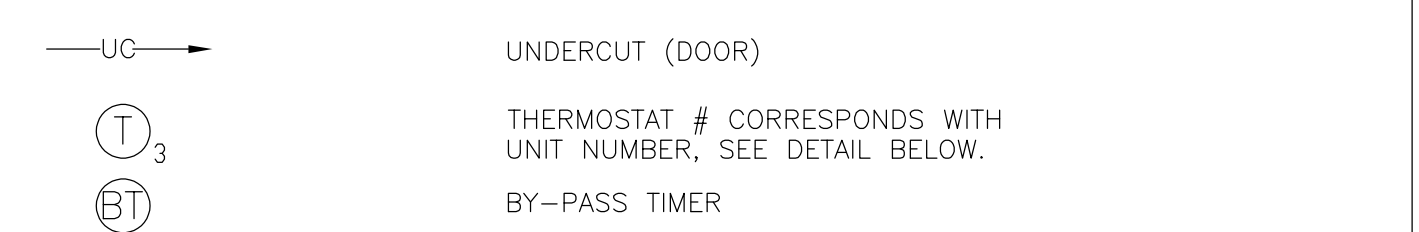
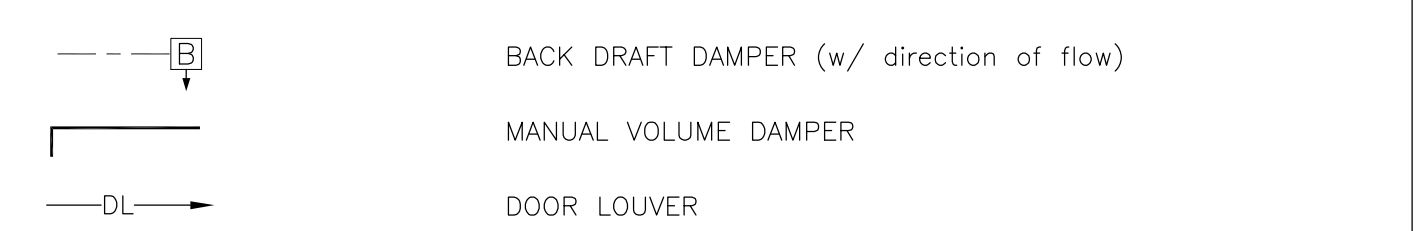
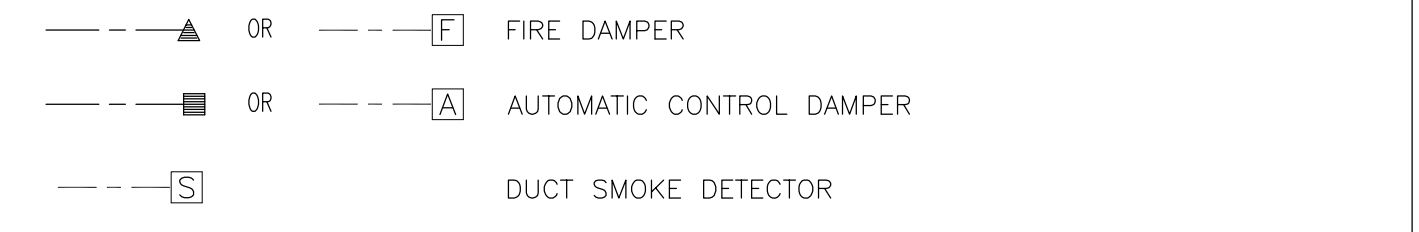
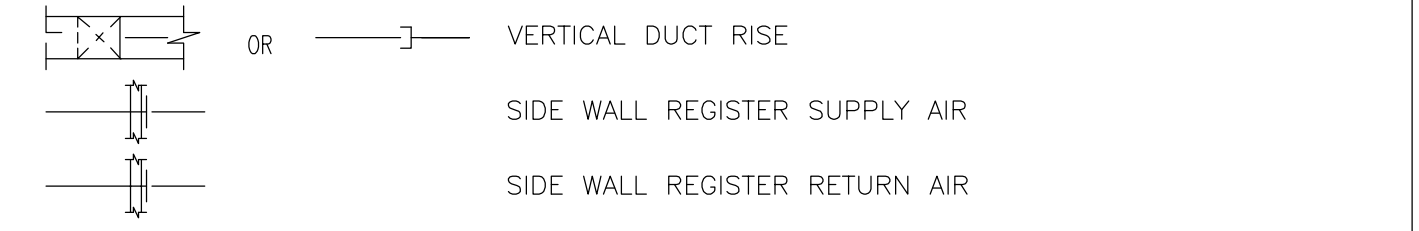
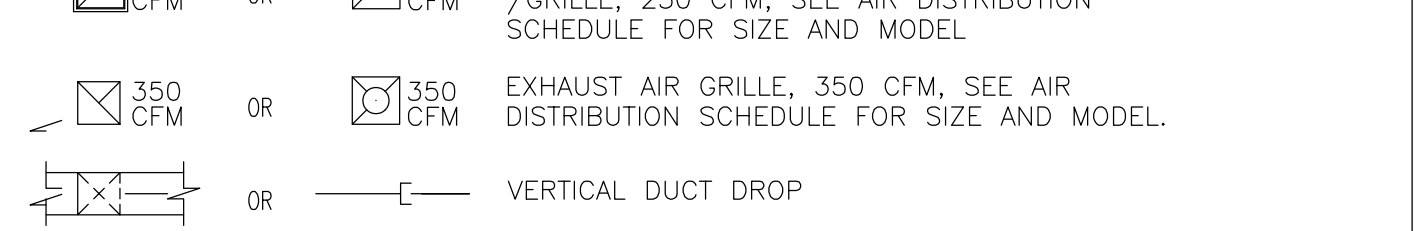
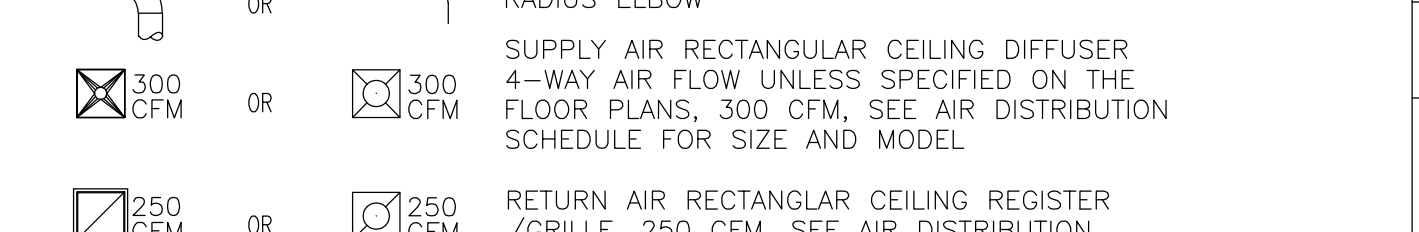
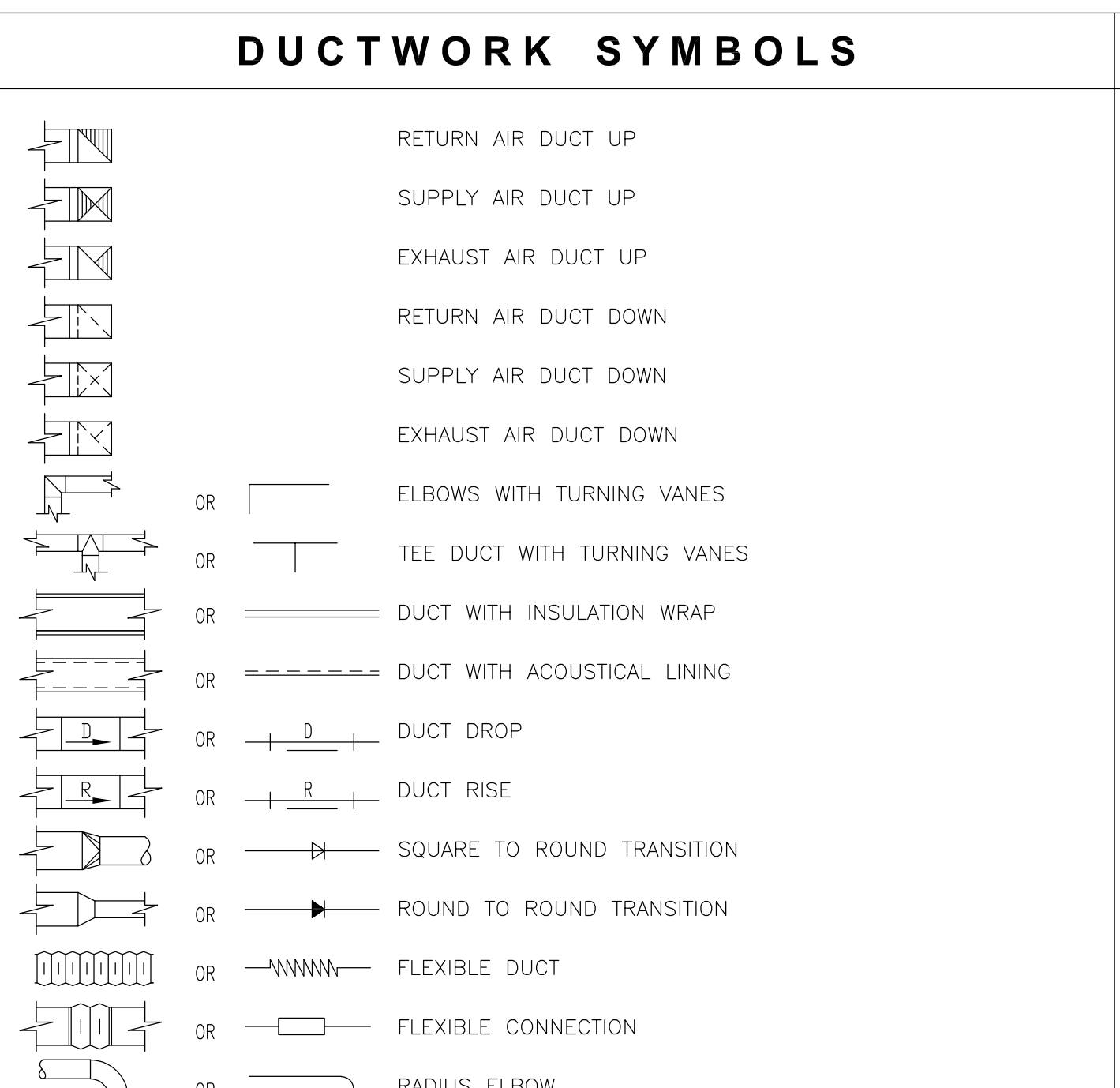
THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL...

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE: PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENT PRESCRIBED IN ASCE 7-16 SECTION 13.3...

THE METHOD OF SHOWING BRACING AND ATTACHMENT TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENT ARE BASED ON A PREAPPROVED INSTALLATION GUIDE...

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEM (E): MP □ MD □ PP □ E □ OPTION 1: DETAILED ON THE APPROVED DRAWING WITH PROJECT SPECIFIC NOTES AND DETAILS.

OPTION 2: SHALL COMPLY WITH HCAI (OSHPP) PRE-APPROVAL (OPM#) # _____



1- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW IN GENERAL WHERE THE DUCTWORK, PIPING AND OTHER WORK SPECIFIED IN THE HVAC SECTIONS OF THE SPECIFICATIONS IS TO BE LOCATED. THE DRAWINGS DO NOT NECESSARILY INDICATE ANY AND ALL OFFSETS AND CONFIGURATIONS REQUIRED FOR COORDINATION WITH THE SPACE REQUIREMENTS OF OTHER TRADES...

2- THE CONTRACTOR SHALL EXAMINE AND COORDINATE WITH ALL MECHANICAL, PLUMBING, CIVIL, ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS THAT HAVE BEEN PREPARED FOR THIS PROJECT, AND ACCEPT SUCH CONDITIONS, AND MAKE ALLOWANCES FOR THEM IN PREPARING THE BID.

3- COORDINATE FINISHING COLOR OF ALL AIR TERMINALS WITH ARCHITECT. FINISHING COLOR SPECIFIED ON EQUIPMENT SCHEDULE IS FOR REFERENCE ONLY.

4- CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR FOR SIZE AND LOCATION OF DUCTWORK ROOF/WALL OPENINGS AND WITH ELECTRICAL CONTRACTOR FOR ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT.

ADHESIVES, SEALANTS, AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF THE CALIFORNIA GREEN BUILDING STANDARDS (5.504.4.1 CAL GREEN)

GENERAL DEMOLITION NOTES: REFER TO ARCHITECTURAL DEMOLITION DRAWINGS IN THIS PHASE AND FOR DEMOLITION AREAS AND EXISTING WALLS. THE SCOPE OF THE DEMOLITION WORK SHALL INCLUDE ALL LABOR, MATERIALS, SERVICES AND EQUIPMENT REQUIRED FOR THE REMOVAL OF EXISTING HVAC EQUIPMENT AND SYSTEMS...

SELECTIVE DEMOLITION NOTES: 1. THIS SECTION INCLUDES LIMITED SCOPE OF SELECTIVE MECHANICAL DEMOLITION WORK AS FOLLOWS: A. NONDESTRUCTIVE REMOVAL OF MATERIALS AND EQUIPMENT FOR REUSE OR SALVAGE AS INDICATED.

2. DISMANTLING MECHANICAL MATERIALS AND EQUIPMENT MADE OBSOLETE BY THESE INSTALLATIONS. B. GENERAL CONDITIONS: A. GENERAL: SUBMIT THE FOLLOWING IN ACCORDANCE WITH CONDITIONS OF CONTRACT AND DIVISION 01 AND 23 SPECIFICATION SECTIONS.

3. PROJECT CONDITIONS: A. CONDITIONS AFFECTING SELECTIVE DEMOLITION: THE FOLLOWING PROJECT CONDITIONS APPLY: 1. PROTECT ADJACENT MATERIALS INDICATED TO REMAIN. INSTALL AND MAINTAIN DUST AND NOISE BARRIERS TO KEEP DIRT, DUST, AND NOISE FROM BEING TRANSMITTED TO ADJACENT AREAS.

4. SEQUENCE AND SCHEDULING: A. COORDINATE THE SHUT-OFF AND DISCONNECTION OF UTILITY SERVICES WITH THE OWNER AND THE UTILITY COMPANY. B. NOTIFY THE ARCHITECT AT LEAST 5 DAYS PRIOR TO COMMENCING DEMOLITION OPERATIONS.

5. EXAMINATION: A. EXAMINE AREAS WHERE SELECTIVE DEMOLITION IS TO OCCUR. DETERMINE EXTENT OF WORK AND AFFECT ON EXISTING CONDITIONS. NOTIFY ARCHITECT OF ANY CONDITIONS THAT MIGHT CREATE EXTENSIVE ALTERATIONS BEYOND INDICATED SCOPE.

6. SELECTIVE DEMOLITION: A. GENERAL: DEMOLISH, REMOVE, DEMOUNT, AND DISCONNECT ABANDONED MECHANICAL MATERIALS AND EQUIPMENT INDICATED TO BE TO BE REMOVED AND SALVAGED OR SAVED.

7. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, NEITHER DRILLED NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER AND THE DIVISION OF THE STATE ARCHITECT/AUTHORITIES HAVING JURISDICTION.

8. ALL WELDING SHALL BE SPECIALLY INSPECTED BY AN AWS-CWI QUALIFIED INSPECTOR APPROVED BY DSA/AHJ.

9. ALL BRACING OF DUCTWORK AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA MANUAL. SEE SEISMIC RESTRAINT NOTES ON THIS SHEET.

10. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE SMACNA GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, STRUCTURAL ENGINEER AND DSA FIELD ENGINEER OR AHJ.

11. A COPY OF THE MANUAL PUBLISHED BY SMACNA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.

12. DESIGN CRITERIA: GROUND SNOW LOAD = 5 PSF, RISK CATEGORY = III, BASIC DESIGN WIND SPEED V = 115 MPH, EXPOSURE CATEGORY = C, SDS = 0.95, SITE CLASS = D-DEFAULT.

COMBINATION SMOKE/FIRE DAMPER NOTE: 1- FIRE DAMPERS SHALL BE STATE FIRE MARSHAL APPROVED, UL LISTED AND INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND LISTING.

DUCT LINING NOTE: 1- ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE ACOUSTICALLY LINED FROM CONNECTION POINT OF UNIT TO MIN. 20 FEET DOWN STREAM OF UNIT OPENING.

2- MECHANICAL DRAWINGS FOR EXTENDED (MORE THAN 20') REQUIREMENT OF DUCT LINING. ALL BRANCH DUCTWORK WITH TAKEOFF FROM MAIN SUPPLY/RETURN DUCTS WITHIN 20 FEET OF THE UNIT OPENING SHALL BE ACOUSTICALLY LINED IN ITS ENTIRETY INCLUDING ANY DUCT FITTINGS, ELBOWS, SUB-BRANCH DUCTS, AND SUPPLY/RETURN DIFFUSER/GRILLE PLENUMS.

3- ALL DUCT FITTINGS AND ELBOWS WHERE SHOWN TO BE CONNECTED TO A LINED DUCTWORK SHOULD BE PROVIDED WITH THE SAME LINING SPECIFIED FOR THE DUCT. DUCT LINING AND INSULATION MATERIALS AND THICKNESS SHALL BE PER SPECIFICATION BOOK. SEE MECHANICAL FLOOR PLANS FOR EXTENDED (MORE THAN 20') DUCT LINING REQUIREMENTS.

GENERAL NOTES: 1- ALL DUCT DIMENSIONS ON DRAWINGS TO BE INSIDE CLEAR. 2- ALL ROOM THERMOSTATS TO BE MOUNTED AT ELEVATION SHOWN ON THIS SHEET. SEE DETAIL BELOW.

3- PROVIDE MANUAL VOLUME DAMPERS WITH REMOTE CONTROL WHERE HARD LID CEILING IS INSTALLED OR ACCESS TO TYPICAL MANUAL VOLUME DAMPER IS NOT POSSIBLE. PROVIDE PRODUCTS OF METROPOLITAN AIR TECHNOLOGY, ROTO-TWIST MODEL NUMBER RT-250 SERIES III FOR ROUND DUCT AND MODEL RT-100 SP/CC FOR RECTANGULAR DUCT.

4- PROVIDE MANUAL VOLUME DAMPERS WITH REMOTE CONTROL WHERE HARD LID CEILING IS INSTALLED OR ACCESS TO TYPICAL MANUAL VOLUME DAMPER IS NOT POSSIBLE. PROVIDE PRODUCTS OF METROPOLITAN AIR TECHNOLOGY, ROTO-TWIST MODEL NUMBER RT-250 SERIES III FOR ROUND DUCT AND MODEL RT-100 SP/CC FOR RECTANGULAR DUCT.

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SIXTH STREET PREP STREAM. VICTOR ELEMENTARY SCHOOL DISTRICT. 15476 6TH ST VICTORVILLE, CA 92395. ISSUED FOR: [REVISIONS]

REGISTRATION SIGNATURE: [Signature]. SHEET TITLE: MECHANICAL ABBREVIATIONS AND SYMBOLS LIST. SHEET NUMBER: M0-1.0. WD PROJ. # 22825. DRAWN BY: [Name]. CHECKED: [Name]. DATE: 07/18/23.

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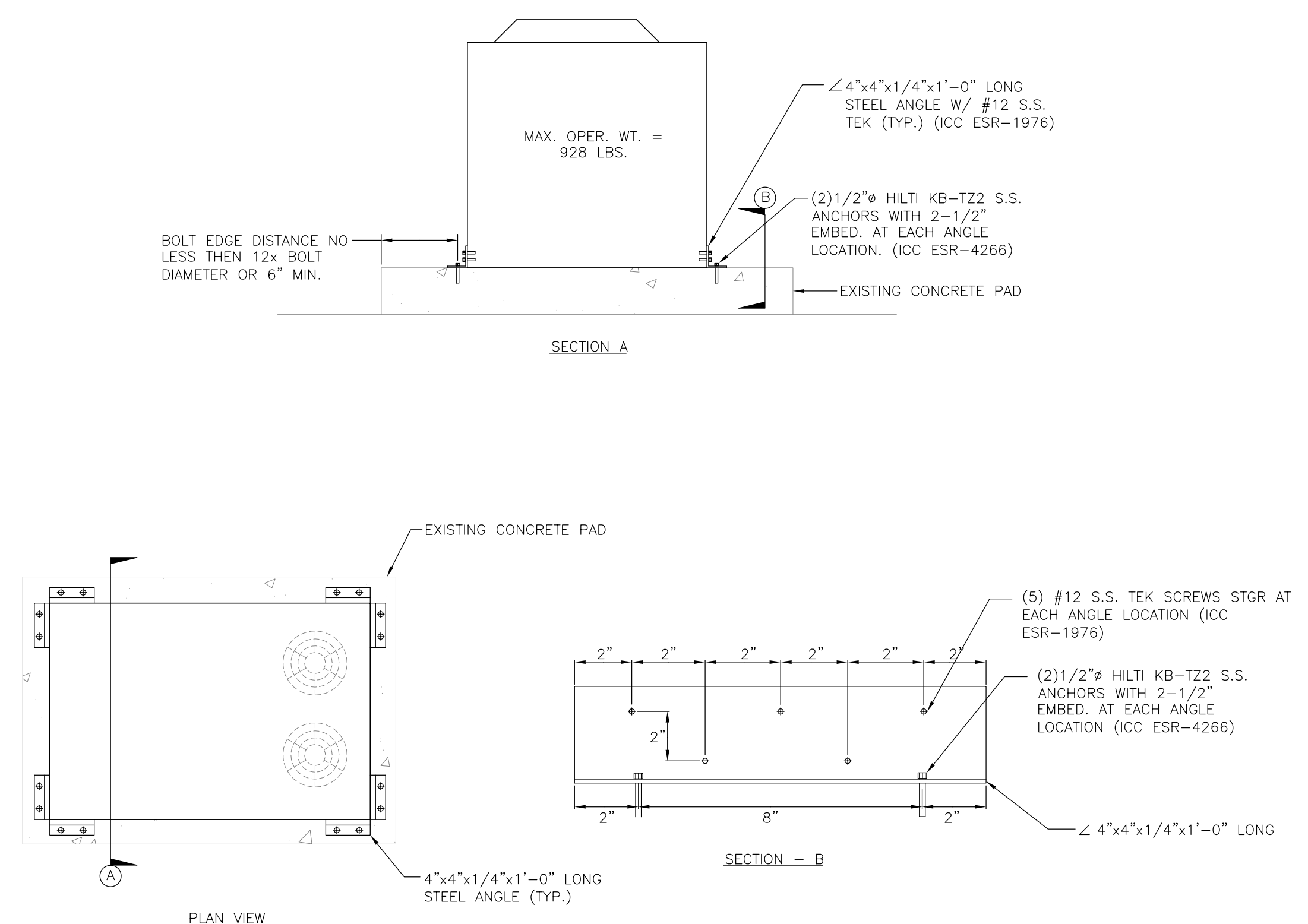
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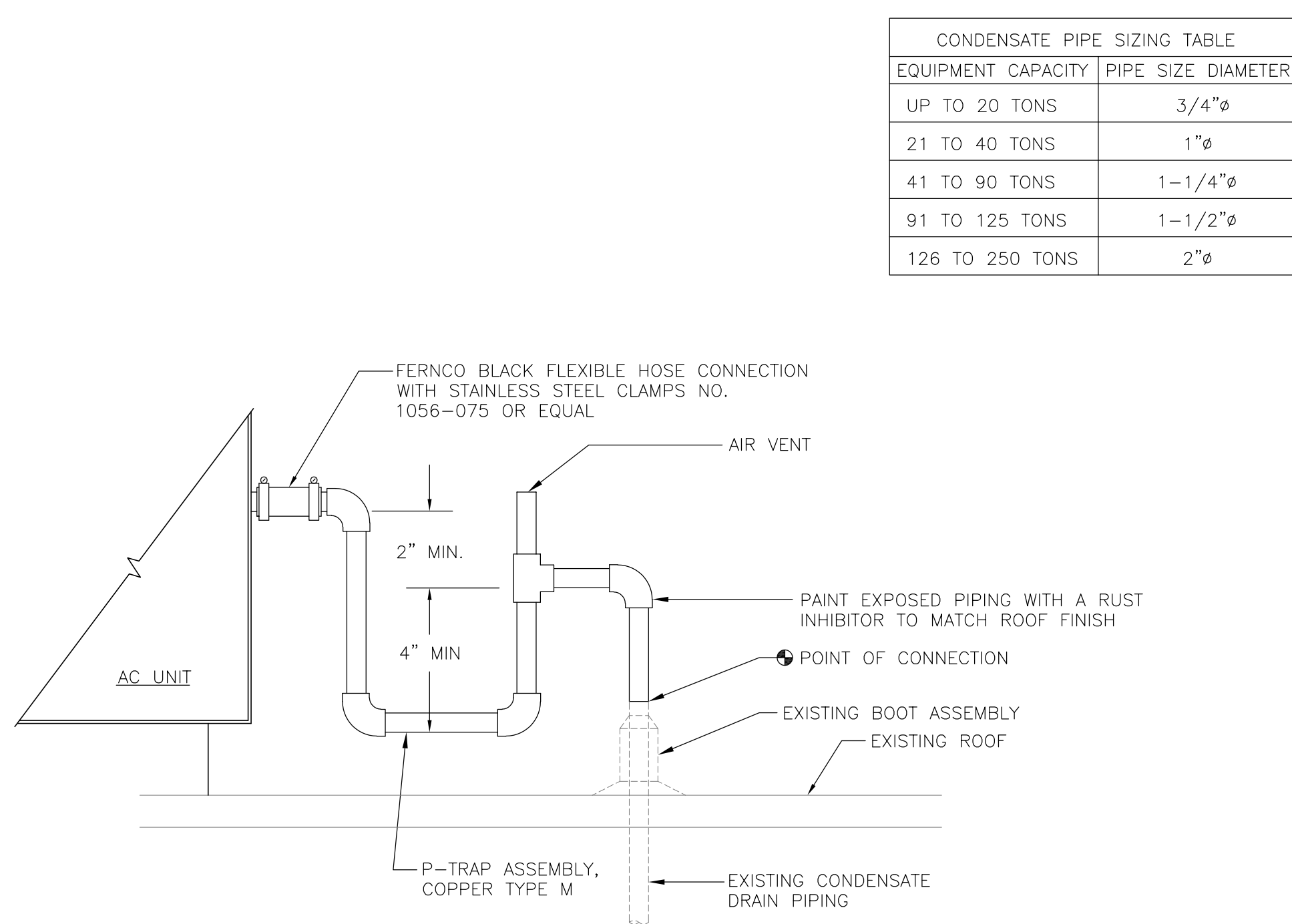
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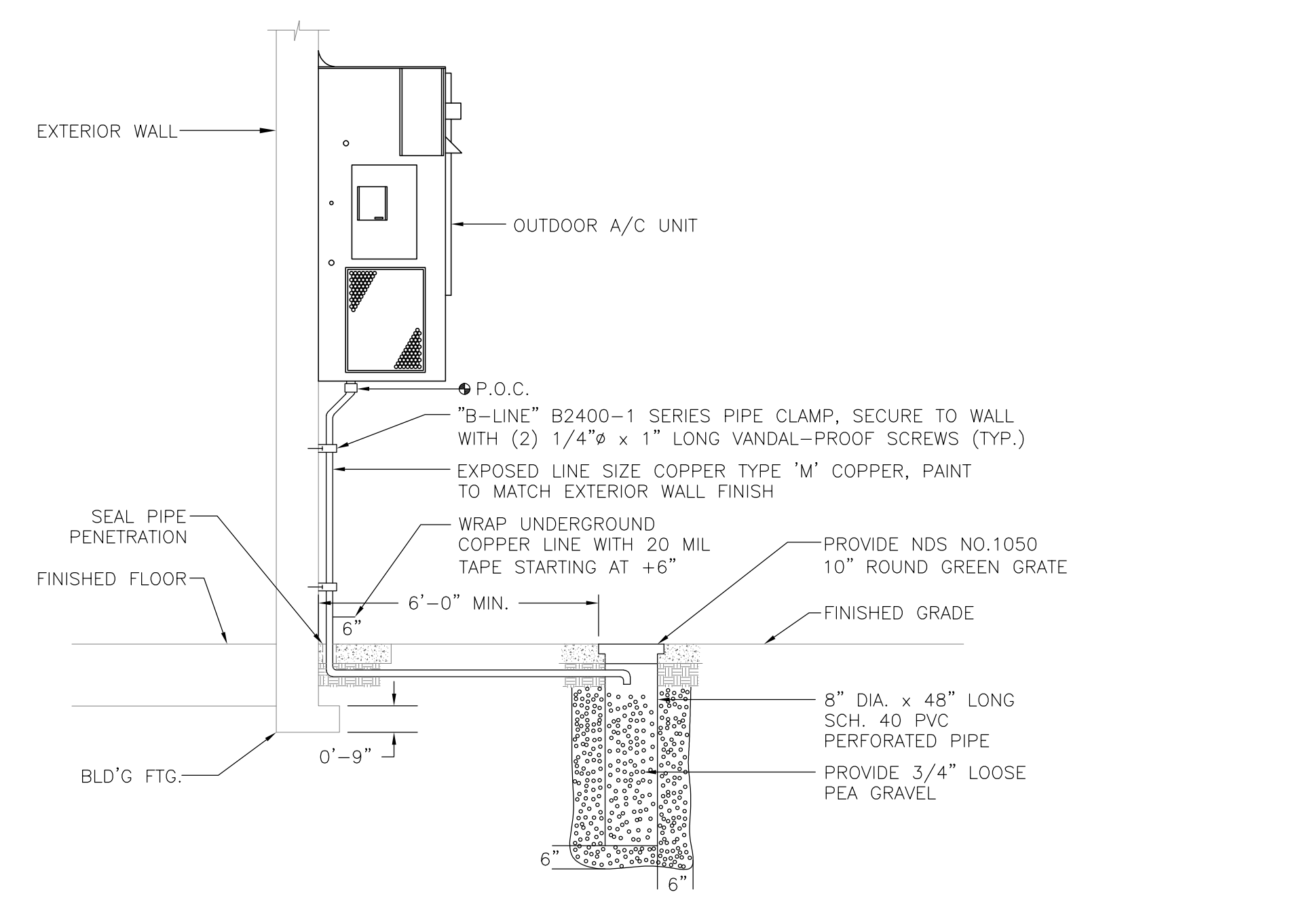
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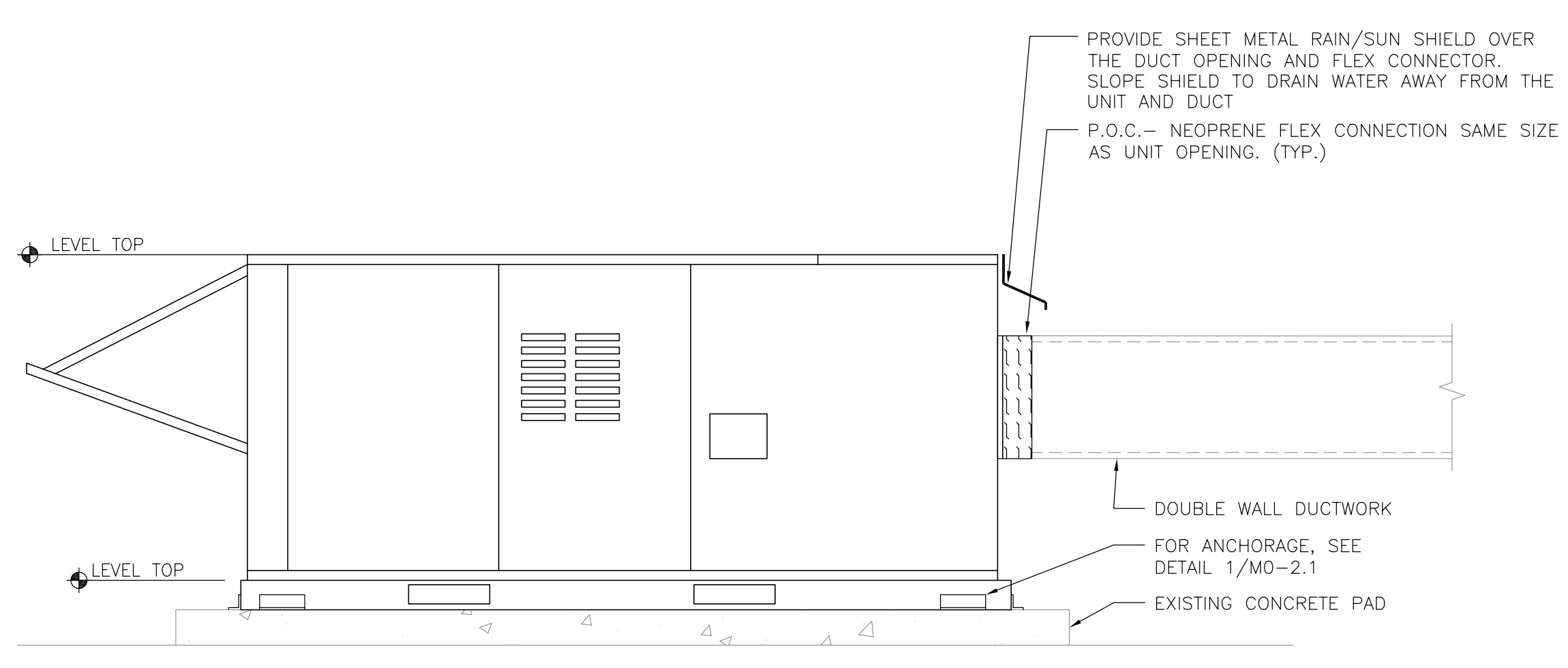
AIR CONDITIONER UNIT INSTALLATION DETAIL (SIDE DISCHARGE) (AC-C1, AC-C2) 1 NOT TO SCALE



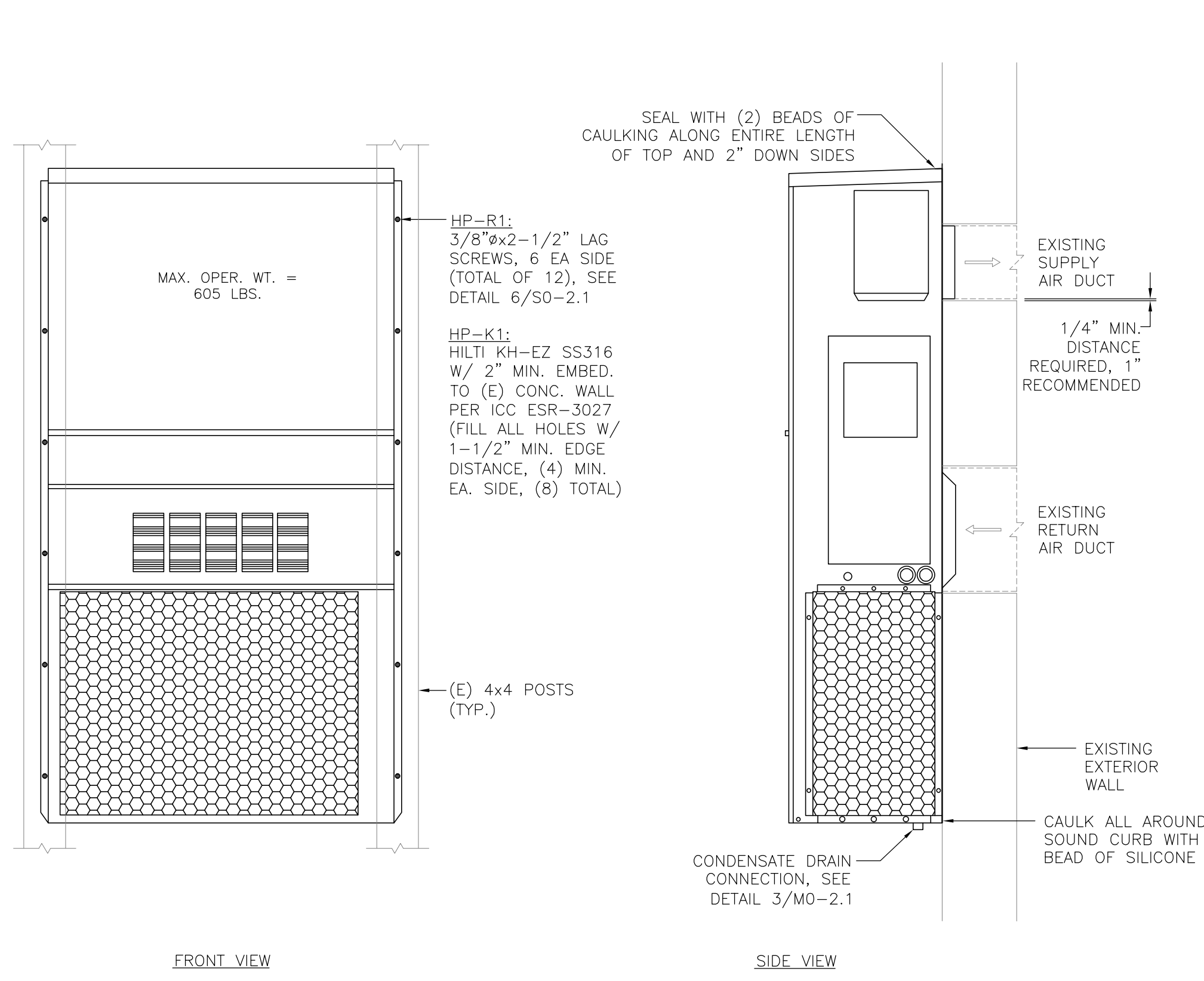
CONDENSATE DRAIN PIPE TO EXISTING PIPING THRU ROOF DETAIL 2 NOT TO SCALE



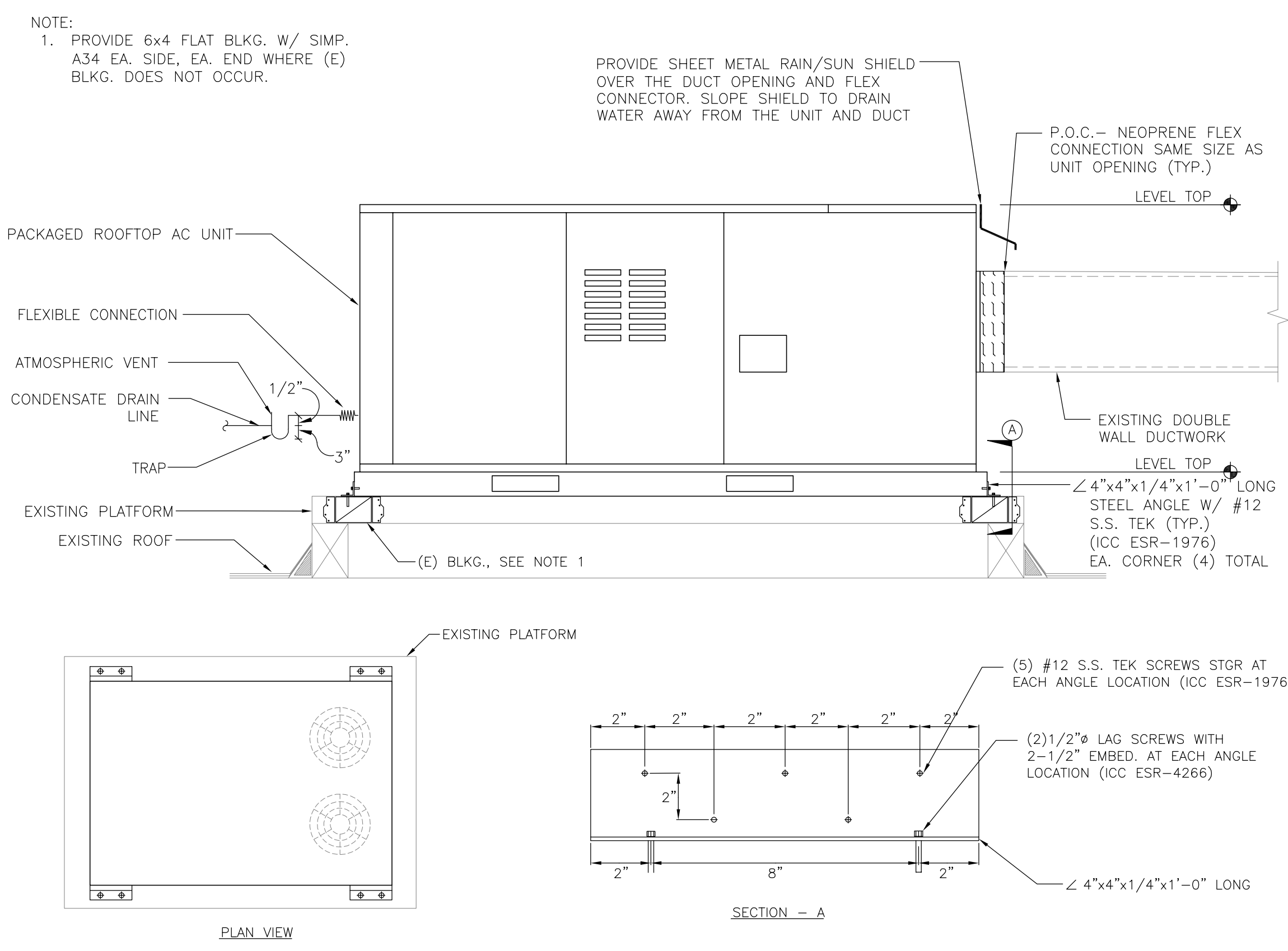
OUTDOOR A/C UNIT CONDENSATE DRAIN DETAIL 3 NOT TO SCALE



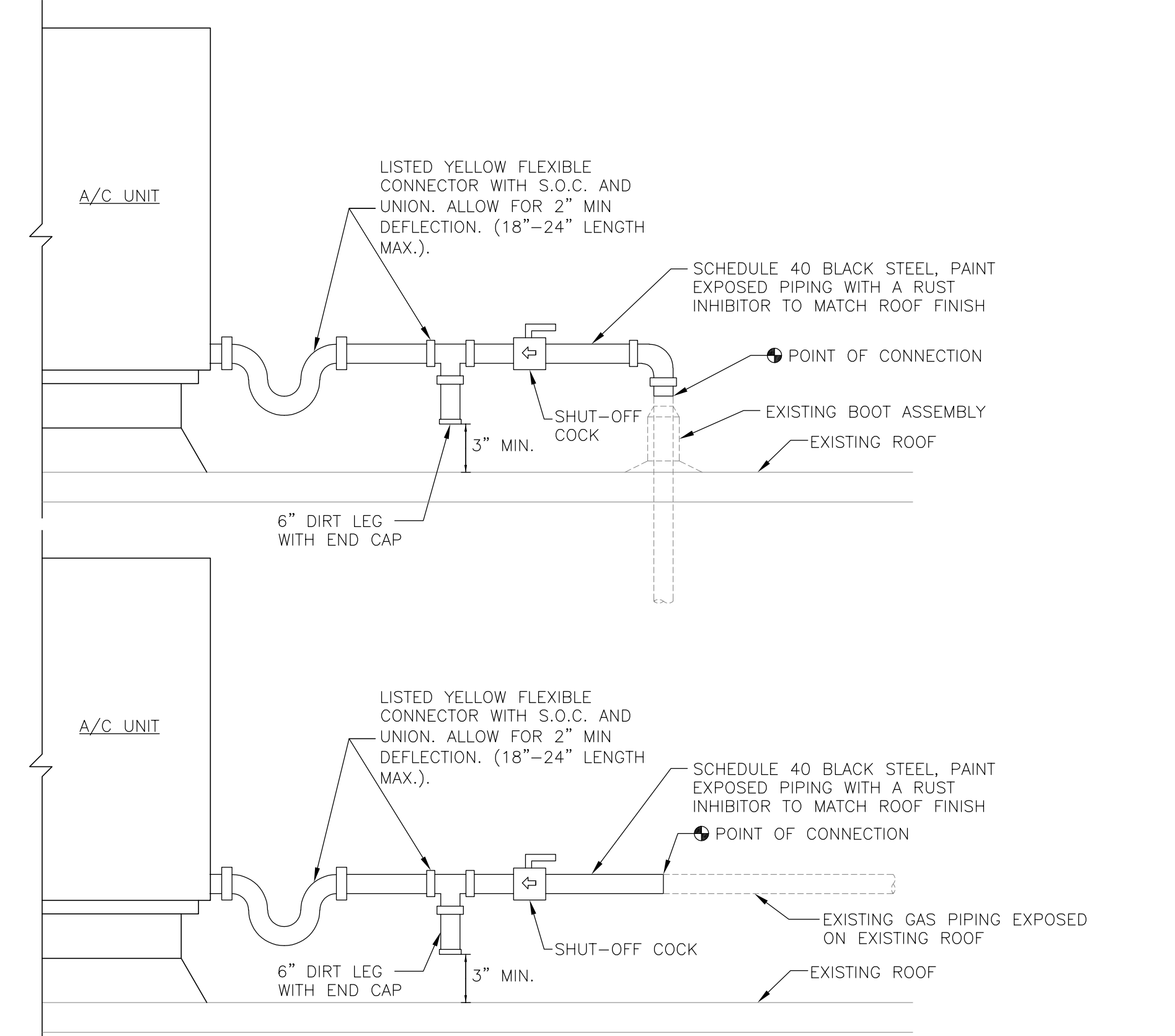
AIR CONDITIONER UNIT DETAIL (SIDE DISCHARGE) (AC-C1, AC-C2) 4 NOT TO SCALE



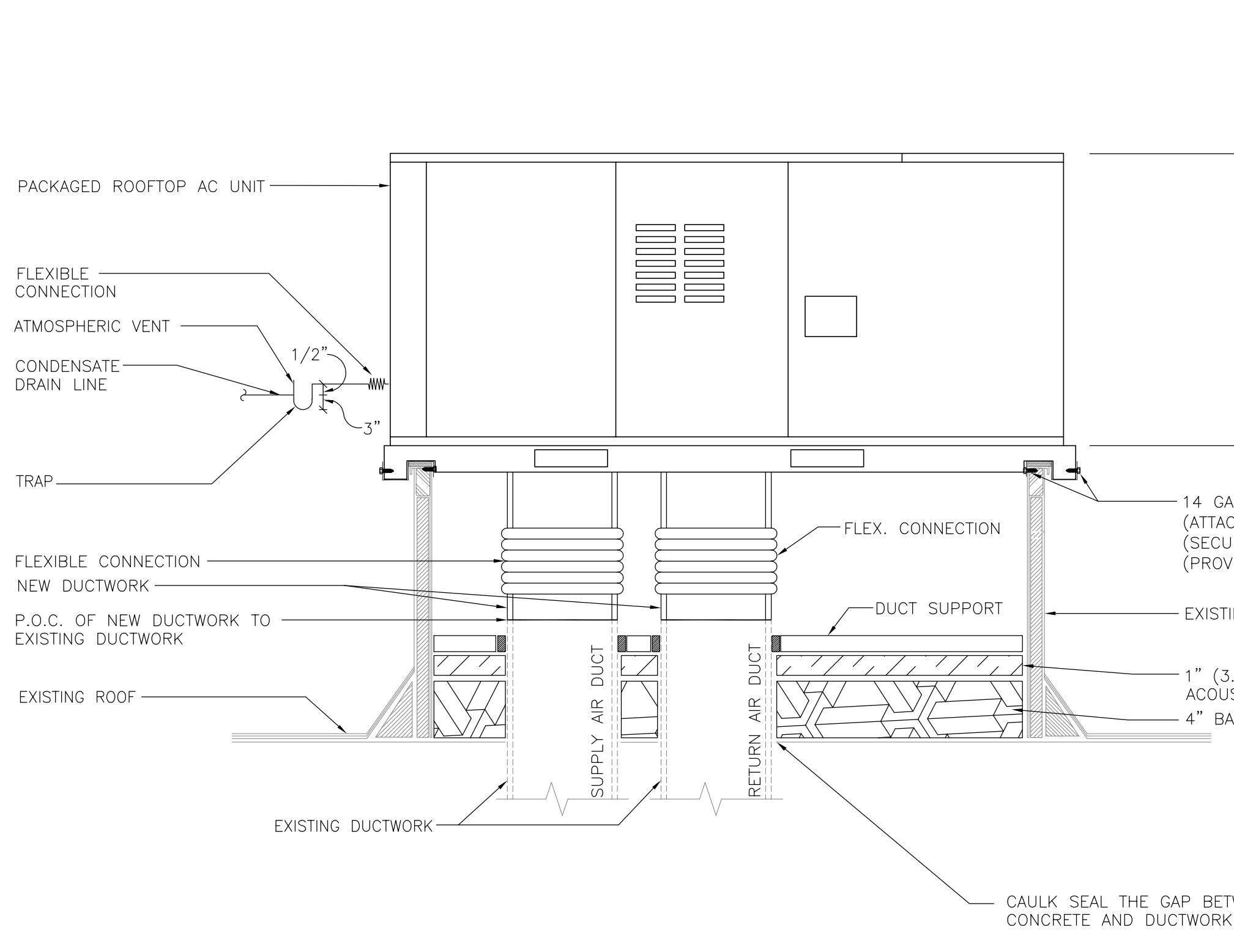
BARD HEAT PUMP UNIT INSTALLATION DETAIL (HP-R1, HP-K1) 5 NOT TO SCALE



AIR CONDITIONER UNIT DETAIL (SIDE DISCHARGE) (AC-K1, AC-K2, AC-K3) 6 NOT TO SCALE



GAS CONNECTION DETAIL 7 NOT TO SCALE



EVAPORATIVE COOLER INSTALLATION DETAIL (DOWN DISCHARGE) (EC-M1) 9 NOT TO SCALE

NOTES:
1- PROVIDE FIRE MARSHAL APPROVED DUCT SMOKE DETECTOR FOR AIR MOVING SYSTEMS SUPPLYING IN EXCESS OF 2000 CFM FOR AUTOMATIC SHUT OFF. IF BUILDING IS SERVED BY TOTAL COVERAGE SMOKE-DETECTION SYSTEM, AUTOMATIC UNIT SHUT OFF CAN BE ACCOMPLISHED BY INTERCONNECTION TO SUCH SYSTEM.
1- PROVIDE NECESSARY TRANSITION FROM THE UNIT DISCHARGE AND RETURN OPENING TO THE ASSOCIATED SUPPLY AND RETURN AIR DUCTWORKS.
2- WHERE DUCTS PENETRATE A FIRE RATED CEILING ROOF ASSEMBLY ENCASE ENTIRE RUN OF DUCT FROM CEILING TO TOP OF ROOF SHEETING WITH 5/8" TYPE "X" GYPSUM BOARD (TYP.)
3- SEE ARCHITECTURAL SHEETS FOR MORE INFORMATION ON WATERPROOFING.



1920 E Warner Ave., Suite 3-H
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Telephone (714) 884-3834
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PEI #600.030

SIXTH STREET PREP STREAM

VICTOR ELEMENTARY SCHOOL DISTRICT
15476 6TH ST
VICTORVILLE, CA 92395

ISSUED FOR:

REVISIONS:

REGISTRATION/SIGNATURE:

SHEET TITLE:
MECHANICAL DETAILS

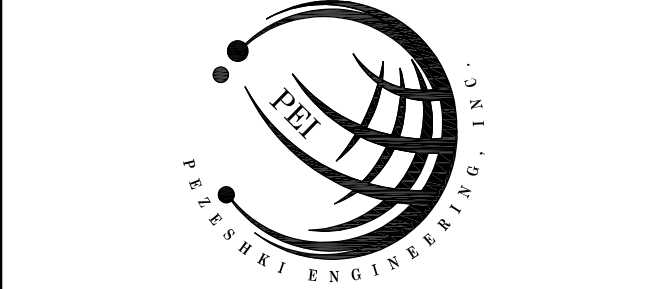
SHEET NUMBER:
M0-2.1

WD PROJ. # 22825 | DRAWN BY: | CHECKED: | DATE: 07/18/23

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1920 E Warner Ave., Suite 3-H
Santa Ana, CA 92705
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Fax (714) 884-3834
PEI #600.030

SIXTH STREET PREP STREAM

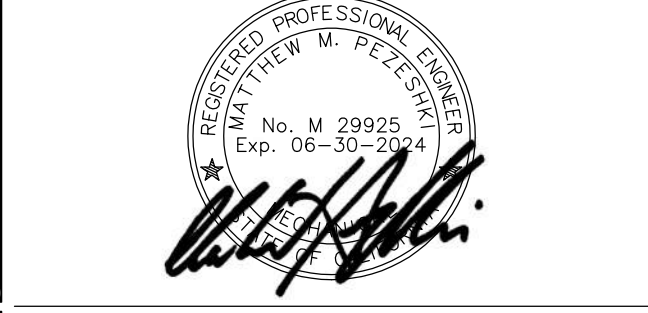
VICTOR ELEMENTARY SCHOOL DISTRICT

15476 6TH ST
VICTORVILLE, CA 92395

ISSUED FOR:

REVISIONS:

REGISTRATION/SIGNATURE:



SHEET TITLE:

TITLE 24 CALCULATIONS

M0-4.1

WD PROJ. # 22825 | DRAWN BY: CHECKED | DATE 07/18/23

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A. GENERAL INFORMATION

01 Project Location (City)	Victorville	04 Total Conditioned Floor Area	2285
02 Climate Zone	14	05 Total Unconditioned Floor Area	130
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1

B. PROJECT SCOPE

01	02	03
Air Systems	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
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

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

L. DISTRIBUTION (DUCTWORK AND PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title: Verified

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title: Verified

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

A. GENERAL INFORMATION

01 Project Location (City)	Victorville	04 Total Conditioned Floor Area	4870
02 Climate Zone	14	05 Total Unconditioned Floor Area	580
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1

B. PROJECT SCOPE

01	02	03
Air Systems	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
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

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

I. SYSTEM CONTROLS

01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area (ft ²)	Thermostats	Shut-Off Controls	Isolation Zone Controls	Demand Response	Supply Air Temp. Reset	Window Interlocks
AC-K1, AC-K2, AC-K3, SAC-K1, SAC-K2, HP-K1	Single zone	<= 25,000 ft ²	EMCS	EMCS	NA: Single Zone	EMCS	NA: Single Zone	NA: No operable windows

J. VENTILATION AND INDOOR AIR QUALITY

This section does not apply to this project.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

L. DISTRIBUTION (DUCTWORK AND PIPING)

This section does not apply to this project.

M. COOLING TOWERS

This section does not apply to this project.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

C. COMPLIANCE RESULTS

01	02	03	04	05	06	07	08	09
System Summary	Pumps	Fan/ Economizers	System Controls	Ventilation	Terminal Box Controls	Distribution	Cooling Towers	Compliance Results
110.1, 110.2, 140.4, 170.2(c)	AND Pumps (140.4b), 170.2(j)(4)	AND Economizers (140.4(c), 140.4(d), 170.2(c))	AND System Controls (110.2, 120.2, 140.4(f), 170.2(i))	AND Ventilation (120.1, 160.2)	AND Terminal Box Controls (140.4(f), 170.2(j)(4))	AND Distribution (110.2, 160.3)	AND Cooling Towers (110.2)(2)	Compliance Results
Yes	AND	AND	AND	AND	AND	AND	AND	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-C1	1	Single zone	Alteration		<input type="checkbox"/>
AC-C2	1	Single zone	Alteration		<input type="checkbox"/>

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

01	02
Compliance with Mandatory Measures documented through MCH	No
Mandatory Measures Note Block	Plan sheet or construction document location
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per 110.1	MD-1.2
Cooling Equipment Efficiency per 110.1	MD-1.2
Furnace Standby Loss Control per 110.2(i)	NA
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(j)	NA

R. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title: Verified

S. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title: Verified

T. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

C. COMPLIANCE RESULTS

01	02	03	04	05	06	07	08	09
System Summary	Pumps	Fan/ Economizers	System Controls	Ventilation	Terminal Box Controls	Distribution	Cooling Towers	Compliance Results
110.1, 110.2, 140.4, 170.2(c)	AND Pumps (140.4b), 170.2(j)(4)	AND Economizers (140.4(c), 140.4(d), 170.2(c))	AND System Controls (110.2, 120.2, 140.4(f), 170.2(i))	AND Ventilation (120.1, 160.2)	AND Terminal Box Controls (140.4(f), 170.2(j)(4))	AND Distribution (110.2, 160.3)	AND Cooling Towers (110.2)(2)	Compliance Results
Yes	AND	AND	AND	AND	AND	AND	AND	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

E. ADDITIONAL REMARKS

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

01	02	03	04	05	06
System Name	Quantity	System Serving	System Status	Space Type	Utilizing Recovered Heat
AC-K1	1	Single zone	Alteration		<input type="checkbox"/>
AC-K2, AC-K3	2	Single zone	Alteration		<input type="checkbox"/>
HP-K1	1	Single zone	Alteration		<input type="checkbox"/>
SAC-K1, K2	2	Single zone	Alteration		<input type="checkbox"/>

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
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N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title: Verified

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title: Verified

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a) and 170.2(c)(3a)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available ¹ (kBtu/h)	Heating Output ² (kBtu/h)	Sensible Per Design (kBtu/h)	Supp. Heating Output (kBtu/h)	Cooling Output ^{3,4} (kBtu/h)	Load Calculations ^{5,6}	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AC-C1	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	112.5	112.5	0	59.8	59.8	95.6	53.8
AC-C2	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	100	100	0	73.7	73.7	79.5	69.5

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c). Healthcare facilities are exempted.

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

G. PUMPS

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Design Efficiency	Efficiency Unit	Design Efficiency	Efficiency Unit	Design Efficiency
AC-C1	>=65kBtu/h cooling / <225kBtu/h heating	AFUE	0.8	0.8	EER	11	11	
AC-C2	>=65kBtu/h cooling / <225kBtu/h heating	AFUE	0.8	0.8	EER	12.7	15	

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury under the laws of the State of California:

H. FAN SYSTEMS & AIR ECONOMIZERS

This section does not apply to this project.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
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Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a) and 170.2(c)(3a)	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available ¹ (kBtu/h)	Heating Output ² (kBtu/h)	Sensible Per Design (kBtu/h)	Supp. Heating Output (kBtu/h)	Cooling Output ^{3,4} (kBtu/h)	Load Calculations ^{5,6}	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
AC-K1	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	179.2	179.2	0	102	102	152.1	98.5
AC-K2, AC-K3	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	100	100	0	59.8	59.8	115	108.8
HP-K1	Unitary Heat Pumps	Air-cooled, coil (1-phase)	Yes	43	43	0	36	36	38.7	32.4
SAC-K1, K2	Room AC/HP	Room AC Heat Pump, no lowers	Yes				24	24	43	43

¹FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c). Healthcare facilities are exempted.

²It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.

G. PUMPS

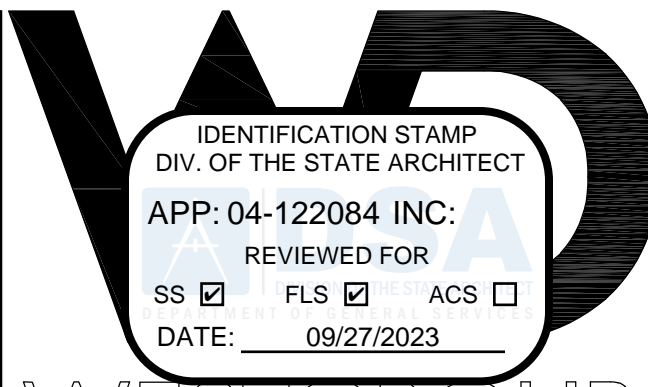
01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Design Efficiency	Efficiency Unit	Design Efficiency	Efficiency Unit	Design Efficiency
AC-K1	>=65kBtu/h cooling / <225kBtu/h heating	AFUE	0.8	0.8	EER	11	11	
AC-K2, AC-K3	<=65kBtu/h cooling / <225kBtu/h heating	AFUE	0.8	0.8	EER	14	15	
HP-K1	>=14,000	HSPF	8	8	SEER	14	14	
SAC-K1, K2					EER	8.7	11	

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION

01	02
Compliance with Mandatory Measures documented through MCH	No
Mandatory Measures Note Block	Plan sheet or construction document location
Mandatory Measure	Plan sheet or construction document location
Heating Equipment Efficiency per 110.1	MD-1.1 & MD-1.2
Cooling Equipment Efficiency per 110.1	MD-1.1 & MD-1.2
Furnace Standby Loss Control per 110.2(i)	NA
Heat Pump with Supplemental electric Resistance Heater Controls per 110.2(j)	NA

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Schema Version: rev 20220101
Compliance ID: 106083-0523-0002
Report Generated: 2023-05-05 15:24:00



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STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - MP
Report Page: (Page 1 of 7)
Date Prepared: 2023-05-05 15:08:50

Table with 4 columns: O1, O2, O3, O4. Rows include Project Location (City), Climate Zone, and Occupancy Types Within Project.

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

Table with 3 columns: O1, O2, O3. Rows include Air System(s), Heating Air System, Cooling Air System, Mechanical Controls, and Mechanical Controls (existing to remain, altered or new).

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106074-0523-0002
Report Generated: 2023-05-05 15:08:50

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - MP
Report Page: (Page 1 of 7)
Date Prepared: 2023-05-05 15:08:50

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

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.

NRCA-MCH-01-E - Must be submitted for all buildings.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.

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

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106074-0523-0002
Report Generated: 2023-05-05 15:08:50

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - Preschool
Report Page: (Page 1 of 7)
Date Prepared: 2023-05-05 15:13:24-04:00

Table with 4 columns: O1, O2, O3, O4. Rows include Project Location (City), Climate Zone, and Occupancy Types Within Project.

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

Table with 3 columns: O1, O2, O3. Rows include Air System(s), Heating Air System, Cooling Air System, Mechanical Controls, and Mechanical Controls (existing to remain, altered or new).

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106094-0521-0002
Report Generated: 2023-05-05 16:13:30

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - Preschool
Report Page: (Page 5 of 7)
Date Prepared: 2023-05-05 15:13-24-04:00

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

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.

NRCA-MCH-01-E - Must be submitted for all buildings.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks.

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

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106094-0521-0002
Report Generated: 2023-05-05 16:13:30

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - MP
Report Page: (Page 2 of 7)
Date Prepared: 2023-05-05 15:18-08-46-04:00

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

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

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Space Conditioning System Information
Table with 6 columns: O1, O2, O3, O4, O5, O6. Rows include System Name, Quantity, System Serving, System Status, Space Type, Utilizing Recovered Heat.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106074-0523-0002
Report Generated: 2023-05-05 15:08:50

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - MP
Report Page: (Page 1 of 7)
Date Prepared: 2023-05-05 15:18-08-46-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106074-0523-0002
Report Generated: 2023-05-05 15:08:50

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - Preschool
Report Page: (Page 2 of 7)
Date Prepared: 2023-05-05 15:13-24-04:00

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

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

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

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Space Conditioning System Information
Table with 6 columns: O1, O2, O3, O4, O5, O6. Rows include System Name, Quantity, System Serving, System Status, Space Type, Utilizing Recovered Heat.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106094-0521-0002
Report Generated: 2023-05-05 16:13:30

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - Preschool
Report Page: (Page 2 of 7)
Date Prepared: 2023-05-05 15:13-24-04:00

Q. MANDATORY MEASURES DOCUMENTATION LOCATION
This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - MP
Report Page: (Page 3 of 7)
Date Prepared: 2023-05-05 15:18-08-46-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)
Table with 11 columns: O1, O2, O3, O4, O5, O6, O7, O8, O9, O10, O11. Rows include Name or Item Tag, Equipment Category per Tables 110.2, 140.4(a) and 170.2(c)(3a), Equipment Type per Tables 110.2 and Title 20, Smallest Size Available, Heating Output, Cooling Output, Load Calculations.

FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c). Healthcare facilities are exempted.

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), EX-DOAS and Dual Fuel Heat Pumps)
Table with 9 columns: O1, O2, O3, O4, O5, O6, O7, O8, O9. Rows include Name or Item Tag, Size Category (Btu/h), Rating Condition, Efficiency Unit, Design Efficiency, Efficiency Unit, Minimum Efficiency Required per Tables 110.2 / Title 20, Design Efficiency.

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

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - MP
Report Page: (Page 4 of 7)
Date Prepared: 2023-05-05 15:18-08-46-04:00

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

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3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106074-0523-0002
Report Generated: 2023-05-05 15:08:50

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - Preschool
Report Page: (Page 5 of 7)
Date Prepared: 2023-05-05 15:13-24-04:00

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)
Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)
Table with 11 columns: O1, O2, O3, O4, O5, O6, O7, O8, O9, O10, O11. Rows include Name or Item Tag, Equipment Category per Tables 110.2, 140.4(a) and 170.2(c)(3a), Equipment Type per Tables 110.2 and Title 20, Smallest Size Available, Heating Output, Cooling Output, Load Calculations.

FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c). Healthcare facilities are exempted.

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), EX-DOAS and Dual Fuel Heat Pumps)
Table with 9 columns: O1, O2, O3, O4, O5, O6, O7, O8, O9. Rows include Name or Item Tag, Size Category (Btu/h), Rating Condition, Efficiency Unit, Design Efficiency, Efficiency Unit, Minimum Efficiency Required per Tables 110.2 / Title 20, Design Efficiency.

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

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106094-0521-0002
Report Generated: 2023-05-05 16:13:30

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - Preschool
Report Page: (Page 6 of 7)
Date Prepared: 2023-05-05 15:13-24-04:00

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STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
Project Name: Sixth St - MP
Report Page: (Page 4 of 7)
Date Prepared: 2023-05-05 15:18-08-46-04:00

H. FAN SYSTEMS & AIR ECONOMIZERS
This section does not apply to this project.

I. SYSTEM CONTROLS
This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (g), 170.2(c)(4D) 170.2(c)(4L) or requirements in 141.0(b)(2) 180.2(b)(2) for altered space conditioning systems.

Table with 9 columns: O1, O2, O3, O4, O5, O6, O7, O8, O9. Rows include System Name, System Zoning, Conditioned Floor Area Being Served (ft²), Thermostats (110.2(b) & (c), 120.2(a) & 180.2(b)(2) or 141.0(b)(2) & 160.3(a)(2)), Shut-Off Controls (120.2(a) & 160.3(a)(2)), Isolation Zone Controls (120.2(a) & 160.3(a)(2)), Demand Response (110.12, 120.2(b) & 140.4(n) & 170.2(c)(4D)), Supply Air Temp. Reset (140.4(f) & 170.2(c)(4D)), Window Interlocks per 140.4(n) & 170.2(c)(4D).

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

J. VENTILATION AND INDOOR AIR QUALITY
This section does not apply to this project.

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

L. DISTRIBUTION (DUCTWORK and PIPING)
This section does not apply to this project.

Registration Number: Generated Date/Time: Documentation Software: Energy Code Ace
CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance
Report Version: 2022.0.000
Compliance ID: 106074-0523-0002
Report Generated: 2023-05-05 15:08:50

STATE OF CALIFORNIA Mechanical Systems CERTIFICATE OF COMPLIANCE
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Table with 9 columns: O1, O2, O3, O4, O5, O6, O7, O8, O9. Rows include System Name, System Zoning, Conditioned Floor Area Being Served (ft²), Thermostats (110.2(b) & (c), 120.2(a) & 180.2(b)(2) or 141.0(b)(2) & 160.3(a)(2)), Shut-Off Controls (120.2(a) & 160.3(a)(2)), Isolation Zone Controls (120.2(a) & 160.3(a)(2)), Demand Response (110.12, 120.2(b) & 140.4(n) & 170.2(c)(4D)), Supply Air Temp. Reset (140.4(f) & 170.2(c)(4D)), Window Interlocks per 140.4(n) & 170.2(c)(4D).

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1920 E Warner Ave, Suite 3-H
Santa Ana, CA 92705
Telephone (714) 884-3834
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PEI #600.030

SIXTH STREET PREP STREAM

VICTOR ELEMENTARY SCHOOL DISTRICT
15476 6TH ST
VICTORVILLE, CA 92395

ISSUED FOR:

REVISIONS:

REVISIONS:

REVISIONS:

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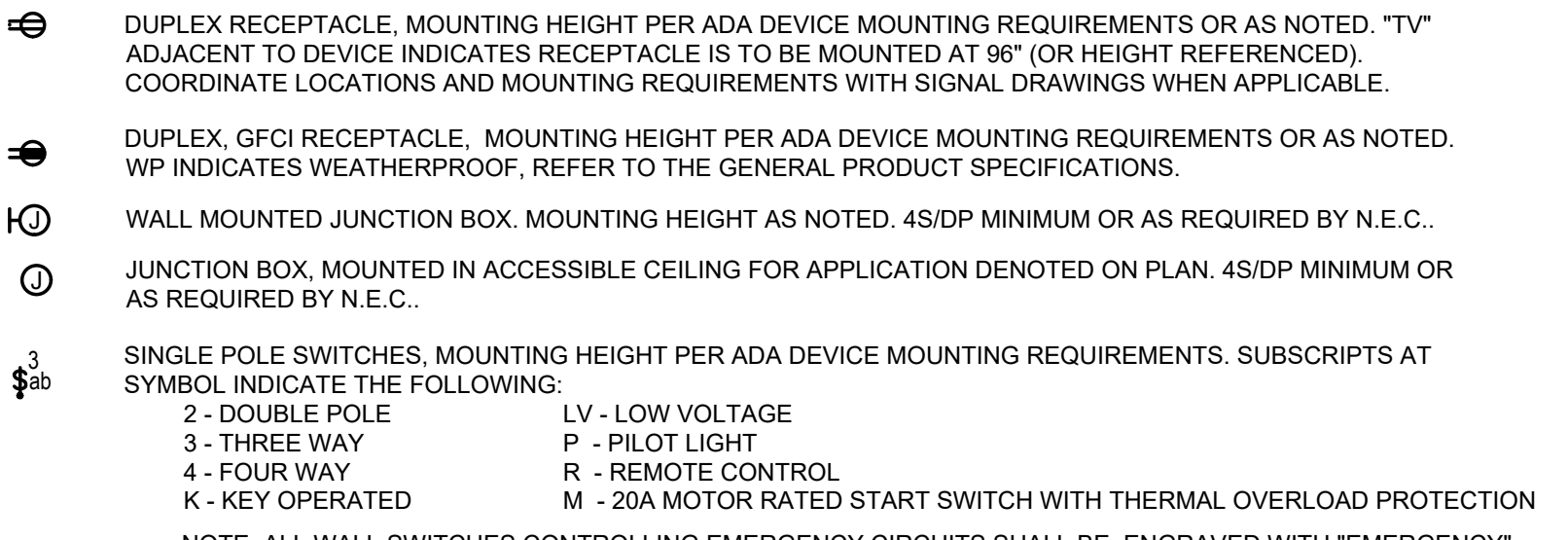
GENERAL NOTES

- 1. THE ELECTRICAL CONTRACTOR (EC) SHALL INCLUDE AND PROVIDE IN BID ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL INSTALLATION OF ALL ELECTRICAL SYSTEMS.
2. EC SHALL COORDINATE AND OBTAIN ALL APPROVALS, PERMITS, AND DOCUMENTS FROM REGULATORY AGENCIES AND UTILITY COMPANIES.
3. ALL CONDUIT RACEWAY SYSTEMS ARE TO BE INSTALLED AS FOLLOWS:
a. RIGID GALVANIZED STEEL IS TO BE INSTALLED IN ALL AREAS WHICH ARE EXPOSED TO WEATHER AND/OR PHYSICAL DAMAGE.
b. FLEXIBLE METALLIC CONDUIT IS PERMITTED FOR SHORT CONNECTIONS TO LIGHT FIXTURES (6" OR MAX). FLEXIBLE CONDUIT SHALL ALSO BE INSTALLED FOR EQUIPMENT REQUIRING VIBRATION ISOLATION AND HORIZONTAL RUNS IN WOODEN STUD WALLS.
c. ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS SHALL BE USED FOR BUILDING INTERIOR WORK.
d. P.V.C. CONDUIT SHALL BE USED FOR UNDERGROUND CONDUITS. ROUTE CODE SIZED GROUND WIRE INSIDE OF CONDUIT. CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE 1/4" C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
4. UNLESS OTHERWISE NOTED OR REFERENCED ON THE DRAWINGS ALL NEW ELECTRICAL WIRING IS TO BE 600V RATED COPPER WITH TYPE "THHN/THWN" INSULATION.
5. ALL MOUNTING HEIGHTS REFERENCED ON DRAWINGS ARE MEASURED FROM FINISHED FLOOR UNLESS OTHERWISE REFERENCED OR INDICATED ON THE DRAWINGS.
6. ALL ELECTRICAL EQUIPMENT LOCATIONS (LIGHTING, RECEPTACLE, FLOOR BOX, ETC.) ARE TO BE VERIFIED WITH THE ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO BEGINNING ANY ROUGH-IN.
7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS, AND ALL STATE, LOCAL, SEISMIC, AND NATIONAL ELECTRIC CODES.
8. THE DRAWINGS INCLUDED IN THIS DOCUMENT SET ARE DIAGRAMMATIC. THEY ARE REPRESENTATIVE OF THE ENGINEER OR RECORDS DESIGN INTENT FOR ALL ELECTRICAL DEVICES/EQUIPMENT AND THE INDIVIDUAL POWER FEEDS THEY ARE TO BE CONNECTED TO. THE SELECTED EC SHALL BE RESPONSIBLE FOR PROVIDING ALL J-BOXES, CONDUIT, WIRING/ CABLING, ETC. AS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL INSTALLATION.
9. ALL ELECTRICAL EQUIPMENT (PANELS, RECEPTACLES, J-BOXES, ETC.) SHALL BE WEATHERPROOF AND/OR INSTALLED IN A NEMA 3R ENCLOSURE WHERE APPLICABLE OR INSTALLED OUTDOORS.
10. ALL ELECTRICAL WORK SHALL BE PERFORMED ACCORDING TO STATE, LOCAL, NATIONAL, AND DISTRICT STANDARDS AND CODES. COORDINATE SPECIFIC REQUIREMENTS WITH DISTRICT STANDARDS AND AUTHORITY HAVING JURISDICTION.
11. ALL ELECTRICAL EQUIPMENT SHALL BE NEW AND IS TO BE CLEARLY LABELED/IDENTIFIED AS UNDERWRITER LABORATORIES (UL) COMPLIANT UNLESS OTHERWISE NOTED OR REFERENCED IN THE DRAWINGS OR SPECIFICATIONS. ANY EQUIPMENT WITH A LISTING OTHER THAN "UL" OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) LISTING AS REFERENCED IN CEC 110.2 (I.E. EQUIPMENT WITH A RECOGNIZED "UL"/RUL LISTING) ARE NOT PERMITTED FOR USE.
12. EC IS RESPONSIBLE FOR SECURING ALL REQUIRED BUILDING PERMITS AND SHALL INCLUDE THE COST TO SECURE BUILDING PERMITS IN THEIR FINAL BID.
13. UNLESS OTHERWISE WRITTEN, STATED, OR REFERENCED IN DRAWINGS OR SPECIFICATIONS CONTRACTOR SHALL GUARANTEE THE COMPLETE ELECTRICAL INSTALLATION FOR A PERIOD OF 1-YEAR.
14. ALL ELECTRICAL DISTRIBUTION EQUIPMENT (PANELS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC.) FEEDERS (CONDUIT, CONDUCTOR SIZE, AND QUANTITY), MECHANICAL EQUIPMENT, ELEVATORS, VARIABLE FREQUENCY DRIVES (VFD'S), ETC. MAY ONLY BE REFERENCED ON THE SINGLE-LINE DRAWING AND NOT INDIVIDUAL PLAN SHEETS. EC SHALL REVIEW AND VERIFY ALL REFERENCED INFORMATION ON THE SINGLE-LINE DRAWING.
15. EC SHALL BE RESPONSIBLE FOR ALL REQUIRED SAW-CUTTING, CORE DRILLING, PATCHING, REFINISHING, ETC. AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND SYSTEMS. ANY PENETRATIONS OR OPENINGS MADE IN WALLS OR STRUCTURES SHALL BE PATCHED AND/OR SEALED AS REQUIRED TO MAINTAIN THE INTEGRITY AND/OR RATING OF THE WALL OR STRUCTURE.
16. EC SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR FINAL BID TO VERIFY ALL EXISTING SITE CONDITIONS WHICH MAY AFFECT THE COMPLETION OF THE ELECTRICAL INSTALLATION. ALL METHODS AND REQUIREMENTS FOR INSTALLATION SHALL BE DETERMINED PRIOR TO BID DATE. ELECTRICAL EC SHALL NOTIFY THE ENGINEER OF RECORD OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT REFERENCED ON THESE ELECTRICAL PLANS. SUBMITTAL OF THE EC'S BID DEMONSTRATES THE CONTRACTOR'S AWARENESS OF ALL SITE CONDITIONS AND REQUIRED WORK TO BE PERFORMED.
17. ALL CEILINGS AND CEILING SYSTEMS AS A RULE ARE CONSIDERED TO BE INACCESSIBLE. ALL ELECTRICAL DEVICES AND EQUIPMENT INSTALLED ABOVE CEILING ARE TO BE MOUNTED IN A LOCATION WHICH IS ACCESSIBLE. IN SITUATIONS WHERE ELECTRICAL DEVICES AND EQUIPMENT MUST BE INSTALLED IN AN AREA WHICH IS INACCESSIBLE, EC SHALL INSTALL AN ADEQUATELY SIZED, CODE COMPLIANT ACCESS PANEL AS REQUIRED BY CURRENT LOCAL, STATE, AND DISTRICT LOCATION OF THE REQUIRED ACCESS PANEL SHALL BE COORDINATE WITH THE ARCHITECT AND INTERIOR DESIGNER PRIOR TO ROUGH-IN.
18. EC IS RESPONSIBLE FOR COMPLETING ALL FINAL ELECTRICAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT AND SHALL PROVIDE ALL MOTOR START SWITCHES, DISCONNECTS, ETC. AS REQUIRED.
19. ALL ELECTRICAL EQUIPMENT CONNECTIONS, MOUNTING LOCATIONS, ELECTRICAL REQUIREMENTS, ETC. ARE TO BE COORDINATED AND VERIFIED PRIOR TO COMMENCEMENT OF ELECTRICAL ROUGH-IN.
20. EC TO SUBMIT SHOP DRAWINGS FOR THE APPROVAL OF THE ELECTRICAL ENGINEER OF RECORD FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS TO BE UTILIZED IN THE ELECTRICAL INSTALLATION. ALL APPROVALS BY THE ENGINEER OF RECORD MUST BE SECURED PRIOR TO COMPLETION OF ANY PURCHASE ORDERS OR ROUGH-IN WORK.
21. THESE ELECTRICAL DRAWINGS AND ASSOCIATED SPECIFICATIONS ARE TO BE CONSIDERED CONTRACT DOCUMENTS FOR AGENCY REVIEW/APPROVAL AND EC BIDDING PURPOSES.
22. THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH NECEC/ ARTICLE 250. ALL POWER AND LIGHTING CIRCUITS SHALL BE INSTALLED WITH A MINIMUM #12AWG CU GROUND WIRE UNLESS OTHERWISE NOTED OR REFERENCED.
23. EC TO PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL DISCONNECT SWITCHES, DISTRIBUTION EQUIPMENT, J-BOXES, ETC. WITH METALLIC COVERS. SEE GENERAL NOTES ON SINGLE-LINE DIAGRAM FOR SPECIFIC INFORMATION REGARDING NAMEPLATE REQUIREMENTS.
24. ALL COVER PLATES FOR LIGHT SWITCHES AND OUTLETS SHALL BE STAINLESS STEEL WITH PANEL AND CIRCUIT ENGRAVED NAMEPLATES - UNLESS OTHERWISE NOTED.
25. AT THE COMPLETION OF THE PROJECT THE EC SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILT ELECTRICAL DRAWINGS.
26. ANY AND ALL WORK THAT REQUIRES AN INTERRUPTION TO A BUILDING(S) ELECTRICAL SERVICE MUST BE COORDINATED WITH THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE. ANY SERVICE DOWNTOWN SHALL NOT OCCUR DURING SCHOOL HOURS.
27. EC SHALL BE RESPONSIBLE FOR ENSURING THAT ALL LOW VOLTAGE SYSTEMS ARE COMPATIBLE AND ARE COMPLETE AND OPERATIONAL.
28. EC SHALL PERMANENTLY TAG ALL CONDUCTORS IN EACH ELECTRICAL AND LOW VOLTAGE SYSTEM AS REFERENCED IN THE SPECIFICATIONS.
29. ANY SURFACE MOUNTED EXPOSED CONDUIT IN VIEW OF THE PUBLIC SHALL BE PAINTED TO MATCH THE FINISH OF THE SURFACE TO WHICH IT IS MOUNTED WITH TWO (2) COATS OF PAINT. ALL EXTERIOR SURFACE MOUNTED EXPOSED CONDUITS ARE TO BE PAINTED WITH TWO (2) COATS OF WEATHERPROOF LATEX PAINT.
30. EC TO PROVIDE ALL CONDUIT ONLY (C.O.) INFRASTRUCTURE WITH A 3/16" NYLON PULL ROPE. LABEL PULL ROPE AT EACH END WITH THE LOCATIONS OF ORIGIN AND TERMINATION.
31. IN INSTANCES WHERE A CONFLICT BETWEEN THE ELECTRICAL DRAWINGS AND THE SPECIFICATIONS FOR THE PROJECT EXISTS, THE EC SHALL ADHERE TO THE MORE STRINGENT REQUIREMENT.
32. SUPPORTS AND ATTACHMENTS OF ALL EQUIPMENT TO BE INSTALLED AS A PART OF THIS PROJECT SHALL BE DETAILED ON CONSTRUCTION DOCUMENTS EXCEPT THOSE EXEMPTED BY THE 2022 CBC SECTION 1617A. EQUIPMENT SUPPORTS AND ATTACHMENTS SHALL BE APPROVED BY THE APPROPRIATE REGISTERED DESIGN PROFESSIONAL (RDP) AND OSHPD AS A PART OF FIELD REVIEW/OBSERVATIONS. THE INSPECTOR OF RECORD (IOR) SHALL ASSURE THAT THE ABOVE REQUIREMENTS ARE ENFORCED.
33. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. AS SUCH, ALL ELECTRICAL EQUIPMENT LOCATIONS, CONDUIT ROUTING, ETC. ARE NOT PRECISE AND SHALL BE COORDINATED, VERIFIED, AND DETERMINED IN THE FIELD. EC TO INSTALL ALL ELECTRICAL EQUIPMENT AND ROUTE ALL CONDUITS IN LOCATIONS WHICH MEET CODE REQUIREMENTS FOR ACCESSIBILITY/MOUNTING AND DO NOT INTERFERE WITH ANY BUILDING STRUCTURES, UTILITIES, OR OTHER TRADE EQUIPMENT.
34. ALL EXISTING SITE RELATED ELECTRICAL EQUIPMENT (I.E. UNDERGROUND UTILITIES, DUCTS, STRUCTURES, PULL BOXES, ETC.) LOCATIONS ARE DIAGRAMMATIC IN NATURE AND ONLY REFLECT APPROXIMATE LOCATIONS, QUANTITIES, AND/OR ROUTING INFORMATION. ALL REFERENCED INFORMATION HAS EITHER BEEN SURVEYED, REPORTED BY THE OWNER/ OWNERS REP, AND/OR REFERENCED ON AN AS-BUILT RECORD DOCUMENTS. ALL EXISTING ELECTRICAL EQUIPMENT REFERENCED ON THESE DRAWINGS IS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. BY ACCEPTING THESE PLANS OR PROCEEDING WITH ELECTRICAL SCOPE OF WORK, AGREES TO ACCEPT LIABILITY AND SHALL RENDER THE ENGINEER OF RECORD HARMLESS FOR ANY ELECTRICAL EQUIPMENT NOT REPORTED TO THE ENGINEER DURING THE DESIGN PROCESS. THE CONTRACTOR TO TAKE THE REQUIRED PRECAUTIONARY MEASURES TO ENSURE ALL EXISTING ELECTRICAL EQUIPMENT IS PROTECTED IN PLACE.
35. ANY EXISTING BUILDING STRUCTURES OR SURFACES DAMAGED BY DEMOLITION OR DURING INSTALLATION ACTIVITIES SHALL BE REPAIRED, PATCHED, AND/OR REFINISHED TO THE SATISFACTION OF THE OWNER.
36. ALL EXISTING ELECTRICAL EQUIPMENT INDICATED TO BE DEMOLISHED SHALL BE REMOVED ENTIRELY AND ALL AFFECTED SURFACES OR STRUCTURES SHALL BE REPAIRED, REPLACED, AND/OR REFINISHED TO MATCH THE ADJACENT SURFACES OR DAMAGED ITEMS).
37. FOR CLARITY ONLY RECONSTRUCTION OR NEW WORK RELATED ELEMENTS AND SELECT EXISTING FACILITIES SPECIFICALLY REQUIRING COORDINATION WITH ANY NEW WORK.
38. ALL CONDUITS, BOXES, SURFACE MOUNTED RACEWAYS, SUPPORT DEVICES, AND ASSOCIATED FITTINGS SHALL BE MOUNTED IN CONCEALED LOCATIONS ABOVE CEILINGS, DUCTS, TRUSSES, BEAMS, ETC. IN AREAS WHERE A CONCEALED MOUNTING LOCATION IS NOT AVAILABLE EQUIPMENT SHALL BE PAINTED TO MATCH THE ADJACENT SURFACES.
39. ANY PENETRATIONS BY CONDUITS OR OTHER ELECTRICAL EQUIPMENT THROUGH A FIRE RATED WALL - WHETHER EXISTING OR NEW - SHALL MAINTAIN THE APPROPRIATE FIRE RATING BY SEALING THE PENETRATION WITH THE APPROPRIATE UL-LISTED FIRE-STOP MATERIAL/SYSTEM.
40. CONTRACTOR TO INCLUDE IN BASE BID INSTALLATION OF A MINIMUM OF 24" OF LIQUID-TITE FLEXIBLE CONDUIT BEING INSTALLED ON ALL CONDUITS AT THE ENTRANCE TO ALL SWITCHGEAR, GENERATOR, TRANSFORMERS, PANELBOARDS AND OTHER ELECTRICAL EQUIPMENT, AS WELL AS THE TRANSITION FROM LIQUID-TITE TO EMT.
41. ALL WORK ON EMERGENCY EQUIPMENT IS TO BE PERFORMED LIVE. CONTRACTOR IS RESPONSIBLE FOR INCLUDING ALL REQUIRED COSTS, EQUIPMENT PERMITS, AUTHORIZATIONS, ETC. AS REQUIRED TO PERFORM THE WORK HOT.
42. PROVIDE ARC FLASH LABELING AS REQUIRED PER 110.16.

ABBREVIATIONS

Table listing abbreviations for electrical symbols and components. Includes items like 4S/DP, ADA, A.F.F., A.F.G., AWG, AMP, A.I.C., AF/AT, AHJ, AS/AF, ATS, AVG, BDF, BR, BLDG, CEC, CIRC., CKT., CB, CDFD, C, C.O., CONN, CPT, CLCB, CLF, CT, DIA, DISC, DIST, E, E.C., EMS, EMT, ENT, EWC, E.P.O., E-DL, EF, EIG, EP, ER*, FT or', FA, FLA, GRD, GFCI, GFP, GEC, HACR, HOA, HVAC, H.W., D., L., HD, HP, HPS, IN. or', ID, JBOX, K, KCMIL, KVA, KW, KWH, LCL, L.F., LTPS, LPS, L.R., L.T.S., L.T.S., MAX., MCF, MOCP, MCB, MLC, M.C., M, MM, MP, MCH, M.H., MIN., MCM, MCC, MCMC, MCP, MFR, MTD, MW, N, NATS, NEC, NEMA, NC, NO, NF, NL, N.T.S., N.L., NUMBER, OFCI, %, P, PH, PHOTOCELL, P.C., POLE, P.V.C., PDU, PRIMARY, PT, POTENTIAL TRANSFORMER, RECEPTACLE, REF, RMS, SCC, SCS, SFD, SMCNA, SQA, TC, TELDATA, T.V.S.S., TYP, U.G.P.S., U.O.N., U.P.S., VAV, V, VA, VD, WP, W, XFM, XX, LIGHTING, LOW PRESSURE SODIUM, MAXIMUM, MAIN DISTRIBUTION FRAME, MAXIMUM OVERCURRENT PROTECTION, MAIN CIRCUIT BREAKER, MAIN LUGS ONLY, MECHANICAL CONTRACTOR, METER, METER MAIN, MERCURY VAPOR, METAL HALIDE, MINIMUM, MINIMUM CIRCUIT AMPS, MOTOR CONTROL CENTER, THOUSAND CIRCLAR MILS, MOTOR CIRCUIT PROTECTOR, MOUNTED, MICROVAIVE, NEW EQUIP., NON AUTOMATIC DISCONNECT, NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION, NORMALLY CLOSED, NORMALLY OPENED, NON-FUSED, NOT IN CONTRACT, NOT TO SCALE, NIGHT LIGHT, OWNER FURNISHED, CONTRACTOR INSTALLED, PERCENT IMPEDANCE, PLUMBING CONTRACTOR, POLY VINYL CHLORIDE, POWER DISTRIBUTION UNIT, OVER 600 VOLTS, FURNISH, INSTALL AND CONNECT, POTENTIAL TRANSFORMER, REFERENCE, REFRIGERATOR, RIGID GALVANIZED STEEL, ROOT MEAN SQUARE, SHORT CIRCUIT CURRENT, STRUCTURED CABLING SYSTEM, SMOKE FIRE DAMPER, 600 VOLTS AND LESS, SHEET METAL & AIR COND. CONTRACTORS' NATL. ASSOC., SQUARE, TIMECLOCK, TELEVISION, TRANSIENT VOLTAGE SURGE SUPPRESSION, UNDERGROUND PULL SECTION UNLESS OTHERWISE NOTED, UNINTERRUPTIBLE POWER SYSTEM, VARIABLE AIR VOLUME, VOLTS, VOLT AMPERES, VOLTAGE DROP, WEATHERPROOF, WIRE, TRANSFORMER, EXISTING EQUIP. TO BE DEMO, LINEAR FEET.

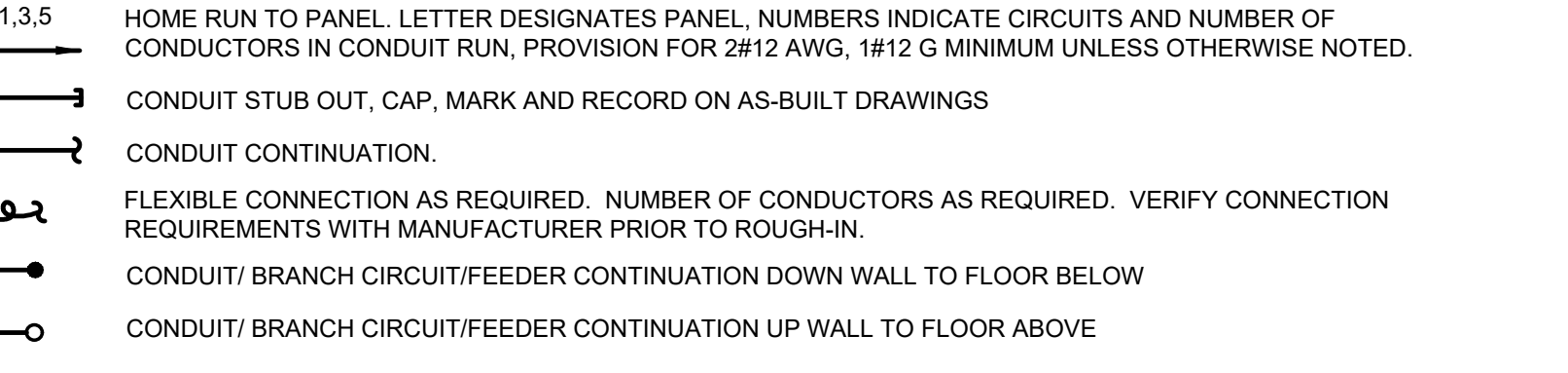
POWER SYMBOLS



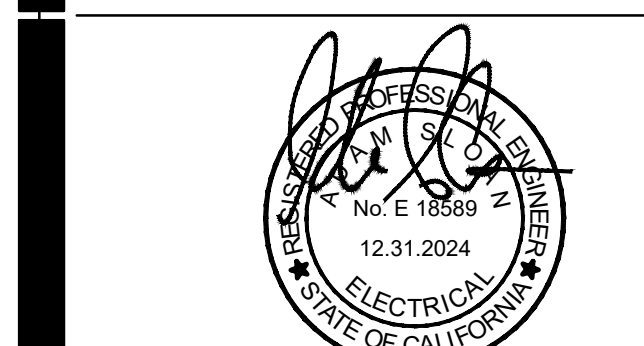
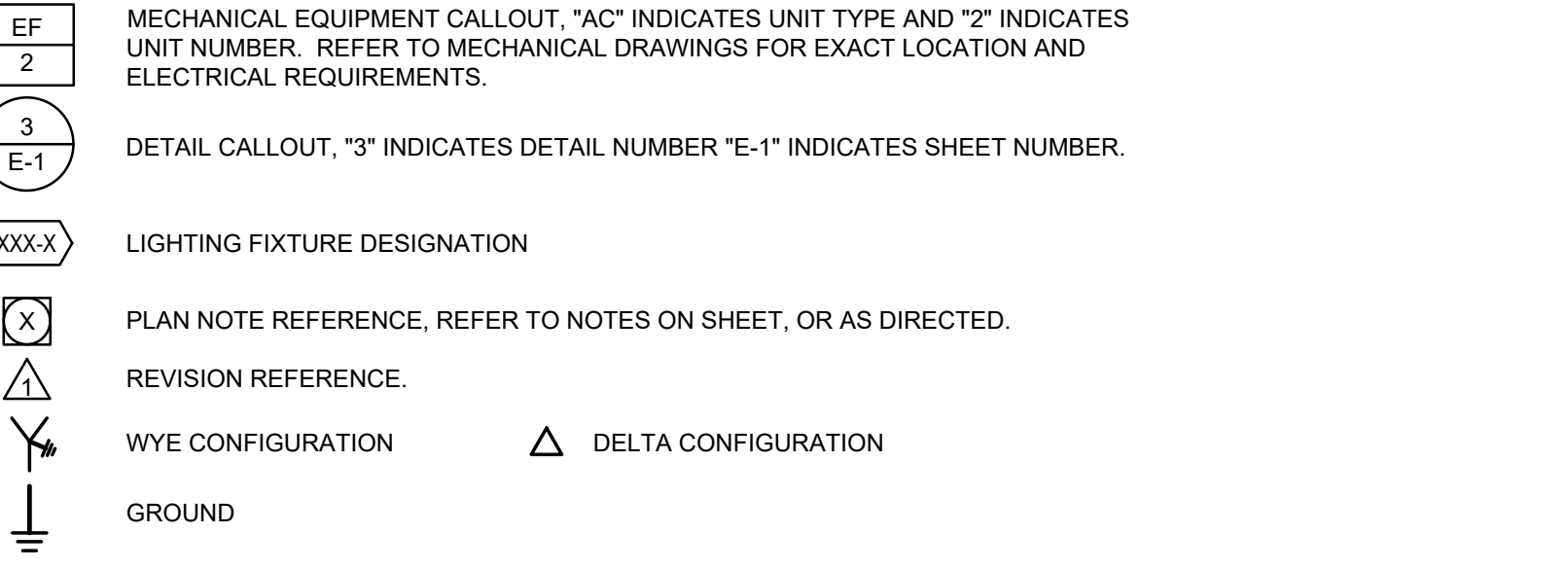
NOTE: PROVIDE AND INSTALL ONLY HEAVY DUTY HOSPITAL GRADE TAMPER RESISTANT DEVICES AND EQUIPMENT SUITABLE FOR USE AND INSTALLATION IN A BEHAVIORAL HEALTH FACILITY. ALL COVER PLATES FOR LIGHTING SWITCHES, J-BOXES, RECEPTACLES, ETC. ARE TO BE CONSTRUCTED OF STAINLESS STEEL ANTI-MICROBIAL AND ANTI-MRSA FINISHES.

NOTE: ALL LIFE SAFETY AND CRITICAL FEEDER/BRANCH CIRCUITS WILL NEED TO BE MECHANICALLY PROTECTED TO COMPLY WITH CEC 517.30(C)(3).

BRANCH CIRCUIT SYMBOLS



ANNOTATIONS



SIXTH STREET PREP STREAM

VICTOR ELEMENTARY SCHOOL DISTRICT 15476 SIXTH ST. VICTORVILLE, CA 92395

PIPING, DUCTWORK AND ELEC. DIST. SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 CHAPTER 13 AS DEFINED IN ASCE 7-16 SECTION 13.6, AND 2022 CBC, SECTIONS 1613A AND 1617A.

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), 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);
OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS
OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) 0043 OR 0052

ALL CONDUITS 3" AND LARGER ARE TO BE SEISMICALLY BRACED/ANCHORED. CONTRACTOR TO REFER TO STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS AND REQUIREMENTS.

SEISMIC BRACING NOTES FOR DEFERRED SUBMITTALS

- 1. SUPPORT AND BRACING FOR CONDUIT INSTALLED WITH THIS SCOPE OF SERVICES IS TO BE PROVIDED AND INSTALLED PER OPM-0043 MASON SEISMIC RESTRAINT COMPONENTS FOR SUSPENDED UTILITIES OR OTHER APPROVED OSHPD OPM.
2. LAYOUT DRAWINGS IDENTIFYING/DEMONSTRATING THE BRACING/SUPPORT LOCATIONS AND REFERENCES TO DETAILS FROM THE RELEVANT OSHPD PRE-APPROVALS ARE TO BE SUBMITTED FOR USE BY THE INSPECTOR OF RECORD AND OSHPD FIELD STAFF. THE LAYOUT DRAWINGS ARE TO BE PREPARED BY THE SUBCONTRACTOR AND SIGNED BY A LICENSED STRUCTURAL ENGINEER PER ASCE 7 CHAPTER 13 AS MODIFIED BY 2022 CBC SECTIONS 1613A AND 1617A. REFERENCES TO DETAILS FROM THE OSHPD PRE-APPROVAL ARE TO BE FOR AN ENTIRE DETAIL AS SUBMITTED OR REFERENCE ARE TO BE PREPARED FOR EACH ASPECT OF A SUBMITTED DETAIL. CUSTOM DETAILS ARE TO BE PROVIDED FOR SITUATIONS WHERE OSHPD PRE-APPROVALS DO NOT APPLY. AT LEAST 4-WEEKS PRIOR TO BEGINNING INSTALLATION FOUR COPIES OF THE PLANS ARE TO BE SUBMITTED TO THE ARCHITECT OF RECORD WHO WILL SUBMIT THEM TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL. AFTER THIS APPROVAL DRAWINGS WILL BE SUBMITTED TO THE OSHPD DISTRICT STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. THE PLANS SHALL BE COORDINATED WITH THE PLANS AND OTHER TRADES. A COPY OF THE CHOSEN BRACING SYSTEM INSTALLATION GUIDEMANUAL IS REQUIRED TO BE ON THE JOBSITE PRIOR TO THE START OF INSTALLATION.
3. THE STRUCTURAL ENGINEER WILL DETERMINE THE APPROPRIATE SEISMIC FORCES BASED ON THE DESIGN CRITERIA INCLUDED IN THE STRUCTURAL DRAWINGS.
4. ONCE THE LOCATIONS OF ALL CONDUIT HAVE BEEN ESTABLISHED, THE STRUCTURAL ENGINEER MUST CHECK THE ADEQUACY OF THE SUPPORTING STRUCTURE TO ENSURE THAT THE ORIGINAL DESIGN IS STILL ADEQUATE. THE INSPECTOR OF RECORD IS TO ENSURE THAT ALL WORK IS PROPERLY INSTALLED PER THE APPLICABLE OSHPD PRE-APPROVAL.

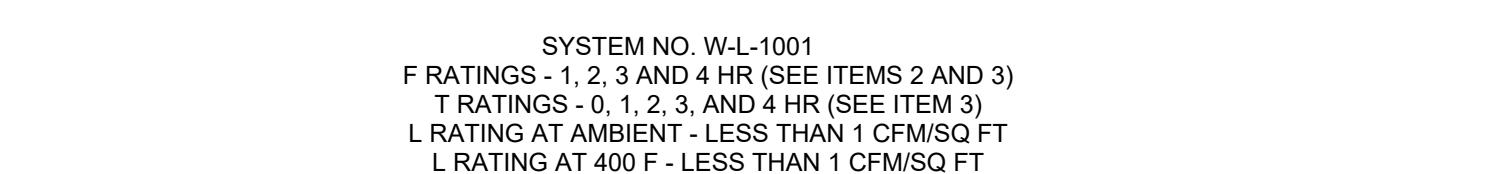
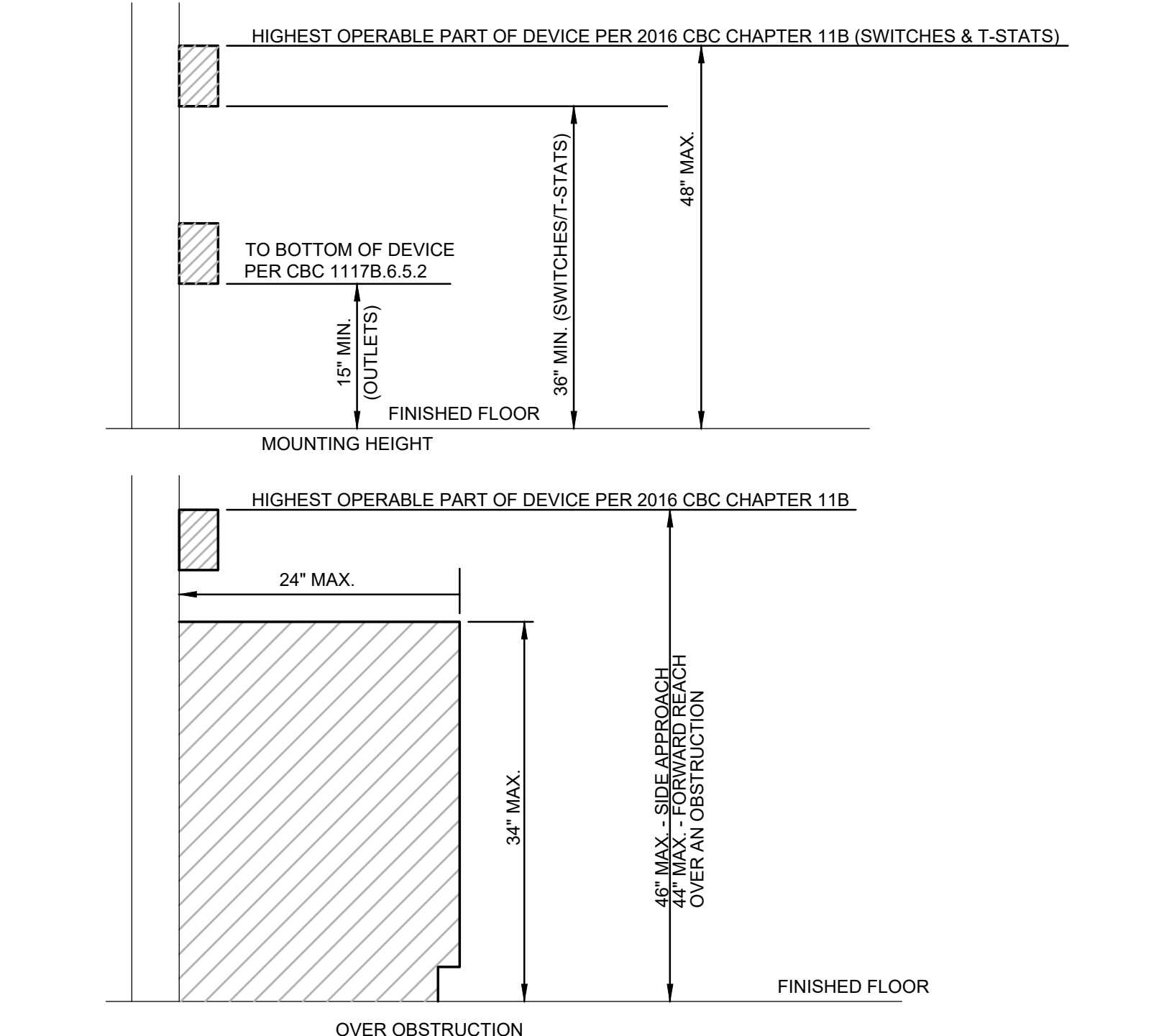


Table with 4 columns: MAX PIPE OR CONDUIT DIAM, IN; ANNUAL SPACE, IN; F RATING, HR; T RATING, HR. Lists values for 1, 2, 4, 6, and 12 inch diameters.

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*WHEN COPPER PIPE IS USED, T RATING IS 0 HR.
#0 TO 1-1/2 IN. ANNUAL SPACE APPLIES ONLY WHEN TYPE CP-25 WB+ CAULK IS USED AND ONLY WHEN THE MIN THICKNESS OF THE GYPSUM WALLBOARD IS 5/8 IN. FOR 1 HR RATED WALLS AND 1-1/4 IN. FOR 2 HR RATED WALLS.
MINNESOTA MINING & MFG. CO. - CP 25WB+
* BEARING THE UL CLASSIFICATION MARKING

FIRE RATED PENETRATION DETAIL (TYP.) 02

ADA DEVICE MOUNTING DETAIL 01

Form containing project information, revision table, registration/signature line, sheet title (ELECTRICAL COVER SHEET), sheet number (E001), drawing and checked information, date (11/28/22), and scale (0, 20, 40, 80).

